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INTERNATIONAL METEOROLOGY

FOR THE MONTH OF MAY and June 1882.

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WASHINGTON, D. C.:
JUNE, 1883.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 1, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.89	759.1	65.1	18.4	75	ne.			1		0			0	0	clear	Moiroud.
Algiers			29.86	758.4	78.1	25.6	56	nw.			1		0			0	0	clear	Nicolas.
La Galle			29.89	759.2	79.9	26.6	56	nw.			1		4			0	0	cloudy	Fonfrède.
Tunis			29.97	761.2															Jacques.
Saida			30.04	763.1															Dumas.
Tebessa			30.10	764.4	70.9	21.6	48	sw.			4		3			0	0	pretty fair	Derché.
Geriville					81.0	27.2	23	s.			5		10			0	0	covered	Louchamp.
Laghouat			30.12	765.1	84.9	29.4	56	se.			1		4			0	0	cloudy	Abraham.
Biskra			30.10	764.5	89.6	32.0	14	sse.			3		6			0	0	very cloudy	Malau.
Australian.																			
Melbourne, Victoria	30.04	763.0	30.13	765.3	57.6	14.2	92	wsw.	9	4.0			7			0.25	6.4	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.55	750.5	30.08	763.9	74.8	23.8	42	ne.			2		4			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.27	743.4	30.01	762.3	69.8	21.0	44	e.	13.0	5.8			10			0	0		Dr. Wierzbiski.
Eperies	29.17	740.9	30.02	762.6	68.0	20.0	45	calm			0	cs	9 s			0	0		Julius Mikolik.
Gratz	28.76	730.6	29.97	761.1	72.7	22.6	42	sw.			2		3			0	0		Andreas Rospini.
Hermannstadt	28.68	728.4	30.07	763.7	69.8	21.0	61	se.			2		1			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.54	724.8	29.81	757.1	73.4	23.0	57	calm			0		3			0	0	almost clear	The Staff.
Lemberg	29.10	739.2	30.07	763.7	66.4	19.1	57	sw.			2		3			0	0		Dr. T. Stanecki.
Pola	29.98	761.6	30.10	764.4	68.0	20.0	51	se.			2		5			0	0		I. R. Hydrographic Office.
Szathmar	29.61	752.2	30.07	763.7	72.3	22.4	45	e.			2		1			0	0		Joseph Midlinszky, S. J.
Szegedin	29.79	756.7	30.06	763.6	71.6	22.0	45	s.			1		3			0	0		Karl Stancel.
Trieste	30.02	762.5	30.12	765.1	66.6	19.2	51	calm			0		0			0	0		Rieder.
Vienna	29.22	742.3	29.91	759.6	76.5	24.7	28	s.			5		2			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.45	748.0	29.54	750.3	48.0	8.9	74	sse.	20	8.9			6			0.110	2.8	squally	W. Boswell.
Armagh, Observatory	29.07	738.4	29.30	744.2	51.0	10.6	62	s.	27	12.1			4					squally	S. Call.
Bidston, Liverpool Obs'y			29.52	749.8	51.3	10.7	72	ssw.	20	8.9			10					overcast	John Hartnup.
Bolton, Sharples	29.01	736.8	29.54	750.3	49.9	9.9	71	s.	24	10.7			8					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.16	740.7	29.56	750.8	49.7	9.8	62	se.			4		9			0.07	1.8	overcast	[A.S. J. McLandsborough, F. R
Bridgetown, Barbadoes	29.99	761.7	30.02	762.5	84.0	28.9	67	ne.			2		6					gloomy	Corpl. J. Surgenor, A. H.C.
Cardington			29.69	754.1	55.0	12.8	76	sw.			3.0		7			blank	blank	d. clouds	John McLaren.
Chatham, School M. E.	29.62	752.3	29.75	755.6	57.5	14.2	60	sw.			1		7					d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.46	748.3	29.68	753.9	53.6	12.0	63	sw.			6		6					squally	The Staff.
Fort Napier, Natal	27.43	696.7	29.65	753.1	79.0	26.1	54	w.			3		3					blue sky	Pvt. E. K. Annis, A. H.C.
Free Town, Sierra Leone	29.60	751.8	29.83	757.7	87.0	30.6	40	nw.			1		3					blue sky	Sergt. John Robinson.
Gibraltar, Mediterranean	29.96	761.0	30.01	762.2	68.4	20.2	77	w.			3		8					gloomy	Opl. O. Baldwin.
Glasgow, Observatory	29.21	741.9	29.42	747.3	45.8	7.7	73	ese.			4		10 k					gloomy	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.58	751.3	29.75	755.6	54.0	12.2	60	sw.			4		8					showery	The Staff.
Guernsey	29.52	749.8	29.82	757.4	55.5	13.1	70	ssw.			2		2			blank	blank	d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.71	754.6	29.75	755.6	54.8	12.7	58	sw.	25	11.2			6					d. clouds	The Staff.
Leicester, Museum	29.38	746.2	29.63	752.6	55.6	13.1	58	s.			2		4					d. clouds	J. O. Smith.
Malta, Mediterranean	30.07	763.8	30.15	765.8	68.2	20.1	59	se.			2		0					blue sky	I. H. Whysall.
Nassau, Bahamas	30.11	764.8	30.16	766.1	82.0	27.8	67	sw.			1		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.09	738.9	29.61	752.1	55.1	12.8	58	ssw.			4		5					squally	John Mac Email.
Oxford, Radcliffe Obs'y	29.47	748.5	29.70	754.4	54.9	12.7	58	ssw.			6		4					squally	The Staff.
Plymouth	29.63	752.6	29.71	754.6	55.0	12.8	68	sw.			4		5					d. clouds	John Merrifield.
Sandwick Manse, Orkneys			29.52	749.8	48.2	9.0	76	se.	15	6.7			0					blue sky	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.88	758.9	29.94	760.5	62.6	17.0	71	ne.			1		9			blank	blank	gloomy	W. H. Lyne.
Sheffield	29.32	744.7	29.60	751.8	56.4	13.6	62	ssw.			3		8			0.02	0.5	overcast	W. F. Cooper.
Silloth Rectory	29.43	747.5	29.46	748.3	48.2	9.0	78	wsw.			0		10			0.350	8.9	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.57	751.1	49.0	9.4	66	s.	28	12.5			8					d clouds	J. New.
Stratfield Turgiss	29.54	750.3	29.75	755.6	51.9	11.1	84	w.			3		6					showery	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	29.65	753.1	29.69	754.1	57	13.9	81	sw.			7		5					d. clouds	W. Newcombe.
Valencia, Observatory	29.28	743.7	29.31	744.5	51.0	10.6	71	wsw.	34	15.2			5			blank	blank	squally	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.56	750.8	29.61	752.1	35	1.7	92	nw	14	6.3			10 n		n.	0.84	21.3	light rain	H. J. Cundall, C. E.
Chatham, N. B*	29.73	755.1	29.79	756.7	39	3.9	86	nw.	9	4.0			10 ks		nw.	0.42	10.7	cloudy	G. A. Blair.
Father Point, Quebec*	29.84	757.9	29.86	758.4	34	1.1	92	ne.	10	4.5		2 k	hz	w.		0	0	clearing	J. McWilliams.
Fort Garry, Manitoba*	29.34	745.2	30.21	767.3	25	— 3.9	84	n.	8	3.6		5 k	5 ks	n.	n.	0	0	cloudy	James Stewart.
Halifax, N. S*	29.60	751.8	29.73	755.1	39	3.9	82	nw.	18	8.0			10 k		nw.	1.120	28.4	cloudy	A. Allison.
Kingston, Ontario*	29.66	753.4	30.01	762.2	41	5.0	70	sw.	7	3.1		0	0			0	0	clear	A. P. Knight, M. A.
Montreal, Quebec*	29.74	755.4	29.94	760.5	41	5.0	59	sw.	12	5.4		5 ck	5 ks	w.	w.	0	0	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.18	741.2	29.89	759.2	39	3.9	65	sw.	13	5.8		2 k	5 ks	w.	w.	0	0	fair	Rev. R. Mosley.
Port Dover, Ontario	29.35	745.5	30.06	763.5	41	5.0	91	sw.	10	4.5		0	0			Inap.	Inap.	clear	H. Morgan.
Port Stanley, Ontario	29.39	746.5	30.05	763.3	41	5.0	67	sw.	16	7.2		0	0			0	0	clear	M. Payne.
Quebec, Quebec*	29.60	751.8	29.93	760.2	35	1.7	79	w.			1	0	2 s		w.	0	0	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.43	747.5	29.90	759.4	33	0.6	71	e.	2	0.9		2 k	0	w.		0	0	fair	W. H. McIntyre.
Saugeen, Ontario*	29.18	741.2	29.90	759.4	42	5.6	62	sw.	18	8.0			10 ks			0	0	cloudy	
St. Andrews, N. B	29.80	756.9	29.85	758.2	39	3.9	74	nw.	7	3.1		0	0			0.36	9.7	clear	
Sydney, C. B*	29.34	745.2	29.40	746.7	39	3.9	92	sw.	25	11.2			10 n			0.84	21.3	clearing	T. C. Hill, C. E.
Toronto, Ontario*	29.63	752.6	30.02	762.5	39	3.9	73	sw.	8	3.6		0	0			0	0	clear	Magnetic Observatory.
Yarmouth, N. S*	29.83	757.7	29.89	759.2	39	3.9	89	nw.	8	3.6		0	0			0.69	17.5	clear	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.77	756.1	30.03	762.7	35	1.7	100	e.	2	0.9			10 n			0.60	15.2	snowing	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	29.90	759.4	29.93	760.2	67.0	19.4	83	sw.	12.0	5.4		0	1 k			0	0	clear	John Duthie.
Cape Town, C. G. H. Obs'y	29.82	757.4	29.86	758.4	62.0	16.7	77	n.	21	9.4		9	10			0.333	8.5		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
CHINESE (*Sub-series*).																			
Hankow	29.63	752.6	29.90	759.4	71.6	22.0	83	sse.			2		0			0	0		N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.79	756.7	29.80	757.0	58.3	14.6	86	se.	10.1	4.5		6 c	fg			0	0	very cloudy.	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.89	759.3	29.94	760.5	49.5	9.7	79	se.	25	11			1c						Oversergent Fischer.
Fanöe	29.82	757.4	29.84	757.9	55.2	12.9	66	s.			4		5						Overloerer Lauridsen.
Godthaab, Greenland	30.21	767.3	30.25	768.4	35.1	1.7	62	calm			0		0			0	0		S. Kleinschmidt.
Stykkisholm, Iceland	30.10	764.4	30.14	765.5	22.3	— 5.4	96	nw.			4		5						A. O. Thorlacius.
Thorshavn	29.53	750.1	29.57	751.0	38.8	3.8	65	ne.	16	7			8						Overloerer Bergh.
Vestervig	29.75	755.7	29.84	758.0	50.4	10.2	59	se.			4		3					raining	Loerer Oesterbol.
FRENCH.																			
Agen, Normal School	29.41	747.1	30.06	763.5	55.0	12.8	79	wnw.			1	0	2 k;n		sw.	0.370	9.4	slightly cl'dy	M. Labroue, Director.
Alençon, Normal School	29.41	747.0	29.96	761.0	52.9	11.6	65	sw.			2		kn		sw.	0.04	1.		M. Nicot, Director.
Arras, Engineer School	29.63	752.5	29.89	759.1	53.4	11.9	61	w.			4		kn		w.	0	0		M. Fénéon, Command't.
Avginon, Normal School	29.92	760.0	30.00	762.0	68.7	20.4	64	n.			1		10			0	0	covered	M. Giraud, Director.
Bar-sur-Seine	29.45	747.9	30.00	761.9	59.5	15.3	49	wsw.			1		8			0.295	7.5	very cloudy.	M. Saillard, Director.
Beauvais, Normal School	29.65	753.2	29.92	759.9	56 7	13.7	49	wsw.			3		8		wsw.	0	0	very cloudy	M. Frère Eugène Mari.
Besançon, Normal School	29.12	739.6	30.00	762.0	55.0	12.8	81	ssw.			1		10 n		sw.	0.571	14.5	raining	M. Gobin, Director.
Bordeaux, Observatory	29.75	755.7	30.01	762.3	58.8	14.9	58	wnw.			1		8			0.071	1.8	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.54	750.3	30.09	764.2	59.0	15	48	w.			2		ck	o	w.	0.150	3.8		M. Postel, Director.
Brest, Naval Observatory	29.63	752.5	29.87	758.7	55.8	13.2	68	sw.			3		5		sw.	0.374	9.5		M. de Kermaree, Dir.
Caen, Normal School	29.80	757.0	29.88	758.9	58.3	14.6	42	ssw.			2		5		ssw.	0.028	0.7	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.65	753.0	29.97	761.1	60.3	15.7	66	sw.			3		8		sw.	0	0	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.38	746.3	29.89	759.1	60.8	16	32	wnw.			2		2	e.	e.	0	0	¼ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.65	727.8	29.99	761.8	60.3	15.7	57	s.			2		8		sw.	0.717	18.2	¾ covered	M. Allnard, Director.
Cluny, Normal School	29.22	742.1	30.06	763.5	54.5	12.5	78	sw.			1		7			0.220	5.6		M. de Villemontée, Dir.
Commercy, Normal School.	29.10	739.2	29.96	761.0	58.1	14.5	58	w.			3		5 ksn			0.256	6.5	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.41	696.3	29.89	759.2	65.3	18.5	56						kn		s.	0.220	5.6		M. Jeangirard, Director.
Gréasque, du. Rhone	28.84	732.4	29.94	760.4	68.9	20.5	54	se.			2		7		se.	0.020	0.5		M. Kina, Director.
Grenoble, Normal School	29.24	742.7	30.00	762.1	58.6	14.8	80	wnw.			1		kn		s.	0	0		M. Ablard, Director.
Guéret, Normal School	28.36	720.3	29.92	759.9	55.9	13.3	53	wsw.			2		k		w.	0	0		M. Rivoire, Director.
Lamballe, Normal School	29.59	751.6	29.86	758.5	54.7	12.6	59	ssw.			1		5		ssw.	0.134	3.4	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.48	748.8	30.05	763.2	58.6	14.8	58	w.			1		10			0.283	7.2	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.82	757.5	29.93	760.1	52.7	11.5	74	sw.			4		5		sw.	0.079	2.0	¼ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.00	736.5	30.06	763.4	52.7	11.5	94	ne.			1		10		nnw.	0.114	2.9	sprinkling	M. André, Director.
Mans, Normal School	29.67	753.6	29.98	761.5	54.9	12.7	92	sw.			4		2		sw.	0	0	slightly cl'dy	M. Piboen, Director.
Marseille, Observatory	29.71	754.6	29.98	761.4	64.4	18.0	62	wsw.			1		9		wsw.	0	0		M. Stephan, Director.
Montlouis l'Instituteur	24.77	629 2	29.61	752.2	41.9	5.5	84	e.	5.6	2.5			9		se.	0.110	2.8		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.88	759.0	30.00	762.1	64.0	17.8	78	sw.			2		5			0.008	0.2	cloudy	M. Galzin, Director.
Nancy, Normal School	29.19	741.4	29.96	761.0	59.7	15.4	56	ssw.			1		k			0.925	23.5		M. Hasse, Director
Nantes, Observatory	29.83	757.6	29.99	761.8	59.5	15.3	48	wsw.			1.2		6 k;kn	wsw.	wsw.	0.035	0.9		M. Larocque, Director.
Perpignan, Observatory	29.90	759.4	30.00	762.1	62.4	16.9	59	nw.	5.6	2.5			10			0.079	2.0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.13	536.6			34.9	1.6		sw.			1		5		sw.	0.079	2.0	cloudy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.93	734.7	29.97	761.2	64.4	18	62						5					sprinkling	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.12	638.0			39.0	3.9	83	w.			3		8		sw.	0.913	23.2	¾ covered	M. Allnard, Director.
Rochefort, Naval Obs'y	29.98	761.5	30.01	762.3	59.0	15.0	100	sw.			2		8		ssw.	0	0	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.76	755.8	29.97	761.3	57.2	14	50	sw.			1		5	n.	w.	0.413	10.5	cloudy	M. Mouillot, Director.
Rodez, Normal School	27.90	708.7	30.06	763.5	50.0	10	76	se.			1		10		se.	0.311	7.9	covered	M. Serger, Director.
Rouen, Normal School	29.85	758.2	29.90	759.4	56.1	13.4	57	sw.			2		5		sw.	0	0	cloudy	M. Brotier.
Saint Maur, Observatory	29.79	756.6	29.95	760.8	59.0	15.0	40	wsw.			2		3	sw.	wsw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.35	745.6	30.08	764.0	58.6	14.8	74	nne.			1		10	w.		0.362	9.2	covered	M. Baillaud, Director.
Tours	29.80	756.9	29.97	761.3				sw.			2		5	wsw.	wsw.	0	0	cloudy	
Versailles, Observatory	29.46	748.2	29.95	760.7	60.1	15.6	38	w.			4					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.66	753.3	29.95	760.7	58.5	14.7	42	sw.			3		8		wsw.	0	0		M. Marié Davy, Director
GERMAN.																			
Bamberg	29.10	739.1	29.95	760.7	60.8	16.0	61	sw.			2	0	3 k		w.	0.08	2.		Prof. Dr. Hoh.
Berlin	29.69	754.1	29.86	758.5	57.9	14.4	76	s.			1		10			0.039	1.0	lightrain	Prof. Dr. Arndt.
Breslau	29.41	746.9	29.93	760.3	72.3	22.4	34	sse.			4		2			0	0		Royal University Obs'y.
Carlsruhe	29.53	750.0	29.96	761.0	59.7	15.4	72	sw.			2		10	sw.		0.181	4.6		Albert Senz.
Cassel	29.15	740.4	29.86	758.5	56.8	13.8	70	w.			3		8	w.		0.311	7.9		Dr. H. Möhl.
Frankfort on the Main	29.53	750.1	29.89	759.3	59.0	15.0	73	sw.			2		8			0.280	7.1		Physical Society.
Friedrichshafen	28.55	725.1	29.96	760.9	61.2	16.2	73	wsw.			2		5	w.		0.555	14.1		Wilhelm, Chief Tel.
Hamburg	29.56	750.7	29.65	753.1	46.4	8.0	93	ese.			2		10			0.217	5.5	raining	E. Preller.
Kiel	29.84	758.0	29.86	758.4	46.2	7.9	85	ne.			2		10			0.091	2.3		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.46	748.2	29.87	758.8	61.0	16.1	70	s.			2		7	sw.		0.008	0.2		H. Leppig, Asst.
Magdeburg	29.65	753.1	29.84	757.9	54.0	12.2	83	s.			1	0	5 ks		wsw.	0.094	2.4		Dr. Assmann.
Memel	30.14	765.5	30.19	766.7	60.6	15.9	31	ssw.			1		10 ks						Issermann.
Munich	28.16	715.2	30.02	762.5	61.7	16.5	56	n.			1		2	sw.		0	0		Central Station.
Neufahrwasser	30.01	762.3	30.03	762.7	64.2	17.9	40	se.			3		10			0	0		A. Lothes.
Neustadt, Palatinate	29.39	746.6	29.92	759.9	61.2	16.2	62	s.			1		9	w.		0.346	8.8		Dicknether.
Stuttgart	29.00	736.5	29.87	758.7	62.6	17.0	65	w.					9	w.		0.539	13.7		Prof. Dr. Schoder.
Wustrow	29.85	758.2	29.87	758.8	51.3	10.7	72	se.			2		10 s			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.72	754.8			76.8	24.9		ne.			2.0		2 k			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.78	756.3	29.83	757.6	84.0	28.9	72	wsw.	39.0	17.4			0			0	0	misty	
Deesa	29.24	742.8	29.70	754.3	99.6	37.6	23	wsw.	9.1	4.1			0			0	0	blue sky	
Bombay	29.79	756.6	29.82	757.5	87.1	30.6	63	wnw.	11.0	4.9			1	sw.		0	0	d. clouds	
Poona, Yarrowda.	27.93	709.4	29.72	755.0	95.4	35.2	11	wnw.	30.0	13.4			3	wnw.		0	0	d. clouds	
Bellary	28.26	717.8	29.67	753.5	101.0	38.3	17	se.	4.2	1.9			4			0	0	d. clouds	
Belgaum	27.27	692.5	29.76	756.0	83.0	28.3	64	wsw.	10.0	4.5			3	e.		0	0	misty	
Lahore	28.90	734.2	29.62	752.4	95.2	35.1	21	ne.	2.3	1.0			10		w.	0	0	threatening.	
Roorkee	28.68	728.4	29.54	750.3	97.3	36.3	7	nw.	3.5	1.6			0			0	0		
Agra	29.16	740.7	29.70	754.4	102.9	39.4	10	nw.	7.1	3.2			3		nw.	0	0		
Nagpur	28.63	727.3	29.63	752.5	103.5	39.7	13	nnw.	3.9	1.7			2	w.		0	0	d. clouds	
Jubbulpore	28.36	720.4	29.67	753.6	98.1	36.7	13	w.	2.8	1.2			3			0	0	d. clouds	
Lucknow	29.20	741.8	29.56	750.9	101.9	38.8	11	wsw.	4.8	2.2			0			0	0	blue sky	
Allahabad	29.28	743.7	29.58	751.3	101.3	38.5	10	sw.	3.3	1.5			2		sw.	0	0	d. clouds	
Patna	29.42	747.2	29.59	751.6	100.1	37.8	11	w.	5.1	2.3			5	w.	w.	0	0	d. clouds	
Hazaribagh	27.67	702.8	29.61	752.1	93.8	34.3	14	nnw.	7.7	3.4			0			0	0	blue sky	
Cuttack	29.61	752.0	29.69	754.0	89.1	31.7	45	ssw.	7.6	3.4			7			0	0		
Calcutta, Alipore	29.59	751.7	29.62	752.2	88.1	31.2	71	ssw.	15.0	6.7			0			0	0	blue sky	
Dhubri	29.40	746.8	29.52	749.8	82.4	28.0	81	ne.	11.0	4.9			0			0.66	16.8	blue sky	
Chittagong	29.63	752.7	29.72	754.9	83.7	28.7	74	s.	5.2	2.3			8			0	0	d. clouds	
Sibsagar	29.41	746.9	29.75	755.6	72.0	22.2	90	ne.	2.7	1.2			10	w.	w.	0.14	3.5	overcast	
Jeypore	28.24	717.2	29.62	752.4	98.2	36.8	16	nw.	5.4	2.4			1		nw.	0	0	blue sky	
Zanzibar, Africa	29.90	759.4			85.6	29.8	63	n.	3.5	1.6			4			0	0	d. clouds	
ITALIAN.																			
Udine	29.71	754.6	30.11	764.8	70.5	21.4	76	calm	0	0			2			0	0		Prof. Giovanni Clodig.
Milan	29.60	751.7	30.11	764 7	68.9	20.5	43	e.	3.1	1.4			3	wsw.		0	0		Prof. Schiaparelli.
Padua	29.99	761.8	30.10	764.6	68.0	20.0	43	ese.	9.8	4.4			1			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.22	742.2	30.12	765.0	58.5	14.7	61	nw.	4.3	1.9			9	ne.		0.350	8.9		Prof. P. F. Denza.
Genoa	29.90	759.5	30.10	764.4	66.7	19.3	26	sw.	3.1	1.4			2	sw.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.22	716.8	30.15	765.7	52.7	11.5	89	w.			4		10			0.004	0.1		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	30.03	762.7	30.08	763.9	64.8	18.2	66	se.	5.6	2.5			8	nnw.		0	0		Prof. Luigi Guidi.
Florence	29.83	757.6	30.08	763.9	71.2	21.8	40	w.			2		2	wsw.		0	0		Prof. Costantino Pitter.
Leghorn	29.94	760.4	30.02	762.6	68.0	20.0	43	s.	0.7	0.3			10	s.		0	0		Prof. P. Monte.
Rome	29.93	760.3	30.10	764.6	74.1	23.4	40	w.	12.5	5.6			9			0	0		Prof. P. S. Ferrari.
Lecce	29.89	759.2	30.13	765.4	73.4	23.0	36	nne.	6.3	2.8			2			0	0		Prof. C. de Giorgi.
Cosenza	29.24	742.6	30.11	764.7	70.2	21.2	77	wnw.	2.5	1.1			0			0	0		Prof. D. Conti.
Cagliari																			Prof. A. Pacinotti.
Palermo	29.85	758.3	30.10	764.6	68.4	20.2	44	ne.	4.9	2.2			3			0	0		Prof. G. Ciacciatore.
Syracuse	30.06	763.5	30.10	764.6	70.0	21.1	57	s.	13.6	6.1			2	sw.		0	0		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.61	752.0	30.12	765.0	69.1	20.6	69	e.	0.7	0.3			1			0	0		Prof. T. Brioschi.
Stelvio	22.25	565.1			38.1	3.4	52	w.			7		6			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.27	565.7			39.7	4.3	71	w.			2		10			0.315	8.0	covered	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.84	757.9	29.88	758.9	39.7	4.3	62	sw.	10.0	4.5		0	0			0	0	clear	K. Ogawa.
Hakodate	29.82	757.4	29.83	757.7	44.0	6.7	58	wnw.	10.4	4.6			0			0.185	4.7	clear	
Hiroshima, I. M. Obs'y †	29.91	759.7	29.92	759.9	54.4	12.4	67	nne.	3.2	1.4		0	0			0	0	clear	J. Sogawa.
Kanazawa	29.86	758.4	29.96	761.0	51.4	10.8	82	se.	1.8	0.8		2 cs	0			0	0	fair	S. Endo.
Kioto	29.78	756.4	29.96	761.0	52.1	11.2	78	n.	1.5	0.7			0			0	0	clear	M. Tojima.
Kochi	30.00	762.0	30.02	762.5	59.8	15.4	75	ne.	5.1	2.3			0			0	0	clear	K. Kusunose.
Nagasaki, I. M. Obs'y	29.78	756.4	29.98	761.5	57.5	14.2	89	calm	0	0		1 c	0			0	0	clear	S. Takehayashi.
Niigata	29.93	760.2	29.96	761.0	45.5	7.5	79	e.	3.6	1.6		0	0			0	0	clear	M. Morita.
Nobiru	29.88	758.9	29.90	759.4	47.6	8.7	49	nnw.	13.0	5.8		0	0			0	0	clear	H. Midzushima.
Supporo					44.0	6.7	60	calm	0	0			3			0.100	2.5	clear	
Tokei Obs'y, Yeddo	29.82	757.4	29.89	759.2	54.9	12.7	79	ssw.	3.5	1.6		0	0			0	0	clear	The Staff.
Wakayama	29.90	759.4	29.96	761.0	59.8	15.4	63	ssw.	2.4	1.1		0	0			0	0	clear	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.82	757.4	30.01	762.2	78.0	25.6	59	e.	12.	5.4		0	2 k			0	0	clear	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.74	603.1	29.96	761.1	59.7	15.4	73	ese.				0	0			0.035	0.9	clear	Prof. Vicente Fernandez.
Leon	24.35	618.5	30.01	762.2	59.0	15.0	71	sw.			1	6 c	0	nw.		0	0	dense fog	Prof. M. Leal.
Mazatlan	29.71	754.6	29.97	761.2	70.0	21.1	94	ene.	1.6	0 8		3 cs	3 ks	sw.				hazy	F. Quijano, C. E.
Mexico, Central Obs'y	23.18	588.9	30.23	767.9	53.2	11.8	77	calm	0	0		0	9 k			0.051	1.3	cloudy	The Staff.
Morelia	24.31	617.5	30.38	771.8	63.5	17.5	77	se.			3	2	2	s.	se.	0	0	½ clouded	M. Tena, M. D.
Pabellon, Aguascalientes	24.04	610.5	30.03	762.7	55.4	13.0	81	w.			1	2 cs	0	ssw.		0.080	2.1	clear	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.43	595 0	30.16	766.0	53.6	12.0	85	calm	0	0		0	0			0.037	9.3	clear	Prof. P. Spina.
San Luis Potosi	24.27	616.3	30.27	768.9	63.0	17.2	69	e.			1	3	6	w.	w.	0.059	1.5	cloudy	G. Barroeta, M. D.
Zacatecas	22.60	574.1	30.20	767.2	53.7	12.1	64	e.	7.7	3.4		8 ck	0	nw.		inap.	inap.	cloudy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.83	757.6	29.83	757.6	54.3	12.4		wsw.			3					0	0		
Groningen	29.74	755.5	29.80	756.9	56.1	13.4		wsw.			3					0	0		
Helder	29.79	756.6	29.79	756.6	52.5	11.4		ssw.			1					0	0		
Hellevoetsluis	29.80	757.0	29.80	757.0	53.6	12.0	75	ssw.			3					0	0		
Utrecht	29.78	756.4	29.83	757.6	57.7	14.3	45	ssw.			3		8			0.110	2.8	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.62	752.4	29.69	754.0	43.2	6.2	73	sse.	27	12			10					raining	
Brono	29.37	746.0	29.41	747.0	46.8	8.2	74	sw.	27	12			10			0	0		
Christiania	29.67	753.7	29.82	757.4	51.4	10.8	71	ssw.	22	10			8			0	0		
Gjesvær	29.39	746.5	29.41	747.1	48.6	9.2		s.			8		0						
Lodingen	29.22	742.2	29.27	743.4	42.1	5.6	83	wsw.			4		10			0.689	17.5	raining	
PORTUGUESE.																			
Angra, Azores					62.2	16.8	78	w.	14.3	6.4			6			0	0		Dr. J. A. Sampaio.
Campo Major	29.00	736.5	29.98	761.6	63.5	17.5	30	n.	8.7	3.9			8			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.13	765.3	30.22	767.5	64.4	18.0	53	e.					9			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.74	755.5	30.11	764.7	59.7	15.4	39	nw.	14.3	6.4			3			0	0		The Staff.
Ponta Delgada, Azores	30.16	766.0	30.23	767.8	63.7	17.6	65	wnw.	13.0	5.8			3			0	0		
Saint Paul de Loando	29.71	754.6	29.91	759.7	83.8	28.8	82	w.	0.7	0.3			3	sse.		0	0		
Serra da Estrella	25.21	640.2	30.03	762.7	38.5	3.6	83	nw.	15.0	6.7			3			0	0		
RUSSIAN.																			
Akmolinski	28.54	724.8	29.60	751.9	50.0	10.0	69	sw.	18	8			9 n			0.039	1.0		Major K. Lasarew.
Archangel	30.01	762.3	30.03	762.8	51.3	10.7	53	sse	13	6		0	0			0	0		Capt. Seeliwerstow.
Astrakhan	29.94	760.4	29.85	758.3	63.7	17.6	49	ese.	11	5			10 s			0	0		Capt. Wisganow.
Barnaul	29.35	745.5	29.84	758.0	56.3	13.5	32	ne.	13	6			9			0	0		Meteorological Obs'y.
Dorpat	29.96	760.9	30.20	767.1	56.8	13.8	38	sw.	11	5		1 c	0			0	0		Observatory.
Ekaterinburg	28.91	734.4	29.87	758.8	49.8	9.9	50	nne.	18	8		ck	9 n			0.106	2.7		Meteorological Obs'y.
Kasan	29.73	755.2	30.00	761.9	63.1	17.3	39	ne.	4	2		0	2			0	0		Observatory.
Kertch	29.83	757.7	29.85	758.2	61.0	16.1	71	nne.	13	6			10 n			0	0		Lagorio & Sastyrez.
Kieff	29.35	745.5	29.96	760.9	74.3	23.5	34	n.	7	3		ck	7 ks			0	0		Observatory.
Lugan	29.05	753.1	29.85	758.2	67.8	19.9	41	nne.	22	10			6			0	0		Meteorological Obs'y
Moscow	29.51	749.6	29.97	761.3	63.5	17.5	34	calm	0	0			0						Meteorological Obs'y.
Nikolaiev	29.91	759.7	29.98	761.5	77.4	25.2	29	ne.	31	14		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor.	29.60	751.8	29.69	754.0	33.1	0.6	94	ne.	4	2			10			0.071	1.8	snowing	Lieut. Iwanow.
Pekin, China	29.47	748.6	29.61	752.2	71.8	22.1	36	se.	13	6		0	3 k			0	0		Physical Observatory
St. Petersburg	30.13	765.3	30.15	765.7	55.0	12.8	38	nw.	13	6		1 cs	0			0	0		Central Physical Obs'y.
Semipalatinsk	29.12	739.7	29.76	755.9	63.9	17.7	49	wnw.	22	10			10 s			0	0	heavy clouds	Major Lasareu.
Tashkend, Laboratory	28.51	724.1	30.03	762.8	71.2	21.8	46	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.37	720.5	29.73	755.1	71.1	21.7	57	calm	0	0			10 n			inap.	inap.		Physical Observatory
Vladivostock	29.75	755.6	29.82	757.3	40.6	4.8	71	calm	0	0		0	0			0	0		
Warsaw	29.66	753.3	30.07	763.8	68.0	20.0	41	se.	16	7			9 ks						Astronomical Obs'y.
Wilna	29.75	755.7	30.17	766.2	64.2	17.9	44	e.	2	1			3			0	0		Berg, Assistant.
Yeniseisk	29.97	761.3	30.27	768.8	38.1	3.4	44	ene.	4	2			0			0	0		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.83	757.7	29.93	760.3	66.2	19.	69	e.	2.7	1.2			9			0.008	0.2	almost cov'd	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.00	762.0	30.06	763.5	65.8	18.8	50	nw.	1.3	0.6		2	4	ne.		0.028	0.7	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.03	686.6	30.00	762.0	53.2	11.8	45	sw.	5.4	2.4			1			0	0	almost clear	Domingo Martin.
Madrid, Royal Obs'y	27.70	703.6	29.86	758.4	70.3	21.3	33	ne.	4.7	2.1		0	8			0	0	almost cov'd	The Staff.
Murcia, Met. Obs'y	29.74	755 3	29.88	759.0	73.4	23.0	64	sw.	1.3	0.6		5	5	ne.		0.161	4.1	raining	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.08	738.7	29.99	761.7	53.8	12.1	64	sw.	3.1	1.4			8			0.016	0.4	almost cov'd	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	30.01	762.2	30.07	763.8	76.5	24.7	80	nne.	2.2	1.0		0	0			0.071	1.8	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.83	757.6	29.89	759.1	85.6	29.8	61	se.	4.4	2.0		0	k			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.89	758.2	29.99	761.8	61.3	16.3	54	nw.	3.1	1.4			10		w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.01	762.2	30.10	764.5	79.5	26.4	84	e.	11.2	5.0		5 s	5 kn	e.	e.	0.008	0.2	cloudy	Manuel Maese.
Tuguegarao, Philippine Id's	29.78	756.4	29.91	759.7	80.2	26.8	79	se.	2.2	1.0		0	8 k		se.	0	0	covered	José L. Yrastorza.
SWEDISH																			
Haparanda	29.66	753.3	29.70	754.3	39.6	4.2	84	s.			4		10			0	0		
Umea	29.57	751.1	29.62	752.4	42.4	5.8	91	sw.			6		10			0.035	0.9		
Hernosand	29.58	751.4	29.63	752.7	50.4	10.2	60	wsw.			7		8			0.165	4.2		
Stockholm	29.82	757.3	29.99	761.8	54.5	12.5	44	sw.			6		2			0	0		
Wisby	29.95	760.8	30.01	762.3	54.7	12.6	42	sw.			6		5			0.008	0.2		
Sub-series.																			
Unsala	29.84	757.9	29.93	760.1	53.6	12.0	49	sw.	20.4	9.1			8		w.	0.488	12.4		S. G. Fineman.
SWISS.																			
Geneva	28.62	726.9	30.05	763.2	53.8	12.1	83	ssw.			2					0.150	3.8	raining	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Turkish.																			
Constantinople			29.96	760.9	61.9	16.6	67	n.	14	6.5			10		n.	0.335	8.5		The Observatory.
Valona			30.20	767.1	67.8	18.3		nw.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.92	760.0	64.9	15.6	79	sw.			2		9 n		sw.	0.36	9.1		Prof. C. V. A. van Dyck.
United States.																			
Albany, New York	29.98	761.5	30.06	763.5	51.5	10.8	56	s.	5	2.2			10 ks		w.	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.24	742.7	29.90	759.4	34	1.1	79	nw.	16	7.2			10 s		w.	0	0	cloudy	Jas. J. Fitzgerald.
Atlanta, Georgia	29.03	737.3	30.20	767.1	49.5	9.7	53	n.	7	3.1		8 c	0	nw.		0	0	cloudy	H. Hall.
Atlantic City, New Jersey	30.10	764.5	30.11	764.8	51.2	10.7	90	sw.	8	3.6		5 ck	0	sw.		0.06	1.5	fair	Jas. M. Watson.
Augusta, Georgia	30.03	762.7	30.22	767.6	59	15.0	87	ne.	3	1.3			10 s			0	0	cloudy	John Healy.
Baltimore, Maryland	30.10	764.5	30.15	765.8	53	11.7	55	calm	0	0		5 ck	sk.	w.		0	0	fair	Robert Seyboth.
Barnegat, New Jersey	30.09	764.3	30.11	764.8	51.2	10.7	72	w.	8	3.6		0	4 k		w	0.02	0.5	fair	Chas. F. Merritt.
Bismarck, Dakota	28.37	720.6	30.15	765.8	29	— 1.7	80	nw.	6	2.7		0	c			0	0	clear	Cyrus Cramer.
Boise City, Idaho	27.02	686.3	29.86	758.4	47	8.3	71	nw.	4	1.8		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.88	758.9	30.04	763.0	45.0	7.2	60	w.	9	4.0		0	hz.			0	0	clear	O. B. Cole.
Brownsville, Texas	30.01	762.2	30.05	763.3	71	21.7	94	calm	0	0		7 cs	3 k		nw.	0.39	9.9	cloudy	M. McCarty.
Buffalo, New York	29.30	744.2	30.04	763.0	43	6.1	74	sw.	15	6.7		1 ck	hz.	sw.		0	0	clear	Wm. Finn.
Burlington, Vermont	29.68	753.9	29.97	761.2	46.3	7.9	60	s.	5	2.2		1 ck	9 s	w.	w.	inap.	inap.	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.87	758.7	30.27	768.8	50.7	10.4	75	s.	1	0.4		0	0			0	0	clear	W. H. Ray.
Campo, California	27.32	693.9	29.85	758.2	42	5.6	76	s.	1	0.4		5 c	3 s			0	0	cloudy	W. H. Clendenon.
Camp Thomas, Arizona	27.17	690.1	29.84	757.9	59	15.0	60	calm			0	2 ck	0			0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.17	766.3	30.19	766.8	54	12.2	86	sw.	10	4.5		0	0			0	0	clear	J. E. Lanouette.
Cape May, New Jersey	30.10	764.5	30.13	765.3	51	10.6	86	sw.	12	5.4		2 k	0	w.		inap.	inap.	clear	W. Bolten.
Cedar Keys, Florida	30.13	765.3	30.15	765.8	64	17.8	63	ne.	6	2.7			10 s		ne.	0	0	cloudy	F. W. Mixer.
Champaign, Illinois	29.30	744.2	30.10	764.5	45.5	7.5	64	sw.	11	4.9		5 ck	0	w.		0	0	fair	L. A. Welsh.
Charleston, S. Carolina	30.14	765.5	30.19	766.8	61	16.1	87	ne.	5	2.2		5 ck	0	w.		0.06	1.5	fair	J. H. Smith.
Charlotte, N. Carolina	29.32	744.7	30.16	766.1	55.0	12.8	55	w.	2	0.9		5 c	0	w.		0.04	1.0	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.43	747.5	30.24	768.1	50.0	10.0	71	nw.	1	0.4		1 cs	0	w.		0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.13	612.9	30.00	762.0	37.8	3.2	49	sw	1	0.4		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.30	744.2	30.00	762.0	46.3	7.9	57	sw.	11	4.9		10 k	0	w.		0	0	cloudy	J. Mitchell.
Chincoteague, Virginia	30.14	765.5	30.16	766.1	54	12.2	100	s.	7	3.1		0	fg.			0	0	clear	V. P. Temple.
Cincinnati, Ohio	29.56	750.8	30.21	767.3	43.5	6.4	73	se.	3	1.3		0	0			0	0	clear	R. B. Watkins.
Cleveland, Ohio	29.38	746.2	30.11	764.8	41.3	5.2	52	sw.	15	6.7		0	0			0.01	0.3	clear	J. B. Newlin.
Coleman City, Texas	28.34	719.8	30.13	765.3	58	14.4	64	se.	8	3.6			10 s		s.	0	0	cloudy	L. Dorman.
Columbus, Ohio	29.31	744.5	30.15	765.8	40	4.4	65	sw.	4	1.8		0	0			0	0	clear	D. Cuthbertson.
Concho, Texas	28.16	715.3	30.06	763.5	58	14.4	84	s.	8	3.6		0	4 s		s.	inap.	inap.	fair	W. W. McConihe.
Davenport, Iowa	29.38	746.2	30.02	762.5	52	11.1	59	sw.	17	7.6		7 k	0	sw.		0	0	fair	R. R. Martin.
Dayton, Washington T'y	28.06	712.7	29.82	757.4	43.7	6.5	84	ne.	2	0.9		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25 50	647.7	30.01	762.2	32	0.0	85	sw.	2	0.9		0	0			0	0	clear	G. W. Scott.
Decatur, Texas					63	17.2	52	se.	10	4.5		0	6 s			0	0	fair	D. J. Carr.
Delaware Breakwater, Del.	30.13	765.3	30.15	765.8	48	8.9	100	s'w.	12	5.4		4 ck	fg.	w.		0	0	fair	A. Schneider.
Denison, Texas																			J. McGlone.
Denver, Colorado	24.80	629.9	29.96	761.0	39.5	4.2	47	nw.	8	3.6		2 ck	0	w.		0	0	clear	F. M. Neal.
Des Moines, Iowa	29.20	741.7	30.09	764.3	45	7.2	76	ne.	7	3.1		5 ck	0	w.		0	0	fair	F. W. Conrad.
Detroit, Michigan	29.34	745.2	30.04	763.0	46.5	8.1	63	sw.	14	6.3		10 k	0	sw.		inap.	inap.	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.48	698.0	30.03	762.7	47	8.3	71	se.	6	2.7		0	7 s			0	0	fair	E. A. Thomas.
Dubuque, Iowa	29.29	744.0	29.99	761.7	48.2	9.0	63	w.	6	2.7		9 k	0	nw.		0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.39	746.5	30.09	764.3	28	— 2.2	64	w.	9	4.0		0	0			0.03	0.8	clear	N. B. Conger.
Eagle Pass, Texas	29.36	745.7	30.16	766.1	64.0	17.8	90	s.	3	1.3			10 s		s.	0.01	0.3	cloudy	F. Belford.
Eagle Rock, Idaho	25.31	642.9	29.99	761.7	34	1.1	74	n.	6	2.7		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.80	756.9	29.87	758.7	42.5	5.8	70	w.	7	3.1		0	0			0.41	10.4	clear	J. H. Melton.
El Paso, Texas	26.28	667.5	29.92	760.0	56	13.3	80	ne.	5	2.2		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.36	745.7	30.08	764.0	43	6.1	68	sw.	8	3.6		0	0			0	0	clear	R. H. Paxton.
Escanaba, Michigan	29.26	743.2	29.92	760.0	37	2.8	89	calm	0	0			10 s		w.	inap	inap.	cloudy	C. Dill.
Fort Apache, Arizona	25.00	635.0	29.82	757.4	39	3.9	59	e.	1	0.4		0	0			0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.31	693.7	30.15	765.8	30	— 1.1	71	n.	2	0.9		0	0			0	0	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.74	730.0	30.30	769.6	36	2.2	82	calm	0	0		0	0			0	0	clear	A. Pritchard.
Fort Benton, Montana	27.36	694.9	30.15	765.8	31	— 0.6	62	calm	0	0		0	0			0	0	clear	G. W. Davis.
Fort Buford, Dakota	28.22	716.8	30.20	767.1	25	— 3.9	64	calm	0	0		0	0			0	0	clear	A. H. Bell.
Fort Custer, Montana	27.00	685.8	30.10	764.5	33	0.6	71	e.	4	1.8		0	2 s		calm	0	0	clear	V. Verge.
Fort Davis, Texas	25.20	640.1	29.92	760.0	53	11.7	83	s.	4	1.8			10 ks		s.	0	0	cloudy	J. Williams.
Fort Elliott, Texas	27.31	693.7	30.01	762.2	45	7.2	63	se.	3	1.3		0	0			0	0	clear	W. J. Cundall.
Fort Gibson, Indian T'y	29.61	752.1	30.17	766.3	45.3	7.4	83	calm	0	0		6 cs	0	w.		0	0	fair	J. B. Campbell.
Fort Grant, Arizona	25.23	640.8	29.84	757.9	59.9	15.5	30	e.	7	3.1		3 c	0			0	0	clear	T. J. Macgowan.
Fort Keogh, Montana	27.68	703.1	30.13	765.3	30	— 1.1	59	sw.	5	2.2		0	0			0	0	clear	W. B. Stockman.
Fort Macon, North Carolina	30.21	767.3	30.22	767.6	58	14.4	87	e.	4	1.8		9 cs	hz.	calm	calm	0	0	cloudy	L. Leonardy.
Fort McKavett, Texas	27.88	708.1	30.12	765.0	61	16.1	72	s.	3	1.3			10 s			0	0	cloudy	J. E. Thatcher.
Fort Missoula, Montana	26.72	678.7	30.02	762.5	36	2.2	72	w.	3	1.3		0	0			0	0	clear	J. H. Jones.
Fort St. Michaels, Alaska	30.18	766.6	30.22	767.6	25	— 3.9	87	n.	3	1.3		0	0			0	0	clear	A. P. Leavitt.
Fort Shaw, Montana	26.48	672.6	30.08	764.0	23	— 5.0	64	w.	6	2.7		0	0			0	0	clear	A. L. Mathews.
Fort Sill, Indian Territory	28.92	734.6	30.14	765.5	51.5	10.8	81	calm	0	0		0	0			0	0	clear	T. Cleary.
Fort Stevenson, Dakota	28.32	719.3	30.15	765.8	30	— 1.1	80	w.	3	1.3		0	0			0	0	clear	W. Burrows
Fort Verde, Arizona					55.2	12.9	53	s.			1	4 k	0	w.		0	0	fair	D. Brooks.
Fort Washakie, Wyoming	24.54	623.3			29.4	— 1.4	76	w.	4	1.8		0	0			0	0	clear	T. M. Ambler.
Fredericksburg, Texas	28.42	721.9	30.14	765.5	58	14.4	83	se.	1	0.4			10 s			0	0	cloudy	H. S. Miles.
Galveston, Texas	30.15	765.8	30.19	766.8	65	18.3	78	ne.	9	4.0		5 c	0	sw.		0	0	fair	E. O'C. MacInernev.
Grand Haven, Michigan	29.29	744.0	29.95	760.7	45.0	7.2	68	sw.	20	8.9		3 k	7 s	sw.	sw.	0	0	cloudy	W. A. Reid.
Hatteras, North Carolina	30.20	767.1	30.22	767.6	57	13.9	80	n.	5	2.2		hz.	0			0	0	clear	R. M. Crawford.
Helena, Montana	25.87	657.1	30.04	763.0	33	0.6	62	w.	4	1.8		0	0			0	0	clear	S. Wheaton.
Henrietta, Texas	29.18	741.2	30.16	766.1	58.0	14.4	69	se.	8	3.6			10 s			0	0	cloudy	J. W. Byram.
Huron, Dakota	28.80	731.5	30.15	765.8	31.3	— 0.4	78	nw.	5	2.2		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.36	745.7	30.15	765.8	45	7.2	63	sw.	6	2.7		0	hz.		calm	0	0	clear	O. Schutze
Indianola, Texas	30.12	765.0	30.15	765.8	67.0	19.4	84	ne.	21	9.4		8 ck	2 ks	w.	w.	0.01	0.3	cloudy	I. A. Reed.
Jacksboro, Texas	29.00	736.6	30.15	765.8	58	14.4	87	se.	7	3.1			10 s		se.	0	0	cloudy	J. P. Sherry.
Jacksonville, Florida	30.10	764.5	30.14	765.5	68	20.0	84	calm	0	0			10 s			0	0	cloudy	J. W. Smith.
Keokuk, Iowa	29.43	747.5	30.08	764.0	52.0	11.1	69	w.	10	4.5		9 k	0	w.		0	0	cloudy	F. Z. Gosewisch.
Key West, Florida	30.07	763.8	30.09	764.3	79.2	26.2	65	calm	0	0		0	2 k;ks			0	0	clear	L. M. Melbourne.
Kittyhawk, North Carolina	30.22	767.6	30.24	768.1	54	12.2	93	sw.	9	4.0		1 c	3 k			inap.	inap.	fair	E. A. Beals.
Knoxville, Tennessee	29.23	742.4	30.25	768.3	47	8.3	72	calm	0	0		0	sk.			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.26	743.2	30.02	762.5	40	4.4	40	nw.	22	9.8		0	0			0	0	clear	S. C. Emery.
La Mesilla, New Mexico	26.13	663.7	29.89	759.2	50.5	10.3	57	calm	0	0		0	1 s			0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.26	743.2	30.14	765.5	53	11.7	80	s.	4	1.8		2 k	3 s	sw.	s.	0.10	2.5	fair	A. W. Browne.
Lewiston, Idaho	29.03	737.3	29.87	758.7	45	7.2	63	calm	0	0		0	0			0	0	clear	J. M. Burlew.
Little Rock, Arkansas	29.92	760.0	30.23	767.8	55	12.8	80	n.	1	0.4		3 c	2 s	calm	calm	0	0	fair	W. U. Simmons.
Los Angeles, California	29.53	750.0	29.93	760.2	53.1	11.7	100	calm	0	0			fg.		calm	0	0	dense fog	E. F. Kubel.
Louisville, Kentucky	29.65	753.1	30.20	767.1	46	7.8	76	sw.	5	2.2		0	sk.			0	0	clear	H. C. Smyth.
Lynchburg, Virginia	29.50	749.3	30.18	766.6	49.0	9.4	71	calm	0	0		0	fg.			0	0	clear	W. R. Bushby.
Madison, Wisconsin	28.96	735.6	29.96	761.0	47	8.3	68	w.	9	4.0		4 ck	5 s	w.	w.	0	0	cloudy	C. A. Shaw.
Marquette, Michigan	29.21	741.9	29.93	760.2	33	0.6	88	ne.	8	3.6			10 n		nw.	0.09	2.3	light snow	J. Gilligan.
Memphis, Tennessee	29.91	759.7	30.24	768.1	52	11.1	72	ne.	1	0.4		0	1 s		nw.	0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.20	741.7	29.94	760.5	47	8.3	63	sw.	12	5.4		1 ck	9 s		sw.	inap.	inap.	cloudy	W. Line.
Mobile, Alabama	30.18	766.6	30.22	767.6	54	12.2	80	n.	4	1.8		0	0			0	0	clear	J. D. Paxton.
Montgomery, Alabama	30.00	762.0	30.23	767.8	53.3	11.8	85	n.	1	0.4		1 cs	0	w.		0	0	clear	J. B. McLaughlin.

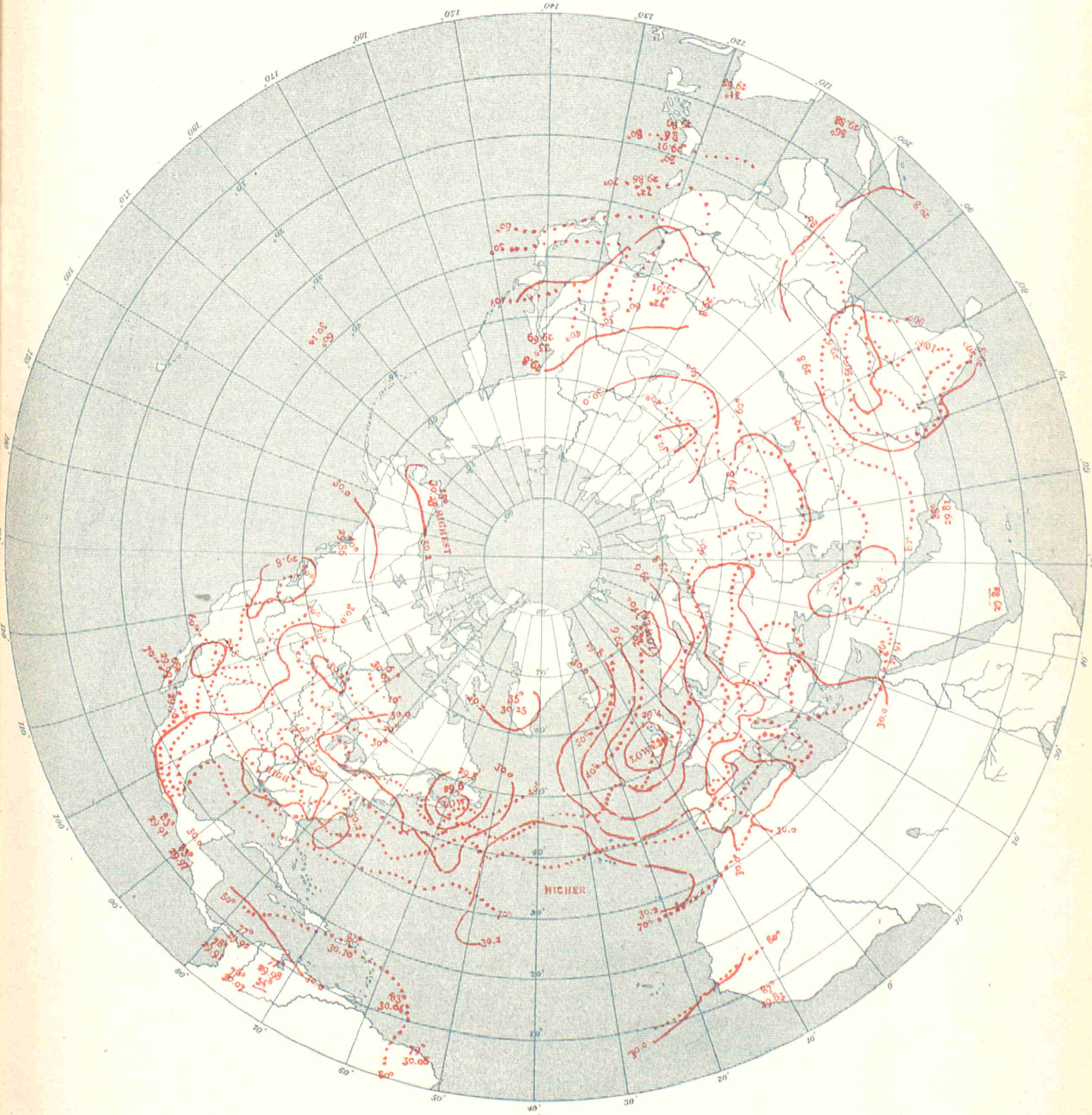
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Moorhead, Minnesota	29.20	741.7	30.18	766.6	28	− 2.2	77	n.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	H. Bessant.
Morgantown, W. Virginia	29.16	740.7	30.17	766.3	52.0	11.1	52	sw.	3	1.3	.....	hz.	1 k	.....	.....	0	0	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.50	596.9	29.68	753.9	17.0	− 8.3	89	nw.	76	34.0	.....	.....	fg.	.....	nw.	0.08	2.0	light fog	J. G. Linsley.
Nashville, Tennessee	29.71	754.6	30.24	768.1	46.5	8.1	72	calm	0	0	.....	0	0	.....	.....	0	0	clear	L. A. Jesunofsky.
New Haven, Connecticut	29.96	761.0	30.08	764.0	47	8.3	48	w.	2	0.9	.....	0	sk.	.....	.....	0	0	clear	J. H. Sherman.
New London, Connecticut	30.03	762.7	30.08	764.0	52	11.1	72	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.15	765.8	30.20	767.1	61.0	16.1	50	ne.	9	4.0	.....	0	hz.	.....	.....	0	0	clear	L. Dunne.
Newport, Rhode Island	30.01	762.2	30.06	763.5	49.2	9.6	60	sw.	2	0.9	.....	0	0	.....	.....	0.02	0.5	clear	W. McGillivray.
New River, N. Carolina	.....	.....	.....	.....	53	11.7	94	ne.	.....	.....	1	4 cs	3 s	.....	.....	0	0	fair	C. C. Corbin.
New Shoreham, Rhode I'd.	30.05	763.3	30.08	764.0	49.0	9.4	63	w.	7	3.1	.....	0	hz.	.....	.....	0.02	0.5	clear	W. Davis.
New York, New York	29.92	760.0	30.10	764.5	49	9.4	63	sw.	2	0.9	.....	4 cs	0	w.	.....	inap.	inap.	fair	E. B. Garriott.
Norfolk, Virginia	30.16	766.1	30.19	766.8	56	13.3	86	sw.	4	1.8	.....	1 ck	hz.	w.	.....	0	0	clear	J. T. Elker.
North Platte, Nebraska	27.22	691.4	30.09	764.3	35.6	2.0	79	n.	4	1.8	.....	0	1 s	.....	.....	inap.	inap.	clear	E. F. Brady.
Olympia, Washington T'y	29.71	754.6	29.75	755.6	45.0	7.2	83	ne.	2	0.9	.....	5 ck	0	s.	.....	0	0	fair	J. Dascomb.
Omaha, Nebraska	28.96	735.6	30.12	765.0	46.1	7.8	66	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	A. Pollak.
Ogdaamie, Pt. Barrow, Alas.	30.26	768.6	30.28	769.1	15.0	− 9.4	98	sw.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	P. H. Ray.
Oswego, New York	29.70	754.4	30.03	762.7	43.5	6.4	72	w.	12	5.4	.....	0	0	.....	.....	0	0	clear	S. W. Beall.
Palestine, Texas	29.69	754.1	30.24	768.1	57.0	13.9	74	ne.	4	1.8	.....	.....	10 ks	.....	.....	0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.17	766.3	30.20	767.1	56.3	13.5	62	n.	6	2.7	.....	1 cs	0	.....	.....	0	0	clear	M. McGauran.
Philadelphia, Pa.	30.02	762.5	30.12	765.0	51	10.6	66	nw.	4	1.8	.....	4 ck	2 k	nw.	w.	0	0	fair	T. F. Townsend.
Pike's Peak, Colorado	17.75	450.8	29.81	757.2	16	− 8.9	87	sw.	12	5.4	.....	0	hz.	.....	.....	0.01	0.3	clear	L. M. Dey.
Pioche, Nevada	23.93	607.8	29.85	758.2	50	10.0	34	calm	0	0	.....	10 cs	0	calm	.....	0	0	cloudy	C. N. Kitchel.
Pittsburg, Pennsylvania	29.33	745.0	30.13	765.3	45.2	7.3	68	sw.	8	3.6	.....	0	0	.....	.....	inap.	inap.	clear	J. H. Bryce.
Poplar River, Montana	28.06	712.7	.....	.....	.....	.....	.....	s.	.....	.....	4	0	0	.....	.....	0	0	clear	U. D. Maxwell.
Port Eads, Louisiana	30.19	766.8	30.20	767.1	66.2	19.0	60	ne.	18	8.0	.....	3 ck	0	w.	.....	0	0	clear	H. G. Christian.
Port Huron, Michigan	29.31	744.5	29.99	761.7	38.4	3.6	70	sw.	14	6.3	.....	.....	10 s	.....	.....	inap.	inap.	threatening	W. O. Bailey.
Portland, Maine	29.92	760.0	29.98	761.5	47.0	8.3	56	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear	D. C. Murphy.
Portland, Oregon	29.68	753.9	29.75	755.6	54	12.2	24	se.	6	2.7	.....	8 c	0	ne.	.....	0	0	cloudy	M. L. Hearne.
Portsmouth, N. Carolina	.....	.....	.....	.....	60	15.6	70	n.	4	1.8	.....	10 c	hz.	calm	calm	0	0	cloudy	F. P. Chaffee.
Prescott, Arizona	24.70	627.4	29.80	756.9	48	8.9	28	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. McN. Wright.
Provincetown, Mass.	30.00	762.0	30.03	762.7	46	7.8	76	w.	8	3.6	.....	0	1 s	.....	.....	0.09	2.3	clear	P. T. Jenkins.
Punta Rassa, Florida	30.06	763.5	30.07	763.8	71	21.7	83	ne.	7	3.1	.....	7 ck	0	sw.	.....	0	0	fair	W. J. Evans.
Red Bluff, California	29.44	747.8	29.81	757.2	54.0	12.2	72	se.	5	2.2	.....	0	9 s	.....	s.	0	0	cloudy	J. M. Frantz.
Rio Grande City, Texas	29.87	758.7	30.11	764.8	69	20.6	93	ne.	3	1.3	.....	.....	10 s	.....	calm	0.06	1.5	cloudy	P. M. Wilson.
Rochester, New York	29.36	745.7	30.02	762.5	43	6.1	60	w.	12	5.4	.....	0	sk.	.....	.....	0	0	clear	F. Gillam.
Roseburg, Oregon	29.24	742.7	29.79	756.7	53.5	11.9	66	se.	2	0.9	.....	0	9 ks	.....	sw.	0	0	cloudy	J. J. Nanry.
Sacramento, California	29.76	755.9	29.84	757.9	52.4	11.3	72	se.	9	4.0	.....	.....	9 s	.....	.....	0	0	cloudy	J. A. Barwick.
St. Louis, Missouri	29.60	751.8	30.18	766.6	48.0	8.9	86	s.	12	5.4	.....	1 k	8s; fg	.....	.....	0	0	cloudy	J. H. Webber.
St. Paul, Minnesota	29.22	742.2	30.07	763.8	36.0	2.2	46	w.	12	5.4	.....	0	0	.....	.....	inap.	inap.	clear	P. F. Lyons.
St. Vincent, Minnesota	29.31	744.5	30.17	766.3	28	− 2.2	88	nw.	8	3.6	.....	3 ck	2 s	nw.	nw.	0	0	fair	G. Kingsbury.
Salt Lake City, Utah	25.54	648.7	29.86	758.4	48	8.9	46	calm	0	0	.....	6 c; k	0	w.	.....	0	0	fair	J. Craig.
San Antonio, Texas	29.45	748.0	30.15	765.8	60.4	15.8	75	ne.	4	1.8	.....	.....	10 s	.....	s.	0	0	cloudy	E. Lane.
San Diego, California	29.81	757.2	29.88	758.9	58.2	14.6	81	se.	7	3.1	.....	.....	fg.	.....	.....	0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.42	747.3	30.08	764.0	42.8	6.0	68	sw.	15	6.7	.....	0	0	.....	.....	0	0	clear	M. H. Perry.
Sandy Hook, New Jersey	30.06	763.5	30.10	764.5	51.0	10.6	72	sw.	6	2.7	.....	5 k	0	nw.	.....	0	0	fair	B. A. Blundon.
San Francisco, California	29.85	758.2	29.92	760.0	53	11.7	93	w.	3	1.3	.....	.....	10 n	.....	sw.	0.01	0.3	light rain	N. Gorom.
Santa Fé, New Mexico	23.24	590.3	29.86	758.4	45	7.2	56	e.	3	1.3	.....	0	0	.....	.....	inap.	inap.	clear	H. U. Jones.
Savannah, Georgia	30.11	764.8	30.20	767.1	62	16.7	84	n.	4	1.8	.....	4 cs	0	sw.	.....	0	0	fair	H. W. Ford.
Shreveport, Louisiana	30.00	762.0	30.24	768.1	56	13.3	86	n.	2	0.9	.....	2 cs	6 s	.....	.....	0	0	cloudy	E. N. Meekins.
Silver City, New Mexico	24.28	616.7	29.83	757.7	44	6.7	51	s.	3	1.3	.....	0	4 ks	.....	s.	0.07	1.8	fair	J. B. Wallace.
Sitka, Alaska	29.80	756.9	29.86	758.4	40.2	4.6	68	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. J. McLean.
Smithville, North Carolina	30.17	766.3	30.21	767.3	54	12.2	93	n.	5	2.2	.....	5 c	0	w.	.....	0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.89	708.4	29.94	760.5	46	7.8	50	e.	6	2.7	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.46	748.3	30.13	765.3	51	10.6	59	sw.	8	3.6	.....	.....	9 s	.....	w.	0	0	cloudy	T. B. Jennings.
Springfield, Massachusetts	29.94	760.5	30.07	763.8	49.3	9.6	56	s.	2	0.9	.....	1 k	0	sw.	.....	0	0	clear	T. S. Outram.
Springfield, Mo.	28.76	730.5	30.24	768.1	46	7.8	60	s.	5	2.2	.....	1 c	4 s	w.	.....	0	0	fair	J. B. Marbury.
Stockton, Texas	27.05	687.1	30.06	763.5	52.0	11.1	93	se.	12	5.4	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Thatcher's Island, Mass.	29.94	760.5	29.99	761.7	46.5	8.1	68	w.	9	4.0	.....	5 k	hz.	w.	.....	0	0	fair	F. R. Day.
Toledo, Ohio	29.39	746.5	30.07	763.8	44	6.7	51	sw.	15	6.7	.....	3 ck	0	w.	.....	0	0	clear	A. Buell.
Tucson, Arizona	27.45	697.2	29.79	756.7	63	17.2	36	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.47	748.5	29.84	757.9	46	7.8	77	se.	1	0.4	.....	1 cs	0	.....	.....	0	0	clear	J. Daly.
Uvalde, Texas	29.17	740.9	30.12	765.0	64	17.8	84	calm	0	0	.....	.....	10 s	.....	sw.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	30.00	762.0	30.25	768.3	54	12.2	66	calm	0	0	.....	4 ck	0	calm	.....	0	0	fair	H. T. Brisbane.
Visalia, California	29.51	749.5	29.88	758.9	58.3	14.6	73	nw.	2	0.9	.....	7 c	0	.....	.....	0	0	fair	W. L. Seward.
Washington, D. C.	30.06	763.5	30.17	766.3	50.1	10.1	64	calm	0	0	.....	0	sk.	.....	.....	0	0	clear	B. M. Purssell.
West Las Animas, Colorado	26.13	663.7	29.99	761.7	44	6.7	68	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Grover.
Williamsport, Pa.	29.50	749.3	30.10	764.5	45	7.2	71	nw.	3	1.3	.....	7 k	0	nw.	.....	0	0	fair	B. F. Hough.
Wilmington, N. Carolina	30.15	765.8	30.20	767.1	56	13.3	86	calm	0	0	.....	8c; hz	fg.	.....	.....	0	0	cloudy	A. T. Sherwood.
Winnemucca, Nevada	25.44	646.2	29.79	756.7	46	7.8	58	ne.	2	0.9	.....	5 cs	0	calm	.....	0	0	fair	J. R. Williams.
Yankton, Dakota	28.88	733.5	30.16	766.1	38	3.3	62	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. H. Atfield.
Yuma, Arizona	29.55	750.6	29.70	754.4	71.8	22.1	40	se.	8	3.6	.....	8cs; c	0	.....	.....	0	0	cloudy	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.05	560.1	.....	.....	53.5	11.9	82	ne.	2	0.9	.....	.....	10 s	.....	s.	0.09	2.3	drizzling	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.04	763.0	30.04	763.0	83	28.3	83	e.	.....	.....	.....	5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	30.04	763.0	30.07	763.8	76	24.4	85	calm	0	0	.....	.....	10 ks	.....	s.	0	0	cloudy	J. I. Plume.
Guadeloupe, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	B. Bigar.
Havana, Cuba, W. I.	30.04	763.0	30.10	764.5	79	26.1	82	e.	1.2	0.5	.....	0	1 ks	.....	calm	inap.	inap.	clear	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.08	764.0	30.09	764.3	78.0	25.6	73	n.	1	0.4	.....	0	0	.....	.....	0	0	fine	Robert Johnston.
Magua, San Domingo	.....	.....	.....	.....	72	22.2	.....	calm	.....	.....	0	1 cs	0	w.	.....	0	0	.....	S. M. Pike.
Navassa, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. M. Everett.
Paramaribo, S. A.	30.06	763.5	30.06	763.5	79	26.1	87	se.	.....	.....	2	5 k	3 s	e.	.....	0.230	5.8	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.52	749.8	29.98	761.5	77	25.0	89	calm	.....	.....	0	.....	10 s	.....	calm	2.28	57.9	foggy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	88	ne.	.....	.....	4	7 cs	0	se.	.....	0	0	fair	Earl Flint.
Santiago de Cuba, W. I.	30.05	763.3	30.07	763.8	79	26.1	74	calm	0	0	.....	0	0	.....	.....	0	0	clear	Robert Mason.
York Factory, B. A.	30.02	762.5	30.07	763.8	6.0	−14.4	88	nw.	14	6.3	.....	.....	10 s	.....	nw.	0.02	0.5	snowing	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
British Naval.																		
H. M. S. Alert, S. 9° 24′, E. 50° 23′	29.92	760.0	81	27.2	74	se.			3		5							d. clouds.
H. M. S. Alexandra, Malta Mediterranean	30.16	766.1	69	20.6	70	s.			2		0							blue sky.
H. M. S. Amethyst, N. 40° 42′, W. 12° 06′	30.01	762.2	57.5	14.2	87	wsw.			1		1	nne.				3	wnw.	blue sky.
H. M. S. Champion, S. 16° 15′, W. 88° 00′			70	21.1	75	ese.			4		10	calm				4	ese.	drizzling.
H. M. S. Cleopatra, N. 4° 38′, E. 99° 08′	29.81	757.2	82.5	28.1	87	n.			1		3							d. clouds.
H. M. S. Comus, N. 5° 44′, E. 118° 30′	29.85	758.2	80.5	26.9	?	calm			0		0							blue sky.
H. M. S. Condor, N. 36° 03′, E. 14° 10′	30.16	766.1				se.			3		4	sse.				3		d. clouds.
H. M. S. Coquette, Alexandria, Egypt	30.04	763.0	69	20.6		wnw.			3		2	wnw.						d. clouds.
H. M. S. Dido, N. 18° 20′, W. 66° 00′	30.12	765.0	80	26.7		ese.			2		2	e.						d. clouds.
H. M. S. Druid, N. 14° 55′, W. 78° 15′	29.99	761.7	80	26.7	91	ne.			3-4		3	e.				3	ne.	d. clouds.
H. M. S. Dwarf, S. 32° 18′, W. 58° 03′	30.17	766.3	51.5	10.8	59	ne.			1-2		10					1	n.	overcast.
H. M. S. Emerald, S. 40° 25′, E. 173° 30′	29.43	747.5	61	16.1	94	calm			0		6	ne.						d. clouds.
H. M. S. Fantome, N. 19° 09′, W. 69° 10′	30.12	765.0	80	26.7		e.			1-2		4	e.				3	e.	d. clouds.
H. M. S. Flying Fish, N. 31° 36′, E. 131° 26′	29.96	761.0	66	18.9	78	calm			0		0							misty.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.01	762.2	56	13.3	87	se.			1		10							misty.
H. M. S. Garnet, S. 34° 28′, W. 57° 52′	30.27	768.8	52	11.1	79	nne.			3		3							d. clouds.
H. M. S. Inconstant, Simon's Bay, Cape Colony	29.88	758.9	62	16.7	66	n.			5		0	nnw.				2	n.	squally.
H. M. S. Iron Duke, N. 25° 51′ E. 125° 18′	29.86	758.4	72	22.2	95	e.			3-4		10	e.				3	e.	squally.
H. M. S. Lark, S. 9° 03′, E. 157° 20′	29.92	760.0	83.3	28.5		nnw.			2		0					2	nw.	squally.
H. M. S. Magpie, N. 35° 26′, E. 140° 50′	29.88	758.9	63.9	17.7	65	ssw.			1-2		0					3	ssw.	blue sky.
H. M. S. Northampton, Bermuda, W. I.	29.99	761.7	72	22.2	93	sse.			3		10	ssw.						d. clouds.
H. M. S. Orontes, N. 32° 10′ W. 61° 08′	30.10	764.5	69.5	20.8	97	sse.			3		6	ssw.				2	sse.	d. clouds.
H. M. S. Pegasus, N. 1° 17′, E. 103° 51′	29.88	758.9	85.5	29.7	?	calm			0		3	sw.						d. clouds.
H. M. S. Phoenix, N. 23° 48′, W. 64° 47′	30.13	765.3	79	26.1	90	calm			0		2					1	se.	d. clouds.
H. M. S. Rambler, Elephant Bay, Benguela	29.87	758.7	77	25.0	100	w.			2-4		1							blue sky.
H. M. S. Rocket, N. 48° 27′, W. 123° 27′	29.76	755.9	48	8.9	?	nnw.			2		2							d. clouds.
H. M. S. Tenedos, N. 44° 40′ W. 63° 35′	29.71	754.6	39	3.9	81	wnw			3-5		10							squally.
H. M. S. Triumph, Coquimbo, Chili	30.02	762.5	56	13.3	93	calm			0		10	calm						foggy.
H. M. S. Tyne, N. 27° 18′, E. 34° 09′	29.91	759.7	76	24.4	100	nw.			5-6		0					5	nw.	blue sky.
H. M. S. Woodlark, Muscat, Arabia	29.81	757.2	87.5	30.8	69	se.			1		0							blue sky.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verd Islands	30.04	763.0	75.9	24.4	88	ne.			3		2	ne.				2		d. clouds.
Tamega, Macao, China	29.89	759.3	74.8	23.8	89	se.			2		10	se.		18 h'r	18 h'r			raining.
United States Naval.																		
Navy Yard, Pensacola, Fla.	30.15	765.8	59	15.0	54	n.	2	0.9			5		ne.	0	0			fair.
N. Yard, Portsmouth, N. H.	29.98	761.5	42	5.6	83	calm	0	0			0			0	0			clear.
Naval Hospital, Yokohama, Japan	29.71	754.6	58.5	14.7	73	calm			0		0			0	0			clear.
Adams, Pichilinque, Mexico	29.66	753.4	64	17.8	89	sse.			2-3		2			0	0	sm'h		clear.
Alaska, N. 7° 18′ W. 79° 40	29.81	757.2	78	25.6	91	nw.			2		2			0.30	7.6	sm'h		fair.
Alert, Kobe, Japan*	29.83	757.7	62	16.7	66	calm			0		0			0	0	sm'h		hazy.
Alliance, Hampton Roads, Va	30.19	766.8	59	15.0	82	s.			2		2			0	0	sm'h		clear.
Ashuelot, Kobe, Japan	29.93	760.2	58	14.4	76	calm			0		1							clear.
Brooklyn, Montevideo, Uruguay	30.28	769.1	52	11.1	86	ne.	9	4.0			2		ne.	0	0	sm'h		clear.
Colorado, New York, N. Y.	30.11	764.8	56	13.3	57	sw.	2	0.9			5		sw.	0	0			light haze.
Enterprise, Hampton Roads, Va*	30.17	766.3	57	13.9	87	sw.			1		1		sw.					misty.
Essex, S. 24° 41′, W. 40° 51′	30.12	765.0	73	22.8	81	sw.			3		8		sw.			long	se.	fair.
Franklin, Norfolk, Va.	30.19	766.8	52	11.1	93	s.	4	1.8			2		s.	0	0			fair.
Galena, Villafranca, France	30.05	763.3	64	17.8	68	e.			4-6		2		nw.			sm'h		clear.
Independence, Mare Island, Cal.	29.74	755.4	51	10.6	86	nw.			3		10			0	0			cloudy.
Iroquois, Mare Island, Cal	29.90	759.4	56	13.3	69	sw.			2		10		sw.					cloudy.
Kearsarge, Hampton Roads, Va†	30.23	767.8	55	12.8	100	ssw.			2		0					sm'h		hazy.
Lackawana, S. 11° 06′, W. 77° 54′†	30.14	765.5	63	17.2	94	sse.			2					0	0	sm'h	se.	clear.
Lancaster, Villafranca, France*	29.98	761.5	66	18.9	59	e.			3		5		se.	0	0			fair.
Marion, S. 23° 16′, W. 24° 05′	30.16	766.1	76	24.4	82	ne.			4		5		e.			mod.	ene.	fair.
Michigan, Erie, Pa.	30.09	764.3	46	7.8	84	sw.			2		0							clear.
Minnesota, Newport, R. I.	30.06	763.5	49	9.4	70	wsw.	1	0.4			0							
Monocacy, Kobe, Japan	29.96	761.0	60	15.6	76	calm			0		0							clear.
New Hampshire, Newport, R. I.	30.00	762.0	50	10.0	65	sw.			1		0					sm'h		clear.
Nipsic, Villafranca, France	30.02	762.5	65	18.3	48	ene.			4		10					sm'h		cloudy.
Onward, Callao, Peru†	30.09	764.3	60	15.6	94	sse.			2		10		n.			long	w.	cloudy.
Palos, Kobe, Japan	29.97	761.2	58	14.4	64	calm			0		0							hazy.
Passaic, Washington, D. C.	30.17	766.3	52	11.1	100	calm			0		2		w.					clear.
Pensacola, Callao, Peru	29.99	761.7	63	17.2	89	sse.	5	2.2			10		sse.	0	0	sm'h		cloudy.
Portsmouth, N. 47° 20′ W. 22° 16′	29.70	754.4	51	10.6	59	n.			3		5		n.			long	n.	fair.
Powhatan, Key West, Florida	30.09	764.3	80	26.7	82	e.			1		2							fair.
Quinnebaug, Villafranca, France	30.00	762.0	63	17.2	33	e.			4		8		se.			sm'h		fair.
Ranger, Altata Dock, Mexico*	29.86	758.4	72	22.2	95	se.			2		2		se.	0	0	sm'h		misty.
Richmond, Kobe, Japan*	29.90	759.4	69	20.6	35	calm			0		0			0	0			clear.
Saratoga, N. 47° 15′, W. 180 16′	29.65	753.1	52	11.1	86	nw.			4		2		nw.	light	light	long	nw.	fair.
Shenandoah, New York, N. Y*	30.15	765.8	48	8.9	78	s			1		8					sm'h		cloudy.
St. Louis, League Island, Pa.	30.38	771.6	51	10.6	65	sw.	6	2.7			5			0	0			fair.
Swatara, Chefoo, China*	29.56	750.8	59	15.0	70	sse.			3		0					mod.	se.	clear.
Tennessee, Fort Monroe, Va.	30.22	767.6	56	13.3	100	ssw.	8	3.6			0			0	0			hazy.
Vandalia, Hampton Roads, Va*	30.29	769.4	56	13.3	94	sw.			1		0							clear.
Wabash, Boston, Mass.	30.06	763.5	47	8.3	70	sw.	2	0.9			0			0	0			clear.
Wachusetts, Sitka, Alaska	29.81	757.2	38	3.3	100	calm			0		0			0	0	sm'h		clear.
Wyoming, Port Royal, S. C.	30.20	767.1	63	17.2	94	ene.	5	2.2			8		sw.	0	0			cloudy.
Yantic, Fort Monroe, Va*†	30.38	771.6	58	14.4	88	s.			1-2		2							hazy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind. Upper.	Amount and kind. Lower.	Direction. Upper.	Direction. Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, Off Innishaven Head, Ireland*	29.24	742.7	48	8.9	71	ese.			4		5		se.	5 h'r	5 h'r	2	w.	rain & hail.
S. S. Polynesian, Off Cape Anguille, N. F.*	29.25	742.9	37	2.8		wnw.			2		9		se.	6 h'r	6 h'r	sm'h		cloudy?
S. S. Prussian, N. 54° 50′ W. 12° 22′*	29.21	741.9	48	8.9		ne.			3		5?		ne.	6 h'r	6 h'r	light	n	clear?
S. S. Scandinavian, N. 42° 44′, W. 61° 27′*	29.65	753.1	38	3.3		w			6		7		w.	9 h'r	9 h'r	short	w.	d. clouds.
S. S. Waldensian, Glasgow, Eng*	29.43	747.5	50	10.0		sse.			4		5		sse.	sh'rs	sh'rs			showery.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, Liverpool, Eng	29.44	747.8	54	12.2	93	sse.			4		8		se.					overcast.
S. S. Indiana, N. 49° 32′ W. 20° 52′†	29.76	755.9	55	12.8	87	n.			3		2		ne.	light	light	mod.	n.	fair.
S. S. Lord Clive, N. 51° 15′, W. 10° 00′*	29.31	744.5				wsw.			3		2		w.	24 h'r	24 h'r	mod.	nw.	fine.
S. S. Ohio, N. 46° 10′, W 31° 00′†	29.83?	757.7?	49	9.4	93	n.			5		5		nnw.			long	nw.	
ANCHOR LINE.																		
S. S. Bolivia, N. 52° 45′, W. 21° 52′†	29.67	753.6	44	6.7		nne.			4		4		nne.	sh'rs	shr's	cross	nne.	clear.
S. S. Elysia, N. 40° 01′, W. 61° 08′†	29.92	760.0	47	8.3		nnw.			4		10		nw.	12 h'r	12 h'r	r'gh	sw.	cloudy.
S. S. India, N. 18° 41′, E. 71° 13′*	29.79	756.7	89	31.7	88	nw.			1		0							clear.
S. S. Utopia, N. 40° 15′ W. 31° 36′†	30.37	771.4	60	15.6	65	nnw.			4		4		nw.	½ h'r	½ h'r	h'vy	nw.	clear.
ATLAS LINE.																		
S. S. Alisa, Savanilla, W. S. C†	30.30	769.6	79	26.1	90	ne.			2		2		ne.	o	o			
S. S. Alvo, N. 14° 13′ W. 77° 11′	29.99	761.7				nne.			7		9		nne.	sh'rs	sh'rs	mod.	n.	cloudy.
S. S. Athos, Kingston, Jamaica, W. I	29.47	748.5																
S. S. Claribel, N. 18° 12′, W. 73° 25′*†.	30.20	767.1	79	26.1	90	calm			0		0			o	o	sm'h		fine.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S 30° 16′, W. 28° 04′	30.17	763.3	75.5	24.2	64	nne.			3		2							d. clouds.
British Merchant, S. 26° 30′, E. 52° 28′	30.05	763.3	78	25.6	69	w.			1		2							d. clouds.
Bk Coppename, N. 51° 39′, W. 6° 50′	29.39	746.5	51	10.6		w.			8		5							blue sky.
Glencairn, S. 18° 34′, E. 79° 41′	30.00	762.0	78	25.6	82	ese.			4		8							d. clouds.
S. S. Minho, N. 31° 37′, W. 14° 13′	30.20	767.1	67.6	19.8	64	nne.			4		7							d. clouds.
CUNARD LINE.																		
S. S. Gallia, N. 41° 02′ W. 68° 38′	30.03	762.7	44	6.7	84	wsw.			3		5		sw.	o	o	sm'h		fair.
S. S. Marathon, N. 42° 14′, W. 61° 28′	29.90	759.4	39	3.9		wnw.			5		2		w.	6 h'r	6 h'r	h'vy	s.	fair.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Ville de Marseilles, Cape Gallo, Sicily*†	30.30	769.6	66	18.9		n.			4		0			o	o			clear.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 45° 55′, W. 30° 50′*†	30.18	766.6				nnw.			5		3		nnw.	o	o	long	nnw.	fine.
S. S. Gellert, N. 41° 20′, W. 49° 08′	30.23	767.8	56	13.3		sw.			3		10		se.	o	o	mod.	se.	foggy.
S. S. Lessing, Hamburg, Germany	30.13	765.3	60	15.6		wsw.			2		8		wsw.	o	o			cloudy.
S. S. Silesia, N. 50° 02′, W. 4° 21′†	29.79	756.7	55	12.8		sw.			7		2		sw.	o	o	6	wsw.	
S. S. Wieland, N. 41° 36′ W. 55° 43′	29.98	761.5	65	18.3		s.			6		10		s.	2 h'r	2 h'r	3	s.	misty.
INMAN LINE.																		
S. S. City of New York, N. 49° 19′ W. 27° 13′	29.81	757.2				nnw.			5		3		nnw.	2 h'r	2 h'r	r'gh	n.	fair.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, S. 34° —′, W. 51° —′*†	30.44	773.2	67	19.4		sse.			1		4		sse.	o	o	long	ssw.	clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 40° 50′, W. 64° 41′†	30.00	762.0	60	15.6	82	nw.			5		5		nw.	4 h'r	4 h'r		s.	
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenapp, N. 8° 39′, W. 52° 02′*†	29.98	761.5				e.			5		7		ene.	o	o	light	e.	showery.
NATIONAL LINE.																		
S. S. Denmark, N. 50° 00′, W. 4° 35′	29.68	753.9	58	14.4		ssw.			6		2		ssw.	o	o	sli't	s.	clear.
S. S. England, N. 40° 31′ W. 68° 53′	30.07	763.8				sw.			3		fg.		sw.	6 h'r	6 h'r	sm'h	sw.	
S. S. Erin, N. 49° 34′, W. 17° 18′	29.55	750.6	47	8.3		nw.			4		0			4 h'r	4 h'r	long	nw.	clear.
S. S. Helvetia, N. 49° 06′, W. 24° 28′			50	10.0		nnw.			4		2		nnw.	rain	rain	mod.	nw.	clear.
S. S. Italy, N. 48° 26′, W. 26° 50′	29.86	758.4	49	9.4		nne.			5		2		ne.	8 h'r	8 h'r	long	nne.	fair
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Niagara. Havana, Cuba†	30.12	765.0	80	26.7	74	e.			1		0			o	o			clear.
NEW YORK, HAVANA MAIL, AND MEXICAN																		
S. S City of Alexandria, N. 26° 24′ W. 80° 02′*†	30.19	766.8	79	26.1	82	ese.			3		2		se.	3 h'r	3 h'r			d. clouds.
S. S. City of Puebla, N. 31° 14′, W. 78° 13′†	30.03	762.7	72	22.2		nne.			2		10		nne.			light	nne.	
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N. 50° 20′, W. 2° 02′*†	29.97	761.2	55	12.8		ssw.			5								sw.	
S. S. Lepanto, N. 41° 52′, W. 46° 53′*	30.38	771.6	60	15.6		se.			6								s.	cloudy.
S. S. Olbers, N. 15° 40′ W 25° 40′*†	30.14	765.5	73	22.8		ne.			5								ne.	cloudy.
S. S. P. Caland, N. 40° 23′, W. 49° 24′	30.23	767.8	68	20.0		ssw.			4							3	ssw.	fine.
NORTH GERMAN LLOYD.																		
S. S. Elbe, N. 46° 07′, W. 37° 37′	30.21	767.4	50.9	10.5	63	nnw.			6		10		nnw.	o	o	r'gh	nnw.	covered.
S. S. Habsburg, N. 41° 15′, W. 64° 28′	29.97	761.2	41.9	5.5		wnw.			5–6		1		wnw.	6 h'r	6 h'r	r'gh	wnw.	clear.
S. S. Hermann, N. 39° 38′, W. 57° 17′†	29.74	755.4	66.2	19.0		s.			6		9		sw.	10 h'r	10 h'r	h'vy	ssw.	rainy.
S. S. Main, N. 49° 05′, W. 20° 45′	29.69	754.1	50.0	10.0		w.			3–4		8		nw.	2 h'r	2 h'r	high	w.	fine.
S. S. Oder, N. 40° 29′, W. 63° 06′	29.95	760.7	51.8	11.0		nw.			6		7		n.	o	o	mod.	n.	fair.
S. S. Ohio, Bremerhaven, Germany	29.84	757.9				s.			3		8		ssw.	o	o			cloudy.
S. S. Rhein, Bremerhaven, Germany	29.78	756.4				w.			3–4		6		w.	o	o			fair.
S. S. Saller, Bremerhaven, Germany	29.86	758.4	53.6	12.0		sse.			5		10		sse.	o	o			fair.
S. S. Strassburg, N. 49° 22′, W. 13° 02′	29.51	749.5	52.0	11.1	93	wnw.			6		5?		nnw.	2 h'r	2 h'r	mod.	nnw.	clear?
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic N 36° 32′, W. 175° 29′†	30.10	764.5	60	15.6	76	sw.			1		5		nw.	o	o	con.	w.	fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, N 37° 48′, W. 74° 50†′	30.16	766.1				sw.			1		0					sm'h		clear.
S. S. Seminole, N. 34° 05, W. 76° 50′†	30.22	767.6	66	18.9	68	ne.			1		hz		ne.	o	o	sm'h	e.	hazy.
OREGON IMPROVEMENT COMPANY.																		
S. S. Willametta, Seattle. Wash. Ter.†	29.78	756.4	55	12.8	80	calm			0					o	o			hazy
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, N. 45° 55′, W. 125° 37′*†	29.82	757.4	51	10.6	93	se.			1		1?		e.					cloudy?
S. S. Columbia, N. 42° 10′, W. 124° 40′†	29.83	757.7	55	12.8	80	s.			3		10		ssw.			sm'h	sw.	cloudy.
S. S. Oregon, Portland, Oregon†	29.77	756.1	55	12.8	80	ese.			1		5		sw.					clear.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 36° 38′, W. 122° 08′†	29.90	759.4	52	11.1	86	nne.			3		10		n.			mod.	nw.	cloudy.
S. S. State of California, San Francisco, Cal. †	29.89	759.2	51	10.6	100	calm			0		10							cloudy.
S. S. Victoria, N. 41° 21′, W. 124° 05′†	29.81	757.2	53	11.7	93	w.			2		0			o	o	sm'h		clear.
PACIFIC MAIL STEAMSHIP CO.																		
S. S. Australia, S. 9° 57′, W. 169° 43′	29.92	760.0	82	27.8	87	e.			3		8		e.	o	o	sm'h		cloudy.
S. S. City of New York, Sydney, N. S. W†	30.03	762.7	62	16.7	88	sw.			2		1		sw.	o	o			clear.
S. S. City of Rio de Janeiro, Panama, Panama*†	30.12	765.0	77	25.0	91	nw.			2		2		nw.	2 h'r	2 h'r	sm'h	ne.	hazy.
S. S. City of Tokio, N. 34° 08′, E. 137° 51′†	29.84	757.9	65	18.3	78	wnw.			6		8		w.	o	o	r'gh	wnw.	fair.
S. S. Clyde, N. 26° 26′, W. 113° 36′†	29.90	759.4	58	14.4	82	nw.			2		10		n.	o	o	light	nw.	foggy.
S. S. Grenada, N. 14° 18′ W. 92° 42′	29.91	759.7	83	28.3	83	calm			0		2		ne.	o	o	light	s.	hazy.
S. S. South Carolina, San Jose, Guatamala†	29.97	761.2	83	28.3	87	sw.			2		10		sw.	4¾ h'r	4¾ h'r	mod.	sw.	fair.
S. S. Zelandia, S. 36° 15′, E. 176° 00′	29.50	749.3	64	17.8	83	nw.			2		8		nw.			sm'h		heavy rain.
QUEBEC S. S. COMPANY.																		
S. S. Muriel, N. 31° 46′, W. 68° 32′	30.02	762.5	69	20.6		n.			3		8		nw.	4 h'r	4 h'r	mod.	e.	fair.
S. S. Bermuda, Budgetown, Barbadoes, W. I. †	30.06	763.5	63	17.2		ese.			1		9		ese.	o	o	g'ntle	se.	fine.
RED STAR LINE.																		
S. S. Belgenland, N. 40° 09′, W. 67° 02′†	30.14	765.5	56	13.3	94	wnw.			5		4		n.	o	o	mod.		clear.
S. S. Nederland, N. 46° 25′, W. 20° 51′*†	29.87	758.7	51	10.6		nw.			1		8		wnw	sh'rs	sh'rs	long	nnw.	cloudy.
S. S. Rhynland, N. 40° 28′, W. 63° 43′	30.01	762.2	47	8.3	69	nnw.			6		3		nnw.	o	o	long	ne.	clear.
S. S. Switzerland, N. 48° 32′ W. 18° 49′†	29.64	752.8				wsw.			4		10		wsw.	2 h'r	2 h'r	cross	w.	cloudy.
S. S. Vaderland, N. 42° 36′, W. 43° 28′	30.13	765.3	55	12.8	87	sse.			5		2		s.	o	o	sm'h		clear.
S. S. Waesland, Antwerp, Belgium	29.79	756.7	60	15.6		sw.			5		8		sw.	1 h'r	1 h'r			fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Sea-swell. Character.	Sea-swell. Direction from.	Weather.
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ROTTERDAM LINE.																		
S. S. Schiedam, N. 50° 10′. W. 6° 43′*	29.59	751.6	54.3	12.4	.....	ssw.	.....	.....	7	.....	6	.....	sw.	3 h'r	3 h'r	high	sw.	hazy.
S. S. W. A. Scholten, Rotterdam, Holland	29.03	752.6	57	13.9	93	sw.	.....	.....	4	.....	4	.....	s.	1 h'r	1 h'r	.....	.....	fair.
STATE LINE.																		
S. S. State of Florida, N. 54° 15′, W. 14° 30′	29.22	742.2	49	9.4	.....	nne.	.....	.....	3	.....	4	.....	n.	sh'rs	sh'rs	mod.	n.	fair.
THINGVALLA LINE.																		
S. S. Thingvalla, Brooklyn, N. Y.†	30.26	768.6	52.7	11.5	.....	sse.	.....	.....	1	.....	2	.....	sse.	0	0	.....	.....	clear.
WARREN LINE																		
S. S. Iowa, N. 51° 03′, W. 11° 58′*†	29.60	751.8	50	10.0	.....	wsw.	.....	.....	6	.....	8	.....	wsw.	4 h'r	4 h'r	h'vy	wsw.	squally.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 41° 56′ W. 40° 20′	30.37	771.4	.....	.....	.....	.....	.....	.....	.....	.....	0	.....	.....	0	0	high	ne.	clear.
WHITE STAR LINE.																		
S. S. Adriatic, N. 45° 51′, W. 43° 10′†	30.42	772.7	49	9.4	.....	sse.	.....	.....	2	.....	2	.....	ssw.	0	0	sm'h	.....	d. clouds.
S. S. Celtic, N. 42° 32′. W. 47° 32′†	30.28	769.1	52	11.1	79	sse.	.....	.....	3	.....	10	.....	s.	4 h'r	4 h'r	sm'h	.....	hazy.
MISCELLANEOUS.																		
Schr. Abbe Clifford, N. 27° 43′, W. 52° 14′*†	30.30	769.6	80	26.7	.....	se.	.....	.....	4	.....	3	.....	se.	0	0	sm'h	n.	fine.
Sch. Addie Fuller, Newport News, Va†	30.24	768.1	55	12.8	87	ssw.	.....	.....	.....	0	0	.....	.....	0	0	.....	.....	clear.
Bk. Adelaide, Rio de Janeiro, Brazil*†	30.10	764.5	80	26.7	.....	nw.	.....	.....	.....	.....	.....	.....	nw.	0	0	.....	.....	clear.
Bk. Alpha, Santiago de Cuba, Cuba, W. I†	30.00	762.0	80	26.7	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	fair.
Schr Annie Lewis, Aransas, Pass, Texas†	30.21	767.3	74	23.3	.....	ne.	.....	.....	3	.....	8	.....	ne.	0	0	long	ne.	cloudy.
Bk. Antioch, S. 39° 54′, E. 63° —′*†	29.30	744.2	57	13.9	.....	wsw.	.....	.....	8	.....	10	.....	wsw.	2 h'r	2 h'r	mod.	sw.	raining.
Bk. Aureola, S. 20° 03′, W. 38° 26′*†	30.23	767.8	90	32.2	.....	w.	.....	.....	1	.....	0	.....	.....	1 h'r	1 h'r	mod.	ese.	clear.
Schr. Annie M. Smull, S. 34° 20′. E. 97° 20′*†	30.10	764.5	68	20.0	.....	nw.	.....	.....	.....	.....	.....	.....	nw.	0	0	long	sw.	clear.
Schr. Edith R. Seward, N. 29° 51′, W. 70° 59′*†	30.26	768.6	72	22.2	.....	w.	.....	.....	2	.....	9	.....	w.	.....	.....	cross	w.	sprinkling.
S. E. J. Spicer, N. 41° 48′, W. 32° 10′†	30.27	768.8	.....	.....	.....	nne.	.....	.....	6	.....	5	.....	nne.	4 h'r	4 h'r	long	nne.	
S. Enoch Train, Off Sable Id, N. S*	29.67	753.6	.....	.....	.....	w.	.....	.....	6	.....	10	.....	nw.	8 h'r	8 h'r	sli't	sw.	overcast.
S. Exporter, S. 23° 00′, W. 33° 00′*†	30.25	768.3	.....	.....	.....	n; se.	.....	.....	0–4	.....	8	.....	n.	8 h'r	8 h'r	cross	.....	
S. Festina Lente, N. 36° 47′, W. 69° 00′*	30.17	766.3	59	15.0	.....	n.	.....	.....	4	.....	2	.....	nnw.	6 h'r	6 h'r	light	wsw.	clear.
Bk. Freya, Queenstown, Ireland	.....	.....	47	8.3	.....	nnw.	.....	.....	6	.....	8	.....	wnw.	4 h'r	4 h'r	.....	.....	hailing.
S. Grecian, S. 40° 00′ E. 66° 09′*†	29.40	746.7	49	9.4	.....	w.	.....	.....	4	.....	10	.....	sw.	5 h'r	5 h'r	long	sw.	
Schr. Hattie G. McFarland, N. 38° 20′ W. 73° 20′*†	30.18	766.6	46	7.8	.....	ssw.	.....	.....	1	.....	0	.....	.....	0	0	long	e.	clear.
S. Hedwig, N. 40° 12′, W. 67° 48′	30.12	765.1	39.9	4.4	97	wsw.	.....	.....	1	.....	2	.....	nw.	8 h'r	8 h'r	3	n.	foggy
Bk. Johanne, N. 38° 50′, W. 70° 20′*†	30.05	763.3	47	8.3	.....	sw.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	.....	clear.
Schr. John L. Thomas, Roncador Id. C. A*†	30.10	764.5	.....	.....	.....	ne.	.....	.....	4	.....	5	.....	ene.	0	0	.....	.....	threatening.
Bkt. Josephine, N. 15° 16′ W. 75° 52′*†	30.11	764.8	83	28.3	74	ene.	.....	.....	6	.....	2	.....	ene.	0	0	mod.	ene.	fair.
Bk. Kate Cann, N. 43° 50′, W. 23° 11′*†	29.92	760.0	.....	.....	.....	nnw.	.....	.....	6	.....	6	.....	nnw.	6 h'r	6 h'r	long	n.	squally.
Bkt. Kryolith, N. 48° 39′ W. 14° 20′*†	29.60	751.8	.....	.....	.....	w.	.....	.....	6	.....	8	.....	nw.	shr's	shr's	hv'y	nw.	cloudy.
S. Lake Erie, Liverpool Bar, Eng.	29.43	747.5	.....	.....	.....	s.	.....	.....	6	.....	10	.....	w.	0	0	sm'h	.....	cloudy.
S. S. Lamperts, N. 36° 51′ E. 00 17′°	29.89	759.2	63.8	17.7	88	ene.	.....	.....	2	.....	10	.....	s.	.....	.....	.....	.....	light fog.
Light House Tender, Laurel, N. 28° 45′, W. 83° 07′†	30.15	765.8	74	23.3	.....	ne.	.....	.....	2	.....	10	.....	n.	0	0	.....	.....	cloudy.
S. S. Malabar, N. 12° 40′, E. 43° 26′*†	29.82	757.4	.....	.....	.....	e.	.....	.....	5	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
Bg. Medina, Key Francis, W. I.†	30.19	766.8	.....	.....	.....	s.	.....	.....	1	.....	5	.....	sse.	.....	.....	.....	.....	fine.
S. S. Nebo, S. 12° 18′, W. 36° 14′*†	29.95	760.7	.....	.....	.....	ne.	.....	.....	2	.....	1	.....	e.	0	0	mod.	ene.	clear.
S. Paramita, N. 19° 25′ W. 35° 11′†	30.02	762.5	75	23.9	.....	e.	.....	.....	4	.....	3	.....	e.	2 h'r	2 h'r	long	ne.	clear.
Bk. Peppina, Bordeaux, France†	29.97	761.2	62	16.7	61	nnw.	.....	.....	2	.....	2	.....	nnw.	.....	.....	.....	.....	fair.
Bg. Potomac, N. 19° 30′, W. 61° 06′*†	30.05	763.3	.....	.....	.....	ese.	.....	.....	3	.....	.....	.....	e.	.....	.....	sm'h	.....	fine.
S. Salisbury, S. 28° 05′ W. 31° 00′*	30.17	766.3	79.0	26.1	81	nne.	.....	.....	3–4	.....	5	.....	ne.	0	0	mod.	ne.	fair.
Bk. Stella, S. 27° 55′, W. 85° 37′*	30.11	764.8	73.4	23.0	91	ne	.....	.....	1	.....	5 s?	.....	ne.	0	0	sm'h	n.	cloudy?
U.S.F.C.S.S.Fish Hawk, Quantico, Va†	30.28	769.1	50	10.0	78	nw.	.....	.....	1	.....	2	.....	calm	0	0	.....	.....	clear.
Yacht Vega, N. 35° 17′, W. 66° 48*†	30.25	768.3	68	20.0	.....	.....	.....	.....	.....	.....	.....	.....	s. to w.	3 h'r	3 h'r	r'gh	ssw.	cloudy.
S. S. Victoria J. Peed, Salamanca Id, U. S. C.*†	29.11	739.4	.....	.....	.....	ne.	.....	.....	3	.....	9	.....	.....	.....	.....	.....	.....	rainy.
S. Washington, N. 48° 02′, W. 16° 26′*†	29.54	750.3	.....	.....	.....	wnw.	.....	.....	6	.....	2	.....	wnw.	3 h'r	3 h'r	hv'y	nw.	fair.
Bg. Wauburn, N. 22° 53′, W. 60° 33′*†	30.20	767.1	.....	.....	.....	se.	.....	.....	4	.....	4	.....	se.	0	0	sm'h	.....	
S. Wm. Woodbury, N. 37° 10′, W. 61° 55′*†	29.92	760.0	70	21.1	79	sw.	.....	.....	4	.....	.....	.....	sw.	.....	.....	light	sw.	cloudy.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 2, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.04	763.0	70.5	21.4	74	ne.			1		1			0	0	very fair	Moiroud.
Algiers			30.04	763.0	69.8	21.0	70	nw.			2		4			0	0	cloudy	Nicolas.
La Calle			30.03	762.7	68.4	20.2	91	w.			1		3			0	0	pretty fair	Fonfrède.
Tunis			30.00	762.0															Jacques.
Saida			30.06	763.5															Dumas.
Tebessa			30.08	764.0	69.8	21.0	40	sw.			4		2			0	0	fair	Derché.
Geriville					83.5	28.6	11	sw.			6		7			0	0	very cloudy	Lonchamp.
Laghouat			30.07	763.7	89.2	31.8	75	w.			7		4			0	0	cloudy	Abraham.
Biskra			30.10	764.4	87.8	31.0	15	sse.			4		9			0	0	covered	Malau.
Australian.																			
Melbourne, Victoria	30.05	763.3	30.14	765.5	58.0	14.4	80	nw.	11	4.9			10			0.06	1.5	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.49	749.0	30.02	762.4	73.9	23.3	30	sw.			3		10			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.22	742.1	29.95	760.8	74.8	23.8	44	ene.	10.5	4.7			6			0	0		Dr. Wierzbiski.
Eperies	29.13	739.9	29.98	761.4	72.3	22.4	50	se.			2		10 s			0	0		Julius Mikolik.
Gratz	28.75	730.3	29.98	761.4	65.1	18.4	65	w.			1		10			0	0		Andreas Rospini.
Hermannstadt	28.64	727.5	30.01	762.3	75.6	24.2	48	se.			2		1			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.66	729.0	29.98	761.5	61.3	16.3	73	wnw.			3		10			0.087	2.2		The Staff.
Lemberg	29.05	737.9	30.00	762.0	72.7	22.6	43	nw.			1		5			0	0		Dr. T. Stanecki.
Pola	29.97	761.1	30.08	763.9	65.1	18.4	60	se.			5		7			0	0		I. R. Hydrographic Office.
Szathmar	29.57	751.1	30.02	762.6	78.3	25.7	39	e.			3		1			0	0		Joseph Midlinszky, S. J.
Szegedin	29.74	755.4	30.01	762.2	77.7	25.4	31	s.			1		4			0	0		Karl Stancel.
Trieste	30.02	762.4	30.12	765.0	69.8	21.0	54	calm			0		6			0	0		Rieder.
Vienna	29.24	742.7	29.94	760.5	66.2	19.0	65	wnw.			2		10			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.55	750.6	29.65	753.1	49.0	9.4	71	sse.	21	9.4			7			0.050	1.3	squally	W. Boswell.
Armagh, Observatory	29.46	748.3	29.68	753.9	51.9	11.1	57	wsw.	15	6.7			5					d. clouds	S. Call.
Bidston, Liverpool Obs'y			29.78	756.4	56.0	13.3	62	sw.	25	11.2			3					blue sky	John Hartnup.
Bolton, Sharples	29.24	742.7	29.78	756.4	56.3	13.5	48	ssw.	24	10.7			6					d. clouds	Thomas Mackereth, A.S.
Bradford, Yorkshire	29.38	746.2	29.77	756.1	54.1	12.3	66	sw.			2		5			0.03	0.8	d. clouds	J. McLandsborough, F. R
Bridgetown, Barbadoes	30.00	762.0	30.03	762.7	82.0	27.8	67	ne.			2		2					d. clouds	Corpl. J. Surgenor, A. H. C.
Cardington			29.90	759.4	57.4	14.1	71	sw.			2.0		9					overcast	John McLaren.
Chatham, School M. E.	29.82	757.4	29.96	761.0	55.3	12.9	65	sw.			2		8					d. clouds	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.64	752.8	29.87	758.7	55.6	13.1	77	sse.			2		10					overcast	The Staff.
Fort Napier, Natal	27.59	700.8	29.80	756.9	63.0	17.2	36	calm			0		10					overcast	Pvt. E. K. Annis, A. H. C.
Free Town, Sierra Leone	29.57	751.1	29.80	756.9	86.0	30.0	61	nw.			1		4					d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	29.96	761 0	30.01	762.2	66.5	19.2	81	w.			4		7					d. clouds	Cpl. O. Baldwin.
Glasgow, Observatory	29.41	747.0	29.62	752.3	50.0	10.0	64	wsw.			6		8					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.77	756.1	29.94	760.5	56.9	13.8	68	ssw.			4		7					showery	The Staff.
Guernsey	29.65	753.1	29.95	760.7	56.0	13.3	80	s.			1		1					blue sky	A. Collenette, F. M. S.
Kew, Observatory	29.90	759.4	29.94	760.5	57.6	14.2	61	ssw.	18	8.0			7					d. clouds	The Staff.
Leicester, Museum	29.58	751.3	29.83	757.7	59.0	15.0	53	sw.			2		4					d. clouds	J. O. Smith.
Malta, Mediterranean	30.10	764.5	30.18	766.6	67.6	19.8	62	se.			3		1					blue sky	I. H. Whysall.
Nassau, Bahamas	30.12	765.0	30.17	766.3	82.0	27.8	76	s.			2		5					d clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.35	745.5	29.88	758.9	50.0	10.0	78	sw.			3		8					showery	John Mac Email.
Oxford, Radcliffe Obs'y	29.68	753.9	29.91	759.7	56.4	13.6	65	s.			5		8					squally	The Staff.
Plymouth	29.81	757.2	29.88	758.9	55.1	12.8	80	s			1		8					d. clouds	John Merrifield.
Sandwick Manse, Orkneys			29.56	750.8	50.7	10.4	78	se.	20	8.9			8					hailing	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.98	761.5	30.04	763.0	65.0	18.3	73	ssw.			1		1			blank	blank	blue sky	W. H. Lyne.
Sheffield	29.56	750.8	29.84	757.9	57.0	13.9	74	sw.			2		5			0.03	0.8	d. clouds	W. F. Cooper.
Silloth Rectory	29.66	753.4	29.70	754.4	52.0	11.1	64	ssw.			6		5			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.79	756.7	54.5	12.5	53	sw.	25	11.2			7			blank	blank	d. clouds	J. New.
Stratfield Turgiss	29.70	754.4	29.92	760.0	57.1	13.9	62	sw.			3		8					d. clouds	Rev. O. H. Griffiths, F.M.S.
Truro, Royal Institution	29.83	757.7	29.87	758.7	58	14.4	76	s.			4		10					gloomy	W. Newcombe.
Valencia, Observatory	29.73	755.1	29.76	755.9	52.1	11.2	66	nnw.	9	4.0			6					d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.87	758.7	29.91	759.7	41	5.0	76	s.	4	1.8		0	0			inap.	inap.	clear	H. J. Cundall, C. E.
Chatham, N. B*	29.81	757.2	29.87	758.7	38	3.3	66	calm	0	0		0	0			0	0	clear	G. A. Blair.
Father Point, Quebec*	29.67	753.6	29.70	754.4	42	5.6	62	sw.	10	4.5		5 k	5 s	sw.		0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.20	741.7	30.06	763.5	33	0.6	92	s.	10	4.5		5 ck	5 ks	w.	w.	0	0	cloudy	James Stewart.
Halifax, N. S*	29.86	758.4	29.99	761.7	45	7.2	71	s.	2	0.9		0	0			0	0	clear	A. Allison.
Kingston, Ontario*	29.65	753.1	30.00	762.0	35	1.7	72	w.	10	4.5		5 ck	2 k	w.	w.	0.09	2.3	clearing	A. P. Knight, M. A.
Montreal, Quebec*	29.69	754.1	29.90	759.4	35	1.7	82	calm	0	0			10 s			0.11	2.8	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29 45	748.0	30.18	766.6	28	— 2.2	64	nw.	14	6.3		2 k	0	nw.		0.08	2.0	fair	Rev. R. Mosley.
Port Dover, Ontario	29.50	749.3	30.22	767.6	31	— 0.6	89	nw	11	4.9		5 k	0	nw		0.32	8.1	fair	H. Morgan.
Port Stanley, Ontario	29.56	750.8	30.24	768.1	31	— 0.6	81	w.	16	7.2		5 k	0	nw.		0.35	8.9	fair	M. Payne.
Quebec, Quebec*	29 41	747.0	29.73	755.1	40	4.4	89	w.			5		10 n		w.	0.07	1.8	light rain	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.59	751.6	30.07	763 8	26	— 3.3	80	nw.	6	2.7		5 ok	0	nw.		0.08	2.0	fair	W. H. McIntyre.
Saugeen, Ontario*	29.47	748.5	30.22	767.6	30	— 1.1	84	nw.	22	9.8			10 ks			0.03	0.8	cloudy	
St. Andrews, N. B	29.85	758.2	29.90	759.4	41	5.0	81	s.	1	0.4		0	0			0	0	clear	
Sydney, C. B*	29.87	758.7	29.93	760.2	41	5.0	70	sw.	16	7.2		0	0			0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.78	756.4	30.18	766.6	31	— 0.6	68	nw.	25	11.2		2 ck	0	nw.		0.15	3.8	fair	Magnetic Observatory.
Yarmouth, N. S*	29.90	759.4	29.97	761.2	41	5.0	92	s.	4	1.8		0	fg.			0	0	fair	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.85	758.2	30.11	764.8	42	5.6	83	sw.	5	2.2		0	0			0	0		John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	29.98	761.5	30.01	762.2	69.0	20.6	68	sw.	9.6	4.3		2 c	0			0	0	clear	John Duthie.
Cape Town, C. G. H. Obs'y	29.97	761.2	30.01	762.2	67.1	19.5	64	wnw.	6	2.7						0.120	3.0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observer.
CHINESE (*Sub-series*).																			
Hankow	29.50	749.3	29.78	756.4	75.3	24.1	80	se.			5		10			0	0		N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.75	755.6	29.78	756.3	62.4	16.9	92	se.	17.4	7.8			10 k		se.	0	0	covered	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	30.10	764.5	30.15	765.7	51.4	10.8	72	s.	10.1	4.5			4						Oversergent Fischer.
Fanöe	30.06	763.5	30.08	764.0	55.2	12.9	73	ssw.			4		1						Overloerer Lauridsen.
Godthaab, Greenland	30.11	764.7	30.15	765.8	32.0	0.0	78	ene.			4		6			0	0		S. Kleinschmidt.
Stykkisholm, Iceland	30.13	765.4	30.18	766.5	23.0	— 5.0	95	e.			4		5						A. O. Thorlacius.
Thorshavn	29.61	752.2	29.65	753.1	43.9	6.6	87	ne.	20	9			9					raining.	Overloerer Bergh.
Vestervig	29.95	760.6	30.04	762.9	54.0	12.2	84	ssw.			2		1						Loerer Oesterbol.
FRENCH.																			
Agen, Normal School	29.33	745.0	29.98	761.4	60.4	15.8	66	se.			1	c	2 n			0	0	slightly cl'dy	M. Labroue, Director.
Alençon, Normal School	29.48	748.9	30.04	762.9	53.6	12	94	s.			1	ck	0	s.		0.16	4.		M. Nicot, Director.
Arras, Engineer School	29.76	755.9	30.02	762.4	60.6	15.9	53	s.			1		8		sw.	0	0		M. Fénéon, Command't.
Avginon, Normal School	29.93	760.2	30.01	762.2	70.2	21.2	65	n.			1		0			0.299	7.6	clear	M. Giraud, Director.
Bar-sur-Seine	29.49	749.0	30.08	763.9	64.4	18.0	48	se.			1		8		s.	0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.78	756.3	30.04	763.1	58.5	14.7	45	ese.			2		2		s.	0	0	slightly cl'dy.	M. Frère Eugène Mari.
Besançon, Normal School	29.11	739.3	29.99	761.8	62.6	17	69	ese.			1	o	2 kn		sse.	0.256	6.5	slightly cl'dy	M. Gobin, Director.
Bordeaux, Observatory	29.63	752.7	29.89	759.2	65.3	18.5	52	se.			2		8			0.016	0.4	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.48	748.9	30.02	762.6	65.1	18.4	50	ese.			2	c	0	ese.		0	0		M. Postel, Director.
Brest, Naval Observatory	29.66	753.4	29.91	759.6	58.3	14.6	72	s.			1		9		s.	0.039	1.0		M. de Kermaree, Dir.
Caen, Normal School	29.90	759.5	29.98	761.4	64.8	18.2	52	s.			1		5		ssw.	0.047	1.2	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.68	753.9	30.00	762.0	64.4	18.0	53	s.			3		0			0.008	0.2	clear	M. Jadot, Director.
Charleville, Normal School	29.54	750.3	30.04	763.1	63.3	17.4	37	ssw.			1		5		ne.	0	0	½ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.64	727.4	29.96	760.9	67.1	19.5	54	se.			2		2		s.	0.071	1.8	¼ covered	M. Allnard, Director.
Cluny, Normal School	29.22	742.2	30.06	763.6	60.8	16	72	n.			1		5			0.165	4.2		M. de Villemontée, Dir.
Commercy, Normal School	29.20	741.6	30.06	763.5	64.9	18.3	50	se.			1		2 k	se.	se.	0	0	slightly cld'y	Dr. Coulet, Director.
Gap, Normal School	27.50	698.6	29.98	761.6	62.6	17	61	s.			1	c	2 k		s.	0.295	7.5		M. Jeangirard, Director.
Gréasque, du. Rhone	28.90	734.0	29.99	761.8	68.0	20.0	57	s.			1		9		s.	0.110	2.8		M. Kina, Director.
Grenoble, Normal School	29.27	743.5	30.03	762.8	60.4	15.8	79	se.			1		kn	sw.	s.	1.008	25.6		M. Ablard, Director.
Guéret, Normal School	28.38	720.8	29.94	760.4	63.7	17.6	53	se.			1	ck	0	s.		0	0		M. Rivoire, Director.
Lamballe, Normal School	29.66	753.3	29.93	760.2	58.3	14.6	47	se.			1		5		se.	0.12	3.	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.32	744.8	29.88	758.9	69.4	20.8	57	e.			3	o	0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	29.82	757.4	29.92	760.0	59.0	15.0	58	se.			2		10			0	0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.98	736.2	30.03	762.7	62.8	17.1	66	sse.			1		2 n		se.	0.276	7.0	clear	M. André, Director.
Mans, Normal School	29.69	754.2	30.00	762.0	60.1	15.6	44	se.			4		8		s.	0	0	very cloudy	M. Piboen, Director.
Marseille, Observatory	29.73	755.2	30.00	762.0	70.0	21.1	56	wsw.			1.2		1		e.	0.110	2.8		M. Stephan, Director.
Montlouis l'Instituteur	24.79	629.6	29.63	752.6	55.0	12.8	47	sw.	15.0	6.7			2		w.	0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.86	758.4	29.98	761.6	69.1	20.6	76	se.			2		5			0.465	11.8	cloudy	M. Gaizin, Director.
Nancy, Normal School	29.22	742.2	29.99	761.8	61.5	16.4	58	n.			1		k		se.	0.051	1.3		M. Hasse, Director
Nantes, Observatory	29.84	757.9	30.00	762.0	64.6	18.1	38	ese.			1–3	c	9 k			0	0		M. Larocque, Director.
Perpignan, Observatory	29.88	758.9	29.98	761.6	64.6	18.1	62	s.	13.0	5.8			3		sw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.16	537.5			35.2	1.8		w.			1		5		w.	0	0	cloudy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.95	735.3	30.00	761.9	64.0	17.8	72	s.			1		3 k	sw.	s.	0.16	4.	cloudy	M. Tallien.
Puy de Dôme Obs'y, Summit	25.13	638.4			43.7	6.5	99	s.			4		5		s.	0.059	1.5	½ covered	M. Allnard, Director.
Rochefort, Naval Obs'y	29.90	759.5	29.93	760.3	65.7	18.7	100	se.			1		5		ssw.	0	0	½ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.71	754.5	29.91	759.8	61.5	16.4	50	se.			1		10			0	0	covered	M. Mouillot, Director.
Rodez, Normal School	27.80	706.0	29.91	759.6	59.7	15.4	78	n.			1		2			0	0	slightly cl'dy	M. Serger, Director.
Rouen, Normal School	29.91	759.6	29.95	760.8	60.1	15.6	49	sse.			1		2		se.	0.177	4.5	slightly cl'dy	M. Brotier.
Saint Maur, Observatory	29.87	758.7	30.04	762.9	62.6	17.0	42	sse.			1	1	1	wsw.	sse.	0	0		M. Renou, Director.
Toulouse, Observatory	29.27	743.4	29.99	761.8	67.1	19.5	61	se.			3		2	nw.		0	0	slightly cl'dy	M. Baillaud, Director.
Tours	29.87	758.6	30.04	763.0				se.			1		2	s.	se.	0	0	slightly cl'dy	
Versailles, Observatory	29.54	750.3	30.03	762.8	61.5	16.4	37	s.			2					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.75	755.7	30.04	763.1	61.5	16.4	40	s.			1		2	wsw.		0	0		M. Marié Davy, Director
GERMAN.																			
Bamberg	29.26	743.1	30.11	764.8	57.7	14.3	60	sw.			2	o	5 ks		w.	0.28	7.		Prof. Dr. Hoh.
Berlin	29.96	761.0	30.13	765.4	58.6	14.8	55	sw.			1		10			0	0		Prof. Dr. Arndt.
Breslau	29.50	749.3	30.03	762.8	64.8	18.2	57	ne.			4		8			0	0		Royal University Obs'y.
Carlsruhe	29.69	754.0	30.12	765.1	60.3	15.7	68	sse.			1		9	sw.		0	0		Albert Senz.
Cassel	29.34	745.1	30.05	763.2	60.1	15.6	48	sw.			1		9	sw.		0.004	0.1		Dr. H. Möhl.
Frankfort on the Main	29.64	752.9	30.00	762.1	63.5	17.5	62	ssw.			1		9			0	0		Physical Society.
Friedrichshafen	28.69	728.6	30.12	765.1	54.9	12.7	91	ssw.			1		10	wsw.		0	0		Wilhelm, Chief Tel.
Hamburg	30.02	762.5	30.11	764.9	57.9	14.4	57	ssw.			1		3	sw.		0.004	0.1		E. Preller.
Kiel	30.07	763.7	30.08	764.1	55.9	13.3	62	s.			1		4			0.028	0.7		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.70	754.4	30.12	765.1	54.1	12.3	73	e.			1		10			0.051	1.3		H. Leppig, Asst.
Magdeburg	29.94	760.4	30.13	765.2	58.3	14.6	62	sse.			1		10 ks		s.	0	0		Dr. Assmann.
Memel	30.15	765.8	30.20	767.0	45.3	7.4	68	nw.			3		10					covered	Issermann.
Munich	28.31	719.0	30.18	766.5	49.5	9.7	84	calm			0		10	n.		0.201	5.1	light rain	Central Station.
Neufahrwasser	30.19	766.8	30.21	767.2	46.6	8.1	81	n.			2		10			0	0		A. Lothes.
Neustadt, Palatinate	29.60	751.8	30.13	765.2	60.4	15.8	71	calm			0		8			0	0		Dicknether.
Stuttgart	29.17	740.9	30.06	763.6	56.3	13.5	81	s.					10			0.075	1.9		Prof. Dr. Schoder.
Wustrow	30.13	765.2	30.15	765.8	55.9	13.3	75	e.			1		10 s			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.78	756.3			76.1	24.5		sw.			2.0		1 k			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.68	753.9	29.73	755.2	84.0	28.9	82	wsw.	40.0	17.9			2		sw.	0	0	misty	
Deesa	29.13	740.0	29.59	751.5	101.8	38.8	27	sw.	10.0	4.5			2		ssw.	0	0	d. clouds	
Bombay	29.73	755.2	29.77	756.1	87.0	30.6	56	w.	10.0	4.5			0			0	0	blue sky	
Poona, Yarrowda.	27.89	708.4	29.69	754.1	92.5	33.6	14	w.	23.0	10.3			1	w.		0	0	d. clouds	
Bellary	28.21	716.4	29.61	752.0	102.2	39.0	16	sw.	8.8	3.9			4			0	0	d. clouds	
Belgaum	27.25	692.1	29.73	755.1	86.4	30.2	49	sw.	11.0	4.9			0			0	0	misty	
Lahore	28.81	731.7	29.52	749.7	97.2	36.2	16	w.	3.9	1.7			4			0	0	blue sky	
Roorkee	28.60	726.5	29.46	748.4	96.3	35.7	8	nw.	4.1	1.8			4			0	0		
Agra	28.99	736.2	29.52	749.9	101.9	38.8	11	nw.	5.2	2.3			3		nw.	0	0		
Nagpur	28.57	725.6	29.56	750.8	101.5	38.6	14	w.	6.5	2.9			6		w.	0	0	d. clouds	
Jubbulpore	28.26	717.8	29.56	750.8	100.1	37.8	6	w.	5.9	2.6			0			0	0	blue sky	
Lucknow	29.15	740.4	29.51	749.5	101.4	38.6	16	wnw.	3.8	1.7			8			0	0	d. clouds	
Allahabad	29.20	741.7	29.50	749.3	100.6	38.1	10	nw.	3.6	1.6			1		w.	0	0	d. clouds	
Patna	29.34	745.2	29.52	749.7	99.5	37.5	12	wnw.	5.1	2.3			0			0	0	blue sky	
Hazaribagh	27.58	700.6	29.51	749.5	96.8	36.0	14	nw.	9.3	4.2			0			0	0	misty	
Cuttack	29.52	749.9	29.60	751.9	88.1	31.2	62	ssw.	7.7	3.4			8			0.10	2.5	d. clouds	
Calcutta, Alipore	29.51	749.6	29.53	750.1	90.3	32.4	65	s.	11.0	4.9			1		sw.	0	0	d. clouds	
Dhubri	29.38	746.1	29.49	749.1	81.4	27.4	71	ssw.	7.6	3.4			0			0.48	12.2	blue sky	
Chittagong	29.60	751.7	29.69	754.0	75.6	24.2	83	se.	6.6	3.0			3			0	0	blue sky	
Sibsagar	29.26	743.1	29.59	751.6	75.6	24.2	82	ne.	4.7	2.1			6	sw.	sw.	0.48	12.2	d. clouds	
Jeypore	28.13	714.5	29.51	749.6	96.9	36.1	15	nw.	5.7	2.6			7		w.	0	0	d. clouds	
Zanzibar, Africa	29.88	758.9			77.6	25.3	87	calm	2.7	1.2			8			0.35	8.9	gloomy	
ITALIAN.																			
Udine	29.73	755.1	30.13	765.3	69.1	20.6	71	calm	0	0			7			0	0		Prof. Giovanni Clodig.
Milan	29.61	752.0	30.12	765.0	60.4	15.8	73	ne.	6.3	2.8			9	ssw.		0.063	1.6		Prof. Schiaparelli.
Padua	30.02	762.4	30.13	765.2	64.8	18.2	68	ene.	8.1	3.6			9	wsw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.24	742.7	30.14	765.5	58.5	14.7	77	nw.	1.3	0.6			10			0.043	1.1		Prof. P. F. Denza.
Genoa	29.93	760.2	30.12	765.1	64.0	17.8	55	n.	3.1	1.4			10	sw.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.22	716.7	30.14	765.6	54.5	12.5	85	nw.			2		9			0.161	4.1		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Pesaro	30.01	762.3	30.02	762.5	64.2	17.9	76	se.	4.3	1.9			10	wnw.		0	0		Prof. Luigi Guidi.
Florence	29.83	757.7	30.08	764.0	75.6	24.2	33	sw.			2		5	sw.		0	0		Prof. Costantino Pitter.
Leghorn	29.91	759.7	30.00	761.9	69.4	20.8	52	se.	4.3	1.9			10			0	0		Prof. P. Monte.
Rome	29.91	759.6	30.08	763.9	78.1	25.6	30	s.	17.4	7.8			7			0	0		Prof. P. S. Ferrari.
Lecce	29.92	759.9	30.16	766.1	73.4	23.0	31	ssw.	12.5	5.6			0			0	0		Prof. O. de Giorgi.
Cosenza	29.26	743.1	30.13	765.2	72.7	22.6	78	ese.	3.8	1.7			5	se.		0	0		Prof. D. Conti.
Cagliari	29.77	756.1	29.92	760.0	68.5	20.3	72	se.			4		8			0	0		Prof. A. Pacinotti.
Palermo	29.84	†757.9	30.09	764.2	†84.7	†29.3	85	ne.	3.1	1.4			7			0	0		Prof. G. Ciaccialatore.
Syracuse	30.10	764.4	30.14	765.5	70.9	21.6	53	sw.	14.3	6.4			3	sw.		0	0		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.61	752.0	30.11	764.8	74.8	23.8	37	sw.	6.3	2.8			10			0	0		Prof. T. Brioschi.
Stelvio	22.25	565.1			36.7	2.6	100	w.			6		10			0.366	9.3	covered	Prof. P. F. Denza.
Valdobbia	22.26	565.5			42.1	5.6	73	e.			2		10			0.394	10.0	covered	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.97	761.2	30.00	762.0	48.0	8.9	86	w.	3.5	1.6		0	0			0	0	clear	K. Ogawa.
Hakodate	30.00	762.0	30.01	762.2	41.0	5.0	92	calm	0	0			0			0	0	clear	
Hiroshima, I. M. Obs'y	29.95	760.7	29.96	761.0	58.8	14.9	81	wsw.	1.7	0.8		0	0			0	0	clear	J. Sogawa.
Kanazawa	29.92	759.9	30.02	762.5	51.1	10.6	82	ese.	5.1	2.3		0	0			0	0	clear	S. Endo.
Kioto	29.83	757.7	30.00	762.0	54.7	12.6	70	sse.	2.1	0.9		0	0			0	0	clear	M. Tojima.
Kochi	30.02	762.5	30.04	763.0	63.0	17.2	84	nw.	2.9	1.3		0	0			0	0	clear	K. Kusunose.
Nagasaki, I. M. Obs'y	29.77	756.1	29.97	761.2	61.5	16.4	80	sw.	0.6	0.3		0	0			0	0	clear	S. Takehayashi.
Niigata	30.00	762.0	30.04	763.0	51.2	10.7	87	n.	1.7	0.8		2 ck	0			0	0	fair	M. Morita.
Nobiru	30.00	762.0	30.02	762.5	45.9	7.7	92	nw.	3.8	1.7		0	0			0	0	clear	H. Midzushima.
Sapporo					46.4	8.0	86	nw.	3.0	1.3			4			0	0	clear	
Tokei Obs'y, Yeddo	29.96	761.0	30.03	762.7	59.4	15.2	96	se.	1.8	0.8		3 ck	0	sse.		0	0	fair	The Staff.
Wakayama	29.95	760.7	30.00	762.0	60.7	15.9	68	ese.	2.0	0.9		0	0			0	0	clear	Y. Kuwamura.
MAURITIUS.																			
Mauritius Observatory	29.83	757.7	30.02	762.5	77.0	25.0	57	e.	16.	7.2		1 cs	1 k			0	0	clear	Oliver & Figon.
MEXICAN.																			
Guanajuato																0	0		Prof. Vicente Fernandez.
Leon	24.29	617.0	30.01	762.2	57.2	14.0	78	n.			1	2 c	2 s	sw.	ne.	0	0	dense fog	Prof. M. Leal.
Mazatlan	29.75	755.6	30.01	762.2	68.5	20.3	97	n.	0.9	0.4		6 ck	0	sw.				hazy	F. Quijano, C. E.
Mexico, Central Obs'y	23.20	589.3	30.28	769.1	51.1	10.6	75	calm	0	0		0	0			0	0	fine	The Staff.
Morelia	24.26	616.2	30.32	770.2	63.7	17.6	82	se.			1	2	1	s.	s.	0	0		M. Tena, M. D.
Pabellon, Aguascalientes	24.08	611.6	30.09	764.2	57.7	14.4	78	n.			1	1 cs	0			0	0	clear	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.43	595.2	30.29	769.3	47.8	8.8	98	calm	0	0		0	0			0.008	0.2	clear	Prof. P. Spina.
San Luis Potosi	24.13	613.0	30.06	763.4	56.5	13.6	73	e.			1	1	5	w.	w.	0	0	½ clouded	G. Barroeta, M. D.
Zacatecas	22.60	573.9	29.95	760.7	52.1	11.2	75	ne.	4.6	2.0		0	0			inap.	inap.	clear	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.04	763.1	30.04	763.1	59.4	15.2		sw.			4					0.039	1.0		
Groningen	29.99	761.8	30.05	763.2	58.1	14.5		s.			2					0	0		
Helder	30.02	762.5	30.02	762.5	54.0	12.2		sw.			4					0	0		
Hellevoetsluis	30.03	762.7	30.03	762.7	61.5	16.4	57	ssw.			2					0.071	1.8		
Utrecht	30.00	762.0	30.05	763.2	62.8	17.1	57	ssw.			2		2			0	0	lightly cl'dy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.80	756.9	29.86	758.5	42.8	6.0	56	s.	27	12			7			0.260	6.6	raining	
Brono	29.80	756.8	29.84	757.8	45.7	7.6	80	sw.	18	8			8			0.150	3.8		
Christiania	29.86	758.5	30.01	762.2	52.0	11.1	61	sw.	11	5			8			0.106	2.7		
Gjæsvær	29.43	747.5	29.45	748.1	36.7	2.6		sw.			8		10						
Lodingen	29.63	752.5	29.67	753.7	39.9	4.4	87	wsw.			4–6		8			0.087	2.2		
PORTUGUESE.																			
Angra, Azores					59.4	15.2	73	nnw.	16.8	7.5			3			0	0		Dr. J. A. Sampaio.
Campo Major	28.95	735.4	29.94	760.4	63.7	17.6	28	ssw.	8.1	3.6			9			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.04	762.9	30.12	765.1	64.4	18.0	72	wsw.					7			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.61	752.0	29.97	761.2	51.4	10.8	92	wsw.	16.8	7.5			10			0.098	2.5	raining	The Staff.
Ponta Delgada, Azores	30.21	767.2	30.28	769.0	63.0	17.2	53	nne.	13.6	6.1			4			0.020	0.5		
Saint Paul de Loando	29.70	754.3	29.90	759.4	82.0	27.8	87	w.	1.3	0.6			2	ese.		0	0		
Serra da Estrella	25.09	637.3	29.84	757.9	43.3	6.3	66	se.	12.5	5.6			8			0	0	foggy	
RUSSIAN.																			
Akmolinski	28.74	730.1	29.84	757.8	40.5	4.7	81	n.	16	7			10 n			0.004	0.1		Major K. Lasarew.
Archangel	30.04	763.1	30.06	763.6	50.9	10.5	52	ssw.	4	2		0	7 ks			0.063	1.6		Capt. Sseliwerstow.
Astrakhan	29.77	756.1	29.69	754.0	64.0	17.8	57	sse.	9	4		c	7 ks			0.035	0.9	light clouds	Capt. Wisganow.
Barnaul	29.15	740.3	29.63	752.6	57.4	14.1	42	wsw.	13	6			5 k			0.039	1.0		Meteorological Obs'y.
Dorpat	29.74	755.3	29.98	761.4	59.2	15.1	65	wnw.	16	7		2 cs	0			0	0		Observatory.
Ekaterinburg	29.22	742.3	30.18	760.6	57.6	14.2	22	nw.	4	2		2 cs	0			0	0	light clouds.	Meteorological Obs'y.
Kasan	29.98	761.6	30.25	768.4	59.5	15.3	40	ene.	4	2		0	1			0	0		Observatory.
Kertch	29.82	757.3	29.84	757.8	59.4	15.2	70	nnw.	13	6		0	2 s			0	0		Lagorio & Sastyrez.
Kieff	29.43	747.6	30.05	763.2	69.3	20.7	28	ne.	2	1		1 c;cs	0			0	0	light clouds	Observatory.
Lugan	29.70	754.3	29.90	759.4	58.3	14.0	84	ene.	13	6			10			0.102	2.6		Meteorological Obs'y
Moscow	29.62	752.4	30.08	764.0	70.3	21.3	33	ssw.	4	2			4 ks						Meteorological Obs'y.
Nikolaiev	29.95	760.6	30.02	762.4	74.3	23.5	30	nne	31	14		0	0			0	0		Capt. Kurdakow.
Nikolatievsk, on the Amoor	30.08	763.9	30.16	766.1	33.8	1.0	92	calm	0	0			10			0.126	3.2	rain & snow	Lieut. Iwanow.
Pekin, China	29.59	751.5	29.73	755.1	66.4	19.1	59	se.	6	3		0	4 ks					thnd'r storm	Physical Observatory
St. Petersburg	29.87	758.8	29.89	759.2	63.9	17.7	51	s.	18	8			10 n			0	0		Central Physical Obs'y.
Semipalatinsk	29.13	740.0	29.79	756.7	51.1	10.6	81	nw.	22	10			10 n			0.004	0.1		Major Lasareu.
Tashkend, Laboratory	28.47	723.2	30.00	762.0	69.4	20.8	48	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.35	720.1	29.73	755.1	65.3	18.5	47	wnw.	22	10		0	9 ks			0.028	0.7		Physical Observatory
Vladivostock	29.85	758.2	29.92	759.9	45.7	7.6	68	e.	2	1			0			0	0		
Warsaw	29.62	752.3	30.03	762.7	71.8	22.1	43	nne.	7	3			10 ks						Astronomical Obs'y.
Wilna	29.67	753.5	30.08	763.9	68.2	20.1	55	nw.	4	2			8			0.083	2.1	light clouds	Berg, Assistant.
Yeniseisk	29.54	750.4	29.84	757.8	43.2	6.2	39	ese.	13	6			10			0	0	light clouds	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.88	758.9	29.98	761.6	65.5	18.6	67	s.	4.7	2.1			1			0.043	1.1	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.78	756.3	29.84	757.8	74.5	23.6	34	sw.	1.8	0.8		1	8	se.		0	0	almost cov'd	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.95	684.5	29.84	758.0	64.4	18.0	28	sw.	6.0	2.7			4			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.71	703.8	29.87	758.8	68.9	20.5	23	sw.	13.6	6.1		2	0	sw.		0	0	light clouds	The Staff.
Murcia, Met. Obs'y	29.81	757.1	29.95	760.8	74.7	23.7	61	sw.	3.4	1.5		2	3	nne.		0	0	clouds	Olayo Diaz, Director.
Santiago, Met. Obs'y	28.80	731.6	29.71	754.5	49.8	9.9	83	s.	18.6	8.3			10			0.075	1.9	raining	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	30.06	763.5	30.12	765.2	75.8	24.3	86	ene.	0	0		4 c;ck	k			0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.83	757.6	29.89	759.1	84.9	29.4	71	ssw.	4.8	2.1		1 c	2 ks		sw.	0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.9	760.9	30.06	763.4	63.0	17.2	59	w.	2.1	0.9		0	3		w.	0.063	1.6		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.04	762.9	30.13	765.2	78.8	26.0	84	calm	0	0		2 cs	3 kn	e.	e.	0.008	0.2	cloudy	Manuel Maese.
Tuguegarao, Philippine Id's	29.79	756.7	29.92	760.0	76.0	24.4	90	nw.	2.3	1.0			9 ks		nnw.	0.14	3.6	covered	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.85	758.1	29.89	759.1	39.2	4.0	87	s.			2		5			0	0		
Umea	29.84	757.9	29.89	759.2	47.1	8.4	76	sw.			2		10			0	0		
Hernosand	29.78	756.5	29.84	757.8	49.3	9.6	64	ssw.			2		4			0	0		
Stockholm	29.82	757.5	30.00	762.0	52.2	11.2	63	w.			6		2			0.472	12.0		
Wisby	30.02	762.5	30.08	764.0	46.4	8.0	78	wnw.			4		7			0.047	1.2		
Sub-series.																			
Upsala	29.85	758.1	29.93	760.3	56.1	13.4	55	w.	11.4	5.1			3		wnw.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.64	727.5	30.06	763.6	55.0	12.8	68	n.			2					1.095	27.8	clouds	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
TURKISH.																			
Constantinople	.....	.....	30.06	763.4	68.9	20.5	58	sw.	7	3.0	.....	.....	0	.....	.....	0	0	.....	The Observatory.
Valona	.....	.....	30.27	768.9	74.5	23.6	.....	sw.	.....	.....	1	.....	0	.....	.....	0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.92	760.0	69.1	20.6	69	w.	.....	.....	1	0	4 ks	.....	sw.	0.54	13.7	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.88	758.9	29.96	761.0	45	7.2	68	nw.	14	6.3	.....	.....	10 s	.....	nw.	0	0	threatening.	J. O. Barnes.
Alpena, Michigan	29.61	752.1	30.27	768 8	31	— 0.6	68	nw.	12	5.4	.....	0	r	.....	.....	inap.	inap.	clear	Jas. J. Fitzgerald.
Atlanta, Georgia	29.06	738.1	30.23	767.8	56.0	13.3	57	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	H. Hall.
Atlantic City, New Jersey	29.99	761.7	30.00	762.0	52.4	11.3	90	sw.	7	3.1	.....	9 ck	0	w.	.....	0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	30.03	762.7	30.22	767.6	59	15.0	81	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	John Healy.
Baltimore, Maryland	30.01	762.2	30.06	763.5	54	12.2	55	w	6	2.7	.....	hz.	2 ks	.....	w.	0	0	clear	Robert Seyboth.
Barnegat, New Jersey	29.97	761.2	29.99	761.7	52.7	11.5	87	sw.	11	4.9	.....	3 k	4 k	w.	w.	0	0	fair	Chas. F. Merritt.
Bismarck, Dakota	28.18	715.8	29.96	761.0	38	3.3	64	se.	10	4.5	.....	0	0	.....	.....	0	0	clear	Cyrus Cramer.
Boise City, Idaho	26.93	684.0	29.77	756.1	52	11.1	69	w.	2	0.9	.....	2 k	4 s	sw.	sw.	0	0	fair	B. E. Light.
Boston, Massachusetts	29.75	755.6	29.91	759.7	53.0	11.7	55	sw.	12	5.4	.....	2 ck	0	.....	.....	0	0	clear	O. B. Cole.
Brownsville, Texas	30.09	764.3	30.13	765.3	71	21.7	90	calm	0	0	.....	.....	10 s	.....	.....	0.07	1.8	cloudy	M. McCarty.
Buffalo, New York	29.41	747.0	30.15	765.8	30.8	— 0.7	57	w.	21	9.4	.....	3 k	0	w.	.....	0.53	13.5	clear	Wm. Finn.
Burlington, Vermont	29.60	751.8	29.89	759.2	42.3	5.7	67	nw.	7	3.1	.....	.....	10 s	.....	w.	0.01	0.3	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.95	760.7	30.35	770.9	53.6	12.0	74	ne.	10	4.5	.....	.....	10 ks	.....	w.	0	0	threatening.	W. H. Ray.
Campo, California	27.43	696.7	29.96	761.0	47.3	8.5	77	sw.	4	1.8	.....	0	4 s	.....	w.	0	0	fair	W. H. Clendenon.
Camp Thomas, Arizona	27.17	690.1	29.84	757.9	59.5	15.3	41	calm	.....	.....	0	6 cs	0	.....	.....	0	0	fair	J. T. Fitzgerald.
Cape Henry, Virginia	30.10	764.5	30.12	765.0	59	15.0	65	w.	12	5.4	.....	4 c	0	w.	.....	0	0	fair	J. E. Lanouette.
Cape May, New Jersey	29.99	761.7	30.02	762.5	53	11.7	86	sw.	13	5.8	.....	5 k	0	sw.	.....	0	0	fair	W. Bolten.
Cedar Keys, Florida	30.14	765.5	30.16	766.1	68	20.0	84	n.	5	2.2	.....	9 cs	0	.....	.....	0	0	cloudy	F. W. Mixer.
Champaign, Illinois	29.52	749.8	30.32	770.1	37.0	2.8	72	ne.	12	5.4	.....	0	0	.....	.....	0.03	0.8	clear	L. A. Welsh.
Charleston, S. Carolina	30.12	765.0	30.17	766.3	70	21.1	84	sw.	2	0.9	.....	5 k	0	sw.	.....	0	0	fair	J. H. Smith.
Charlotte, N. Carolina	29.32	744.7	30.16	766.1	58.0	14.4	65	w.	3	1.3	.....	0	fg	.....	.....	0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.43	747.5	30.24	768.1	52.0	11.1	66	w.	6	2.7	.....	1 cs	0	w.	.....	0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	23.99	609.3	29.86	758.4	40.2	4.6	76	sw.	4	1.8	.....	10 cs	0	w.	.....	0	0	cloudy	E. McGovern.
Chicago, Illinois	29.64	752.8	30.34	770.6	40.3	4.6	56	e.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. Mitchell.
Chincoteague, Virginia	30.05	763.3	30.07	763.8	58	14.4	64	w.	14	6.3	.....	2 c	fg.	.....	.....	0	0	clear	V. P. Temple.
Cincinnati, Ohio	29.63	752.6	30.28	769.1	46	7.8	60	n.	12	5.4	.....	0	0	.....	.....	0.01	0.3	clear	R. B. Watkins.
Cleveland, Ohio	29.54	750.3	30.27	768.8	34.7	1.5	68	nw.	12	5.4	.....	0	5 k	.....	nw.	0.15	3.8	fair	J. B. Newlin.
Coleman City, Texas	28.30	718.8	30.09	764.3	57	13.9	86	s.	2	0.9	.....	0	6 s	.....	s.	0	0	fair	L. Dorman.
Columbus, Ohio	29.40	746.7	30.24	768.1	41	5.0	65	n.	12	5.4	.....	0	0	.....	.....	0.01	0.3	clear	D. Cuthbertson.
Concho, Texas	28.16	715.3	30.06	763.5	58	14.4	87	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	W. W. McConihe.
Davenport, Iowa	29.69	754.1	30.33	770.4	40	4.4	48	n.	2	0.9	.....	0	sk.	.....	e.	0	0	clear	R. R. Martin.
Dayton, Washington T'y	27.94	709.7	29.69	754.1	50.5	10.3	82	sw.	5	2.2	.....	7 c	3 k	sw.	sw.	0	0	cloudy	H. Clifford.
Deadwood, Dakota	25.24	641.1	29.75	755.6	44	6.7	71	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	D. J. Carr.
Delaware Breakwater, Del.	30.03	762.7	30.05	763.3	52	11.1	86	sw.	12	5.4	.....	5 ck	hz.	w.	.....	0	0	fair	A. Schneider.
Denison, Texas	29.35	745.5	30.14	765.5	62.0	16.7	77	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. McGlone.
Denver, Colorado	24.67	626.6	29.83	757.7	52.0	11.1	59	w.	2	0.9	.....	.....	10 s	.....	calm	0	0	cloudy	F. M. Neal.
Des Moines, Iowa	29.44	747.8	30.33	770.4	36	2.2	69	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	F. W. Conrad.
Detroit, Michigan	29.60	751.8	30.30	769.6	34.2	1.2	61	nw.	11	4.9	.....	0	0	.....	.....	0.12	3.0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.49	698.2	30.04	763.0	51.0	10.6	100	se.	16	7.2	.....	.....	10 s	.....	.....	0.04	1.0	cloudy	E. A. Thomas.
Dubuque, Iowa	29.63	752.6	30.33	770.4	34.8	1.6	58	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.55	750.6	30.25	768.3	32	0.0	60	calm	0	0	.....	0	0	.....	.....	0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.33	745.0	30.13	765.3	70.0	21.1	90	se.	6	2.7	.....	.....	10 s	.....	se.	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.10	637.5	29.78	756.4	44	6.7	65	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. M. Clifford.
Eastport, Maine	29.84	757.9	29.91	759.7	46.5	8.1	72	s.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. H. Melton.
El Paso, Texas	26.28	667.5	29.92	760.0	56	13.3	74	ne.	1	0.4	.....	3 ck	0	nw.	.....	0	0	fair	J. F. Marshall.
Erie, Pennsylvania	29.51	749.5	30.23	767.8	33	0.6	68	nw.	20	8.9	.....	.....	10 k	.....	nw.	0.54	13.7	cloudy	R. H. Paxton.
Escanaba, Michigan	29.63	752.6	30.29	769.4	28	— 2.2	77	w.	4	1.8	.....	0	0	.....	.....	0.03	0.8	clear	C. Dill.
Fort Apache, Arizona	24.97	634.2	29.79	756.7	47	8.3	48	e.	3	1.3	.....	0	3 s	.....	calm	0	0	clear	W. O. Barnes.
Fort Assinnaboine, Montana	26.94	684.3	29.78	756.4	36	2.2	72	calm	0	0	.....	1 c	0	.....	.....	0	0	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.43	722.1	29.99	761.7	44	6.7	63	se.	10	4.5	.....	0	0	.....	.....	0	0	clear	A. Pritchard.
Fort Benton, Montana	26.96	684.8	29.75	755.6	35	1.7	66	calm	0	0	.....	0	0	.....	.....	0	0	clear	G. W. Davis.
Fort Buford, Dakota	27.91	708.9	29.89	759.2	33	0.6	71	ne.	9	4.0	.....	0	0	.....	.....	0	0	clear	A. H. Bell.
Fort Custer, Montana	26.63	676.4	29.73	755.1	37	2.8	64	sw.	8	3.6	.....	0	3 s	.....	calm	0	0	clear	V. Verge.
Fort Davis, Texas	25.23	640.8	29.95	760.7	58	14.4	78	s.	4	1.8	.....	0	0	.....	.....	0.02	0.5	clear	J. Williams.
Fort Elliott, Texas	27.31	693.7	30.01	762.2	54	12.2	69	se.	12	5.4	.....	8 k	0	se.	.....	1.19	30.2	cloudy	W. J. Cundall.
Fort Gibson, Indian T'y	29.62	752 3	30.18	766.6	57.5	14.2	93	e.	6	2.7	.....	.....	10 n	.....	s.	0.34	8.6	light rain	J. B. Campbell.
Fort Grant, Arizona	25.25	641.3	29.86	758.4	59.9	15.5	35	e.	5	2.2	.....	3 cs	0	.....	.....	0	0	clear	T. J. Macgowan.
Fort Keogh, Montana	27.32	693.9	29.77	756.1	38	3.3	72	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. B. Stockman.
Fort Macon, North Carolina	30.15	765.8	30.16	766.1	65	18.3	84	w.	4	1.8	.....	hz.	0	calm	.....	0	0	clear	L. Leonardy.
Fort McKavett, Texas	27.89	708.4	30.13	765.3	64	17.8	70	se.	7	3.1	.....	.....	10 s	.....	s.	0	0	cloudy	J. E. Thatcher.
Fort Missoula, Montana	26.48	672.6	29.78	756.4	40	4.4	82	w.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	J. H. Jones.
Fort St. Michaels, Alaska	29.80	756.9	29.84	757.9	22	— 5.6	93	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	A. P. Leavitt.
Fort Shaw, Montana	26.11	663.2	29.71	754.6	34	1.1	65	w.	7	3.1	.....	1 cs	0	.....	.....	0	0	clear	A. L. Mathews.
Fort Sill, Indian Territory	28.90	734.0	30.12	765.0	61	16.1	81	calm	0	0	.....	5 c	5 s	w.	se.	0	0	cloudy	T. Cleary.
Fort Stevenson, Dakota	28.12	714.2	29.95	760.7	33	0.6	88	e.	5	2.2	.....	0	0	.....	.....	0	0	clear	W. Burrows
Fort Verde, Arizona	.....	.....	.....	.....	57.2	14.0	60	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.28	616.7	.....	.....	39.0	3.9	73	w.	2	0.9	.....	1 c	4 k	.....	.....	0	0	fair	T. M. Ambler.
Fredericksburg, Texas	28.39	721.1	30.11	764.8	65	18.3	93	sw.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	H. S. Miles.
Galveston, Texas	30.16	766.1	30.20	767.1	70	21.1	75	s.	6	2.7	.....	3 c	0	.....	.....	0	0	clear	E. O'C. MacInerney.
Grand Haven, Michigan	29.67	753.6	30.33	770.4	34.5	1.4	62	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. A. Reid.
Hatteras, North Carolina	30.15	765.8	30.17	766.3	65	18.3	90	sw.	9	4.0	.....	hz.	sk.	.....	.....	0	0	clear	R. M. Crawford.
Helena, Montana	25.59	650.0	29.76	755.9	42	5.6	62	calm	0	0	.....	5 ck	0	.....	.....	0	0	fair	S. Wheaton.
Henrietta, Texas	29.17	740.9	30.15	765.8	60.0	15.6	75	se.	6	2.7	.....	7 c	0	.....	.....	0	0	fair	J. W. Byram
Huron, Dakota	28.76	730.5	30.11	764.8	37.3	2.9	72	se.	16	7.2	.....	2 k	3 ks	w.	.....	0	0	fair	S. W. Glenn.
Indianapolis, Indiana	29.52	749.8	30.31	769.9	41	5.0	57	ne.	9	4.0	.....	0	0	.....	.....	0.04	1.0	clear	O. Schutze
Indianola, Texas	30.16	766.1	30.18	766.6	73.4	23.0	84	se.	12	5.4	.....	3 cs	1 ks	nw.	s.	0	0	fair	I. A. Reed.
Jacksboro, Texas	28 96	735.6	30.11	764.8	62	16.7	78	se.	6	2.7	.....	5 c	0	w.	.....	0	0	fair	J. P. Sherry.
Jacksonville, Florida	30.12	765.0	30.16	766.1	70	21.1	84	se.	3	1.3	.....	4 cs	0	w.	.....	0	0	fair	J. W. Smith.
Keokuk, Iowa	29.65	753.1	30.30	769.6	43.0	6.1	71	calm	0	0	.....	0	0	.....	.....	0	0	clear	F. Z. Gosewisch
Key West, Florida	30.11	764.8	30.13	765.3	79.0	26.1	79	calm	0	0	.....	1 cs	3 s	sw.	.....	1.47	37.3	fair	L. M. Melbourne.
Kittyhawk, North Carolina	30.15	765.8	30.17	766.3	60.5	15.8	87	w.	10	4.5	.....	6 c;k	0	nw;w	.....	0	0	fair	E. A. Beals.
Knoxville, Tennessee	29.21	741.9	30.23	767.8	48.8	9.3	82	calm	0	0	.....	8 cs	0	w.	.....	0	0	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.53	750.0	30.29	769.4	37.5	3.1	61	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	S. C. Emery.
La Mesilla, New Mexico	26.11	663.2	29.87	758.7	51.3	10.7	49	calm	0	0	.....	0	9 s	.....	.....	0	0	cloudy	N. D. Lane.
Leavenworth, Kansas	29.40	746.7	30.28	769.1	46	7.8	54	se.	6	2.7	.....	0	0	.....	.....	0.07	1.8	clear	A. W. Browne.
Lewiston, Idaho	28.78	731.0	29.62	752.3	57.2	14.0	69	se.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	J. M. Burlew.
Little Rock, Arkansas	29.94	760.5	30.24	768.1	58	14.4	81	ne.	4	1.8	.....	0	9 s	.....	calm	0	0	cloudy	W. U. Simmons.
Los Angeles, California	29.64	752.8	30.04	763.0	55.1	12.8	86	ne.	1	0.4	.....	0	6 s	.....	sw.	0.02	0.5	fair	E. F. Kubel.
Louisville, Kentucky	29.70	754.4	30.25	768.3	49	9.4	50	n.	8	3.6	.....	0	0	.....	.....	0	0	clear	H. C. Smyth.
Lynchburg, Virginia	29.43	747.5	30.11	764.8	56.0	13.3	45	sw.	1	0.4	.....	2 ck	4 s	w.	.....	0	0	fair	W. R. Bushby.
Madison, Wisconsin	29.32	744 7	30.32	770.1	34	1.1	79	s.	6	2.7	.....	0	0	.....	.....	inap.	inap.	clear	C. A. Shaw.
Marquette, Michigan	29.55	750.6	30.27	768.8	34	1.1	61	w.	10	4.5	.....	0	0	.....	.....	0.07	1.8	clear	J. Gilligan.
Memphis, Tennessee	29.94	760 5	30.27	768.8	58	14.4	62	ne.	4	1.8	.....	0	1 s	.....	.....	0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.59	751.6	30.33	770.4	36	2.2	61	w.	4	1.8	.....	0	sk.	.....	.....	inap.	inap.	clear	W. Line.
Mobile, Alabama	30.22	767.6	30.26	768.6	57.5	14.2	83	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. D. Paxton.
Montgomery, Alabama	30.03	762.7	30.25	768.3	57	13.9	69	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. B. McLaughlin.

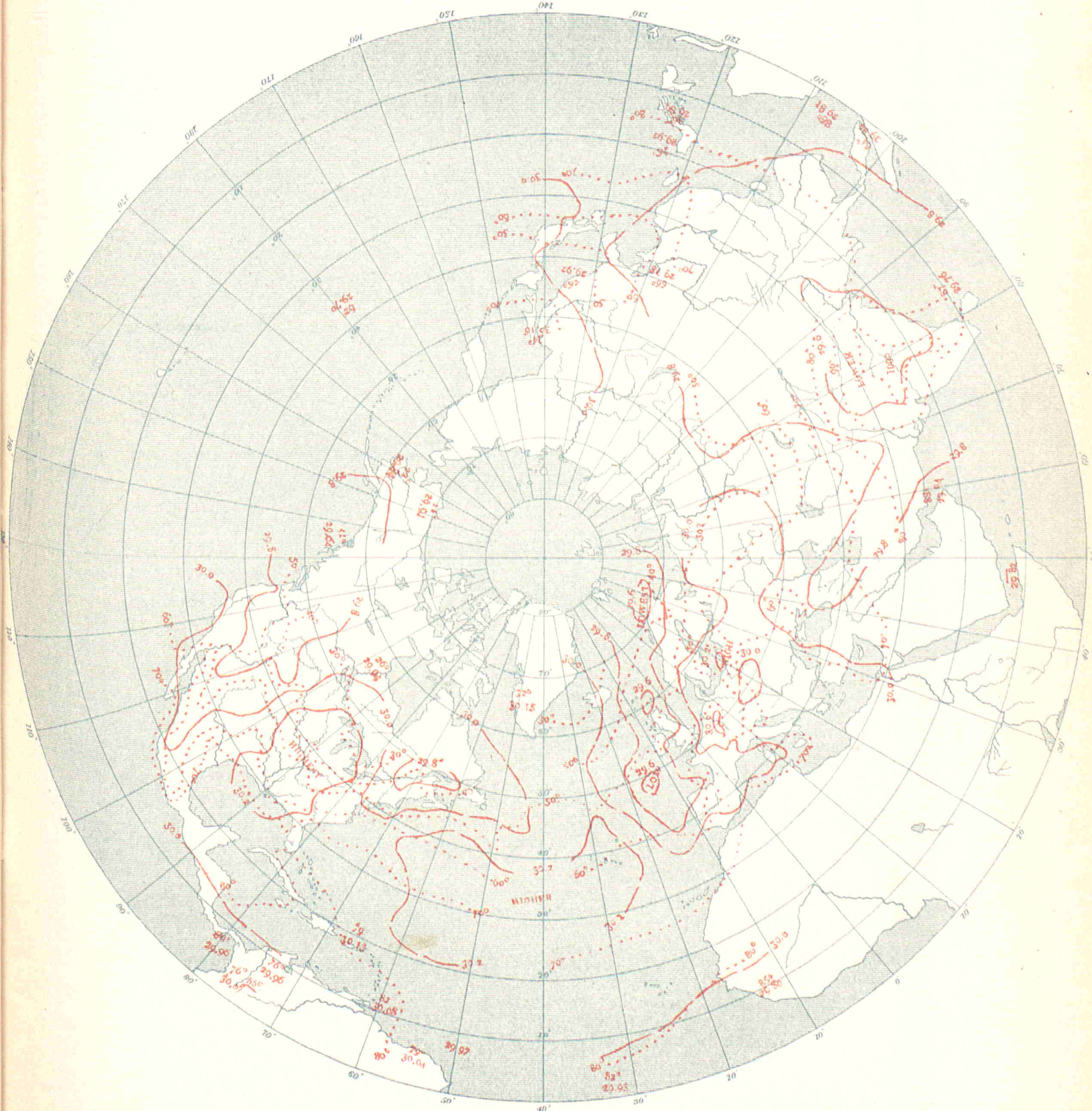
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Moorhead, Minnesota	29.14	740.1	30.12	765.0	32	0.9	78	se.	10	4.5	.....	5 c	0	.....	s.	0	0	fair	H. Bessant.
Morgantown, W. Virginia	29.16	740.7	30.17	766.3	49.0	9.4	50	n.	24	10.7	.....	.....	10 s	w.	.....	0	0	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H	23.48	596.4	29.66	753.4	26.0	— 3.3	90	w.	61	27.2	.....	.....	10n;fg	w.	.....	0.01	0.3	light snow	J. G. Linsley.
Nashville, Tennessee	29.73	755.1	30.26	768.6	54.5	12.5	65	w.	4	1.8	.....	5 ck	0	.....	sw.	0	0	fair	L. A. Jesunofsky.
New Haven, Connecticut	29.81	757.2	29.93	760.2	48	8.9	93	sw.	5	2.2	.....	8 ck	sk.	.....	w.	0	0	cloudy	J. H. Sherman.
New London, Connecticut	29.90	759.4	29.95	760.7	51	10.6	80	se.	4	1.8	.....	0	fg.	.....	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.18	766.6	30.23	767.8	66.0	18.9	78	nw.	4	1.8	.....	0	sk.	.....	.....	0	0	clear	L. Dunne.
Newport, Rhode Island	29.90	759.4	29.95	760.7	48.3	9.1	88	sw.	8	3.6	.....	1 cs	1 s;hz	calm	calm	0	0	dense haze	W. McGillivray.
New River, N. Carolina	.....	.....	.....	.....	61	16.1	84	w.	.....	.....	1	0	2 s	.....	.....	0	0	clear	C. C. Corbin.
New Shoreham, Rhode I'd	29.90	759.4	29.93	760.2	49.0	9.4	77	s.	22	9.8	.....	6 ck	hz.	sw.	.....	0	0	fair	W. Davis.
New York, New York	29.78	756.4	29.96	761.0	50	10.0	77	sw.	8	3.6	.....	2 cs	7 s	.....	w.	0	0	cloudy	E. B. Garriott.
Norfolk, Virginia	30.09	764.3	30.12	765.0	60	15.6	65	w.	4	1.8	.....	9 cs	0	w.	.....	0	0	cloudy	J. T. Elker.
North Platte, Nebraska	27.16	689.9	30.03	762.7	47.6	8.7	70	se.	8	3.6	.....	0	2 s	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y	29.75	755.6	29.79	756.7	50.5	10.3	90	w.	2	0.9	.....	.....	10 n	.....	sw.	0.19	4.8	light rain	J. Dascomb.
Omaha, Nebraska	29.11	739.4	30.27	768.8	41.0	5.0	57	se.	10	4.5	.....	0	0	.....	.....	0	0	clear	A. Pollak.
Ogglaamie, Pt. Barrow, Alas.	29.92	760.0	29.94	760.5	11.2	—11.6	98	nnw.	16	7.2	.....	.....	10 n	.....	.....	0.02	0.5	light snow	P. H. Ray.
Oswego, New York	29.70	754.4	30.03	762.7	37.0	2.8	72	w.	18	8.0	.....	2 ck	5 k	w.	w.	0.39	9.9	fair	S. W. Beall.
Palestine, Texas	29.68	753.9	30.22	767.6	62.0	16.7	84	se.	3	1.3	.....	5 ck	0	sw.	.....	0.07	1.8	fair	L. M. Pindell.
Pensacola, Florida	30.21	767.3	30.24	768.1	59.1	15.1	70	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	M. McGauran.
Philadelphia, Pa	29.90	759.4	30.00	762.0	54	12.2	66	sw.	8	3.6	.....	5 k	0	w.	.....	0	0	fair	T. F. Townsend.
Pike's Peak, Colorado	17.80	452.1	29.86	758.4	21	— 6.1	96	sw.	18	8.0	.....	.....	10s;fg	.....	w; sw	0.03	0.8	cloudy	L. M. Dey.
Pioche, Nevada	23.90	607.0	29.82	757.4	50.8	10.4	24	s.	11	4.9	.....	2 k	0	calm	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.38	746.2	30.18	766.6	43.0	6.1	65	n.	11	4.9	.....	.....	9 ks	.....	w	inap.	inap.	cloudy	J. H. Bryce.
Poplar River, Montana	27.70	703.6	.....	.....	.....	.....	.....	se.	.....	.....	2	0	0	.....	.....	0	0	clear	U. D. Maxwell.
Port Eads, Louisiana	30.24	768.1	30.25	768.3	67.7	19.5	70	n.	12	5.4	.....	0	0	.....	.....	0	0	clear	H. G. Christian.
Port Huron, Michigan	29.60	751.8	30.28	769.1	30.1	— 1.1	64	nw.	10	4.5	.....	0	3 ks	.....	nw.	0.18	4.6	clear	W. O. Bailey.
Portland, Maine	29.79	756.7	29.84	757.9	48.0	8.9	71	sw.	14	6.3	.....	6 c	hz.	w.	calm	0	0	fair	D. C. Murphy.
Portland, Oregon	29.75	755.6	29.82	757.4	52.0	11.1	93	s.	4	1.8	.....	.....	10 n	.....	se.	0.05	1.3	light rain	M. L. Hearne.
Portsmouth, N. Carolina	.....	.....	.....	.....	67	19.4	73	w.	6	2.7	.....	0	hz	.....	calm	0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.72	627.9	29.82	757.4	48	8.9	26	s.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. McN. Wright.
Provincetown, Mass	29.90	759.4	29.93	760.2	49	9.4	77	s.	12	5.4	.....	3 cs	0	sw.	.....	0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.10	764.5	30.11	764.8	71.5	21.9	83	ne.	4	1.8	.....	10 cs	0	w.	.....	0	0	cloudy	W. J. Evans.
Red Bluff, California	29.56	750.8	29.93	760.2	52.3	11.3	76	se.	11	4.9	.....	0	9 s	.....	s.	0	0	cloudy	J. M. Frantz.
Rio Grande City, Texas	29.89	759.2	30.13	765.3	72	22.2	91	s.	3	1.3	.....	.....	10 s	.....	calm	0.40	10.2	cloudy	P. M. Wilson.
Rochester, New York	29.43	747.5	30.09	764.3	31	— 0.6	78	w.	19	8.5	.....	0	7 ks	.....	w.	0.38	9.7	fair	F. Gillam.
Roseburg, Oregon	29.27	743.4	29.82	757.4	51	10.6	83	s.	1	0.4	.....	0	9 s	.....	sw.	inap.	inap.	cloudy	J. J. Nanry.
Sacramento, California	29.92	760.0	30.00	762.0	50.4	10.2	86	se.	6	2.7	.....	0	3 s	.....	sw.	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.76	755.9	30.35	770.9	44.0	6.7	86	ne.	9	4.0	.....	hz.	0	.....	.....	inap.	inap.	clear	J. H. Webber.
St. Paul, Minnesota	29.43	747.5	30.28	769.1	36.0	2.2	61	se.	2	0.9	.....	0	hz.	.....	.....	0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.17	740.9	30.03	762.7	35	1.7	89	s.	17	7.6	.....	4 cs	hz.	calm	calm	0	0	fair	G. Kingsbury.
Salt Lake City, Utah	25.45	646.4	29.77	756.1	59	15.0	48	se.	7	3.1	.....	5 k	0	sw.	.....	0	0	fair	J. Craig.
San Antonio, Texas	29.43	747.5	30.13	765.3	68.0	20.0	90	e.	4	1.8	.....	.....	10 s	.....	e.	0	0	cloudy	E. Lane.
San Diego, California	29.95	760.7	30.02	762.5	58.7	14.8	79	w.	6	2.7	.....	6 k	4 s	w.	w.	0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.60	751.8	30.27	768.8	36.5	2.5	69	n.	20	8.9	.....	0	6 ks	.....	n.	0.25	6.3	fair	M. H. Perry.
Sandy Hook, New Jersey	29.92	760.0	29.96	761.0	55.0	12.8	55	s.	12	5.4	.....	3 k	0	s.	.....	0	0	clear	B. A. Blundon.
San Francisco, California	29.94	760.5	30.01	762.2	55	12.8	90	w.	5	2.2	.....	.....	10 n	.....	sw.	0.15	3.8	light rain	N. Gorom.
Santa Fé, New Mexico	23.23	590.0	29.84	757.9	53	11.7	38	e.	7	3.1	.....	3 c	0	sw.	.....	0	0	clear	H. U. Jones.
Savannah, Georgia	30.10	764.5	30.19	766.8	64	17.8	84	n.	6	2.7	.....	8 ck	0	sw.	.....	0	0	cloudy	H. W. Ford.
Shreveport, Louisiana	29.99	761.7	30.23	767.8	60	15.6	87	se.	1	0.4	.....	4 ck	0	se.	.....	0	0	fair	E. N. Meekins.
Silver City, New Mexico	24.29	617.0	29.84	757.9	45	7.2	39	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. B. Wallace.
Sitka, Alaska	29.58	751.3	29.64	752.8	41.2	5.1	68	ne.	3	1.3	.....	5 c	0	nw.	.....	0	0	fair	J. J. McLean.
Smithville, North Carolina	30.14	765.5	30.18	766.6	63	17.2	93	s.	2	0.9	.....	3 cs	0	.....	.....	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.62	701.5	29.68	753.9	51	10.6	66	ne.	8	3.6	.....	9 cs	0	.....	.....	0	0	cloudy	D. Moore.
Springfield, Illinois	29.67	753.6	30.34	770.6	41.5	5.3	57	ne.	5	2.2	.....	0	0	.....	.....	0.14	3.6	clear	T. B. Jennings.
Springfield, Massachusetts	29.74	755.4	29.87	758.7	52.8	11.6	66	s.	4	1.8	.....	7 ck	hz.	sw.	.....	0	0	fair	T. S. Outram.
Springfield, Mo	28.83	732.3	30.31	769.9	52.5	11.4	86	se.	8	3.6	.....	0	8 ks	.....	.....	0.30	7.6	cloudy	J. B. Marbury.
Stockton, Texas	27.03	686.5	30.04	763.0	53.3	11.8	100	s.	4	1.8	.....	8 cs	0	s.	.....	0	0	cloudy	J. O'Dowd.
Thatcher's Island, Mass	29.86	758.4	29.91	759.7	45.5	7.5	64	nw.	10	4.5	.....	5 k	0	nw.	.....	0	0	fair	F. R. Day.
Toledo, Ohio	29.59	751.6	30.27	768.8	34	1.1	72	n.	10	4.5	.....	0	5 k	.....	n.	0.21	5.3	clearing	A. Buell.
Tucson, Arizona	27.51	698.7	29.85	758.2	60	15.6	46	se.	3	1.3	.....	0	6 ks	.....	.....	0	0	fair	J. L. Whiteside.
Umatilla, Oregon	29.34	745.2	29.71	754.6	55	12.8	60	sw.	23	10.3	.....	0	5 ks	.....	sw.	0	0	threatening	J. Daly.
Uvalde, Texas	29.14	740.1	30.09	764.3	69	20.6	90	s.	4	1.8	.....	.....	10 ks	.....	s.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	30.00	762.0	30.25	768.3	59	15.0	65	e.	1	0.4	.....	0	0	.....	.....	0	0	clear	H. T. Brisbane.
Visalia, California	29.64	752.8	30.01	762.2	52	11.1	80	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. L. Seward.
Washington, D. C	29.97	761.2	30.08	764.0	54.5	12.5	55	calm	0	0	.....	1 k	hz.	.....	.....	0	0	clear	B. M. Purssell.
West Las Animas, Colorado	26.06	661.9	29.92	760.0	51	10.6	86	e.	10	4.5	.....	0	8 s	.....	w.	0	0	cloudy	J. Grover.
Williamsport, Pa	29.42	747.3	30.02	762.5	45	7.2	68	nw.	10	4.5	.....	.....	10 n	.....	nw.	0.05	1.3	light rain	B. F. Hough.
Wilmington, N. Carolina	30.11	764.8	30.16	766.1	61	16.1	84	calm	0	0	.....	0	0	.....	.....	0	0	clear	A. T. Sherwood.
Winnemucca, Nevada	25.45	646.4	29.80	756.9	42	5.6	48	sw.	10	4.5	.....	4 cs	0	sw.	.....	0	0	fair	J. R. Williams.
Yankton, Dakota	28.92	734.6	30.20	767.1	40	4.4	57	se.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. H. Atfield.
Yuma, Arizona	29.70	754.4	29.84	757.9	61.0	16.1	46	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.07	560.6	.....	.....	55.0	12.8	83	w.	4	1.8	.....	.....	8 ks; s	.....	.....	0.04	1.0	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.07	763.8	30.08	764.0	82	27.8	87	e.	.....	.....	.....	0	5 ks	.....	ne.	0.04	1.0	cloudy	J. A. Racker.
Buenaventura, U. S. C.	30.04	763.0	30.07	763.8	76	24.4	90	s.	4	1.8	.....	.....	10 ks	.....	s.	0.03	0.8	cloudy	J. I. Plume.
Guadeloupe, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	B. Bigar.
Havana, Cuba, W. I.	30.10	764.5	30.14	765.5	79	26.1	82	calm	0	0	.....	2 cs	5 ks	calm	calm	0.09	2.3	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.08	764.0	30.09	764.3	80.0	26.7	66	n.	1	0.4	.....	2 c	0	.....	.....	0	0	fair	Robert Johnston.
Magua, San Domingo	.....	.....	.....	.....	74	23.3	.....	calm	.....	.....	0	0	0	.....	.....	0	0	.....	S. M. Pike.
Navassa, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. M. Everett.
Paramaribo, S. A.	30.04	763.0	30.04	763.0	79	26.1	87	e.	.....	.....	2	5 k	8 ps	e.	e.	0.780	19.8	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.50	749.3	29.96	761.0	76	24.4	84	calm	.....	.....	0	.....	fg.	.....	.....	0	0	dense fog	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	90	ne.	.....	.....	4	3 cs	3 ks	se.	ne.	0	0	fair	Earl Flint.
Santiago de Cuba, W. I.	30.04	763.0	30.06	763.5	78	25.6	72	n.	1.2	0.5	.....	0	2 ks	.....	.....	0	0	fair	Robert Mason.
York Factory, B. A.	29.49	749.0	29.51	750.3	26.0	— 3.3	100	s.	12	5.4	.....	.....	10 s	.....	s.	0.01	0.3	threatening	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Alert, S. 10° 42′, E. 48° 30′	29.90	759.4	79.8	26.6	81	ssw.			4		6							d. clouds.
H. M. S. Alexandra, Malta, Mediterranean	30.22	767.6	69	20.6	67	sse.			2		3							d. clouds.
H. M. S. Amethyst, N. 39° 01′, W. 12° 09′	29.76	755.9	58.5	14.7	90	wsw.			4-6		4	wsw.				5	ssw.	squally.
H. M. S. Champion, S. 15° 15′ W. 89° 55′			70	21.1	90	ese.			4		9	w.				4	ese.	d. clouds.
H. M. S. Cleopatra, N. 2° 25′ E. 100° 59′	29.84	757.9	83.5	28.6	91	n.			1		2							d. clouds.
H. M. S. Comus, Sandakan, N. Borneo	29.83	757.7	81.5	27.5	100	ne.			2		0							blue sky.
H. M. S. Coquet e, Alexandria, Malta	30.04	763.0	69	20.6		wnw.			2		1	wnw.						blue sky.
H. M. S. Dido, N. 18° 20′, W. 66° 00′	30.16	766.1	78	25.6		se.			1		6	e.						showery.
H. M. S. Druid, N. 14° 00′, W. 80° 10′	30.02	762.5	80	26.7	95	nne.			3-4		2	ne.				2	ne.	d. clouds.
H. M. S. Dwarf, S. 32° 18′, W. 58° 03′	30.07	763.8	57.5	14.2	93	ese.			1		6					1	se.	d. clouds.
H. M. S. Emerald, S. 41° 20′ E. 174° 55′	29.58	751.3	56	13.3	93	calm			0		8							raining.
H. M. S. Euryalus, Trincomalee, Ceylon	29.76	755.9	87	30.6	91	e.			1		5	calm						showery.
H. M. S. Fantome, Samana, Hayti, W. I.	30.07	763.8	82	27.8		ese.			1		5	ese.				4	ese.	d. clouds.
H. M. S. Flying Fish, N. 31° 30′, E. 131° 24′	29.97	761.2	67	19.4	90	calm			0		6							misty.
H. M. S. Fawn, N. 12° 45′ E. 45° 00′	29.72	754.9	85.5	29.7	51	e.			3		0							blue sky.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.01	762.2	51.5	10.8	97	ne.			1		10							foggy.
H. M. S. Garnet, Calonia, Rio de La Plata, Uruguay	30.11	764.8	60	15.6	82	w.			2		2							blue sky.
H. M. S. Inconstant, Simon's Bay, Cape Colony	30.02	762.5	66	18.9	84	ne.			0-1		5							d. clouds.
H. M. S. Iron Duke, N. 27° 38′, E. 127° 19′	29.87	758.7	71	21.7	95	ene.			2		4	ene.				2	e.	d. clouds.
H. M. S. Lark, S. 8° 42′, E. 156° 47′	29.89	759.2	84.3	29.1		nne.			3		6					2	sse.	d. clouds.
H. M. S. Magpie, N. 34° 54, E. 139° 46′	30.01	762.2	63.2	17.3	90	ene.			1		0							blue sky.
H. M. S. Northampton, Bermuda, W. I.	30.16	766.1	70	21.1	87	nne.			3		9	ssw.						d. clouds.
H. M. S. Pegasus, N. 1° 17′, E. 103° 51′	29.81	757.2	85.5	29.7	81	nw.			1-2		2							d. clouds.
H. M. S. Phœnix, N. 20° 49′, W. 64° 51′	30.15	765.8	78	25.6	86	e.			3		3	e.				2	e.	d. clouds.
H. M. S. Rambler, Elephant Bay, Benguela	29.88	758.9	78	25.6	95	w.			3		0							blue sky.
H. M. S. Rocket, N. 48° 27′, W. 123° 27′	29.72	754.9	49	9.4	93	calm			0		3							d. clouds.
H. M. S. Tenedos, N. 44° 40′ W. 63° 35′	29.97	761.2	43	6.1	83	wsw.			1		0							blue sky.
H. M. S. Triumph, Coquimbo, Chili	30.05	763.3	51	10.6	100	ne.			1		10	calm						foggy.
H. M. S. Woodlark, N. 22° 00′ E. 59° 54′	29.74	755.4	87.5	30.8	72	calm			0		0							blue sky.
PORTUGUESE NAVAL.																		
Rio Lima, Porto Praya, Cape Verde Island	30.09	764.2	78.1	25.6	80	ne.			3		1		ne.			2		blue sky.
Tamega, Macon, China	29.78	756.4	78.8	26.0	84	e.			2		10		ese.	18 h'r	18 h'r			overcast.
SWEDISH NAVAL.																		
Balder, N. 45° 19′ W. 28° 04′	30.11	764.7	51.6	10.9	74	nnw.			4		6							
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	30.20	767.1	60	15.6	94	n.	2	0.9			0			0	0			clear.
Navy Yard, Portsmouth, N. H.	29.87	758.7	52	11.1	66	sw.	16	7.2			5			0	0			hazy.
Naval Hospital, Yokohama, Japan	29.83	757.7	61.5	16.4	86	calm			0		0			0	0			clear.
Adams, Pichilinque, Mexico	29.78	756.4	64	17.8	100	sse.			3		0			0	0	sm'h		clear.
Alaska, N. 5° 32′, W. 79° 54′	29.86	758.4	80	26.7	82	s.			2		10		s.	0	0	sm'h		cloudy.
Alert, Kobe, Japan*	29.86	758.4	66	18.9	68	nw.			1		0			0	0	sm'h		hazy.
Alliance, Hampton Roads, Va.	30.14	765.5	62	16.7	72	wsw.			2		5			0	0	sm'h		cloudy.
Ashuelot, Kobe, Japan	29.90	759.4	63	17.2	83	wnw.			1		1							clear.
Brooklyn, Montevideo, Uruguay	30.08	764.0	57	13.9	94	n.	3	1.3			2?		nw.	0	0	sm'h		overcast?.
Colorado, New York, N. Y.	29.94	760.5	55	12.8	62	sw.	3	1.3			10		calm	0	0			misty.
Enterprise, Hampton Roads, Va*	30.10	764.5	61	16.1	77	sw.			3		8		calm					fair.
Essex, S. 25° 35′ W. 42° 20′	30.09	764.3	72	22.2	71	sse.			2		8		s.			long	s.	cloudy.
Franklin, Norfolk, Va.	30.15	765.8	56	13.3	81	sw.	8	3.6			8		calm	0	0			fair.
Galena, Villafranca, France	30.04	763.0	67	19.4	84	ene.			2		10		ene.			sm'h		cloudy.
Independence, Navy Yard, Mare Island, Cal	29.82	757.4	52	11.1	86	sw.			3		10			0	0			cloudy.
Irquois, Mare Island, Cal	29.92	760.0	56	13.3	75	sw.			4		10		sw.					cloudy.
Kearsarge, Hampton Roads, Va†	30.14	765.5	60	15.6	88	wsw.			3		8		sw.			sm'h		cloudy.
Lackawanna, Callao, Peru†	30.17	766.3	63	17.2	83	calm			0					0	0			clear.
Lancaster, Villafranca, France*	29.98	761.5	70	21.1	61	sse.			3		8		se.					fair.
Marion, S. 23° 29′, W. 26° 45′	30.07	763.8	76	24.4	86	ne.			4		8		nne.	light	light	mod.	nne.	light rain.
Michigan, Erie, Pa.	30.15	765.8	35	1.7	100	n.			6		10		nw.					cloudy.
Minnesota, Newport, R. I.	29.93	760.2	50	10.0	86	sw.	8	3.6			2		wsw.					
Monocacy, Kobe, Japan	30.01	762.2	63	17.2	83	nw.			2		0							clear.
New Hampshire, Newport, R. I.	29.89	759.2	55	12.8	68	sw.			2		2					sm'h		fair.
Nipsic, Villafranca, France	30.02	762.5	68	20.0	56	ene.			2		5					sm'h		fair.
Onward, Callao, Peru†	30.11	764.8	60	15.6	88	sse.			1		2		n.			long	v	clear.
Palos, Kobe, Japan	30.01	762.2	63	17.2	67	wnw.			1		0							clear.
Passaic, Washington, D. C.	30.09	764.3	55	12.8	93	sw.			1		5							fair.
Pensacola, Callao, Peru	30.03	762.7	63	17.2	89	calm	0	0			8		s.	0	0	sm'h		cloudy.
Portsmouth, N. 47° 31′, W. 180° 10′	29.80	756.9	52	11.1	93	nne.			5		5		ne.			mod	nne.	fair.
Powhatan, N. 24° 48′, W. 80° 15′	30.12	765.0	81	27.2	87	e.			1		8		e.					cloudy.
Quinnebaug, Villafranca, France	30.01	762.2	68	20.0	60	e.			3		5		calm			sm'h		fair.
Ranger, Altata Dock, Mexico*	29.92	760.0	72	22.2	85	e.			2		8		e.	0	0	sm'h		hazy.
Richmond, Kobe, Japan*	29.94	760.5	67	19.4	69	calm			0		0			0	0			clear.
Saratoga, N. 47° 34′, W. 15° 03′	29.51	749.5	50	10.0	72	ene.			7		10		ne.	light	light	long	ne.	cloudy.
Shenandoah, New York, N. Y*	30.02	762.5	51	10.6	79	sw.			1		8		sw.			sm'h		cloudy.
St. Louis, League Island, Pa.	30.24	768.1	55	12.8	68	wsw.	8	3.6			5		wsw.	0	0			fair.
Swatara, Chefoo, China*	29.57	751.1	53	11.7	?	s.			3		10		sw.			mod.	s.	cloudy.
Tennessee, Fort Monroe, Va.	30.15	765.8	60	15.6	76	wsw.	9	4.0			8			0	0			fair.
Vandalia, Hampton Roads, Va*	30.23	767.8	61	16.1	77	ssw.			1		9		calm					cloudy.
Wabash, Boston, Mass.	29.92	760.0	55	12.8	74	sw.	7	3.1			2		sw.	0	0			fair.
Wachusetts, N. 56° 06′ W. 134° 33′	29.55	750.6	44	6.7	100	ne.			2		8			0	0	sm'h		fair.
Wyoming, Port Royal, S. C.	30.19	766.8	67	19.4	100	nne.	1	0.4			8		w.	0	0			cloudy.
Yantic, Fort Monroe, Va*†	30.30	769.6	58	14.4	82	sw.			3		5							fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, Off Liverpool Bar, England *	29.71	754.6	48	8.9	92	s.			4		6		sse.	2 h'r	2 h'r	1	se.	raining.
S. S. Prussian, Greenock, Scotland*	29.44	747.8	50	10.0		ssw.			5		8		s.	8 h'r	8 h'r	sm'h	n.	cloudy.
S. S. Scandinavian, N. 42° 31′, W. 66° 42′ *	29.92	760.0	42	5.6		ssw.			4		0			0	0	sm'h		misty.
S. S. Waldensian, Glasgow, Scotland*	29.48	748.8	46	7.8		sse.			4		2		s.	0	0			cloudy.?
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, Liverpool, England	29.72	754.9	60	15.6	94	sw.			6		2		sw.					clear.
S. S. Indiana, N. 50° 48′, W. 12° 45′ †	30.00?	762.0?	55	12.8	93	ene.			3		5		ne.	0	0	mod.	n.	fair.
S. S. Lord Clive, N. 50° 56′, W. 16° 30′*	29.71	754.6				nnw.			4		1		nnw.	12 h'r	12 h'r	mod.	nw.	fine.
S. S. Ohio, N. 44° 10′ W. 37° 17′†	30.15	765.8	56	13.3	93	sw.			5		10		sw.			chop	cross	misty.
ANCHOR LINE.																		
S. S. Bolivia, N. 54° 09′, W. 15° 01′†	29.88	758.9	45	7.2		nne.			4		4		ne.	sh's	sh's	long	ne.	clear
S. S. Elysia, N. 41° 32′, W. 56° 03′ †	30.24	768.1	62	16.7		wnw.			4		3		nw.	0	0	r'gh	w.	clear.
S. S. Etopia, N. 39° 54′, W. 26° 11′†	30.38	771.6	57	13.9	69	nnw.			4		7		n.	0	0	h'vy	nw.	fair.
ATLAS LINE.																		
S. S. Ailsa, Savanilla, U. S. C. †	30.20	767.1	79	26.1	90	var.			1		5		ne.	0	0			fine.
S. S. Alvo, N. 17° 29′, W. 75° 18′†	30.09	764.3				ne.			6		6		nne.	0	0	r'gh	n.	cloudy.
S. S. Athos, Kingston, Jamaica, W. I.	29.51	749.5																
S. S. Claribel, N. 18° 12′. W. 73° 25′*†	30.22	767.6	83	28.3	83	s.			1		4		se.	0	0	mod.	s.	
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 30° 54′ W. 27° 10′	30.11	764.8	68.5	20.3	90	nne.			3		10							drizzling.
British Merchant, S. 26° 44′, E. 52° 57′	30.05	763.3	77.3	25.2	72	ne.			3		2							d. clouds.
Bk. Copoename, N. 51° 13′, W. 6° 25′	29.83	757.7	51.0	10.6	79	sw.			4		8							d. clouds.
Glencairn, S. 20° 20′, E. 78° 30′	29.95	760.7	78	25.6	82	ese.			4		5							d. clouds.
Bkt. Hope, N. 1° 00′ W. 30° 31′	29.95	760.7	81.5	27.5	95	ese.			3		8							d. clouds.
S. S. Minho, N. 27° 32′ W. 16° 37′	30.20	767.1	68.8	20.4	70	nne.			5		7							d. clouds.
CUNARD LINE.																		
S. S. Marathon, N. 42° 09′, W. 55° 33′†	30.20	767.1	50.0	10.0		se.			1		0			0	0	mod.	sw.	clear.
GENERAL TRANS-ATLANTIC COMPANY																		
S. S. Ville de Marseilles, Palermo Sicily*†	30.10	764.5	82	27.8		nne.			4		2		nne.	0	0			fair.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 44° 44′, W. 41° 41′*†	30.00	762.0				w.			6		6		nnw.	8 h'r	8 h'r	long	nw.	fine.
S. S. Gellert, N. 43° 10′, W. 41° 50′	30.00	762.0	61	16.1		wsw.			6		10		sw.	7 h'r	7 h'r	long	wsw.	
S. S. Lessing, Hamburg, Germany	29.83	757.6	68	20.0		sw.			1		0			0	0			clear.
S. S. Silesia, N. 50° 52′, E. 2° 37′†	30.08	764.0	60	15.6		ssw			5		0			0	0	sm'h		fair.
S. S. Wieland, N. 41° 05′, W 61° 32′	30.26	768.6	56	13.3		ssw.			1		0			4 h'r	4 h'r	1	w.	clear.
INMAN LINE.																		
S. S. City of New York, N. 50° 39′ W. 20° 52′	29.88	758.9				e.			3		3		e.	3 h'r	3 h'r	mod.	e.	fair.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, S. 35° —′, W. 56° —′*†	30.30	769.6	65	18.3		ssw.			1		6		sw.	0	0	sm'h		cloudy.
S. S. Humboldt, S. 21° 38′, W. 40° 02′*	30.04	763.0	76	24.4	81	ese.			2		8k			0	0	1	se.	d. clouds.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 40° 35′, W. 69° 12′†	30.05	763.3	49	9.4	85	ssw.			4		1		sw.	0	0	sm'h		
MERCHANT STEAMSHIP COMPANY.																		
S. S. Glenapp, N. 6° 04′, W. 50° 23′	29.97	761.2				e.			5		8		e.	1 h'r	1 h'r	long	se.	raining.
NATIONAL LINE.																		
S. S. Denmark, N. 51° 22′. E. 1° 26′	30.02	762.5	56	13.3		ssw.			5		5		wsw.	0	0			fair.
S. S. England, Off Sandy Hook, N. J	29.95	760.7				sw.			4		2		sw.	0	0	sm'h	sw.	hazy.
S. S. Erin, N. 48° 58′ W. 23° 36′	29.92	760.0	49	9.4		nnw.			5		3		nne.	0	0	mod.	w.	clear.
S. S. Helvetia, N. 48° 00′, W. 29° 52′			52	11.1		nw.			3				nw.	sh'rs	sh'rs	mod.	nnw.	fine.
S. S. Italy, N. 50° 14′, W. 21° 02′	29.92	760.0	50.0	10.0		nne.			4		2		ne.	sh's	sh's	long	ne.	fair.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Niagara, Havana, Cuba, W. I†	30.16	766.1	74	23.3	90	calm			0		0			2 h'r	2 h'r			clear.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, Havana, Cuba*†	30.22	767.6	78	25.6	86	sse.			2		5		n.	0	0	long	n.	d. clouds.
S. S. City of Puebla, N. 35° 53′, W. 74° 18′†	30.13	765.3	54	12.2		sw.			2		1		wsw.			light	sse.	
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N. 49° 41′, W. 8° 02′*†	29.92	760.0	54	12.2		ssw.			4								wnw.	
S. S. Lepanto, N. 43° 57′ W. 41° 56′*	30.02	762.5	60	15.6		s.			6								sw.	hazy.
S. S. Olbers, N. 18° 31′ W. 24° 30′*†	30.12	765.0	71	21.7		ne.			5–6								ne.	squally.
S. S. P. Caland, N. 42° 09′, W. 43° 54′	30.08	764.0	60.8	16.0		sw.			3							3	w.	gloomy.
NORTH GERMAN LLOYD.																		
S. S. Elbe, N. 49° 05′. W. 29° 34′	30.13	765.3	49.3	9.6	66	nnw.			5		5?		nnw.	0	0	mod.	nne.	clear?
S. S. Hapsburg, N. 40° 37′, W. 70° 45′	29.95	760.7	46.4	8.0		sw.			3–4		1		sw.	0	0	sm'h	sw.	clear.
S. S. Hermann, N. 40° 32′, W. 50° 50′†	30.06	763.5	51.8	11.0		nw.			5		3		sw.	1½h'r	1½h'r	cross	nw.	fair.
S. S. Leipzig, N. 49° 16′, W. 16° 45′	29.78	750.4	52	11.1	86	n.			4		2		n.	1 h'r	1 h'r	mod.	nnw.	clear.
S. S. Main, N. 47° 57′, W. 28° 00′	30.20	767.1	46.4	8.0		nw.			5		5?		nw.	0	0	r'gh	wnw.	covered?
S. S. Oder, N. 41° 01′. W. 55° 51′	30.22	767.6	66.2	19.0		wnw			4		3		wnw.	0	0	mod.	n.	fair.
S. S. Ohio, Bremerhaven, Germany	30.10	764.5				calm			0		4		s.	0	0			fair.
S. S. Rhein, Bremerhaven, Germany	29.96	761.0				w.			3		3		nw.	0	0			clear.
S. S. Salier, Bremerhaven, Germany	30.07	763.8	53.6	12.0		sw.			4		2		sw.	0	0			fair.
S. S. Strassburg, N. 49° 51′. W. 6° 04′	29.74	755.4	49.0	9.4	?	s.			4–5		10		s.	0	0	mod.	w.	covered.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, N. 36° 32′. E. 179° 51′†	29.70	754.4	62	16.7	83	ssw.			4		10		w.			mod.	ssw.	foggy.
S. S. Oceanic, N. 22° 21′, E. 115° 00′*	29.67	753.6	65	18.3	94	ese.			4		8		sw.			2	s.	raining.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y. †	29.90	759.4				w.			10		10		w.					cloudy.
S. S. Seminole, Off Savannah, Ga†	30.17	766.3	72	22.2	90	se.			1		5		sw.	0	0	sm'h	ese.	fair.
OREGON IMPROVEMENT COMPANY.																		
S. S. Willametta, Seattle, Wash. Ter.†	29.86	758.4	54	12.2	86	sse.			3		6		sse.	0.08	2.0			rainy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, Portland, Oregon*†	29.84	757.9	58	14.4	?	se.			1		4		e.					raining.
S. S. Oregon, Portland, Oregon.†	29.82	757.4	53	11.7	80	calm			0		10							raining.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal†	29.98	761.5	55	12.8	68	sw.			2		10		sw.					misty.
S. S. State of California, San Francisco, Cal.†	29.99	761.7	52	11.1	100	sse.			2		8		s.					showery.
S. S. Victoria, N. 44° 15°, W. 124° 36′†	29.73	755.2	51	10.6	86	se.			3		8			0	0	sm'h		fair.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, S. 5° 11′, W. 168° 38′	29.95	760.7	76	24.4	95	ne.			3		10		ne.			sm'h		drizzling.
S. S. City of New York, S. 33° 51′, E. 151° 14′	30.13	765.3	64	17.8	78	calm			0		0			0	0			clear.
S. S. City of Rio de Janeiro, N. 7° 30′, W. 79° 30′*†	30.15	765.8	79	26.1	91	n.			0		9		var.	1 h'r	1 h'r	light	var.	squally.
S. S. City of Tokio, N. 31° 41′, E. 134° 32′†	30.03	762.7	65	18.3	63	sw.			3		2		sw.	0	0	sm'h		clear.
S. S. Clyde, N. 28° 39′, W. 115° 51′†	30.01	762.2	58	14.4	76	nnw.			4		10		nnw.			light	nw.	rainy.
S. S. Colon, N. 37° 51′, W. 74° 00′	30.05	763.3	50.0	10.0		ssw.			4		0			0	0	sm'h	ssw.	clear.
S. S. Granada, La Libertad, San Salvador†	29.98	761.5	82	27.8	52	calm			0		2		ne.	0	0	light	s.	hazy.
S. S. South Carolina, Champerico, Mexico†	29.99	761.7	80	26.7	74	nne.			2		1		ene.	0	0	mod.	sw.	fair.
S. S. Zelandia, S. 34° 22′, W. 168° 49′	29.78	756.4	63.0	17.2	89	w.			6		8		w.			r'gh	w.	squally.
QUEBEC STEAMSHIP CO.																		
S. S. Muriel, N. 34° 44′ W. 70° 36′	30.10	764.5	68	20.0		ene.			2		0			0	0	mod.	ne.	fair.
S. S. Bermuda, N. 11° 05′, W. 61° 02′†	30.06	763.5	61	16.1		ene.			4		9		ene.	1 h'r	1 h'r	G'tl	e.	fine.
RED STAR LINE.																		
S. S. Nederland, N. 47° 45′, W. 14° 44′*†.	29.80	756.9	50	10.0		nne.			4		10		nne.	0	0	short	nne.	overcast.
S. S. Rhynland, N. 40° 48′, W. 57° 01′†	30.27	768.8	56	13.3	68	wsw.			2		0			0	0	light	ssw.	clear.
S. S. Switzerland, N. 47° 40′. W. 24° 33′	29.95	760.7				nnw.			4		2?		nnw.	5 h'r	5 h'r	long	wnw.	cloudy.?
S. S. Vaderland, N. 41° 03′, W. 48° 44′	29.98	761.5	47	8.3	77	s.			5		5		nne.	4 h'r	4 h'r	long	nnw.	fair.
S. S. Waesland, Antwerp, Belgium	30.00	762.0	64	17.8		sw.			4		2		sw.	0	0			clear.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
ROTTERDAM LINE.																		
S. S. Schiedam, N. 50° 30′ W. 0° 40′*.	29.95	760.7	53.1	11.7		s.			5		7		ssw.	0	0	mod.		hazy.
S. S. W. A Scholten, Rotterdam, Holland.	29.91	759.7	62.5	16.9	88	sw.			3		5		w.	rain	rain			fair.
STATE LINE.																		
S. S. State of Florida, N. 52° 31′, W 21° 58′.	29.90	759.4	52	11.1		n.			4		4		nne.	4 h'r	4 h'r	mod	nne.	fair.
THINGVALLA LINE.																		
S. S. Thingvalla, Brooklyn, N. Y.†.	30.17	766.3	52.7	11.5		ssw.			1		3		ssw.	0	0			clear.
WARREN LINE.																		
S. S. Iowa, N. 50° 14′, W. 18° 22′*†.	30.00	762.0	49	9.4		nne.			4		3		n.	0	0	long	n.	clear.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 43° 41′. W. 34° 56′.	30.20	767.1									3		sw.	0	0	high	sw.	
WHITE STAR LINE.																		
S. S. Adriatic, N. 44° 10′ W. 49° 40′.†.	30.19	766.8	39	3.9		w.			2		2		sw.	24 h'r	24 h'r	long	sw.	d clouds.
S. S. Celtic, N. 45° 06′, W. 40° 44′†.	29.95	760.7	62	16.7	88	wsw.			5		10		w.	9 h'r	9 h'r	mod.	sw.	rainy.
WILSON LINE.																		
S. S. Otranto, N. 44° 43′, W. 44° 08′†.	30.06	763.5	48	8.9		wnw.			3				wnw.			sm'h	w.	clear.
S. S. Romano, New York, N. Y*†.	29.75	755.6	55	12.8		w.			1									
MISCELLANEOUS.																		
Schr. Abbie Clifford, N. 25° 50′, W. 53° 04′*†.	30.30	769.6	80	26.7		se.			3		4		se.	0	0	sm'h	e.	fine
Schr. Addie Fuller, Newport News, Va†.	30.18	766.6	60	15.6	70	nw.				8 ck	0	n.		0	0			cloudy.
Bk. Adelaide, Rio de Janeiro, Brazil*†.	30.15	765.8	78	25.6		se.							ese.	0	0		s.	overcast.
Bk. Alpha, Santiago de Cuba, W. I†.	30.02	762.5	80	26.7		calm			0		0			0	0			clear.
Schr. Annie Lewis, Aransas Pass, Texas†.	30.25	768.3	76	24.4		e.			2		2		ese.	0	0	long	ese.	clearing.
Bk. Anna Thormann, N. 40° 26′, W. 70° 52′.	30.36?	771.1?	44.4	6.9	61	n.			4		0			0	0	mod.	nw.	clear.
Bk Antioch, S. 39° 40′, E. 66° 30′*†.	29.80	756.9	56	13.3		sw.			5		3		wsw.	2 h'r	2 h'r	mod	sw.	sprinkling.
Bk. Aureola, S. 20° 27′ W. 38° 41′*†.	30.16	766.1	88	31.1		sw.			1		5		sw.	0	0	sm'h		fair.
Sch'r Annie M. Smull, S. 33° 17′ E. 98° 30′*†.	30.10	764.5	68	20.0										0	0			
Bk. Celestina, Montevideo, Uraguay*†.	30.11	764.8									7		wnw.	1 h'r	1 h'r			fair.
S. S. Compton, New Orleans†.	30.23	767.8				nne.			1		0			0	0			clear.
Schr. Edith. R. Seward, N. 27° 59′ W. 71° 43′*†.	30.28	769.1	76	24.4		sse.			3		7		ne.	½ h'r	½ h'r	long	n.	cloudy.
Bk. E. J. Spicer, N. 43° 15′, W. 27° 55′†.	30.22	767.6				nne.			6		5		nne.	0	0	mod.	nne.	
S. Enoch Train, Off Sable Island, N. S.*.	29.99	761.7				sw.			3		0			0	0	sli't	sw.	clear.
S. Exporter, S. 25° 00′, W. 33° 00′*†.	30.20	767.1				n. to se.			0–4		8		nw.	6 h'r	6 h'r	sm'h		
S. Festina Lente, N. 37° 57′, W. 70° 20′*†.	30.20	767.1	63	17.2		wsw.			5		10		nw.	½ h'r	½ h'r	sm'h		thnd'r storm.
Bk. Freya, Queenstown, Ireland.			48	8.9		w.			4		2		nw.	2 h'r	2 h'r			fair.
S. Grecian, S. 39° 00′, E. 69° 49′*†.	29.90	759.4	50	10.0		ssw			6		5?		wsw.	4 h'r	4 h'r	long	wsw.	clear.?
Bk. Hattie G. McFarland, N. 40° 04′, W. 71° 12′*†.	30.05	763.3	50	10.0		ssw.			3		3		ssw.	0	0	short	ssw.	fair.
S. Hedwig, N. 40° 41′, W. 69° 01′.	30.04	763.1	46.4	8.0	90	ssw.			5		1		nw.	0	0	1	ssw.	hazy.
Bk. Johanne, N 38° 30′, W. 67° 45′*.	30.12	765.0	62	16.7		s.			2		5		s.	0	0	sm'h		fine.
Schr. John L. Thomas, Roncador Id, C. A*†.	30.08	764.0				ne.			4		3		ene.	0	0			fine.
Bkt. Josephine, N. 16° 40′, W. 75° 49′*†.	30.17	766.3	83	28.3	70	ene.			5		2		e.	0	0	mod.	e.	fair.
Bk. Kate Cann, N. 44° 20′, W. 24° 30′*†.	29.87	758.7				w.			5		10		w.	8 h'r	8 h'r	short	nw.	raining.
Bkt. Kryolith, N. 49° 02′, W. 14° 59′*†.	29.70	754.4				nne.			5		2		nne.	0	0	mod.	nw.	clear.
S. S. Lamperts, N. 37° 18′, E. 8° 21′*.	30.00	762.0	62.5	16.9	85	ene.			2		10		s.					light fog.
Light House Tender, Laurel, N. 29° 48′ W. 84° 12′†.	30.21	767.3	70	21.1		n.			2		4		w.	0	0			fair.
S. S. Malabar, N. 12° 11′, E. 47° 03′*†.	29.82	757.4				ne.			2									
Bg. Medina, Key Francis, W. I.†.	30.23	767.8				se.			1		0							fine.
S. S. Nebo, S. 9° 12′, W. 35° 02′*†.	29.90	759.4				ne.			2		2		ene.	½ hr	½ hr	mod.	ene.	clear.
S. Paramita, N. 15° 59′ W. 34° 09′†.	29.98	761.5	75	23.9		e.			5		2		ene.	0	0		ene.	clear.
Bk. Peppina, Bordeaux, France†.	29.89	759.2	66	18.9	64	ese.			4		0							clear.
Bg. Potomac, N. 21° 21′, W. 62° 16′*†.	30.05	763.3				ese.			3				ese.			light	ese.	fine.
S. Salisbury, S. 30° 06′, W. 29° 04′*.	30.09	764.2	72.0	22.2	79	n.			5		7		n.	1 h'r	1 h'r	long	wsw.	fair.
Bk. Stella, S. 27° 24′, W. 86° 13′*.	30.12	765.0	71.6	22.0	91	s.			1	4 cs?		s.		0	0	sm'h		cloudy?
U. S. F. C. S. Fish Hawk, Quantico, Va†.	30.20	767.1	54	12.2	79	ssw.			1		2		calm	0	0			clear.
Yacht Vega, St. George, Bermuda*†.	30.40	772.1	72	22.2		e.			3				ese.	0	0			cloudy.
S. Washington, N. 48° 20′, W. 14° 09′*†.	29.55	750.6				nne.			6		10		nne.	2 h'r	2 h'r	r'gh	nne.	cloudy.
Bg. Wauburn, N. 23° 35′, W. 61° 38′*†.	30.20	767.1				se.			3		2		se.	0	0	sm'h		
S. Wm. Woodbury, N. 37° 28′, W. 64° 47′*†.	30.05	763.3	64	17.8	89	sw.			2				w.			light	sw.	cloudy.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 3, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.93	760.3	71.2	21.8	72	sw.			1		1			0	0	very fair	Moiroud.
Algiers			29.82	757.4	69.1	20.6	80	nw.			1		0			inap.	inap.	clear	Nicolas.
La Calle			29.88	759.0	86.7	30.4	44	n.			3		4			0	0	cloudy	Fonfrède.
Tunis			29.97	761.1															Jacques.
Saida			29.96	760.9															Dumas.
Tebessa			29.93	760.1	73.8	23.2	11	se.			6		7			0	0	cloudy	Derché.
Geriville					78.1	25.6	22	n.			1		1			0	0	very fair	Lonchamp.
Laghouat			29.96	761.0	87.4	30.8	74	se.			7		1			0	0	very fair	Abraham.
Biskra			29.94	760.4	86.0	30.0	21	se.			6		7			inap.	inap.	very cloudy	Malau.
Australian.																			
Melbourne, Victoria	30.01	762.2	30.10	764.5	53.1	11.7	80	nw.	5	2.2			4			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.49	749.0	30.02	762.4	73.4	23.0	45	se.			1		0			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.38	746.2	30.14	765.5	58.5	14.7	60	nne.	6.3	2.8			6			0.031	0.8		Dr. Wierzbiski.
Eperies	29.19	741.3	30.06	763.4	59.4	15.2	57	n.			5	1 cs	0	s.		0	0		Julius Mikolik.
Gratz	28.82	732.1	30.05	763.2	64.8	18.2	63	s.			2		0			0	0		Andreas Rospini.
Hermannstadt	28.56	725.5	29.93	760.1	75.7	24.3	21	sw.			2		5			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.66	727.9	29.97	761.1	64.9	18.3	72	ene.			3		0			0	0	clear	The Staff.
Lemberg	29.03	737.3	30.02	762.5	52.9	11.6	79	nw.			4		10			0.083	2.1		Dr. T. Stanecki.
Pola	29.99	761.7	30.10	764.5	70.3	21.3	69	sse.			2		0			0	0		I. R. Hydrographic Office.
Szathmar	29.50	749.3	29.95	760.8	70.5	21.4	54	sw.			4		0			0	0		Joseph Midlinszky, S. J.
Szegedin	29.72	755.0	30.00	761.9	72.9	22.7	48	nw.			2		0			0	0		Karl Stancel.
Trieste	30.01	762.2	30.11	764.8	68.5	20.3	64	w.			1		0			0	0		Rieder.
Vienna	29.35	745.4	30.05	763.2	66.2	19.0	50	ne.			2		0			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.81	757.2	29.90	759.4	49.0	9.4	81	sse.	11	4.9			6			0.265	6.7	d. clouds	W. Boswell.
Armagh, Observatory	29.49	749.0	29.73	755.1	54.2	12.3	68	se.	14	6.3			7					d. clouds	S. Gall.
Bidston, Liverpool Obs'y			29.76	755.9	51.5	10.8	91	ese.	14	6.3			10					raining	John Hartnup.
Bolton, Sharples	29.24	742.7	29.77	756.1	51.7	10.9	86	se.	6	2.7			10					raining.	Thomas Mackereth. [A.S.
Bradford, Yorkshire	29.39	746.5	29.79	756.7	55.1	12.8	73	e.			1		10			0.22	5.6	overcast	J. McLandsborough, F. R
Bridgetown, Barbadoes	29.97	761.2	30.00	762.0	83.0	28.3	67	ne.			2		3					d. clouds	Corpl. J. Surgenor, A. H. C.
Cardington			29.74	755.4	62.4	16.9	74	e.			0.4		9					overcast	John McLaren.
Chatham, School M. E.	29.65	753.1	29.78	756.4	60.2	15.7	79	ne.			1		9					d. clouds	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.48	748.8	29.70	754.4	56.6	13.7	77	ese.			1		3					d. clouds	The Staff.
Fort Napier, Natal	27.58	700.5	29.80	756.9	59.0	15.0	87	n.			1		10					overcast	Pvt. E. K. Annis, A. H. C.
Free Town, Sierra Leone	29.56	750.8	29.79	756.7	85.0	29.4	61	w.			1		3					d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	30.01	762.2	30.06	763.5	64.5	18.1	83	sw.			4		7					d. clouds	Cpl. O. Baldwin.
Glasgow, Observatory	29.59	751.6	29.80	756.9	50.8	10.4	82	ene.			2		10					raining	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.57	751.1	29.74	755.4	59.7	15.4	85	e.			1		9					overcast	The Staff.
Guernsey	29.42	747.3	29.71	754.6	59.3	15.2	86	s.			1		6			blank	blank	d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.71	754.6	29.75	755.6	60.5	15.8	76	e.	15	6.7			7					misty	The Staff.
Leicester, Museum	29.52	749.8	29.78	756.4	51.8	11.0	91	calm			0		10					overcast	J. C. Smith.
Malta, Mediterranean	30.09	764.3	30.17	766.3	70.2	21.2	58	se.			3		2					blue sky	I. H. Whysall.
Nassau, Bahamas	30.12	765.0	30.16	766.1	81.0	27.2	78	sw.			1		5					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.23	742.4	29.74	755.4	56.4	13.6	83	e.			1		6					d. clouds	John Mac Email.
Oxford, Radcliffe Obs'y	29.52	749.8	29.75	755.6	58.2	14.6	79	e.			2		10					overcast	The Staff.
Plymouth	29.62	752.3	29.69	754.1	61.7	16.5	68	s.			3		10					overcast	John Merrifield.
Sandwick Manse, Orkneys			29.58	751.3	51.5	10.8	53	sw.	10	4.5			7					d. clouds	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.95	760.7	30.01	762.2	75.6	24.2	70	nne.			2		1			blank	blank	blue sky	W. H. Lyne.
Sheffield	29.50	749.3	29.78	756.4	55.1	12.8	96	se.			1		10			0.53	13.5	raining	W. F. Cooper.
Silloth Rectory	29.74	755.4	29.77	756.1	59.4	15.2	59	e.			2		10			0.190	4.8	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.81	757.2	53.1	11.7	71	se.	8	3.6			10					drizzling	J. New.
Stratfield Turgiss	29.54	750.3	29.75	755.6	59.7	15.4	79	s.			3		7					d. clouds	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	29.68	753.9	29.71	754.6	66	18.9	58	s.			4		5					d. clouds	W. Newcombe.
Valencia, Observatory	29.69	754.1	29.72	754.9	50.5	10.3	78	n.	18	8.0			10					d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.													10 n						Hon. J. Ferguson.
Charlottetown, P. E. Island	29.70	754.4	29.75	755.6	30	— 1.1	59	w.	17	7.6						0.008	2.0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.68	753.9	29.74	755.4	29	— 1.7	70	sw.	15	6.7		2 k	0	sw.		0.12	3.0	fair	G. A. Blair.
Father Point, Quebec*	29.78	756.4	29.80	756.9	29	— 1.7	92	nw.	40	17.9		2 k	0	nw.		0.06	1.5	clear	J. McWilliams.
Fort Garry, Manitoba*	28.97	735.8	29.80	756.9	41	5.0	89	n.	2	0.9			0			0	0	clear	James Stewart.
Halifax, N. S*	28.79	731.3	29.92	760.0	37	2.8	58	w.	11	6.3			0			0.218	5.5	clear	A. Allison.
Kingston, Ontario*	29.86	758.4	30.21	767.3	38	3.3	75	sw.	16	7.2		10 cs	0			inap.	inap.	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.89	759.2	30.11	764.8	36	2.2	58	sw.	16	7.2			0			0.05	1.3	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.42	747.3	30.13	765.3	40	4.4	57	sw.	11	4.9		5 k	0	w.		0	0	fair	Rev. R. Mosley.
Port Dover, Ontario	29.56	750.8	30.28	769.1	39	3.9	91	sw.	11	4.9			0			0	0	clear	H. Morgan.
Port Stanley, Ontario	29.59	751.6	30.25	768.3	41	5.0	82	s.	16	7.2			0			0	0	clear	M. Payne.
Quebec, Quebec*	29.68	753.9	30.02	762.5	28	— 2.2	77	nw.			1		0			0.01	0.3	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.58	751.3	30.06	763.5	32	0.0	71	calm	0	0		5 c	0	w.		0	0	fair	W. H. McIntyre.
Sangeen, Ontario*	29.44	747.8	30.18	766.6	34	1.1	88	sw.	23	10.3			0			0	0	clear	
St. Andrews, N. B	29.92	760.0	29.97	761.2	35	1.7	70	nw.	7	3.1			0			inap.	inap.	clear	
Sydney, C. B*	29.67	753.6	29.73	755.1	33	0.6	54	w.	33	14.8			0	4 k	w.	0.02	0.5	fair	T. C. Hill, C. E.
Toronto, Ontario*	29.85	758.2	30.25	768.3	36	2.2	64	w.	8	3.6			0			0	0	clear	Magnetic Observatory.
Yarmouth, N. S*	29.99	761.7	30.06	763.5	36	2.2	58	nw.	14	6.3			0			0	0	clear	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.78	756.4	30.04	763.0	40	4.4	100	s.	4	1.8			10 n					raining	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	29.97	761.2	30.00	762.0	63.0	17.2	91	wsw.	14.7	6.6		8 cs	0					raining	John Duthie.
Cape Town, C. G. H. Obs'y	30.13	765.3	30.17	766.3	66.2	19.0	78	s.	17	7.6		8	9			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observer.
Chinese (*Sub-series*).																			
Hankow	29.65	753.1	29.92	760.0	71.4	21.9	85						7			0.70	17.8		N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.67	753.6	29.69	754.2	66.2	19.0	98	nne.	6.0	2.7			10 n			0.295	7.5	covered	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	30.12	765.0	30.17	766.2	52.5	11.4	73	sse.	20	9			5						Oversergent Fischer.
Fanöe	30.00	761.9	30.02	762.4	63.0	17.2	62	ssw.			4		5						Overloerer Lauridsen.
Godthaab, Greenland	29.98	761.6	30.03	762.7	32.9	0.5	76	calm			0		0						S. Kleinschmidt.
Stykkisholm, Iceland	30.08	764.0	30.12	765.1	25.9	− 3.4	95	nw.			2		5						A. O. Thorlacius.
Thorshavn	29.74	755.5	29.78	756.4	48.9	9.4	72	calm	0	0			3						Overloerer Bergh.
Vestervig	29.94	760.5	30.03	762.8	57.7	14.3	66	calm			0		1						Loerer Oesterboi.
French.																			
Agen, Normal School	29.17	740.8	29.80	756.8	67.6	19.8	58	sse.			2		8	sw.	se.	1.646	41.8	raining	M. Labroue, Director.
Alençon, Normal School	29.24	742.8	29.80	756.8	63.3	17.4	80	s.			1		n		s.	0	0		M. Nicot, Director.
Arras, Engineer School	29.50	749.3	29.75	755.6	69.1	20.6	58	s.			3	c	0	sw.		0	0		M. Fénéon, Command't.
Avginon, Normal School	29.76	756.0	29.84	758.0	76.3	24.6	63	calm			0		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.26	743.3	29.80	756.8	73.4	23.0	44	s.			1		3			0	0	slightly cl'dy	M. Saillard, Director.
Beauvais, Normal School	29.52	749.8	29.78	756.4	68.9	20.5	61	sse.			1		8		ssw.	0	0	very cloudy	M. Frère Eugène Mari.
Besançon, Normal School	28.91	734.2	29.78	756.3	73.4	23	54	ene.			1		0			0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.54	750.2	29.79	756.7	61.7	16.5	81	sse.			1		10		sw.			raining	M. Rayet, Director.
Bourges, Normal School	29.28	743.6	29.80	757.0	75.2	24	33	sse.			1		n		sse.	0	0		M. Postel, Director.
Brest, Naval Observatory	29.52	749.9	29.77	756.1	63.3	17.4	67	sw.			1		2		sw.	0.047	1.2		M. de Kermaree, Dir.
Caen, Normal School	29.66	753.3	29.73	755.1	67.3	19.6	67	s.			1		8		s.	0	0	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.43	747.6	29.74	755.4	74.8	23.8	40	sse.			3		2			0	0	slightly cld'y	M. Jadot, Director.
Charleville, Normal School	29.32	744.7	29.82	757.3	72.3	22.4	48	sse.			1		8			0	0	¾ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.43	722.0	29.71	754.6	77.0	25.0	34	s.			3		2 k		s.	0	0	¼ covered	M. Alluard, Director.
Cluny, Normal School	28.98	736.2	29.82	757.3	71.6	22	58	s.			3		0			0	0		M. de Villemontée, Dir.
Commercy, Normal School	28.98	736.2	29.83	757.6	76.1	24.5	36	ese.			3		2 k	ese.	ese.	0	0	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.32	693.8	29.71	754.6	78.8	26	42	se.			1	0	2 k		s.	0	0		M. Jeangirard, Director.
Gréasque, du. Rhone	28.74	730.0	29.82	757.3	75.2	24.0	41	se.			4		1		se.	0	0		M. Kina, Director.
Grenoble, Normal School	29.05	737.8	29.78	756.5	72.5	22.5	54	ese.			1		0			0	0	clear	M. Ablard, Director.
Guéret, Normal School	28.22	716.9	29.74	755.5	69.8	21	42	s.			1		k		s.	0.185	4.7		M. Rivoire, Director.
Lamballe, Normal School	29.45	748.1	29.72	754.8	64.4	18	63	w.			1		1		w.	0	0	clear	M. Ollitrault, Director.
Lescar, Normal School	29.26	743.1	29.78	756.4	59.0	15	85	wsw.			1		10					raining	M. Chauvin, Director.
Lorient, Naval Observatory	29.69	754.1	29.79	756.7	62.6	17.0	55	w.			2		5		s.	0	0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.78	731.1	29.80	756.9	72.1	22.3	53	e.			1		0			0	0	clear	M. André, Director.
Mans, Normal School	29.45	748.0	29.75	755.6	67.5	19.7	59	sw.			1		8		s.	0	0	very cloudy	M. Piboen, Director.
Marseille, Observatory	29.59	751.5	29.85	758.2	77.0	25.0	47	ese.			2		3		s.	0	0		M. Stephan, Director.
Montlouis l'Instituteur	24.66	626.4	29.50	749.4	50.0	10.0	92	ne.	11.2	5.0			9		e.	0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.73	755.1	29.85	758.3	66.9	19.4	76	s.			3		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.05	737.9	29.80	757.0	73.0	22.8	45	nne.			2	c	0			0	0		M. Hasse, Director.
Nantes, Observatory	29.63	752.5	29.79	756.6	67.5	19.7	46	wsw.			0-3		10 kn		wsw.	0.012	0.3		M. Larocque, Director.
Perpignan, Observatory	29.73	755.1	29.84	757.8	62.2	16.8	81	sw.	16.8	7.5			10		se.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.06	534.9			29.8	− 1.2		se.			1		10		se.	0.134	3.4	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.80	731.4	29.82	757.3	73.8	23.2	44	n.			1					0	0		M. Tallieu.
Puy de Dôme Obs'y, Summit	25.02	635.6			53.1	11.7	69	ssw.			4	0	2 k			0	0	¼ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	29.74	755.5	29.78	756.3	62.6	17.0	94	s.			1		10			0.193	4.9	raining	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.52	749.8	29.73	755.2	60.8	16	87	e.			1		10			0	0	covered	M. Mouillot, Director.
Rodez, Normal School	27.73	704.4	29.84	757.9	59.7	15.4	83	n.			1		8		nw.	0	0	very cloudy	M. Serger, Director.
Rouen, Normal School	29.69	754.2	29.74	755.4	70.2	21.2	56	se.			1		5		se.	0	0	cloudy	M. Brotier.
Saint Maur, Observatory	29.61	752.2	29.78	756.4	73.6	23.1	52	e.			1		2	sw.		0	0		M. Renou, Director.
Toulouse, Observatory	29.09	738.9	29.81	757.2	68.0	20.0	67	sse.			6		2	se.		0	0	slightly cl'dy	M. Baillaud, Director.
Tours	29.57	751.0	29.74	755.4				sw.			1		5	sw.	sw.	0	0	cloudy	
Versailles, Observatory	29.29	744.0	29.78	756.5	71.6	22.0	48	sw.			2					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.50	749.2	29.79	756.6	72.5	22.5	54	se.			1		8	ssw.		0	0		M. Marié Davy, Director
German.																			
Bamberg	29.14	740.1	29.99	761.8	68.9	20.5	50	s.			3	0	2 s			0.008	0.2		Prof. Dr. Hoh.
Berlin	29.92	759.9	30.09	764.3	62.6	17.0	39	se.			1		3			0	0		Prof. Dr. Arndt.
Breslau	29.67	753.5	30.20	767.1	58.3	14.6	61	sse.			2		10			0.287	7.3		Royal University Obs'y.
Carlsruhe	29.47	748.5	29.90	759.4	69.4	20.8	57	ne.			2		0			0	0		Albert Senz.
Cassel	29.26	743.2	29.97	761.2	64.0	17.8	58	e.			1		0			0	0		Dr. H. Möhl.
Frankfort on the Main	29.58	751.2	29.93	760.2	64.0	17.8	60	ese.			1		1			0	0		Physical Society.
Friedrichshafen	28.48	723.5	29.91	759.7	56.1	13.4	87	ssw.			2		0			0	0		Wilhelm, Chief Tel.
Hamburg	29.96	761.0	30.06	763.4	62.1	16.7	48	ese.			4		4	sw.		0	0		E. Preller.
Kiel	30.04	763.1	30.06	763.5	60.1	15.6	50	ese.			2		2			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.63	752.7	30.05	763.3	61.5	16.4	64	e.			6		8	e.		0.098	2.5		H. Leppig, Asst.
Magdeburg	29.87	758.6	30.05	763.3	63.7	17.6	45	e.			4	4 c	0	sw.		0	c		Dr. Assmann.
Memel	30.20	767.1	30.25	768.3	54.5	12.5	52	n.			4	0	6 ks						Issermann.
Munich	28.16	715.2	30.02	762.5	63.5	17.5	64	e.			1					0.035	0.9		Central Station.
Neufahrwasser	30.23	767.9	30.25	768.3	48.4	9.1	76	ene.			2		5	w.		0	0		A. Lothes.
Neustadt, Palatinate	29.38	746.3	29.91	759.8	67.3	19.6	61	calm			0		1			0	0		Dicknether.
Stuttgart	28.97	735.7	29.83	757.7	68.9	20.5	58	n.					0			0	0		Prof. Dr. Schoder.
Wustrow	30.14	765.5	30.16	766.1	63.0	17.2	51	e.			1	0	8 k; s		wsw.	0	0		Profs. Brandes & Reimer.
Greek.																			
Athens	29.66	753.4			81.5	27.5		sw.			1.0		4			0	0	misty	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.63	752.5	29.68	753.8	86.0	30.0	76	w.	35.0	15.6			0			0	0	misty	
Deesa	29.11	739.3	29.56	750.7	102.8	39.3	20	w.	13.2	5.9			2		wsw.	0	0	d. clouds	
Bombay	29.74	755.4	29.78	756.3	86.2	30.1	58	w.	11.0	4.9			0			0	0	blue sky	
Poona, Yarrowda	27.89	708.3	29.69	754.2	90.7	32.6	7	w.	24.0	10.7			0			0	0	blue sky	
Bellary	28.23	717.0	29.63	752.7	100.0	37.8	19	w.	12.2	5.4			0			0	0	blue sky	
Belgaum	27.25	692.2	29.76	755.8	82.4	28.0	45	wsw.	12.0	5.4			0			0	0	misty	
Lahore	28.77	730.8	29.48	748.9	98.2	36.8	11	w.	1.7	0.8			0			0	0	blue sky	
Roorkee	28.01	726.8	29.47	748.6	96.3	35.7	8	nw.	1.8	0.8			4			0	0		
Agra	28.95	735.2	29.49	749.0	98.1	36.7	16	nw.	5.5	2.5			0			0	0		
Nagpur	28.53	724.7	29.52	749.9	101.5	38.6	13	sw.	7.5	3.4			3	w.		0	0	d. clouds	
Jubbulpore	28.25	717.6	29.56	750.7	97.1	36.2	12	sw.	4.2	1.9			5			0	0	d. clouds	
Lucknow	29.11	739.4	29.47	748.5	100.9	38.3	16	e.	3.3	1.5			8			0	0	d. clouds	
Allahabad	29.20	741.6	29.49	749.1	99.2	37.3	10	w.	2.6	1.2			9		n.	0	0	d. clouds	
Patna	29.37	745.9	29.54	750.4	96.3	35.7	12	nnw.	3.8	1.7			4	nnw.	nnw.	0	0	d. clouds	
Hazaribagh	27.58	700.5	29.52	749.7	92.8	33.8	24	sw.	7.3	3.3			10			0	0	misty	
Cuttack	29.57	751.0	29.65	753.0	84.0	28.9	51	sw.	6.9	3.1			9			0.43	10.9	drizzling	
Calcutta, Alipore	29.52	749.9	29.54	750.4	86.5	30.3	65	ssw.	6.0	2.7			4	sw.	sw.	0.09	2.3	d. clouds	
Dhubri	29.45	748.1	29.57	751.0	84.5	29.2	76	ne.	5.8	2.6			2	w.		0	0	d. clouds	
Chittagong	29.59	751.6	29.68	753.9	74.8	23.8	91	sw.	7.9	3.5			8			0.38	9.6	d. clouds	
Sibsagar	29.38	746.2	29.72	754.8	73.2	22.9	84	ne.	5.2	2.3			10	w.	w.	0.11	2.8	d. clouds	
Jeypore	28.13	714.6	29.52	749.7	98.7	37.1	9	wnw.	7.0	3.1			3		wnw.	0	0	d. clouds	
Zanzibar, Africa	29.86	758.4			81.7	27.6	79	e.	2.5	1.1			7		ese.	0.52	13.2	d. clouds	
Italian.																			
Udine	29.70	754.4	30.10	764.6	72.1	22.3	77	se.	1.8	0.8			0			0	0		Prof. Giovanni Clodig.
Milan	29.58	751.4	30.10	764.4	72.3	22.4	48	ne.	2.5	1.1			4	ese.		0	0		Prof. Schiaparelli.
Padua	29.98	761.4	30.09	764.2	70.3	21.3	60	ese.	5.6	2.5			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.18	741.2	30.08	764.0	68.7	20.4	53	s.	1.8	0.8			8	se.		0.205	5.2		Prof. P. F. Denza.
Genoa	29.86	758.5	30.06	763.4	70.7	21.5	48	n.	3.1	1.4			6	sw.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.19	716.1	30.12	765.0	63.9	17.7	52	w.			4		9			0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
ITALIAN.—Continued.																			
Pesaro	30.04	763.1	30.09	764.3	59.4	15.2	88	e.	6.3	2.8			10	n.		0	0		Prof. Luigi Guidi.
Florence	29.78	756.5	30.03	762.8	77.4	25.2	28	sse.			2		1			0	0		Prof. Costantino Pitter.
Leghorn	29.88	759.0	29.97	761.2	71.2	21.8	45	s.	2.5	1.1			4			0	0		Prof. P. Monte.
Rome	29.88	758.9	30.05	763.2	76.6	24.8	34	sse.	9.8	4.4			10			0	0		Prof. P. S. Ferrari.
Lecce	29.83	757.6	30.08	763.8	76.6	24.8	59	wsw.	9.4	4.2			7			0	0		Prof. C. de Giorgi.
Cosenza	29.20	741.6	30.07	763.7	74.3	23.5	77	sse.	3.1	1.4			3	s.		0	0		Prof. D. Conti.
Cagliari	29.72	754.8	29.91	759.7	72.3	22.4	58	se.			6		10			0	0		Prof. A. Pacinotti.
Palermo	29.80	757.0	30.05	763.3	75.9	24.4	34	ene.	1.8	0.8			10			0	0		Prof. G. Ciaccolatore.
Syracuse	30.01	762.3	30.06	763.4	72.7	22.6	56	s.	7.4	3.3			5	s.		0	0		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.52	749.8	30.03	762.7	79.7	26.5	45	sw.	3.1	1.4			4	nw.		0	0		Prof. T. Brioschi.
Stelvio	22.29	566.1			41.7	5.4	63	w.			4		0			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.31	566.7			43.3	6.3	61	e.			2		10			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	30.09	764.3	30.13	765.3	52.0	11.1	41	e.	6.1	2.7			10 s			0	0	overcast	K. Ogawa.
Hakodate	30.17	766.3	30.18	766.6	47.8	8.8	67	e.	12.0	5.4			10			0	0	overcast	
Hiroshima, I. M. Obs'y	29.92	759.9	29.93	760.2	62.0	16.7	83	wsw.	0.4	0.2		7ck;cs	0			0.014	0.4	overcast	J. Sogawa.
Kanazawa	29.90	759.4	30.00	762.0	59.2	15.1	80	ese.	4.9	2.2		2cs;ck	0			0	0	fair	S. Eudo.
Kioto	29.85	758.2	30.03	762.7	61.5	16.4	76	s.	4.0	1.8		8ck;cs	0			0	0	fair	M. Tojima.
Kochi	30.04	763.0	30.06	763.5	65.5	18.6	77	e.	8.6	3.8		10ck;cs	0	s.		0.040	1.0	cloudy	K. Kusunose.
Nagasaki, I. M. Obs'y	29.71	754.6	29.91	759.7	67.6	19.8	66	sse.	6.1	2.7		10 cs	0			0.940	23.9	cloudy	S. Takehayashi.
Niigata	29.98	761.5	30.02	762.5	65.2	18.4	59	se.	8.1	3.6		10 ck	0			0	0	covered	M. Morita.
Nobiru	30.21	767.3	30.22	767.6	51.8	11.0	73	nnw.	4.9	2.2			10 s			0.015	0.4	covered	H. Midzushina.
Supporo					45.0	7.2	81	se.	6.0	2.7			10			0	0	covered	
Tokei Obs'y, Yeddo	30.06	763.5	30.13	765.3	63.5	17.5	82	se.	7.3	3.3		7 c;cs	0			0	0	fair	The Staff.
Wakayama	29.99	761.7	30.04	763.0	64.2	17.9	61	s.	4.3	1.9		10 ck	0	w.		0	0	cloudy	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.82	757.4	30.01	762.2	77.9	25.5	64	e.	17.5	7.8		0	4 k		ese.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.78	603.9	30.00	761.9	59.2	15.1	61	calm	0	0		0	1 ks			0	0	clear	Prof. Vicente Fernandez.
Leon	24.33	618.0	29.97	761.2	60.4	15.8	71	n.			1	0	0			0	0	dense fog	Prof. M. Leal.
Mazatlan	29.77	756.1	30.03	762.7	69.0	20.6	95	ene.					mist					misty	F. Quijano, C. E.
Mexico, Central Obs'y	23.21	589.5	30.30	769.5	50.4	10.2	76	calm	0	0		0	1 ks			0	0	fine	The Staff.
Morelia	24.27	616.5	30.34	770.5	63.1	17.3	76	se.			2	1	2	e.	se.	0	0		M. Tena, M. D.
Pabellon, Aguascalientes	24.06	611.1	30.06	763.5	60.1	15.6	72	calm			0	0	0			0	0	fine	M. Y. de Leon, M. E.
Puebla, Catholic Institute	23.45	595.5	30.28	769.2	49.1	9.5	98	calm	0	0		0	0			0.012	0.3	clear	Prof. P. Spina.
San Luis Potosi	24.30	617.1	30.24	768.0	59.5	15.3	75	e.			1	3	0	w.		0	0	½ clouded	G. Barroeta, M. D.
Zacatecas	22.63	574.9	30.23	768.0	55.2	13.0	70					0	4 n		ne.	inap.	inap.	½ clouded	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.82	757.5	29.82	757.5	65.1	18.4		ese.			4					0	0		
Groningen	29.87	758.7	29.93	760.1	64.8	18.2		s.			4					0	0		
Helder	29.88	758.9	29.88	758.9	60.6	15.9		e.			4					0.008	0.2		
Hellevoetsluis	29.84	757.9	29.84	757.9	63.9	17.7	64	ese.			2					0	0		
Utrecht	29.83	757.7	29.88	758.9	66.0	18.9	57	se.			4		2			0	0	lightly cl'dy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.91	759.7	29.97	761.3	45.7	7.6	72	s.	29	13			7			0	0		
Brono	29.84	757.8	29.87	758.8	49.6	9.8	70	n.	4	2			8			0	0		
Christiania	29.89	759.2	30.04	762.9	56.3	13.5	66	ssw.	9	4			6			0.020	0.5		
Gjesvær	29.76	755.8	29.78	756.4	30.2	— 1.0		wnw.			7		10						
Lodingen	29.85	758.1	29.89	759.3	35.8	2.1	75	ne			2		9			0	0		
PORTUGUESE.																			
Angra, Azores					60.8	16.0	67	w.	13.0	5.8			3			0	0		Dr. J. A. Sampaio.
Campo Major	28.93	734.9	29.93	760.3	57.9	14.4	52	wnw.	14.3	6.4			9			0.272	6.9		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.16	766.1	30.25	768.3	64.9	18.3	51	sw.					7			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.68	753.8	30.04	763.0	57.7	14.3	50	wnw.	18.6	8.3			5			0.524	13.3		The Staff.
Ponta Delgada, Azores	30.27	768.9	30.34	770.7	64.4	18.0	53	wnw.	5.6	2.5			4			0	0		
Saint Paul de Loando	29.69	754.2	29.89	759.3	81.7	27.6	89	wnw.	0.7	0.3			6	e.		0	0		
Serra da Estrella	25.09	637.4	29.95	760.7	33.8	1.0	100	wnw.	28.0	12.5			10			0.673	17.1	light fog	
RUSSIAN.																			
Akmolinski	29.08	738.6	30.17	766.3	48.9	9.4	48	nw.	16	7		3 ck	0			0	0		Major K. Lasarew.
Archangel	29.96	760.9	29.98	761.4	40.8	4.9	89	ssw.	9	4			10			0	0		Capt. Sselliwerstow.
Astrakhan	29.90	759.4	29.82	757.3	69.3	20.7	51	wsw.	9	4		0	3 k			0	0		Capt. Wisganow.
Barnaul	29.53	750.1	30.05	763.3	31.1	— 0.5	61	w.	9	4			10			0.028	0.7		Meteorological Obs'y.
Dorpat	29.95	760.6	30.19	766.7	59.4	15.2	42	nnw.	7	3		0	2 k			0	0		Observatory.
Ekaterinburg	29.21	741.9	30.16	766.0	62.8	17.1	18	wsw.	9	4		1 c	0			0	0	light clouds	Meteorological Obs'y.
Kasan	29.86	758.4	30.13	765.3	55.9	11.3	53	e.	13	6			10			0.071	1.8		Observatory.
Kertch	29.94	760.4	29.96	760.9	58.5	14.7	66	se.	4	2		2 c	0			0.020	0.5		Lagorio & Sastyrex.
Kieff	29.21	742.0	29.82	757.3	75.4	24.1	24	nnw.	2	1		ck;cs	8 ks			0	0		Observatory.
Lugan	29.60	751.9	29.80	757.0	57.4	14.1	59	nnw.	9	4			9			0.024	0.6		Meteorological Obs'y
Moscow	29.49	749.0	29.94	760.5	70.3	21.3	32	sse.	4	2			4 ks						Meteorological Obs'y.
Nikolaiev	29.92	760.0	29.99	761.8	76.8	24.9	36	sw.	9	4		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	30.24	768.2	30.33	770.4	35.6	2.0	87	calm	0	0			10			0.016	0.4		Lieut. Iwanow.
Pekin, China	29.70	754.4	29.84	758.0	70.7	21.5	28	sw.	6	3		0	0			0	0		Physical Observatory
St. Petersburg	30.15	765.9	30.17	766.3	52.9	11.6	64	w.	4	2		0	2 ks;k			0	0		Central Physical Obs'y.
Semipalatinsk	29.48	748.9	30.16	766.1	39.6	4.2	34	w.	13	6			9 k			blank	blank	heavy cl'ds.	Major Lasarew.
Tashkend, Laboratory	28.49	723.6	30.00	762.1	71.2	21.8	42	nnw.	4	2			0			0	0		Teich, A. M.
Tiflis	28.47	723.1	29.85	758.1	67.6	19.8	35	nw.	9	4		0	7 n			0.043	1.1		Physical Observatory
Vladivostock	29.81	757.2	29.88	758.9	41.7	5.4	74	e.	20	9			10 k			0.787	20.0		
Warsaw	29.72	755.0	30.15	765.8	53.2	11.8	61	nnw.	13	6			10 ks						Astronomical Obs'y.
Wilna	29.69	754.1	30.11	764.9	47.1	8.4	88	n.	9	4			10			0.122	3.1	heavy cl'ds.	Berg, Assistant.
Yeniseisk	29.59	751.5	29.88	758.9	41.4	5.2	83	e.	9	4			10			0.063	1.6		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.73	755.1	29.83	757.7	62.6	17.4	76	e.	3.8	1.7			9			0	0	almost cov'd	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.75	755.6	29.81	757.1	65.5	18.6	57	w.	1.1	0.5			10			0	0	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.89	682.9	29.81	757.1	55.9	13.3	63	sw.	7.8	3.5			8			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.62	701.6	29.83	757.6	58.3	14.6	58	sw.	13.6	6.1			9			0.016	0.4	almost cov'd	The Staff.
Murcia, Met. Obs'y	29.67	753.5	29.82	757.3	64.8	18.2	89	s.	1.6	0.7		5	5	e.		0.394	10.0	raining	Olayo Diaz, Director.
Santiago, Met. Obs'y	28.89	733.8	29.79	756.7	54.5	12.5	87	sw.	9.8	4.4			9			0.295	7.5	almost cov'd	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	30.04	762.9	30.10	764.6	78.0	25.6	79	nne.	0	0		2 ck	1 k	nw.	ne.	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.83	757.6	29.89	759.1	84.7	29.3	79	ssw.	8.6	3.8		3 ck	3 n	e.	sw.	0	0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.94	760.5	30.04	763.0	60.4	15.8	63	w.	4.7	2.1		0	4		w.	0.294	7.5		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.99	761.7	30.08	764.0	77.7	25.4	86	calm	0	0		2 k	4 kn	e.	e.	0.008	0.2	cloudy	Manuel Maese.
Tuguegarao, Philippine Id's	29.79	756.7	29.92	760.0	80.1	26.7	85	sse.	7.4	3.3			9 kn		s.	inap.	inap.	covered	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.91	759.6	29.95	760.6	45.3	7.4	69	sw.			2		5			0	0		
Umea	29.91	759.7	29.96	761.0	51.4	10.8	56	sw.			2		5			0	0		
Hernosand	29.90	759.5	29.95	760.8	50.5	13.6	40	sw.			4		4			0	0		
Stockholm	29.97	761.2	30.15	765.7	59.0	15.0	46	wsw.			2		2			0	0		
Wisby	30.15	765.8	30.21	767.3	51.4	10.8	58	w.			4		0			0	0		
Sub-series.																			
Upsala	30.04	763.0	30.13	765.2	47.8	8.8	88	sw.	14.5	6.5			8		w.	0.087	2.2		S. G. Fineman.
SWISS.																			
Geneva	28.49	723.6	29.89	759.3	59.9	15.5	72	n.			1					0.024	0.6	clear	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
TURKISH.																			
Constantinople	.....	.....	30.08	763.9	70.3	21.3	32	ne.	9	4.0	.....	.....	0	.....	.....	0	0	.....	The Observatory.
Valona	.....	.....	30.15	765.9	74.3	23.5	.....	sw.	.....	.....	1	.....	2	.....	.....	0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.88	759.0	70.5	21.4	74	sw.	.....	.....	3	8 c	0	calm	.....	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.22	767.6	30.30	769.6	46	7.8	40	w.	8	3.6	.....	5 cs	0	.....	.....	inap.	inap.	fair	J. O. Barnes.
Alpena, Michigan	29.45	748.0	30.11	764.8	40	4.4	57	w.	10	4.5	.....	4 cs	2 s	w.	.....	0	0	fair	Jas. J. Fitzgerald.
Atlanta, Georgia	29.08	738.6	30.25	768.3	56.5	13.6	54	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	H. Hall.
Atlantic City, New Jersey	30.35	770.9	30.36	771.1	42	5.6	50	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	Jas. M. Watson.
Augusta, Georgia	30.06	763.5	30.25	768.3	59	15.0	75	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	John Healy.
Baltimore, Maryland	30.36	771.1	30.41	772.4	44	6.7	51	w.	1	0.4	.....	hz.	4 ks:hz:	.....	se.	0	0	fair	Robert Seyboth.
Barnegat, New Jersey	30.36	771.1	30.38	771.6	42.0	5.6	44	w.	7	3.1	.....	0	0	.....	.....	0	0	clear	Chas. F. Merritt.
Bismarck, Dakota	27.96	710.2	29.74	755.4	43	6.1	93	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	Cyrus Cramer.
Boise City, Idaho	27.18	690.4	30.02	762.5	44	6.7	68	w.	1	0.4	.....	.....	10 s	.....	w.	0	0	cloudy	B. E. Light.
Boston, Massachusetts	30.10	764.5	30.26	768.6	39.0	3.9	46	w.	12	5.4	.....	0	0	.....	.....	0.04	1.0	clear	O. B. Cole.
Brownsville, Texas	30.04	763.0	30.08	764.0	74	23.3	90	se.	4	1.8	.....	0	0	.....	.....	inap.	inap.	clear	M. McCarty.
Buffalo, New York	29.51	749.5	30.25	768.3	38	3.3	62	s.	14	6.3	.....	0	hz.	.....	.....	inap.	inap.	clear	Wm. Finn.
Burlington, Vermont	29.87	758.7	30.16	766.1	38.5	3.6	53	s.	9	4.0	.....	0	0	.....	.....	0.01	0.3	clear	G. C. Schaeffer.
Cairo, Illinois	29.82	757.4	30.22	767.6	57.6	14.2	60	s.	8	3.6	.....	.....	10 s	.....	sw.	inap.	inap.	threatening	W. H. Ray.
Campo, California	27.46	697.5	29.99	761.7	35	1.7	89	s.	2	0.9	.....	.....	fg.	.....	w.	0	0	light fog	W. H. Clendenon.
Camp Thomas, Arizona	27.21	691.1	29.88	758.9	63	17.2	32	se.	.....	.....	1	.....	9 ks	.....	sw.	0	0	cloudy	J. T. Fitzgerald.
Cape Henry, Virginia	30.37	771.4	30.39	771.9	49	9.4	63	e.	18	8.0	.....	0	0	.....	.....	0	0	clear	J. E. Lanouette.
Cape May, New Jersey	30.36	771.1	30.40	772.1	42	5.6	42	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. Bolten.
Cedar Keys, Florida	30.16	766.1	30.18	766.6	70	21.1	84	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	F. W. Mixer.
Champaign, Illinois	29.34	745.2	30.14	765.5	45.3	7.4	65	s.	11	4.9	.....	.....	9 s	.....	sw.	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.18	766.6	30.23	767.8	63	17.2	93	ne.	13	5.8	.....	.....	10 s	.....	calm	0	0	threatening	J. H. Smith.
Charlotte, N. Carolina	29.44	747.8	30.28	769.1	52.0	11.1	82	ne.	8	3.6	.....	0	hz.	.....	.....	0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.48	748.8	30.29	769.4	50.0	10.0	86	n.	1	0.4	.....	1 cs	fg.	.....	.....	0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	23.97	608.8	29.84	757.9	41.9	5.5	33	nw.	10	4.5	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.46	748.3	30.16	766.1	47.8	8.8	48	s.	7	3.1	.....	7 k	0	nw.	.....	0	0	fair	J. Mitchell.
Chincoteague, Virginia	30.37	771.4	30.39	771.9	47	8.3	56	ne.	8	3.6	.....	0	0	.....	.....	0	0	clear	V. P. Temple.
Cincinnati, Ohio	29.64	752.8	30.29	769.4	44.2	6.8	71	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	R. B. Watkins.
Cleveland, Ohio	29.57	751.1	30.30	769.6	35.5	1.9	62	se.	10	4.5	.....	0	0	.....	.....	0	0	clear	J. B. Newlin.
Coleman City, Texas	28.25	717.5	30.04	763.0	69	20.6	81	s.	12	5.4	.....	0	8 s	.....	s.	0	0	cloudy	L. Dorman.
Columbus, Ohio	29.44	747.8	30.28	769.1	40	4.4	57	se.	6	2.7	.....	0	0	.....	.....	0	0	clear	D. Cuthbertson.
Concho, Texas	28.08	713.2	29.98	761.5	70	21.1	76	s.	20	8.9	.....	8 ck	0	s.	.....	0	0	cloudy	W. W. McConihe.
Davenport, Iowa	29.47	748.5	30.11	764.8	48	8.9	77	se.	6	2.7	.....	.....	10 n	.....	calm	0.13	3.3	light rain	R. R. Martin.
Dayton, Washington T'y	28.18	715.8	29.93	760.2	47	8.3	86	sw.	2	0.9	.....	6 ck	0	sw.	.....	0.01	0.3	fair	H. Clifford.
Deadwood, Dakota	25.18	639.6	29.68	753.9	48	8.9	68	sw.	3	1.3	.....	6 k	0	nw.	.....	0	0	fair	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	62	16.7	50	se.	12	5.4	.....	0	6 ks	.....	se.	.....	.....	fair	D. J. Carr.
Delaware Breakwater, Del.	30.38	771.6	30.40	772.1	44	6.7	60	ne.	11	4.9	.....	0	0	.....	.....	0	0	clear	A. Schneider.
Denison, Texas	29.21	741.9	29.99	761.7	68.0	20.0	84	s.	10	4.5	.....	0	0	.....	.....	0	0	clear	J. McGlone.
Denver, Colorado	24.67	626.6	29.83	757.7	52.0	11.1	59	w.	3	1.3	.....	.....	10 s	.....	calm	0	0	cloudy	F. M. Neal.
Des Moines, Iowa	29.04	737.6	29.93	760.2	52	11.1	80	s.	8	3.6	.....	.....	10 s	.....	s.	0.20	5.1	threatening	F. W. Conrad.
Detroit, Michigan	29.56	750.8	30.26	768.6	45.1	7.3	76	s.	7	3.1	.....	0	0	.....	.....	0	0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.24	691.9	29.78	756.4	57	13.9	100	s.	8	3.6	.....	.....	fg.	.....	.....	0.08	2.0	dense fog	E. A. Thomas.
Dubuque, Iowa	29.37	746.0	30.07	763.8	50	10.0	64	s.	5	2.2	.....	.....	10 s	.....	s.	0	0	threatening	J. Harvey Smith.
Duluth, Minnesota	29.20	741.7	29.90	759.4	46	7.8	68	sw.	1	0.4	.....	1 cs	2 k	calm	.....	0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.28	743.7	30.08	764.0	73.0	22.8	84	s.	8	3.6	.....	.....	10 s	.....	s.	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.18	639.6	29.86	758.4	41	5.0	62	s.	22	9.8	.....	0	0	.....	.....	0	0	clear	J. M. Clifford.
Eastport, Maine	29.93	760.2	30.00	762.0	36.5	2.5	62	w.	11	4.9	.....	0	0	.....	.....	0.09	2.3	clear	J. H. Melton.
El Paso, Texas	26.35	669.3	29.99	761.7	65	18.3	37	nw.	5	2.2	.....	2 c	0	calm	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.59	751.6	30.31	769.9	39	3.9	65	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	R. H. Paxton.
Escanaba, Michigan	29.37	746.0	30.03	762.7	40	4.4	89	s.	8	3.6	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	C. Dill.
Fort Apache, Arizona	25.08	637.0	29.90	759.4	50	10.0	40	e.	3	1.3	.....	.....	10 s	.....	calm	0	0	cloudy	W. C. Barnes.
Fort Assinnaboine, Montana	26.94	684.3	29.78	756.4	51	10.6	74	sw.	12	5.4	.....	3 c	1 s	sw.	sw.	0	0	fair	B. O. Lenoir.
Fort Bennett, Dakota	28.09	713.5	29.65	753.1	44	6.7	63	se.	10	4.5	.....	1 c	0	w.	.....	0	0	clear	A. Pritchard.
Fort Benton, Montana	27.00	685.8	29.79	756.7	48	8.9	58	sw.	3	1.3	.....	9 cs	0	calm	.....	0	0	cloudy	G. W. Davis.
Fort Buford, Dakota	27.80	706.1	29.78	756.4	44	6.7	68	ne.	2	0.9	.....	4 cs	0	calm	.....	0	0	fair	A. H. Bell.
Fort Custer, Montana	26.61	675.9	29.71	754.6	53	11.7	69	sw.	4	1.8	.....	0	2 s	.....	calm	0	0	clear	V. Verge.
Fort Davis, Texas	25.22	640.6	29.94	760.5	61	16.1	72	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. Williams.
Fort Elliott, Texas	27.10	688.3	29.80	756.9	59	15.0	49	nw.	12	5.4	.....	0	0	.....	.....	0	0	clear	W. J. Cundall.
Fort Gibson, Indian T'y	29.42	747.3	29.98	761.5	62.4	16.9	93	se.	8	3.6	.....	.....	10 s	.....	sw.	0.91	23.1	cloudy	J. B. Campbell.
Fort Grant, Arizona	25.27	641.8	29.88	758.9	63	17.2	40	sw.	3	1.3	.....	3 cs	5 s	.....	.....	0	0	cloudy	T. J. Mackowan.
Fort Keogh, Montana	27.22	691.4	29.67	753.6	54	12.2	50	n.	4	1.8	.....	6 cs	0	.....	.....	0	0	fair	W. B. Stockman.
Fort Macon, North Carolina	30.27	768.8	30.28	769.1	58	14.4	54	e.	24	10.7	.....	0	0	.....	.....	0	0	clear	L. Leonardy.
Fort McKavett, Texas	27.79	705.9	30.03	762.7	64	17.8	84	s.	12	5.4	.....	0	0	.....	.....	0	0	clear	J. E. Thatcher.
Fort Missoula, Montana	26.60	675.6	29.90	759.4	41	5.0	100	ne.	1	0.4	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	J. H. Jones.
Fort St. Michaels, Alaska	29.46	748.3	29.49	749.0	15	— 9.4	100	n.	12	5.4	.....	.....	10 s	.....	.....	0	0	threatening	A. P. Leavitt.
Fort Shaw, Montana	26.18	665.0	29.78	756.4	46	7.8	86	w.	5	2.2	.....	5 cs	0	sw.	.....	0.01	0.3	fair	A. L. Mathews.
Fort Sill, Indian Territory	28.68	728.5	29.90	759.4	66	18.9	93	s.	16	7.2	.....	0	0	.....	.....	0	0	clear	T. Cleary.
Fort Stevenson, Dakota	27.95	709.9	29.78	756.4	42	5.6	82	nw.	2	0.9	.....	5 c	0	.....	.....	0	0	fair	W. Burrows.
Fort Verde, Arizona	.....	.....	.....	.....	55.6	13.1	42	w.	.....	.....	1	.....	10 s	.....	sw.	0	0	cloudy	D. Brooks.
Fort Washakie, Wyoming	24.31	617.5	.....	.....	42.7	5.9	55	w.	4	1.8	.....	1 k	0	w.	.....	0	0	clear	T. M. Ambler.
Fredericksburg, Texas	28.32	719.3	30.04	763.0	68	20.0	93	sw.	14	6.3	.....	.....	10 ks	.....	sw.	0	0	cloudy	H. S. Miles.
Galveston, Texas	30.11	764.8	30.15	765.8	72	22.2	76	s.	12	5.4	.....	3 c	2 ks	.....	s.	0	0	fair	E. O'C. MacInernev.
Grand Haven, Michigan	29.52	749.8	30.18	766.6	43.0	6.1	51	se.	8	3.6	.....	0	0	.....	.....	0	0	clear	W. A. Reid.
Hatteras, North Carolina	30.28	769.1	30.30	769.6	53	11.7	66	ne.	28	12.5	.....	0	0	.....	.....	0	0	clear	R. M. Crawford.
Helena, Montana	25.62	650.7	29.80	756.9	46	7.8	76	calm	0	0	.....	10 c	0	.....	.....	0.05	1.3	cloudy	S. Wheaton.
Henrietta, Texas	28.97	735.8	29.95	760.7	71.0	21.7	57	s.	14	6.3	.....	0	3 s	.....	.....	0	0	fair	J. W. Byram.
Huron, Dakota	28.37	720.6	29.72	754.9	53.1	11.7	61	se.	6	2.7	.....	0	0	.....	.....	0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.45	748.0	30.24	768.1	45.5	7.5	57	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	O. Schutze
Indianola, Texas	30.10	764.5	30.13	765.3	70.3	21.3	90	s.	5	2.2	.....	3 c	2 k	n.	s.	0	0	fair	I. A. Reed.
Jacksboro, Texas	28.80	731.5	29.95	760.7	71	21.7	82	s.	12	5.4	.....	7 c	2 s	.....	s.	0	0	cloudy	J. P. Sherry.
Jacksonville, Florida	30.15	765.8	30.19	766.8	73	22.8	82	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. W. Smith.
Keokuk, Iowa	29.41	747.0	30.06	763.5	47.5	8.6	93	e.	13	5.8	.....	.....	10 s	.....	e.	0.37	9.4	threatening	F. Z. Gosewisch
Key West, Florida	30.10	764.5	30.12	765.0	80.5	26.9	69	e.	5	2.2	.....	0	2 k	.....	e.	0	0	clear	L. M. Melbourne.
Kittyhawk, North Carolina	30.37	771.4	30.39	771.9	50	10.0	52	e.	16	7.2	.....	hz.	0	.....	.....	0	0	clear	E. A. Beals.
Knoxville, Tennessee	29.26	743.2	30.28	769.1	50	10.0	64	n.	2	0.9	.....	0	fg.	.....	.....	0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.22	742.2	29.98	761.5	52	11.1	53	s.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	S. C. Emery.
La Mesilla, New Mexico	26.14	663.9	29.90	759.4	56.0	13.3	64	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	N. D. Lane.
Leavenworth, Kansas	29.06	738.1	29.94	760.5	60	15.6	81	s.	10	4.5	.....	.....	10 n	.....	sw.	0.09	2.3	thund'rst'm	A. W. Browne.
Lewiston, Idaho	29.09	738.9	29.93	760.2	52	11.1	96	e.	3	1.3	.....	.....	10 n	.....	.....	0.04	1.0	light rain	J. M. Burlew.
Little Rock, Arkansas	29.80	756.9	30.11	764.8	63	17.2	84	se.	4	1.8	.....	0	9 s	.....	s.	0	0	cloudy	W. U. Simmons.
Los Angeles, California	29.73	755.1	30.13	765.3	47.1	8.4	77	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.68	753.9	30.23	767.8	47	8.3	68	ne.	3	1.3	.....	1 c	sk.	.....	.....	0	0	clear	H. C. Smyth.
Lynchburg, Virginia	29.72	754.9	30.40	772.1	42.0	5.6	76	calm	0	0	.....	hz.	0	.....	.....	0	0	clear	W. R. Bushby.
Madison, Wisconsin	29.10	739.1	30.10	764.5	45	7.2	76	s.	7	3.1	.....	8 cs	0	w.	.....	0	0	cloudy	C. A. Shaw.
Marquette, Michigan	29.22	742.2	29.94	760.5	47	8.3	56	sw.	22	9.8	.....	.....	10 s	.....	sw.	0	0	cloudy	J. Gilligan.
Memphis, Tennessee	29.82	757.4	30.15	765.8	64	17.8	63	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.40	746.7	30.14	765.5	45	7.2	60	s.	13	5.8	.....	7 ck	0	sw.	.....	0	0	fair	W. Line.
Mobile, Alabama	30.19	766.8	30.23	767.8	60	15.6	70	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. D. Paxton.
Montgomery, Alabama	30.01	762.2	30.24	768.1	58.4	14.7	71	n.	1	0.4	.....	7 c:hz	0	w.	.....	0	0	fair	J. B. McLaughlin.

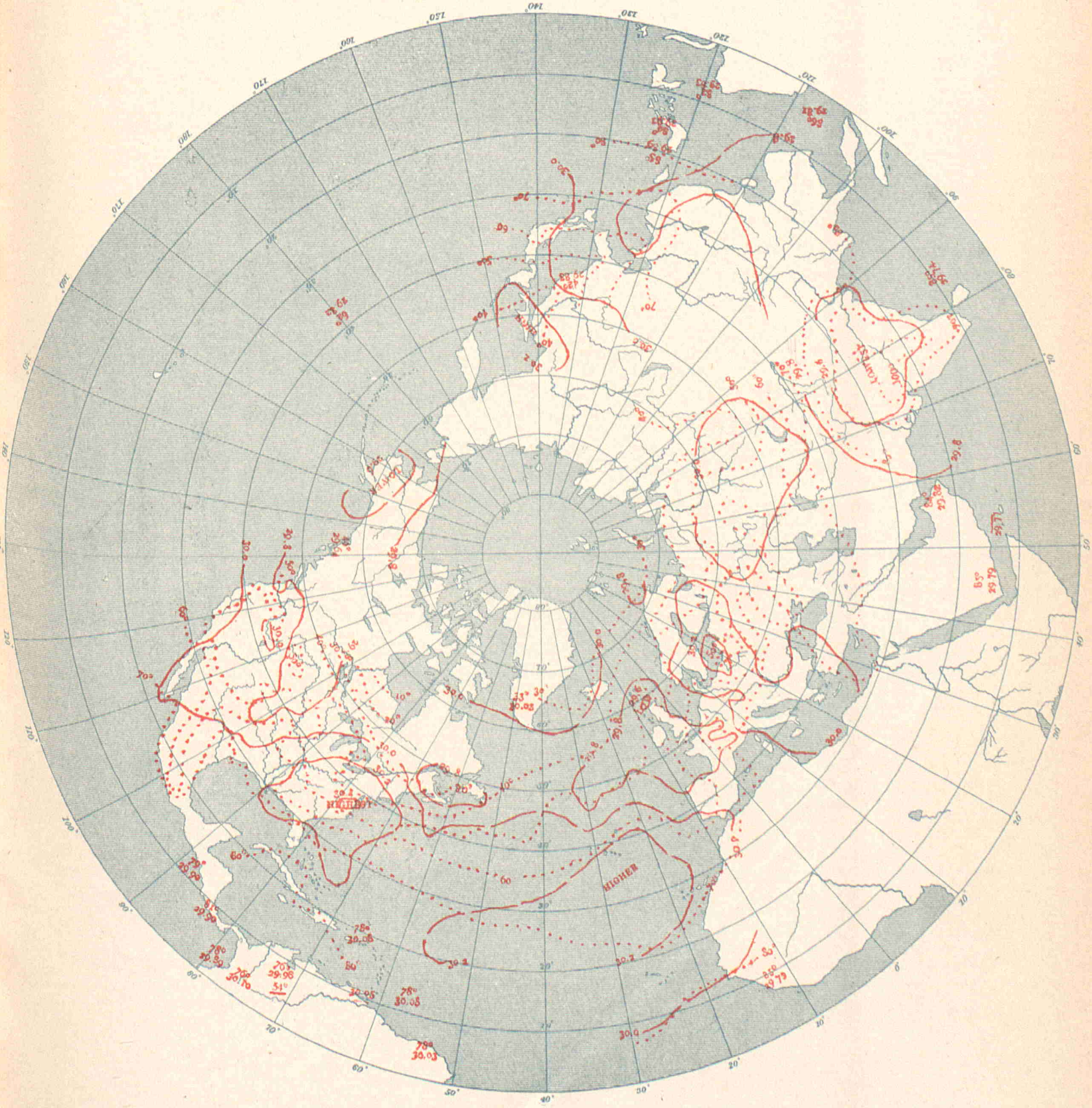
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Moorhead, Minnesota	28.80	731.5	29.78	756.4	47	8.3	86	se.	12	5.4		0	0			0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.31	744.5	30.32	770.1	44.0	6.7	51	calm	0	0		hz.	0			0	0	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.49	596.6	29.67	753.6	7.0	—13.9	83	nw.	82	36.6			fg.		nw.	0.44	11.2	light fog	J. G. Linsley.
Nashville, Tennessee	29.72	754.9	30.25	768.3	53.0	11.7	72	ne.	3	1.3		0	4 k		w.	0	0	fair	L. A. Jesunofsky.
New Haven, Connecticut	30.21	767.3	30.33	770.4	38	3.3	53	w.	5	2.2		8 c	0	w.		0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.26	768.6	30.32	770.1	43	6.1	60	nw.	8	3.6		4 c	0	n.		0	0	fair	J. G. Lynch.
New Orleans, Louisiana	30.13	765.3	30.18	766.6	68.0	20.0	84	e.	1	0.4		3 c	sk.			0	0	clear	L. Dunne.
Newport, Rhode Island	30.23	767.8	30.28	769.1	41.2	5.1	45	w.	13	5.8		6 c	0	nw.		0	0	fair	W. McGillivray.
New River, N. Carolina					56	13.3	45	ne.			2	0	0			0	0	clear	C. C. Corbin.
New Shoreham, Rhode I'd.	30.27	768.8	30.30	769.6	40.0	4.4	48	nw.	15	6.7		2 c	0			0	0	clear	W. Davis.
New York, New York	30.18	766.6	30.36	771.1	38	3.3	53	w.	8	3.6		1 cs	0			0	0	clear	E. B. Garriott.
Norfolk, Virginia	30.36	771.1	30.39	771.9	54	12.2	55	e.	8	3.6		0	hz.			0	0	clear	J. T. Elker.
North Platte, Nebraska	26.92	683.8	29.79	756.7	58.1	14.5	86	s.	4	1.8			10 s			0	0	cloudy	E. F. Brady.
Olympia, Washington T'y	29.73	755.1	29.77	756.1	48.0	8.9	93	calm	0	0			10 s			0.54	13.7	cloudy	J. Dascomb.
Omaha, Nebraska	28.73	729.7	29.89	759.2	59.7	15.4	88	s.	8	3.6			10 s			0	0	cloudy	A. Pollak.
Oogiaamie, Pt. Barrow, Alas.	29.84	757.9	29.86	758.4	2.8	—16.2	97	ne.	18	8.0			10 n			0.02	0.5	light snow	P. H. Ray.
Oswego, New York	29.90	759.4	30.23	767.8	40.0	4.4	57	sw.	8	3.6		2 c	0	w.		0.02	0.5	clear	S. W. Beall.
Palestine, Texas	29.58	751.3	30.14	765.5	63.5	17.5	90	s.	9	4.0		4 ck	0	sw.		0	0	fair	L. M. Pindell.
Pensacola, Florida	30.19	766.8	30.22	767.6	63.8	17.7	63	nw.	6	2.7		1 cs	0			0	0	clear	M. McGauran.
Philadelphia, Pa.	30.29	769.4	30.39	771.9	43	6.1	43	nw.	4	1.8		0	0			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.80	452.1	29.86	758.4	21.5	— 5.8	85	sw.	34	15.2		8 cs	0	sw.		0.02	0.5	fair	L. M. Dey.
Pioche, Nevada	23.93	607.8	29.85	758.2	45	7.2	32	se.	8	3.6		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.52	749.8	30.32	770.1	35.0	1.7	72	n.	2	0.9		0	fg.			0	0	clear	J. H. Bryce.
Poplar River, Montana	27.64	702.0						s.			1	0	0			0	0	clear	U. D. Maxwell.
Port Eads, Louisiana	30.20	767.1	30.21	767.3	69.6	20.9	78	n.	10	4.5		2 c	0	w.		0	0	clear	H. G. Christian.
Port Huron, Michigan	29.55	750.6	30.23	767.8	39.8	4.3	62	sw.	8	3.6		0	0			0	0	clear	W. O. Bailey.
Portland, Maine	30.09	764.3	30.14	765.5	39.0	3.9	46	sw.	12	5.4		0	0			0.11	2.8	clear	D. C. Murphy.
Portland, Oregon	29.78	756.4	29.85	758.2	50.2	10.1	93	calm	0	0			10 n		se.	0.49	12.4	light rain	M. L. Hearne.
Portsmouth, N. Carolina					56	13.3	74	ne.	33	14.8		hz.	0	calm		0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.77	629.1	29.87	758.7	42	5.6	63	s.	3	1.3		0	0			0	0	clear	J. Mc N. Wright.
Provincetown, Mass.	30.20	767.1	30.24	768.1	39	3.9	65	w.	12	5.4		1 cs	0	sw.		0.02	0.5	clear	P. T. Jenkins.
Punta Rassa, Florida	30.12	765.0	30.13	765.3	70.5	21.4	87	ne.	8	3.6		0	1 ks		ne.	0.20	5.1	clear	W. J. Evans.
Red Bluff, California	29.65	753.1	30.02	762.5	53.8	12.1	74	se.	9	4.0			10 s		s.	0	0	cloudy	J. M. Frantz.
Rio Grande City, Texas	29.85	758.2	30.09	764.3	74	23.3	90	s.	4	1.8			10 s		s.	0	0	cloudy	P. M. Wilson.
Rochester, New York	29.57	751.1	30.23	767.8	35	1.7	69	sw.	14	6.3		0	hz.			0.01	0.3	clear	F. Gillam.
Roseburg, Oregon	29.32	744.7	29.87	758.7	47	8.3	93	s.	8	3.6			10 n			0.11	2.8	light rain	J. J. Nanry.
Sacramento, California	30.02	762.5	30.10	764.5	53.2	11.8	80	se.	5	2.2		0	5 s		sw.	inap.	inap.	fair	J. A. Barwick.
St. Louis, Missouri	29.54	750.3	30.14	765.5	52.5	11.4	72	se.	13	5.8			10n;fg			inap.	inap.	light rain	J. H. Webber.
St. Paul, Minnesota	29.06	738.1	29.91	759.7	49.0	9.4	77	se.	13	5.8			10 s		se.	c	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	28.91	734.3	29.77	756.1	40	4.4	82	calm	0	0		0	sk.		calm	0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.49	647.4	29.81	757.2	56	13.3	28	se.	17	7.6		2 k	0	sw.		0	0	clear	J. Craig.
San Antonio, Texas	29.38	746.2	30.08	764.0	71.5	21.9	90	se.	6	2.7			10 s		s.	0	0	cloudy	E. Lane.
San Diego, California	30.00	762.0	30.07	763.8	53.2	11.8	72	ne.	2	0.9		0	0			0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.60	751.8	30.26	768.6	41	5.0	57	s.	14	6.3		0	0			0	0	clear	M. H. Perry.
Sandy Hook, New Jersey	30.33	770.4	30.37	771.4	40.0	4.4	65	nw	10	4.5		0	0			inap.	inap.	clear	B. A. Blundon.
San Francisco, California	30.03	762.7	30.10	764.5	55	12.8	83	s.	5	2.2		0	7 s		s.	0.01	0.3	fair	N. Gorom.
Santa Fé, New Mexico	23.27	591.0	29.88	758.9	46.2	7.9	24	ne.	6	2.7		5 c	0	sw.		0	0	fair	H. U. Jones.
Savannah, Georgia	30.12	765.0	30.21	767.3	65	18.3	52	nw.	4	1.8		0	0			0	0	clear	H. W. Ford.
Shreveport, Louisiana	29.90	759.4	30.14	765.5	63	17.2	90	s.	3	1.3		2 c	2 s			0	0	fair	E. N. Meekins.
Silver City, New Mexico	24.32	617.7	29.87	758.7	51	10.6	41	w.	1	0.4		6 cs	0	calm		0	0	fair	J. B. Wallace.
Sitka, Alaska	29.58	751.3	29.64	752.8	40.2	4.6	82	e.	3	1.3		7 cs	1 ks	calm	sw.	0	0	cloudy	J. J. McLean.
Smithville, North Carolina	30.24	768.1	30.28	769.1	60	15.6	65	ne.	16	7.2		0	0			0.02	0.5	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.85	707.4	29.90	759.4	46	7.8	71	calm	0	0		10 k	0			0	0	cloudy	D. Moore.
Springfield, Illinois	29.45	748.0	30.12	765.0	50	10.0	55	s.	12	5.4			10 s		sw.	0	0	cloudy	T. B. Jennings.
Springfield, Massachusetts	30.17	766.3	30.30	769.6	41.6	5.3	48	w.	4	1.8		7 c	0	w.		0	0	fair	T. S. Outram.
Springfield, Mo.	28.63	727.2	30.11	764.8	57	13.9	90	s.	9	4.0			10 n			0.13	3.3	light rain	J. B. Marbury.
Stockton, Texas	27.00	685.8	30.00	762.0	65.5	18.6	58	sw.	20	8.9			10 s		sw.	0.02	c.5	cloudy	J. O'Dowd.
Thatcher's Island, Mass.	30.11	764.8	30.16	766.1	38.7	3.7	68	w.	20	8.9		0	0			0.05	1.3	clear	F. R. Day.
Toledo, Ohio	29.56	750.8	30.24	768.1	43	6.1	60	w.	5	2.2		0	0			0	0	clear	A. Buell.
Tucson, Arizona	27.55	699.8	29.89	759.2	63	17.2	40	s.	3	1.3			10 s			0	0	cloudy	J. L. Whiteside.
Umatilla, Oregon	29.58	751.3	29.95	760.7	52	11.1	86	s.	2	0.9			10 s			0.14	3.6	cloudy	J. Daly.
Uvalde, Texas	29.10	739.1	30.05	763.3	72	22.2	82	se.	6	2.7			10 ks		s.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.93	760.2	30.18	766.6	62	16.7	68	e.	7	3.1		4 c	0	calm		0	0	fair	H. T. Brisbane.
Visalia, California																			W. L. Seward.
Washington, D. C.	30.30	769.6	30.41	772.4	43.6	6.4	51	s.	3	1.3		0	sk.			0	0	clear	B. M. Purssell.
West Las Animas, Colorado	25.94	658.9	29.80	756.9	47	8.3	71	w.	8	3.6		5 c	3 s	w.	w.	0	0	cloudy	J. Grover.
Williamsport, Pa.	29.75	755.6	30.35	770.9	34	1.1	65	w.	6	2.7		0	hz.			inap.	inap.	clear	B. F. Hough.
Wilmington, N. Carolina	30.23	767.8	30.28	769.1	57	13.9	57	ne.	7	3.1		0	0			inap.	inap.	clear	A. T. Sherwood.
Winnemucca, Nevada	25.60	650.2	29.95	760.7	41	5.0	59	sw.	6	2.7		0	4 ks		sw.	0	0	fair	J. R. Williams.
Yankton, Dakota	28.50	723.9	29.78	756.4	59	15.0	75	sw.	8	3.6			10 s			0	0	cloudy	J. H. Atfield.
Yuma, Arizona	29.77	756.1	29.92	760.0	62.3	16.8	56	calm	0	0			10 s			0	0	cloudy	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.05	560.1			53.5	11.9	73	calm	0	0			10ks;s		sw.	0	0	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.07	763.8	30.08	764.0	78	25.6	95	e.					10					light rain	J. A. Racker.
Buenaventura, U. S. C.	30.07	763.8	30.10	764.5	76	24.4	95	s.	4	1.8		0	6 n		s.	0.01	0.3	raining	J. I. Plume.
Guadeloupe, W. I.																			B. Bigar.
Havana, Cuba, W. I.	30.08	764 0	30.13	765.3	81	27.2	79	calm	0	0		0	5 ks		calm	0	0	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.05	763.3	30.06	763.5	80.0	26.7	72	calm	0	0		10c;cs	0			0	0		Robert Johnston.
Magua, San Domingo					73	22.8		e.			1	3 cs	0	sw.		0	0		S. M. Pike.
Navassa, W. I.																			F. M. Everett.
Paramaribo, S. A.	30.03	762.7	30.03	762.7	78	25.6	91	e.			2		8 ps	e.	e.	0.060	1.5	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.52	749.8	29.98	761.5	76	24.4	89	calm			0		10 s		calm	0.42	10.7	raining	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							86	ne.			5	5 c	1 ks	se.	ne.	0	0	fair	Earl Flint.
Santiago de Cuba, W. I.	30.02	762.5	30.05	763.3	80	26.7	74	calm	0	0		2 ck	5 s		ne.	0	0	cloudy	Robert Mason.
York Factory, B. A.	29.92	760.0	29.97	761.2	5.0	—15.0	88	nw.	11	4.9		0	0			0.01	0.3	clear	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
British Naval.																		
H. M. S. Alert, Glorisa Island, Madagascar	29.88	758.9	85.2	29.6	69	ese.			2		2							d. clouds.
H. M. S. Alexandra, Malta, Mediterranean	30.15	765.8	70	21.1	66	sse.			2		4							d. clouds.
H. M. S. Amethyst, N. 37° 00′, W. 13° 16′	30.06	763.5	59.5	15.3	85	nw.			3		2	nnw.				4	wnw.	d. clouds.
H. M. S. S. S. Champion, S. 13° 45′ W. 92° 10′			68	20.0	94	ese.			5		7					5	ese.	showery.
H. M. S. Comus, N. 7° 05′, E. 118° 07′	29.83	757.7	81.5	27.5	100	ene.			2		0							blue sky.
H. M. S. Coquette, Alexandria, Malta	29.98	761.5	67	19.4		wnw.			2		0							blue sky.
H. M. S. Dido, N. 18° 20′, W. 66° 00′	30.10	764.5	78	25.6		e.			4		3	e.						d. clouds.
H. M. S. Druid, N. 13° 23′, W. 81° 23′	30.02	762.5	82	27.8	87	ne.			3-4		2	ne.				2	ne.	d. clouds.
H. M. S. Dwarf, S. 32° 18′, W. 58° 03′	29.97	761.2	54.5	12.5	93	calm			0		0							d. clouds.
H. M. S. Emerald, S. 41° 20′, E. 174° 55′	29.79	756.7	53	11.7	93	n.			3		2	n.						d. clouds.
H. M. S. Euryalus, Trincomalee, Ceylon	29.74	755.4	85	29.4	100	ese.			1		1	calm						blue sky.
H. M. S. Fantome, Samana, Hayti, W. I.	30.06	763.5	79	26.1		calm			0		3	se.				3	e.	d. clouds.
H. M. S. Flying Fish, N. 31° 36′, E. 131° 26′	29.95	760.7	70	21.1	87	calm			0		7					1	e.	misty.
H. M. S. Fawn, N. 12° 45′, E. 45° 00′	29.79	756.7	84.5	29.2	50	e.			3		0							blue sky.
H. M. S. Gannet, S. 28° 40′, W. 72° 15′	30.06	763.5	58	14.4	78	s.			4-5		7					2	s.	d. clouds.
H. M. S. Garnet, Colonia, Uruguay	29.96	761.0	59	15.0	81	nw.			2		0							foggy.
H. M. S. Inconstant, Simon's Bay, Cape Colony	30.18	766.6	63	17.2	61	ese.			3		8	e.						d. clouds.
H. M. S. Iron Duke, N. 28° 17′, E. 129° 18′	29.91	759.7	72	22.2	95	e.			1									d. clouds.
H. M. S. Lark, S. 8° 18′, E. 156° 22′	29.95	760.7	79.3	26.3		ene.			3		9					2	ene.	showery.
H. M. S. Magpie, N. 34° 56′, E. 139° 52′	30.12	765.0	63.4	17.4	89	sse.			1		1	wnw.						blue sky.
H. M. S. Northampton, Bermuda, W. I.	30.05	763.3	69	20.6	79	wnw.			5		10	wnw.						d. clouds.
H. M. S. Pegasus, N. 1° 17′, E. 103° 51′	29.81	757.2	85.5	29.7	89	sw.			1		2							d. clouds.
H. M. S. Rambler, Elephant Bay, Benguela	29.89	759.2	76	24.4	90	w.			3		0							blue sky.
H. M. S. Rocket, N. 48° 27′ W. 123° 27′	29.82	757.4	47	8.3	55	nne.			1		6							d. clouds.
H. M. S. Tenedos, N. 44° 40′ W. 63° 35′	29.90	759.4	35	1.7	61	wnw.			2-3		1							squally.
H. M. S. Triumph, S. 28° 47′, W. 72° 07′	30.08	764.0	58	14.4	87	s.			5		10	calm				4	s.	d. clouds.
H. M. S. Tyne, Suez Bay, Egypt	29.95	760.7	73	22.8	76	nne.			2		1							blue sky.
H. M. S. Woodlark, N. 21° 30′ E. 59° 28′	29.72	754.9	83.5	28.6	79	s.			3-4		0					2	s.	blue sky.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verd Island	30.09	764.2	77.5	25.3	81	ne.			3		3		ne.			2		d. clouds.
Tamega, Macao, China	29.77	756.2	78.8	26.0	88	s.			2		9		ssw.	3 h'r	3 h'r			overcast.
Swedish Naval.																		
Balder, N. 46° 13′ W. 24° 30′	29.78	756.3	54.1	12.3	84	wnw.			6		10							misty.
United States Naval.																		
Navy Yard, Pensacola, Fla	30.19	766.8	64	17.8	68	nnw.	4	1.8			2		ne.	0	0			fair.
Naval Hospital, Portsmouth, N. H.	30.25	768.3	38	3.3	63	w.	14	6.3			0			0	0			clear.
Naval Hospital, Yokohama, Japan	29.93	760.2	63	17.2	83	s.			2		2		w.	0	0			clear.
Adams, N. 23° 22′ W. 109° 22′	29.75	755.6	72	22.2	90	calm			0		5		sw.	0	0	sm'h		fair.
Alaska, N. 3° 00′, W. 79° 28′	29.89	759.2	78	25.6	91	ssw.			2		10			0.3	8.	sm'h		cloudy.
Alert, Kobe, Japan*	29.91	759.7	67	19.4	74	calm			0		10		calm	0	0	sm'h		hazy.
Alliance, Hampton Roads, Va.	30.40	772.1	52	11.1	66	e.			3		2			0	0	sm'h		clear.
Ashuelot, Kobe, Japan	29.92	760.0	65	18.3	89	calm			0		2		calm					clear.
Brooklyn, Montevideo, Uruguay	29.95	760.7	56	13.3	94	nw.	3	1.3			2		calm	0	0	sm'h		fair.
Colorado, New York, N. Y.	30.37	771.4	42	5.6	58	nw.	9	4.0			2		calm	0	0			fair.
Enterprise, Hampton Roads, Va*	30.36	771.1	52	11.1	73	e.			4		2		e.					clear.
Essex, S. 26° 12′, W. 43° 16′	30.02	762.5	74	23.3	76	ene.			3		8		ne.			long		overcast.
Franklin, Norfolk, Va.	30.42	772.7	52	11.1	60	ene.	4.8	2.1			0			0	0			clear.
Galena, Villafranca, France	29.97	761.2	70	21.1	75	e.			2-6		10		e.			sm'h		cloudy.
Independence, Mare Island, Cal.	29.91	759.7	56	13.3	94	sw.			4		8		w.	0	0			cloudy.
Irquois, Mare Island, Cal.	30.09	764.3	56	13.3	87	ssw.			3		10		ssw.					cloudy.
Kearsage, Hampton Roads, Va†	30.40	772.1	51	10.6	79	e.			2		2					sm'h		clear.
Lackawanna, Callao, Peru†	30.12	765.0	63	17.2	94	calm			0		10		se.	0	0			hazy.
Lancaster, Villafranca, France*	29.90	759.4	70	21.1	66	sse.			2		2		se.					fair.
Marion, S. 24° 18′, W. 29° 26′	29.95	760.7	74	23.3	90	ne.			5		5		ne.	mod.	mod.	mod.	ne.	fair.
Michigan, Erie, Pa	30.14	765.5	40	4.4	100	s.			2		0							clear.
Minnesota, Newport, R. I.	30.27	768.8	41	5.0	49	nw.	6	2.7			0							clear.
Monocacy, Kobe Japan	30.05	763.3	65	18.3	89	calm			0		10		calm					cloudy.
New Hampshire, Newport, R. I.	30.24	768.1	44	6.7	84	wnw.			5		0					sm'h		clear.
Nipsic, Villafranca, France	29.94	760.5	71	21.7	52	e.			4		2		e.			sm'h		clear.
Onward, Callao, Peru†	30.11	764.8	61	16.1	100	calm			0		10		n.			long	w.	cloudy.
Palos, Kobe, Japan	30.04	763.0	66	18.9	68	ssw.			2		10		sw.					hazy.
Passaic, Washington, D. C.	30.43	772.9	46	7.8	92	calm			0		0							clear.
Pensacola, Callao, Peru	29.98	761.5	62	16.7	88	calm	0	0			10			0	0	sm'h		misty.
Portsmouth, N. 47 59′, W. 15° 21′	29.87	758.7	52	11.1	100	n.			3		10		n.			long	n.	overcast.
Powhatan, N. 28° 38′ W. 79° 41′	30.17	766.3	75	23.9	81	nne			2		2		ne.			sm'h		clear.
Quinnebaug, Villafranca, France	29.92	760.0	70	21.1	57	ese.			4		2		calm			sm'h		clear.
Ranger, Altata Bar, Mexico*	29.93	760.2	72	22.2	90	calm			0		10		calm	0	0	sm'h		cloudy.
Richmond, Kobe, Japan*	29.96	761.0	67	19.4	74	sw.			1		8		sw.	0	0			cloudy.
Saratoga, N. 47° 15′ W. 13° 16′	29.72	754.9	51	10.6	100	nne.			6		5		ne.	light	light	mod.	ne	fair.
Shenandoah, New York, N. Y*	30.42	772.7	43	6.1	59	w.			2		2							clear.
St. Louis, League Island, Pa	30.51	774.9	42	5.6	66	calm	0	0			0			0	0			clear.
Swatara, Chefoo, China*	29.70	754.4	55	12.8	80	ne.			1		10		calm			sm'h		foggy.
Tennessee, Fort Monroe, Va.	30.41	772.4	54	12.2	67	ene.	7	3.1			0			0	0			clear.
Vandalia, Hampton Roads, Va*	30.45	773.4	51	10.6	72	ene.			3		2		n.					clear.
Wabash, Boston, Mass.	30.25	768.3	38	3.3	72	w.	7	3.1			2		w.	0.04	1.0			fair.
Wachusetts, Security Bay, Alaska	29.58	751.3	40	4.4	91	calm			0		8			0	0	sm'h		fair.
Wyoming, Port Royal, S. C.	30.19	766.8	63	17.2	83	ene.	8	3.6			0			0	0			clear.
Yantic, Fort Monroe, Va*†	30.58	776.7	53.	11.7	67	e.			3		2							clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Prussian, Glasgow, Scotland			57	13.9		sse.			2		9?		se.	3 h'r	3 h'r			clear.?
S. S. Waldensian, Greenock, Scotland*	29.76	755.9	48	8.9		var.			1		10		sw.	3 h'r	3 h'r			rainy.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, Liverpool, Eng	29.69	754.1	55	12.8	93	se.			5		10		se.					raining.
S. S. Indiana, N. 52° 30′ W. 5° 15′†	29.86	758.4	54	12.2	79	e.			3		10		ene.	light	light	sm'h	n.	cloudy.
S. S. Lord Clive, N. 50° 10′, W. 23° 00′*	29.62	752.3				ssw.			3		10		s.	3 h'r	3 h'r	mod.	nnw.	overcast.
S. S. Ohio, N. 42° 10′, W. 43°, 35′	30.21	767.3	58	14.2	93	nw.			1		2		w.			sm'h	nw.	clear.
ANCHOR LINE.																		
S. S. Bolivia, N. 55° 30′, W. 7° 20′†	29.76	755.9	48	8.9		ene.			4		4?		ene.	rain	rain	long	nne.	overcast?
S. S. Elysia, N. 42° 23′, W. 51° 03′†	30.19	766.8	55	12.8		s.			2		3		sw.	o	o	mod.	wsw.	clear.
S. S. Utopia, N. 39° 19′, W. 21° 06′†	30.38	771.6	65	18.3	68	w.			2		8		w.	o	o	mod.	nw.	fair.
ATLAS LINE.																		
S. S. Ailsa, Savanilla, U. S. C.†	29.90	759.4	80	26.7	86	ne.			2–3		10		ne.	o	o			dull.
S. S. Alvo, Inagua Island, W. I.	30.09	764.3				e.			6		4		e.	o	o	mod.	e.	fair.
S. S. Athos, Kingston, Jamaica, W. I	29.56	750.8																
S. S. Claribel, N. 18° 13′, W. 72° 34′*†	30.20	767.1	80	26.7	86	se.			1		9		calm	1½ h'r	1½ h'r	mod.	se.	squally.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 32° 08′, W. 24° 50′	30.11	764.8	70	21.1	85	nne.			4		10							misty.
British Merchant, S 28° 41′ E. 49° 46′	29.90	759.4	78	25.6	82	nw.			4		5							d. clouds.
Bk. Coppename, N. 50° 26′, W. 8° 00′	29.70	754.4	56	13.3	78	wsw.			1		3							blue sky.
Earnock, N. 24° 16′, W. 40° 10′	30.27	768.8	73	22.8	90	ene.			4		2							blue sky.
Glencairn, S. 21° 30′, E. 76° 00′	30.01	762.2	76	24.4	81	se.			5		3							d. clouds.
Minho, N. 23° 36′, W. 19° 31′	30.20	767.1	68	20.0	79	ne.			5		10							overcast.
CUNARD LINE.																		
S. S. Marathon, N. 42° 32′, W. 49° 26′	30.19	766.8	48	8.9		ese.			1		1		ese.	o	o	sm'h	ssw.	clear.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Ville de Marseilles, Naples, Italy *†	30.20	767.1	80	26.7		n.			2		0			o	o			clear.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 43° 25′, W. 47° 09′*†	30.09	764.3				w.			3		3		w.	o	o	mod.	nw.	fine.
S. S. Gellert, N. 45° 55′, W. 35° 00′	30.01	762.2	56	13.3		nw.			5		5		w.	o	o	long	nw.	fair.
S. S. Lessing, Gluckstadt, Denmark	29.98	761.4	72	22.2		s.			2		8			o	o			cloudy.
S. S. Silesia, Elbe River, Germany†	30.14	765.5	66	18.9		se.			4–5		2		se.	o	o			fair.
S. S. Wieland, N. 40° 51′, W. 67° 28′	30.22	767.6	43	6.1		nw.			4		0			1½ h'r	1½ h'r	3–4	nw.	clear.
INMAN LINE.																		
S. S. City of New York, N. 51° 21′, W. 15° 07′	29.86	758.4				ne.			3		2		ne.	o	o	long	nne.	clear.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, Montevideo, Uruguay*†	30.10	764.5	62	16.7		ssw.			1		3		sw.	o	o			hazy.
S. S. Humboldt, S. 18° 03′, W. 38° 38′*	29.98	761.5	78.5	25.8	82	ne.			3		4 k			o	o	1		d. clouds.
LEYLAND LINE.																		
S. S. Iberian, N. 42° 27′. W. 65° 57′	30.10	764.5				w.			3					o	o	slight	sw.	clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 40° 40′, W. 72° 38′†	30.00	762.0	43	6.1	91	w.			4		1		w.	o	o	sm'h		clear.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenapp, N. 3° 37′, W. 49° 16′*†	29.90	759.4				se.			4		10		se.	3 h'r	3 h'r	mod.	se.	raining.
NATIONAL LINE.																		
S. S. Denmark, N. 51° 30′, E. 0° 25′	29.79	756.7	60	15.6		e.			3		8		se.	o	o			cloudy.
S. S. Erin, N. 47° 48′, W. 29° 37′	29.75	755.6	48	8.9		wnw.			6		10		nw.	4 h'r	4 h'r	mod.	w.	squally.
S. S. Helvetia, N. 46° 42′, W. 34° 40′			50	10.0		wnw.			4		7		w.	rain	rain	sm'h		cloudy.
S. S. Italy, N. 51° 14′, W. 15° 12′	29.92	760.0	50	10.0		ene.			2		2		ene.	o	o	sm'h		clear.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Niagara, Havana, Cuba, W. I.†	30.16	766.1	78	25.6	86	calm			0		3		ne.	o	o			
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, N. 22° 50′ W 84° 48′*†	30.20	767.1	79	26.1	86	nne.			3		5		ne.	o	o	small	ese.	d. clouds.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N. 48° 48′, W. 15° 03′*†	30.02	762.5	55	12.8		nw.			3								ssw.	cloudy.
S. S. Lepanto, N. 45° 18′, W. 36° 33′*	30.03	762.7	57	13.9		nw.			5								nw.	clear.
S. S. Olbers, N. 21° 00′, W. 23° 20′*†	30.20	767.1	70	21.1		ne.			5–6								ne.	
S. S. P. Caland, N. 43° 48′ W. 39° 40′	30.13	765.3	59.9	15.5		nw.			4							3	nw.	fine.
NORTH GERMAN LLOYD.																		
S. S. Elbe, N. 49° 35′ W. 19° 46′	29.79	756.6	48.2	9.0	80	sse.			3		10		sse.	o	o	sm'h	nne.	cloudy.
S. S. Graf Bismarck, Rio de Janeiro, Brazil	29.94	760.5	78.8	26.0		var.			2		4		e.	2 h'r	2 h'r			fair.
S. S. Hermann, N. 42° 20′ W. 44° 46′†	30.08	764.0	51.8	11.0		wnw.			2		1		w.	o	o	light	wnw.	fair.
S. S. Kronprinz F. Wilhelm, N. 40° 24′, W. 68° 10′	30.24	768.1	39.2	4.0		wnw.			4		0			o	o	3	nw.	clear.
S. S. Lepzig, N. 48° 30′. W 23° 23′	29.70	754.4	54.0	12.2	86	sw.			6		10		sw.	2 h'r	2 h'r	sm'h		raining.
S. S. Main, N 46° 12′, W. 34° 23′	30.06	763.5	54.5	12.5		wnw.			5		2		w.	o	o	cross	w.	clear
S. S. Neckar, Off Needles, Isle of Wight	29.60	751.8	59.9	15.5		se.			3		5		s.	o	o			fine.
S. S. Oder, N. 42° 01′, W. 48° 30′	30.23	767.8	55.4	13.0		sse.			3		4		s.	o	o	sm'h	s.	fair.
S. S. Ohio, Bremerhaven, Germany	29.98	761.5				sse.			4		1		s.	o	o			clear.
S. S. Rhein, Bremerhaven, Germany	29.93	760.2				ssw.			3–4		2		ssw.	o	o			clear.
S. S. Salier, Bremerhaven, Germany	30.02	762.5	54.5	12.5		e.			4		5		s.	o	o			hazy.
S. S. Strassburg, N. 50° 49′, E. 0° 46′	29.74	755.4	59	15.0	100	se.			2–3		4		se.	o	o	sm'h	se.	clear.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, N 36° 24′ E 176° 37′†	29.82	757.4	62	16.7	83	wsw.			6		5		w.	sq'lls	sq'lls	high	wsw.	fair.
S. S. Gaelic, N. 37° 59′, W 125° 09′†	30.36	771.1	55	12.8	87	ssw.			5		8		w.			high	w.	cloudy.
S. S. Oceanic, N. 24° 34′, E. 119° 05′*	29.70	754.4	72	22.2	90	sse.			4		8		sw.			3	s.	raining.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y.†	30.21	767.3				w.			4		0							clear.
S. S. Seminole, Savannah, Ga†	30.22	767.6	72	22.2	80	ne.			4		1		ne.	o	o			clear.
OREGON IMPROVEMENT COMPANY.																		
S. S. Willamette, Strait of Fuca, Wash. Ter†	29.92	760.0	52	11.1	86	s.			2		2		s.					clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, Portland, Oregon*†	29.86	758.4	53	11.7	86	se.			1		4		e.					raining.
S. S. Oregon, Portland, Oregon†	29.83	757.7	51	10.6	93	calm			0		10							light rain.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal			54	12.2	87	sw.			2		8		sw.					cloudy.
S. S. State of California, N. 40° 56′, W. 124° 30′†	29.89	759.2	52	11.1	100	sse.			4		10		s.			large	w.	raining.
S. S. Victoria, N. 48° 25′, W. 123° 20′†	29.82	757.5	49	9.4	85	ne.			2		8			o	o	sm'h		fair.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, S. 0° 22′. W. 167° 25′	29.91	759.7	77	25.0	91	ene.			2		8		ene.			sm'h		showery.
S. S. City of New York, Sydney, N. S. W.†	30.15	765.8	66	18.9	68	wsw.			0–1		0			o	o			clear.
S. S. City of Rio de Janeiro, N. 9° 04′, W. 83° 20′*†	30.10	764.5	81	27.2	83	w.			2		10		wnw.	1 h'r	1 h'r	sm'h	w.	hazy.
S. S. City of Tokio, N. 30° 34′, E. 129° 37′†	29.96	761.0	67	19.4	69	se.			3		8		sw.	o	o	sm'h		fine.
S. S. Clyde, N. 31° 06′, W. 116° 52′†	30.03	762.7	59	15.0	70	nw.			3		8		nw.	o	o	light	nw.	cloudy.
S. S. Colon, N. 33° 31′, W. 74° 01′†	30.25	768.3	66	18.9		ene.			4		3		ne.	o	o	small	ne.	fair.
S. S. Grenada, N. 11° 13′, W. 87° 33′†	29.90	759.4	79	26.1	86	ene.			3		2		se.	o	o	mod.	ene.	clear.
S. S. South Carolina, Champerico, Mexico†	30.01	762.2	78	25.6	86	n.			1		0			o	o	light	sw.	hazy.
S. S. Zelandia, S. 34° 19′, E. 164° 19′	29.95	760.7	65	18.3	84	w.			5		8		w.			mod.	w.	fine.
QUEBEC STEAMSHIP COMPANY.																		
S. S. Muriel, N. 37° 30′, W. 71° 35′	30.18	766.6	48	8.9		n.			4		0			o	o	mod.	nne.	fair.
S. S. Bermuda, Port of Spain, Trinidad†	30.05	763.3				e.			1		7		e.	o	o			fine.
RED STAR LINE.																		
S. S. Nederland, N. 49° 20′. W. 0° 05′†	29.68	753.9	55	12.8		sse.			5		5		sse.	3 h'r	3 h'r	cross	sse.	cloudy.
S. S. Rhynland, N. 40° 53′, W. 50° 50′	30.21	767.3	55	12.8	73	s.			3		10		s.	o	o	light	wsw.	cloudy.
S. S. Switzerland, N. 40° 27′ W. 29° 58′†	29.98?	761.5?				wnw.			5		10		wnw.	6 h'r	6 h'r	cross	wnw.	cloudy.
S. S. Vaderland, N. 41° 04′, W. 53° 56′	29.88	758.9	60	15.6	76	se.			5		8		s.	o	o	long	w.	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
RED STAR LINE.—Continued.																		
S. S. Waesland, N 50° 25′, W. 1° 13′	29.69	754.1	54	12.2	.....	n.	.....	.....	3	.....	2	.....	sw.	0	0	sm'h	.....	fair.
ROTTERDAM LINE.																		
S. S. W. A. Scholten, Rotterdam, Hollands	29.72	754.9	66	18.9	94	wsw.	.....	.....	4	.....	4	.....	wsw.	0	0	.....	.....	fair.
STATE LINE.																		
S. S. State of Florida, N. 50° 20′, W. 29° 00′	29.64	752.8	49	9.4	.....	w.	.....	.....	6	.....	8	.....	w.	10 h'r	10 h'r	r'gh	w.	cloudy.
THINGVALLA LINE.																		
S. S. Thingvalla, Brooklyn, N. Y.†	30.28	769.1	52.7	11.5	.....	ssw.	.....	.....	2	.....	1	.....	ssw.	0	0	.....	.....	clear.
WARREN LINE.																		
S. S. Iowa, N. 49° 18′ W. 25° 27′*†	29.80	756.9	48	8.9	.....	wsw.	.....	.....	6	.....	4	.....	w.	5 h'r	5 h'r	mod.	sw.	clearing.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 45° 16′, W. 28° 36′	29.92	760.0	.....	.....	.....	.....	.....	.....	.....	.....	6	.....	nw.	11 h'r	11 h'r	.....	.....	d. clouds.
WHITE STAR LINE.																		
S. S. Adriatic, N. 43° 43′, W. 57° 02′†	29.98	761.5	42	5.6	.....	nw.	.....	.....	6	.....	10	.....	sw.	24 h'r	24 h'r	long	sw.	misty.
S. S. Celtic, N. 47° 39′, W. 33° 12′†	29.91	759.7	56	13.3	68	wnw.	.....	.....	5	.....	5	.....	wnw.	0	0	mod.	wnw	fair.
WILSON LINE.																		
S. S. Otranto, N. 43° 20′, W. 47° 59′†	30.18	766.6	47	8.3	.....	w.	.....	.....	2	.....	.....	.....	s.	.....	.....	mod.	sw.	clear.
MISCELLANEOUS.																		
Schr. Abbie Clifford, N. 23° 50′ W. 54° 00′*†	30.25	768.3	83	28.3	.....	se.	.....	.....	4	.....	3	.....	se.	1 h'r	1 h'r	sm'h	se.	fine.
Sch. Addie Fuller, Newport News, Va†	30.43	772.9	50	10.0	64	e.	.....	.....	3	0	0	.....	.....	0	0	.....	.....	clear.
Bk. Adelaide, Rio de Janeiro, Brazil*†	30.05	763.3	76	24.4	.....	calm	.....	.....	0	.....	.....	.....	se.	0	0	.....	s.	overcast.
Schr. Ajax, Brazos, Texas†	30.17	766.3	.....	.....	.....	ese.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
Bk. Alpha, Santiago de Cuba, W. I.†	29.98	761.5	80	26.7	.....	calm	.....	.....	0	.....	1	.....	.....	0	0	.....	.....	fair.
Sch'r Annie R. Lewis, Aransas Pass, Texas†	30.21	767.3	77	25.0	.....	sse	.....	.....	3	.....	0	.....	.....	0	0	short	sse.	clear.
Annie Thorman, N. 38° 16′, W. 69° 19′	30.16	766.0	53.4	11.9	63	sw.	.....	.....	4	.....	0	.....	.....	0	0	mod.	w.	clear.
Bk. Antioch, S. 39° 45′ E. 70° 16′*†	29.78	756.4	56	13.3	.....	nnw.	.....	.....	8	.....	4	.....	n.	2 h'r	2 h'r	mod.	ssw.	drizzling.
Antonio Lopez, N. 22° 32′, W. 85° 43′*	30.13	765.3	76.5	24.7	86	ne.	.....	.....	3	.....	1 k	.....	.....	0	0	sm'h	.....	clear.
Bk. Aureola, S. 20° 55′, W. 38° 42′*†	30.05	763.3	86	30.0	.....	ne.	.....	.....	4	.....	5	.....	ne.	0	0	long	ssw.	fair.
Schr. Annie M. Smull, S. 32° 00′, E. 100° 10′*†	30.10	764.5	67	19.4	.....	n.	.....	.....	.....	.....	.....	.....	.....	0	0	.....	w.	
Bk. Celestina, Montevideo, Uraguay*†	29.98	761.5	.....	.....	.....	.....	.....	.....	.....	.....	0	.....	.....	0	0	.....	.....	clear.
S. S Compton, New Orleans, La†	30.17	766.3	.....	.....	.....	ene.	.....	.....	1	.....	3	.....	calm	0	0	.....	.....	clear.
Schr. Edith R. Seward, N. 27° 18′, W. 72° 29′*†	30.33	770.4	75	23.9	.....	sse.	.....	.....	2	.....	10	.....	calm	0	0	mod.	ne.	cloudy.
S. E. J. Spicer, N. 44° 24′, W. 24° 05′†	30.02	762.5	.....	.....	.....	wnw.	.....	.....	6	.....	10	.....	wnw.	7 h'r	7 h'r	mod.	nw.	overcast.
S. Enoch Train, Off Sable Id, N. S.*	29.82	757.4	.....	.....	.....	w.	.....	.....	6	.....	2	.....	w.	4 h'r	4 h'r	short	wsw.	clear.
S. Exporter, S 26° 30′, W. 32° 19′*†	30.10	764.5	.....	.....	.....	se. to n.	.....	.....	2	.....	8	.....	n.	0	0	cross	.....	cloudy.
Ship Festina Lente, N. 38° 25′, W. 72° 20′*	30.39	771.9	43	6.1	.....	ne.	.....	.....	1	.....	0	.....	.....	0	0	sm'h	.....	clear.
Bk. Freya, Queenstown, Ireland	.....	.....	52	11.1	.....	ese.	.....	.....	3	.....	2	.....	nnw.	5 h'r	5 h'r	.....	.....	fair.
S. Grecian, S. 38° 30′, E. 73° 34′*†	29.95	760.7	55	12.8	.....	nnw.	.....	.....	6	.....	10	.....	nw.	0	0	long	sw.	
Bk Hattie G. McFarland, N. 41° 00′, W. 69° 30′*†	30.28	769.1	46	7.8	.....	nw.	.....	.....	3	.....	1	.....	nw.	0	0	short	nnw.	clear.
S. Hedwig, N. 39° 44′, W. 70° 43′	29.96?	761.0?	40.6	4.8	76	nnw.	.....	.....	3	.....	1	.....	n.	0	0	2	nw.	clear.
Bk. Johanne, N 38° 15′. W. 63° 10′*†	30.04	763.0	58	14.4	.....	n.	.....	.....	2	.....	8	.....	ne.	0	0	mod.	n.	fine.
Schr. John L. Thomas, N. 12° 38′, W. 80° 50′*†	30.02	762.5	.....	.....	.....	nne.	.....	.....	3	.....	2	.....	e.	0	0	h'vy	ene.	fine.
Bk. Josephine, N. 18° 25′ W. 75° 20′*†	30.16	766.1	83	28.3	67	ne.	.....	.....	3	.....	0	.....	.....	0	0	sm'h	.....	clear.
Bk. Kate Cann, N. 42° 50′, W. 26° 20′*†	30.08	764.0	.....	.....	.....	wnw.	.....	.....	3	.....	2	.....	nw.	2 h'r	2 h'r	sm'h	nw.	fine.
Bkt. Kryolith, N. 49° 58′, W. 17° 44′*†	29.82	757.4	.....	.....	.....	ssw.	.....	.....	2	.....	2	.....	sw.	0	0	mod.	nne.	cloudy?.
S. S. Lamperts, N. 37° 29′, E. 9° 39′*	29.92	760.0	66.7	19.3	75	ese.	.....	.....	5	.....	5?	.....	s.	.....	.....	.....	.....	misty.
Light House Tender, Laurel, N. 29° 56′ W. 84° 16′†	30.22	767.6	71	21.7	.....	e.	.....	.....	2	.....	6 k	.....	nw.	0	0	.....	.....	clear.
S. S. Malabar, N. 12° 04′, E. 50° 58′*†	29.77	756.1	.....	.....	.....	e.	.....	.....	4	.....	2	.....	.....	.....	.....	.....	.....	
Bg. Medina, Key Francis, Fla.†	30.21	767.3	.....	.....	.....	sse.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	fine.
S. S. Nebo, S. 5° 36′, W. 34° 50′†*	29.90	759.4	.....	.....	.....	ese.	.....	.....	2	.....	2	.....	ene.	½ h'r	½ h'r	mod.	ene.	clear.
S. Paramita, N. 12° 09′, W. 32° 40′†	29.92	760.0	75	23.9	.....	e.	.....	.....	5	.....	5	.....	ene.	driz	driz	.....	ne.	hazy.
Bk. Peppina, Bordeaux, France†	29.79	756.7	62	16.7	88	w.	.....	.....	1	.....	10	.....	w.	.....	.....	.....	.....	rainy.
Bg. Potomac, N. 23° 04′, W. 63° 24′*†	30.10	764.5	.....	.....	.....	se.	.....	.....	1	.....	.....	.....	se.	.....	.....	light	se.	fine.
Bk. Rosebud, N. 49° 43′, W. 4° 58′*†	29.70	754.4	56	13.3	80	s.	.....	.....	2	.....	0	.....	.....	0	0	small	sw.	fine.
S. Salisbury, S. 31° 08′, W. 28° 05′*	30.05	763.2	70.2	21.2	89	nne.	.....	.....	2	.....	6	.....	nne.	5 h'r	5 h'r	rg'h	nne.	fair.
Bk. Stella, S. 26° 48′, W. 87° 03′*	30.12	765.0	71.6	22.0	91	se;sw	.....	.....	1	5 cs?	.....	s.	.....	0	0	sm'h	s.	cloudy.?
Bk. Truro, N. 40° 40′ W. 69° 00′*†	30.18	766.6	.....	.....	.....	nnw.	.....	.....	3	.....	1	.....	nnw.	0	0	mod.	sw.	clear.
U. S. F. C. S. Fish Hawk, Quantico, Va.†	30.47	773.9	49	9.4	85	n.	.....	.....	2	.....	3	.....	calm	0	0	.....	.....	clear.
Yacht Vega, St. George, Bermuda*†	30.24	768.1	69	20.6	.....	nnw.	.....	.....	3	.....	.....	.....	nnw.	0	0	.....	.....	cloudy.
S. Washington, N. 47° 56′, W. 13° 45′*†	29.73	755.1	.....	.....	.....	nnw.	.....	.....	4	.....	8	.....	nne.	8 h'r	8 h'r	rg'h	ne.	cloudy.
Bg. Wauburn, N. 24° 13′ W. 62° 40′*†	30.20	767.1	.....	.....	.....	se.	.....	.....	4	.....	2	.....	se.	0	0	sm'h	.....	
S. Wm. Woodbury, N. 36° 47′, W. 65° 50′*†	29.92	760.0	63	17.2	94	nnw.	.....	.....	6	.....	.....	.....	w.	.....	.....	light	w.	cloudy.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 4, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.14	765.6	69.4	20.8	85	sw.			1		0			0	0	clear	Moiroud.
Algiers			30.08	763.9	66.6	19.2	59	nw.			1		0?			inap.	inap.	cloudy?	Nicolas.
La Calle			30.01	762.3	67.3	19.6	74	wnw.			3		4			inap.	inap.	cloudy	Fonfrède.
Tunis			29.99	761.7															Jacques.
Saida			30.15	765.9															Dumas.
Tebessa			30.08	763.9	72.0	22.2	87	sw.			4		5			0	0	cloudy	Derché.
Geriville					61.2	16.2	21	ne.			4		1			inap.	inap.	fair	Lonchamp.
Laghouat			30.12	765.0	74.1	23.4	62	w.			1		1			0	0	fair	Abraham.
Biskra			30.10	764.4	79.5	26.4	22	nnw.			6		3			0	0	pretty fair	Malau.
Australian.																			
Melbourne, Victoria	30.00	762.0	30.09	764.3	54.7	12.6	76	w.	11	4.9			8			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.36	745.8	29.88	759.0	82.0	27.8	32	sw.			3		1			0	0		Prof. Ivan Stozir.
Cracow, I. R. Observatory	29.16	740.7	29.91	759.7	65.8	18.8	58	ene.	18.6	8.3			2			0	0		Dr. Wierzbiski.
Eperies	29.05	737.8	29.89	759.2	70.9	21.6	56	se.			2	0	0			0	0		Julius Mikolik.
Gratz	28.63	727.2	29.81	757.2	77.0	25.0	42	sw.			1		4			0	0		Andreas Rospini.
Hermannstadt	28.55	725.2	29.91	759.7	77.4	25.2	30	n.			2		0			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.45	722.7	29.73	755.2	71.2	21.8	67	ene.			2	5 ck	0			0	0	fair	The Staff.
Lemberg	29.06	738.0	30.04	763.0	55.2	12.9	72	ne.			2		10			0	0		Dr. T. Stanecki.
Pola	29.86	758.5	29.97	761.3	67.6	19.8	57	ese.			4		5			0	0		I. R. Hydrographic Office.
Szathmar	29.50	749.2	29.95	760.7	72.7	22.6	37	se.			3		0			0	0		Joseph Midlinszky, S. J.
Szegedin	29.65	753.1	29.92	759.9	77.9	25.5	45	se.			1		0			0	0		Karl Stancel.
Trieste	29.89	759.1	29.99	761.7	71.2	21.8	64	w.			1		6			0.409	10.4		Rieder.
Vienna	29.11	739.4	29.80	756.8	75.9	24.4	49	se.			3		2			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.58	751.3	29.68	753.9	51.6	10.9	69	nw.	12	5.4			7					d. clouds	W. Boswell.
Armagh, Observatory	29.52	749.8	29.76	755.9	51.0	10.6	61	n.	4	1.8			7					d. clouds	S. Call.
Bidston, Liverpool Obs'y			29.71	754.6	50.1	10.1	86	nw.	12	5.4			10					overcast	John Hartnup.
Bolton, Sharples	29.16	740.7	29.68	753.9	55.8	13.2	68	w.	12	5.4			5					d. clouds	Thomas Mackereth. [A.S.
Bradford, Yorkshire	29.26	743.2	29.66	753.4	56.1	13.4	66	w.			1		6			0.01	0.3	d. clouds	J. McLandsborough, F. R
Bridgetown, Barbadoes	29.93	760.2	29.96	761.0	83.0	28.3	67	ne.			2		3					d. clouds	Corpl. J. Surgenor, A. H. C.
Cardington			29.66	753.4	53.6	12.0	90	n.			0.2		10					showery	John McLaren.
Chatham, School M. E.	29.56	750.8	29.69	754.1	51.9	11.1	96	calm			0		10					raining	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.51	749.5	29.74	755.4	52.6	11.4	90	s.			1		9					foggy	The Staff.
Fort Napier, Natal	27.72	704.1	29.94	760.5	67.0	19.4	41	s.			2		1					blue sky	Pvt. E. K. Annis, A. H. C.
Free Town, Sierra Leone	29.68	753.9	29.91	759.7	82.0	27.8	67	w.			1		6					d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	30.06	763.5	30.11	764.8	68.0	20.0	76	w.			3		5					d. clouds	Opl. O. Baldwin.
Glasgow, Observatory	29.48	748.8	29.69	754.1	52.9	11.6	60	w.			3		2 k					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.51	749.5	29.68	753.9	53.0	11.7	93	ne.			1		10					raining	The Staff.
Guernsey	29.43	747.5	29.72	754.9	57.3	14.1	79	w.			1		5					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.66	753.4	29.70	754.4	53.8	12.1	93	ssw.	1	0.4			10					misty	The Staff.
Leicester, Museum	29.43	747.5	29.68	753.9	51.0	10.6	97	n.			1		10					overcast	J. O. Smith.
Malta, Mediterranean	29.93	760.2	30.01	762.2	70.0	21.1	61	se.			2		4					d. clouds	I. H. Whysall.
Nassau, Bahamas	30.08	764.0	30.12	765.0	82.2	27.9	68	se.			2		7			blank	blank	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.18	741.2	29.70	754.4	53.7	12.1	76	nnw.			1		9					d clouds	John Mac Email.
Oxford, Radcliffe Obs'y	29.46	748.3	29.69	754.1	54.0	12.2	77	n.			2		10					misty	The Staff.
Plymouth	29.64	752.8	29.72	754.9	56.0	13.3	87	w.			1		10					raining	John Merrifield.
Sandwick Manse, Orkneys			29.62	752.3	47.6	8.7	92	w.	25	11.2			10					gloomy	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.87	758.7	29.94	760.5	64.2	17.9	63	n.			2		7					d. clouds	W. H. Lyne.
Sheffield	29.39	746.5	29.67	753.6	59.0	15.0	74	nw.			1		10			0	0	overcast	W. F. Cooper.
Silloth Rectory	29.66	753.4	29.69	754.1	53.0	11.7	78	n.			1		8			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.70	754.4	54.0	12.2	70	w.	14	6.3			7					d. clouds	J. New.
Stratfield Turgiss	29.49	749.0	29.70	754.4	57.8	14.3	74	n.			1		8					gloomy	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	29.71	754.6	29.74	755.4	62	16.7	71	nw.			4		6					d. clouds	W. Newcombe.
Valencia, Observatory	29.75	755.6	29.78	756.4	51.7	10.9	59	nnw.	7	3.1			4					d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.54	750.3	29.58	751.3	38	3.3	91	sw.	8	3.6			10 n			0.05	1.3	light rain	H. J. Cundall, C. E.
Chatham, N. B*	29.49	749.0	29.55	750.6	38	3.3	75	w.	8	3.6			10 n		w.	0	0	cloudy	G. A. Blair.
Father Point, Quebec*	29.54	750.3	29.56	750.8	33	0.6	60	w.	25	11.2		2 k	5 s	w.	w.	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.14	740.1	29.98	761.5	36	2.2	61	e.	10	4.5		0	hz.			0	0	hazy	James Stewart.
Halifax, N. S*	29.59	751.6	29.72	754.9	42	5.6	73	sw.	12	5.4		0	hz.			0	0	hazy	A. Allison.
Kingston, Ontario*	29.49	749.0	29.83	757.7	45	7.2	71	sw.	1	0.4			10 s		w.	0	0	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.57	751.1	29.78	756.4	43	6.1	53	nw.	22	9.8		0	2 ks		nw.	0	0	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.17	740.9	29.88	758.9	40	4.4	65	ne.	18	8.0		5 k	5 ks	nw.	nw.	0	0	cloudy	Rev. R. Mosley.
Port Dover, Ontario	29.19	741.4	29.89	759.2	45	7.2	100	s.	5	2.2			10 n			0.10	2.5	light rain	H. Morgan.
Port Stanley, Ontario	29.23	742.4	29.88	758.9	45	7.2	56	se.	1	0.4			fg.			0.21	5.3	light rain	M. Payne.
Quebec, Quebec*	29.40	746.7	29.73	755.1	32	0.0	88	n.			5	2 k	2 s	n.	n.	0.08	2.0	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.43	747.5	29.90	759.4	38	3.3	56	nw.	5	2.2		2 k	0	nw.		0	0	clear	W. H. McIntyre.
Saugeen, Ontario*	29.12	739.6	29.84	757.9	45	7.2	76	sw.	4	1.8		0	hz.			0	0	hazy	
St. Andrews, N. B	29.58	751.3	29.63	752.6	44	6.7	66	w.	2	0.9		5 k	hz.	nw.		0	0	fair	
Sydney, C. B*	29.56	750.8	29.63	752.6	40	4.4	62	sw.	27	12.1		10 cs	0			0	0	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.47	748.5	29.86	758.4	46	7.8	80	s	4	1.8		8 cs	2 s	w.		0	0	cloudy	Magnetic Observatory.
Yarmouth, N. S*	29.68	753.9	29.75	755.6	41	5.0	82	w.	12	5.4		5 ck	hz.	sw.		0	0	hazy	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.75	755.6	30.01	762.2	39	3.9	91	sw.	4	1.8		0	0			inap.	inap.		John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.30	769.6	30.33	770.4	63.0	17.2	77	se.	14.1	6.3		0	4 n			1.420	36.1	showery	John Duthie.
Cape Town, C. G. H. Obs'y	30.09	764.3	30.13	765.3	66.9	19.4	64	s.	22	9.8		0	1			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVER.
CHINESE (*Sub-series*).																			
Hankow	29.82	757.4	30.09	764.3	72.4	22.4	78	sse.			2		9			0	0		N. Titoushkin.
Zi-Ka-Wei, near Shanghai.	30.01	762.2	30.03	762.8	59.7	15.4	87	nne.	7.8	3.5			10 k		n.	0	0	covered	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.85	758.2	29.90	759.4	55.0	12.8	69	sse.	27	12			5						Oversergent Fischer.
Fanöe	29.67	753.6	29.69	754.1	56.7	13.7	83	ese.			6		8						Overloerer Lauridsen.
Godthaab, Greenland	30.04	763.1	30.09	764.2	33.4	0.8	68	ene.			2		9			0	0		S. Kleinschmidt.
Stykkisholm, Iceland	30.15	765.8	30.19	766.9	25.2	− 3.8	91	e.			6		8						A. O. Thorlacius.
Thorshavn	29.74	755.3	29.77	756.2	44.8	7.1	93	e.	18	8			10					raining	Overloerer Bergh.
Vestervig	29.67	753.7	29.76	756.0	55.4	13.0	75	e.			4		9						Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.30	744.3	29.95	760.7	57.2	14	89	w.			1		10 n		sw.	0.047	1.2	raining	M. Labroue, Director.
Alençon, Normal School	29.28	743.6	29.83	757.6	55.4	13	95	s.			1		kn		sw.	0.094	2.4		M. Nicot, Director.
Arras, Engineer School	29.45	748.0	29.71	754.6	50.4	10.2	99	nw.			3		kn		w.	0.323	8.2		M. Fénéon, Command't.
Avginon, Normal School	29.84	757.8	29.91	759.8	61.9	16.6	79	s.			1		10					light rain	M. Giraud, Director.
Bar-sur-Seine	29.26	743.2	29.81	757.1	59.0	15.0	72	sw.			1		10			0.224	5.7	covered	M. Saillard, Director.
Beauvais, Normal School	29.47	748.6	29.73	755.2	57.7	14.3	72	wnw.			2		8		nnw.	0.173	4.4	very cloudy	M. Frère Eugène Marl.
Besançon, Normal School	28.87	733.3	29.74	755.4	62.2	16.8	81	sw.			1		8 n		wsw.	0.63	16.	raining	M. Gobin, Director.
Bordeaux, Observatory	29.62	752.4	29.88	759.0	55.6	13.1	84	wnw.			1		10		w.	1.346	34.2	raining	M. Rayet, Director.
Bourges, Normal School	29.28	743.6	29.82	757.4	61.2	16.2	62	wsw.			2		n		wsw.	0.071	1.8		M. Postel, Director.
Brest, Naval Observatory	29.56	750.7	29.80	756.9	60.8	16.0	79	w.			1		7		w.	0.020	0.5		M. de Kermaree, Dir.
Caen, Normal School	29.70	754.3	29.73	755.2	56.5	13.6	82	ssw.			1		10		ssw.	0.59	15.	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.31	744.4	29.61	752.2	67.6	19.8	57	sw.			3		8	s.	s.	0.236	6.0	very cloudy	M. Jadot, Director.
Charleville, Normal School.	29.19	741.4	29.72	754.9	68.4	20.2	54	s.			2		8		ne.	0.12	3.	¾ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.50	723.9	29.84	757.9	57.2	14.0	58	sw.			2		10			0.102	2.6	covered	M. Alluard, Director.
Cluny, Normal School	29.02	737.1	29.85	758.2	54.3	12.4	70	nw.			3		6			0	0		M. de Villemontée, Dir.
Commercy, Normal School.	28.91	734.2	29.74	755.6	63.1	17.3	86	wsw.			1		8 kn	wsw.	wsw.	0	0	very cloudy	Dr. Coulet, Director.
Gap, Normal School	27.32	693.9	29.82	757.5	56.3	13.5	92	n.			4	0	2 n		n.	1.484	37.7		M. Jeangirard, Director.
Gréasque, du. Rhone	28.80	731.5	29.93	760.1	53.1	11.7	93	sw.			2		10			0.051	1.3		M. Kinn, Director.
Grenoble, Normal School	29.04	737.7	29.80	757.0	55.4	13	83	wnw.			4		10			0.110	2.8	heavy rain	M. Ablard, Director.
Guéret, Normal School	28.26	717.9	29.82	757.5	55.9	13.3	73	sw.			2		k		ssw.	0.445	11.3		M. Rivoire, Director.
Lamballe, Normal School	29.48	748.8	29.75	755.6	63.5	17.5	55	sw.			2		5		sw.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.41	747.0	29.97	761.2	59.4	15.2	70	w.			3	0	5 k			1.42	36.	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.69	754.0	29.79	756.6	62.2	16.8	63	wsw.			1		8		sw.	0	0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.82	732.0	29.88	758.9	52.0	11.1	98	nnw.			1		10			0.118	3.0	heavy rain	M. André, Director.
Mans, Normal School	29.48	748.8	29.79	756.7	51.4	10.8	90	s.			1		5		sw.	0.728	18.5	cloudy	M. Piboen, Director.
Marseille, Observatory	29.63	752.6	29.90	759.4	57.2	14.0	98	s.			1		10		ssw.	0.307	7.8	raining	M. Stephan, Director.
Montionis l'Instituteur	24.71	627.6	29.55	750.6	46.0	7.8	57	ne.	5.6	2.5			7		se.	0.472	12.0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.73	755.1	29.85	758.3	62.6	17	68	nw.			2		5		sw.	0.024	0.6	cloudy	M. Galzin, Director.
Nancy, Normal School	28.95	735.3	29.71	754.6	66.2	19.0	63	s.			2					0	0		M. Hasse, Director
Nantes, Observatory	29.65	753.0	29.81	757.2	62.6	17	68	ssw.			0.2	0	9n;kn		ssw.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.82	757.5	29.93	760.2	61.2	16.2	52	nw.	13.0	5.8			10	wsw.	nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.07	535.1			27.0	− 2.8		sw.			1		10		sw.	0.185	4.7	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	28 80	731.5	29.86	758.4	56.1	13.4	73	s.			1		10			0.31	8.	raining	M. Tallieu.
Puy de Dôme Obs'y, Summit	24.95	633.7			36.3	2.4	100	w.			6		10			0.248	6.3	foggy	M. Alluard, Director.
Rochefort, Naval Obs'y	29.78	756.3	29.81	757.1	58.5	14.7	100	sw.			3		8		wsw.	0	0	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.56	750.8	29.77	756.1	59.7	15.4	78	sw.			1		5		sw.	0.16	4.	cloudy	M. Mouillot, Director.
Rodez, Normal School	27.80	706.0	30.29	769.4	54.0	12.2	81	sw.			1		5			0.205	5.2	cloudy	M. Serger, Director.
Rouen, Normal School	29.69	754.2	29.74	755.4	55.0	12.8	76	w.			1		10		w.	0.67	17.	covered	M. Brotier.
Saint Maur, Observatory	29.61	752.0	29.77	756.2	53.6	12.0	83	w.			1		10		wnw.	0.043	1.1		M. Renou, Director.
Toulouse, Observatory	29.26	743.1	29.93	761.5	58.3	14.6	71	wsw.			3		5	w.		0.205	5.2	cloudy	M. Baillaud, Director.
Tours	29 63	752.6	29.80	757.0				sw.			2		10	ssw.	ssw.	0	0	covered	
Versailles, Observatory	29.28	743.6	29.77	756.1	52.9	11.6	90	nw.			1					0.067	1.7		Dr. A. Bérigny, Director
Sub-series.																			
Paris, Montsouris Obs'y	29.48	748.8	29.77	756.2	54.1	12.3	80	wnw.			1		10	wnw.	wnw.	0.055	1.4	sprinkling	M. Marié Davy, Director
GERMAN.																			
Bamberg	28.91	734.3	29.76	755.8	79.5	26.4	40	s.			3	3 cs	0	sw.		0	0		Prof. Dr. Hoh.
Berlin	29.61	752.2	29.78	756.5	74.1	23.4	40	se.			2		4			0	0		Prof. Dr. Arndt.
Breslau	29.36	745.8	29.89	759.2	70.9	21.6	56	ese.			2		0			0	0		Royal University Obs'y.
Carlsruhe	29.26	743.2	29.68	753.8	74.1	23.4	55	ne.			1		9	sw.		0.394	10.0		Albert Senz.
Cassel	28.97	735.7	29.68	753.8	77.7	25.4	42	ne.			1		7	se.				thud'r storm	Dr. H. Möhl.
Frankfort on the Main	29.33	744.9	29.67	753.5	73.4	23.0	64	n.			1		9			0	0		Physical Society.
Friedrichshafen	28.30	718.9	29.68	753.8	69.4	20.8	77	s.			8		6	nw.		0.110	2.8		Wilhelm, Chief Tel.
Hamburg	29.64	752.8	29.73	755.2	70.0	21.1	55	se.			5		10			0	0		E. Preller.
Kiel	29.73	755.1	29.74	755.5	63.7	17.6	60	se.			2		8			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.34	745.1	29.74	755.4	73.6	23.1	54	ne.			3		3			0	0		H. Leppig, Asst.
Magdeburg	29.56	750.7	29.73	755.2	77.2	25.1	41	e.			2	5 c	0	wsw.		0	0		Dr. Assmann.
Memel	30.09	764 2	30.13	765.4	64.2	17.9	33	se.			3	3 cs	0						Issermann.
Munich	27.96	710.1	29.80	757.0	81.3	27.4	20	sw.			1		2	w.		0	0		Central Station.
Neufahrwasser	30.00	761.9	30.01	762.3	63.0	17.2	51	se.			3		5	wnw.		0	0		A. Lothes.
Neustadt, Palatinate	29.15	740.4	29.67	753.6	71.2	21.8	67	e.			1		8			0.354	9.0		Dicknether.
Stuttgart	28.76	730.6	29.60	751.8	79.2	26.2	40	e.					4	w.		0.154	3.9		Prof. Dr. Schoder.
Wustrow	29.80	757.0	29.83	757.6	66.9	19.4	55	se.			4	0	5 s		wsw.	0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.61	752.1			79.7	26.5		sw.			1.0		0			0	0	clear	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.61	752.0	29.66	753.3	87.0	30.6	72	wsw.	35.0	15.6			0			0	0	misty	
Deesa	29.15	740.4	29.60	751.9	100.7	38.2	28	sw.	16.2	7.2			0			0	0	blue sky	
Bombay	29.75	755.7	29.79	756.6	86.0	30.0	66	wsw.	13.0	5.8			3		sw.	0	0	d. clouds	
Poona, Yarrowda.	27.90	708.6	29.70	754.4	91.8	33.2	16	w.	21.0	9.4			1	w.		0	0	d. clouds	
Bellary	28.24	717.3	29.65	753.2	99.3	37.4	21	w.	11.2	5.0			0			0	0	blue sky	
Belgaum	27.28	693.0	29.80	756.8	80.6	27.0	47	sw.	9.0	4.0			0			0	0	misty	
Lahore	28.75	730.1	29.45	748.0	100.8	38.2	10	sw.	1.9	0.8			0			0	0	blue sky	
Roorkee	28.67	728.3	29.54	750.2	95.9	35.5	10	ne.	3.3	1.5			4			0	0		
Agra	28.97	735.8	29.51	749.5	99.1	37.3	15	nw.	5.2	2.3			0			0	0		
Nagpur	28.56	725.5	29.56	750.7	100.9	38.3	17	sw.	7.0	3.1			4		sw.	0	0	d. clouds	
Jubbulpore	28.32	719.3	29.63	752.7	93.1	33.9	14	nne.	4.6	2.1			8		s.	0	0	overcast	
Lucknow	29.18	741.3	29.54	750.4	101.4	38.6	15	sw.	1.2	0.5			0			0	0	blue sky	
Allahabad	29.28	743.6	29.58	751.3	97.7	36.5	10	nw.	2.1	0.9			0			0	0		
Patna	29.44	747.7	29.62	752.2	93.7	34.3	15	w.	7.2	3.2			8	w.	w.	0	0	d. clouds	
Hazaribagh	27.62	701.6	29.55	750.6	96.6	35.9	11	nnw.	8.8	3.9			0			0	0	blue sky	
Cuttack	29.56	750.9	29.64	752.9	85.8	29.9	47	sw.	6.2	2.8			9			0.02	0.5	d. clouds	
Calcutta, Alipore	29.63	752.6	29.65	753.2	74.5	23.6	61	se.	26.0	11.6			10		sw.	0.05	1.3	thund'r st'm	
Dhubri	29.60	751.9	29.72	754.9	79.4	26.3	64	e.se.	13.2	5.9			9		sw.	1.18	30.0	gloomy	
Chittagong	29.62	752.3	29.71	754.6	71.8	22.1	82	e.	7.9	3.5			9			0	0	gloomy	
Sibsagar	29.47	748.5	29.81	757.1	75.1	23.9	76	e.	3.1	1.4			8	sw.	sw.	0.11	2.8	d. clouds	
Jeypore	28.14	714.8	29.52	749.7	101.2	38.4	7	w.	6.7	3.0			3		w.	0	0	d. clouds	
Zanzibar, Africa	29.88	758.9			79.6	26.4	82	ne.	2.8	1.3			5			0.01	0.3	d. clouds	
ITALIAN.																			
Udine	29.60	751.9	30.00	762.1	73.2	22.9	59	sw.	0.7	0.3			5			0	0		Prof. Giovanni Cloding.
Milan	29.45	748.0	29.96	761.0	68.4	20.2	61	se.	5.6	2.5			10	wsw.		0.008	0.2		Prof. Schiaparelli.
Padua	29.98	761.5	30.09	764.3	68.7	20.4	66	ene.	11.2	5.0			9			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.06	738.2	29.96	761.0	56.5	13.6	89	n.	5.6	2.5			10	n.		2.744	69.7		Prof. P. F. Denza.
Genoa	29.78	756.3	29.97	761.2	67.6	19.8	49	sw.	4.3	1.9			10	s.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.04	712.3	29.97	761.2	55.2	12.9	96	w.			2		10			0.350	8.9		Prof. D. O. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Pesaro	29.90	759.4	29.95	760.6	64.2	17.9	74	se.	6.3	2.8			10			0	0		Prof. Luigi Guidi.
Florence	29.67	753.7	29.92	760.0	79.3	26.3	35	sw.			4		10			0	0		Prof. Costantino Pitter.
Leghorn	29.83	757.7	29.92	759.9	67.8	19.9	64	ssw.	3.8	1.7			10	s.		0	0		Prof. P. Monte.
Rome	29.81	757.1	29.98	761.4	75.7	24.3	30	sse.	12.5	5.6			10			0	0		Prof. P. S. Ferrari.
Lecce	29.75	755.7	30.00	761.9	78.1	25.6	64	ssw.	8.1	3.6			4			0	0		Prof. C. de Giorgi.
Cosenza	29.14	740.1	30.01	762.2	77.7	25.4	79	sse.	1.8	0.8			4	se.		0	0		Prof. D. Conti.
Cagliari	29.73	755.1	29.92	760.0	66.6	19.2	64	wnw.			4		10			0	0		Prof. A. Pacinotti.
Palermo	29.77	756.1	30.02	762.4	73.6	23.1	41	ne.	2.5	1.1			9			0	0		Prof. G. Ciacciatore.
Syracuse	29.95	760.8	30.00	761.9	75.2	24.0	64	sse.	9.8	4.4			10	sw.		0	0		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R.	29.46	748.2	29.97	761.1	77.7	25.4	51	sw.	2.5	1.1			8	s.		0	0		Prof. T. Brioschi.
Stelvio	22.21	564.1			39.9	4.4	74	w.			6		10			0.449	11.4	misty	Prof. P. F. Denza.
Valdobbin	22.18	563.4			33.8	1.0	85	se.			2		10			0	0	covered	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.83	757.7	29.87	758.7	55.1	12.8	87	e.	3.7	1.6			10ks;n			0.309	7.8	overcast	K. Ogawa.
Hakodate	29.90	759.4	29.91	759.7	47.0	8.3	96	ese.	40.8	18.2			10			1.235	31.4	overcast	
Hiroshima, I. M. Obs'y	29.67	753.6	29.68	753.9	62.4	16.9	87	ene.	3.3	1.5		ck	10 s			0.840	21.3	covered	J. Sogawa.
Kanazawa	29.61	752.1	29.71	754.6	58.6	14.8	84	ese.	5.0	2.2		ck	10 s			0.590	15.0	covered	S. Endo.
Kioto	29.50	749.3	29.67	753.6	60.6	15.9	85	nw.	4.9	2.2			10 n			0.791	20.1	light rain	M. Tojima.
Kochi	29.59	751.6	29.62	752.3	65.0	18.3	85	w.	4.9	2.2		ck;cs	9 s		e.	2.669	67.8	cloudy	K. Kusunose.
Nagasaki, I. M. Obs'y	29.50	749.3	29.70	754.4	63.1	17.3	86	n.	7.0	3.1		0	0			0.640	16.3	clear	S. Takehayashi.
Niigata	29.76	755.9	29.79	756.6	65.0	18.3	67	se.	6.5	2.9			10 n			0.180	4.6	light rain	M. Morita.
Nobiru	29.92	759.9	29.94	760.5	54.2	12.3	96	se.	12.1	5.4			10 s			1.230	31.2	covered	H. Midzushina.
Sapporo					45.2	7.3	87	se.	10.2	4.6			10					raining	
Tokei Obs'y, Yeddo	29.83	757.7	29.89	759.2	61.1	16.2	100	ene.	4.9	2.2			10 n			2.370	60.2	raining	The Staff.
Wakayama	29.55	750.6	29.60	751.8	62.2	16.8	84	ene.	10.3	4.6		6 ck	4 s		ene.	0.346	8.8	cloudy	Y. Kuwamura.
MAURITIUS.																			
Mauritius Observatory	29.85	758.2	30.04	763.0	79.0	26.1	56	ene.	11.0	4.9		0	2 k		e.	0	0	clear	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.73	602.8	29.95	760.8	60.3	15.7	71	calm	0	0		0	0			0	0	foggy	Prof. Vicente Fernandez.
Leon	24.35	618.5	29.96	761.0	62.6	17.0	66	nnw.			1	4 c	1 s	n.	nne.	0	0	dense fog	Prof. M. Leal.
Mazatlan	29.72	754.8	29.98	761.4	67.0	19.4	100	ne.	1.6	0 8			mist					misty	F. Quijano, C. E.
Mexico, Central Obs'y	23.13	587.6	30.17	766.3	53.6	12.0	90	calm	0	0		1 cs	0			0	0	fine	The Staff.
Morelia	24.29	617.0	30.36	771.1	62.6	17.0	75	se.			3	0	0			0	0	clear	M. Tena, M. D.
Pabellon, Aguascalientes	23.99	609.4	29.91	759.8	67.5	19.7	58	n.			2	0	8 ks		w	0	0	cloudy	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.39	594 0	30.00	761.9	60.8	16.0	83	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
San Luis Potosi	24.24	615.7	30.14	765.6	63.5	17.5	64	e.			1	1	2	w.	w.	0	0	½ clouded	G. Barrosta, M. D.
Zacatecas	22.62	574.5	30.12	765.0	59.5	15.3	60	nw.	4.8	2.1		0	8 n		nw.	0	0	cloudy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.60	751.8	29.60	751.8	58.5	14.7		nnw.			3					0.024	0.6		
Groningen	29.56	750.9	29.62	752.3	67.6	19.8		s.			2					0	0		
Helder	29.55	750.5	29.55	750.5	68.0	20.0		ssw.			4					0.008	0.2		
Hellevoetsluis	29.58	751.3	29.58	751.3	60.6	15.9	85	wsw.			2					0	0		
Utrecht	29.54	750.2	29.58	751.4	72.9	22.7	62	s.			4		5			0.079	2.0	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.74	755.5	29.81	757.1	42.4	5.8	47	s.	16	7			8			0	0		
Brono	29.94	760.4	29.98	761.4	41.4	5.2	81	n.	18	8			10			0.480	12.2		
Christiania	29.81	757.2	29.96	760.9	57.6	14.2	64	ne.	4	2			10			0	0		
Gjæsvær	29.84	757.9	29.86	758.5	39.9	4.4		sw.			4		9						
Lodingen	29.92	759.9	29.97	761.1	37.9	3.3	63	sw.			2		8			0	0		
PORTUGUESE.																			
Angra, Azores					60.4	15.8	64	sse	4.9	2.2			2			0.236	6.0		Dr. J. A. Sampaio.
Campo Major	29.11	739.3	30.11	764.8	60.3	15.7	42	wsw.	4.3	1.9			9			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.18	766.6	30.27	768.9	64.9	18.3	50	sw.					9			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.80	756.8	30.16	766.0	57.2	14.0	62	sw.	18.1	8.1			10			0	0		The Staff.
Ponta Delgada, Azores	30.24	768.2	30.32	770.0	63.3	17.4	57	nne.	16.1	7.2			4			0.047	1.2		
Saint Paul de Loando	29.69	754.2	29.90	759.4	78.8	26.0	91	wsw.	1.3	0.6			4	s.		0	0		
Serra da Estrella	25.26	641.6	30.12	765.1	36.1	2.3	87	w.	20.6	9.2			10			1.354	34.4	snow & fog	
RUSSIAN.																			
Akmolinski	29.13	739.9	30.20	767.0	60.8	16.0	37	nw.	9	4		3 c	0			0	0	light clouds	Major K. Lasarew.
Archangel	30.02	762.6	30.04	763.1	48.7	9.3	55	calm	0	0		0	6 ks			0	0		Capt. Sseliwerstow.
Astrakhan	30.02	762.4	29.93	760.3	66.2	19.0	49	sw.	2	1		c	9 s			blank	blank	light clouds	Capt. Wisganow.
Barnaul	29.71	754.7	30.24	768.0	32.2	0.1	67	nw.	2	1			10			0	0		Meteorological Obs'y.
Dorpat	29.93	760.3	30.17	766.4	60.4	15.8	35	ne.	6	3		6 c	0			0	0	light clouds	Observatory.
Ekaterinburg	29.10	739.1	30.05	763.3	55.9	13.3	57	calm	0	0			10			0.075	1.9	raining	Meteorological Obs'y.
Kasan	29.63	752.5	29.90	759.4	52.5	11.4	77	e.	2	1			10			0	0		Observatory.
Kertch	29.87	758.8	29.89	759.3	58.5	14.7	82	sw.	4	2		0	6 ks			0.043	1.1		Lagorio & Sastyrex.
Kieff	29.30	744.3	29.92	759.9	68.9	20.5	39	nne.	7	3		ck;cs	10 ks			0	0		Observatory.
Lugan	29.61	752.1	29.81	757.2	60.4	15.8	58	wnw.	13	6			10			0	0		Meteorological Obs'y
Moscow	29.46	748.3	29.93	760.3	56.1	13.4	56	ne.	7.8	3.5			10 s						Meteorological Obs'y.
Nikolaiev	29.85	758.3	29.93	760.1	75.6	24.2	56	ssw.	9	4		0	0			0.024	0.6		Capt. Kurdakow.
Nikolaievsk, on the Amoor	30.12	765.0	30.21	767.2	32.4	0.2	87	e.	2	1			0			0	0		Lieut. Iwanow.
Pekin, China	29.91	759.6	30.05	763.2	67.3	19.6	26	calm	0	0		0	3 k			0	0		Physical Observatory
St. Petersburg	30.13	765.4	30.15	765.8	52.2	11.2	62	nw.	16	7		0	1 k			0	0		Central Physical Obs'y.
Semipalatinsk	29.57	751.0	30.23	767.9	50.0	10.0	32	nw.	7	3		0	2 k			0	0	heavy clouds	Major Lasareu.
Tashkend, Laboratory	28.45	722.7	29.97	761.1	73.6	23.1	47	nnw.	4	2			3			0	0		Teich, A. M.
Tiflis	28.53	724.7	29.95	760.7	54.1	12.3	77	nw.	2	1			10 n			0.378	9.6	raining	Physical Observatory
Vladivostock	29.69	754.1	29.76	755.8	44.2	6.8	87	calm	0	0		0	8 k			0	0		
Warsaw	29.63	752.5	30.05	763.2	56.8	13.8	60	se.	13	6		c	7 ks						Astronomical Obs'y.
Wilna	29.73	755.1	30.15	765.7	57.6	14.2	60	e.	6	3			5			0	0		Berg, Assistant.
Yeniseisk	29.98	761.4	30.28	769.0	34.5	1.4	85	w.	6	3			10			0.004	0.1	snowing	M. O. Mayks.
SPANISH.																			
Barcelona, Met. Obs'y	29.82	757.4	29.92	760.0	60.4	15.8	82	w.	4.3	1.9			9			0.020	0.5	almost cov'd	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.95	760.7	30.01	762.2	64.4	18.0	56	nw.	2.2	1.0		2	0	sw.		0	0	almost cov'd	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.05	687.1	30.03	762.8	53.6	12.0	58	w.	6.3	2.8			10			0.260	6.6	covered	Domingo Martin.
Madrid, Royal Obs'y	27.79	705.9	30.00	762.1	60.8	16.0	42	sw.	14.3	6.4		0	7			0	0	very cloudy	The Staff.
Murcia, Met. Obs'y	29.86	758.4	30.01	762.2	68.7	20.4	53	nnw.	1.8	0.8		3	3	ese.		0	0	cloudy	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.04	737.5	29.94	760.5	51.3	10.7	84	ssw.	21.7	9.7			10			0.181	4.6	light rain	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	30.00	761.9	30.05	763.4	75.6	24.2	80	ene.	0	0		0	2 k		ene.	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.87	758.8	29.93	760.2	84.9	29.4	79	ssw.	7.3	3.3		4 ck	5 k	e.	sw.	0	0	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.09	764.3	30.19	766.8	62.1	16.7	53	wnw.	2.4	1.1		2	3	e.	w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I.	29.95	760.7	30.04	763.0	78.1	25.6	86	e.	11.2	5.0		0	2 kn		e.	0.071	1.8	cloudy	Manuel Maese.
Tuguegarao, Philippine Id's	29.82	757.4	29.95	760.7	80.0	26.7	81	w.	2.2	1.0			10 ks		wsw.	0	0	covered	Jose L. Yrastorza.
SWEDISH.																			
Haparanda	29.91	759.6	29.95	760.6	43.2	6.2	74	s.			2		0			0	0		
Umea	29.96	761.0	30.01	762.3	50.4	10.2	55	s.			2		9			0	0		
Hernosand	29.90	759.4	29.95	760.7	59.0	15.0	43	s.			4		3			0	0		
Stockholm	29.92	760.0	30.10	764.5	59.2	15.1	45	ssw.			4		5			0	0		
Wisby	30.06	763.4	30.11	764.9	61.5	16.4	43	sse.			4		5			0	0		
Sub-series.																			
Upsala	29.96	761.0	30.05	763.2	60.1	15.6	39	s.	12.3	5.5			3	wnw.		0	0		S. G. Fineman.
SWISS.																			
Geneva	28.38	720.9	29.77	756.2	65.8	18.8	65	ssw.			2					0.591	15.0	covered	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
TURKISH.																			
Constantinople			29.98	761.6	66.6	19.2	64	wnw.	9	4.0			10		nw.	0.055	1.4		The Observatory.
Valona			30.11	764.9	74.3	23.5		sw.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.95	760.7	68.0	20.0	60	wnw.			1	0	0			0.30	7.6		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.82	757.4	29.90	759.4	53	11.7	49	s.	8	3.6			10 s			0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.23	742.4	29.89	759.2	44	6.7	76	calm	0	0			10 s			0	0	cloudy	Jas. J. Fitzgerald.
Atlanta, Georgia	28.94	735.1	30.11	764.8	62.0	16.7	56	se.	7	3.1		8 k	0	sw.		0	0	cloudy	H. Hall.
Atlantic City, New Jersey	29.99	761.7	30.00	762.0	52.3	11.3	83	sw.	10	4.5		0	0			0	0	clear	Jas. M. Watson.
Augusta, Georgia	29.96	761.0	30.15	765.8	65	18.3	90	se.	3	1.3			10 s			0	0	cloudy	John Healy.
Baltimore, Maryland	29.98	761.5	30.02	762.5	54	12.2	74	s.	4	1.8		2 cs	5 ks	w.	w.	0	0	fair	Robert Seyboth.
Barnegat, New Jersey	29.98	761.5	30.00	762.0	54.3	12.4	73	sw.	14	6.3		hz.	0			0	0	clear	Chas. F. Merritt.
Bismarck, Dakota	28.04	712.2	29.82	757.4	49	9.4	86	n.	10	4.5			10 n			0.02	0.5	light rain	Cyrus Cramer.
Boise City, Idaho	27.12	688.8	29.96	761.0	49	9.4	86	w.	1	0.4			10 s			0.07	1.8	cloudy	B. E. Light.
Boston, Massachusetts	29.70	754.4	29.86	758.4	53.0	11.7	36	w.	11	4.9		5 c	0	w.		0	0	fair	O. B. Cole.
Brownsville, Texas	29.89	759.2	29.93	760.2	76	24.4	90	se.	8	3.6		10 ck	0			0	0	cloudy	M. McCarty.
Buffalo, New York	29.15	740.4	29.89	759.2	44.9	7.2	98	s.	9	4.0			10 n			0.01	0.3	light rain	Wm. Finn.
Burlington, Vermont	29.49	749.0	29.78	756.4	47.3	8.5	65	sw.	7	3.1			10 s		w.	0	0	cloudy	G. O. Schaeffer.
Cairo, Illinois	29.52	749.8	29.92	760.0	64.6	18.1	86	calm	0	0		10 cs	0	w.		0.15	3.8	cloudy	W. H. Ray.
Campo, California	27.47	697.7	30.00	762.0	33.7	0.9	81	sw.	2	0.9		0	0			0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.21	691.1	29.88	758.9	42.5	5.8	62	se.			1	0	0			0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.08	764.0	30.10	764.5	59	15.0	81	sw.	17	7.6		0	1 s			0	0	clear	J. E. Lanouette.
Cape May, New Jersey	30.00	762.0	30.03	762.7	52	11.1	86	sw.	18	8.0		0	0			0	0	clear	W. Bolten.
Cedar Keys, Florida	30.11	764.8	30.13	765.3	76	24.4	74	s.	11	4.9		0	0			0	0	clear	F. W. Mixer.
Champaign, Illinois	29.03	737.3	29.83	757.7	55.4	13.0	92	s.	10	4.5			fg.			0.44	11.2	dense fog	L. A. Welsh.
Charleston, S. Carolina	30.10	764.5	30.15	765.8	68	20.0	90	calm	0	0		0	fg.			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.25	742.9	30.09	764.3	59.0	15.0	93	s.	4	1.8			10 s		s.	0.01	0.3	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.24	742.7	30.05	763.3	63.0	17.2	73	s.	2	0.9		3 k	3 s	w.	w.	0.02	0.5	fair	B. L. Goulding.
Cheyenne, Wyoming	23.92	607.6	29.79	756.7	41.8	5.4	31	n.	1	0.4		0	1 s			0	0	clear	E. McGovern.
Chicago, Illinois	29.12	739.6	29.82	757.4	56.1	13.4	96	sw.	4	1.8			fg.			0.01	0.3	dense fog	J. Mitchell.
Chincoteague, Virginia	30.05	763.3	30.07	763.8	56	13.3	86	s.	11	4.9		3 c	0	sw.		0	0	clear	V. P. Temple.
Cincinnati, Ohio	29.28	743.7	29.93	760.2	62	16.7	75	s.	3	1.3			10 k		sw.	0.02	0.5	cloudy	R. B. Watkins.
Cleveland, Ohio	29.16	740.7	29.89	759.2	51.4	10.8	89	s.	10	4.5			10 n			0.27	6.9	light rain	J. B. Newlin.
Coleman City, Texas	28.06	712.7	29.85	758.2	71	21.7	82	s.	12	5.4			10 s			0	0	cloudy	L. Dorman.
Columbus, Ohio	29.07	738.4	29.91	759.7	53	11.7	80	s.	6	2.7			10 ks		sw.	0.20	5.1	cloudy	D. Cuthbertson.
Concho, Texas	27.93	709.4	29.83	757.7	68	20.0	81	s.	6	2.7		4 c	4 s	se.		0.06	1.5	cloudy	W. W. McConihe.
Davenport, Iowa	29.15	740.4	29.79	756.7	60	15.6	87	sw.	5	2.2			10 ks		sw.	0.47	11.9	cloudy	R. R. Martin.
Dayton, Washington T'y	28.23	717.0	29.98	761.5	44.2	6.8	92	se.	7	3.1			10 n		sw.	0.54	13.7	heavy rain	H. Clifford.
Deadwood, Dakota	25.21	640.3	29.72	754.9	51	10.6	86	sw.	4	1.8			10 s		w.	0	0	cloudy	G. W. Scott.
Decatur, Texas																			D. J. Carr.
Delaware Breakwater, Del.	30.00	762.0	30.02	762.5	54	12.2	80	sw.	24	10.7		3 cs	hz.	w.		0	0	clear	A. Schneider.
Denison, Texas	29.01	736.8	29.79	756.7	72.0	22.2	82	s.	12	5.4			10 s			0	0	cloudy	J. McGlone.
Denver, Colorado	24.58	624.3	29.74	755.4	48.0	8.9	37	s.	8	3.6		2 c	0	s.		0	0	clear	F. M. Neal.
Des Moines, Iowa	28.84	732.5	29.73	755.1	62	16.7	87	n.	5	2.2			10 s		n.	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.15	740.4	29.85	758.2	55.2	12.9	86	s.	5	2.2			10 s		calm	0.18	4.6	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.03	686.5	29.58	751.3	53	11.7	66	w.	10	4.5		0	0			0	0	clear	E. A. Thomas.
Dubuque, Iowa	29.07	738.4	29.77	756.1	56.8	13.8	86	s.	1	0.4			10 s		calm	0.17	4.3	threatening	J. Harvey Smith.
Duluth, Minnesota	29.25	742.9	29.95	760.7	42	5.6	51	ne.	20	8.9			10 s		ne.	0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.12	739.6	29.92	760.0	74.2	23.4	84	se.	11	4.9			10 s		sw.	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.12	638.0	29.80	756.9	40	4.4	62	sw.	12	5.4		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.59	751.6	29.66	753.4	46	7.8	53	w.	5	2.2		3 cs	0	w.		0	0	clear	J. H. Melton.
El Paso, Texas	26.23	666.2	29.87	758.7	58	14.4	34	nw.	8	3.6		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.16	740.7	29.88	758.9	50	10.0	93	sw.	4	1.8			10 n			0.07	1.8	light rain	R. H. Paxton.
Escanaba, Michigan	29.21	741.9	29.87	758.7	39	3.9	89	n.	18	8.0		5 c	5 s	nw.	n.	0	0	cloudy	C. Dill.
Fort Apache, Arizona	25.06	636.5	29.88	758.9	37	2.8	75	ne.	4	1.8		0	0			0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.00	685.8	29.84	757.9	42	5.6	67	sw.	9	4.0		1 c	0	sw.		inap.	inap.	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.09	713.5	29.65	753.1	57	13.9	93	nw.	8	3.6			10 s			0	0	threatening	A. Pritchard.
Fort Benton, Montana	27.06	687.3	29.85	758.2	41	5.0	82	calm	0	0		1 c	0			0	0	clear	G. W. Davis.
Fort Buford, Dakota	27.79	705.9	29.77	756.1	49	9.4	71	ne.	4	1.8		6 cs	0	calm		0.06	1.5	fair	A. H. Bell.
Fort Custer, Montana	26.69	677.9	29.79	756.7	43	6.1	83	s.	4	1.8		0	2 s		calm	0	0	clear	V. Verge.
Fort Davis, Texas	25.14	638.5	29.86	758.4	59	15.0	54	calm	0	0			10 ks		s.	0	0	cloudy	J. Williams.
Fort Elliott, Texas	27.00	685.8	29.70	754.4	62	16.7	62	sw.	12	5.4		0	0			0	0	clear	W. J. Cundall.
Fort Gibson, Indian T'y	29.18	741.2	29.74	755.4	71.5	21.9	84	s.	10	4.5			10 s		s.	0	0	cloudy	J. B. Campbell.
Fort Grant, Arizona	25.23	640.8	29.84	757.9	52	11.1	21	sw.	6	2.7		0	0			0	0	clear	T. J. Macgowan.
Fort Keogh, Montana	27.34	694.4	29.79	756.7	48	8.9	80	sw.	4	1.8		4 c	0			0	0	fair	W. B. Stockman.
Fort Macon, North Carolina	30.15	765.8	30.16	766.1	65	18.3	93	s.	8	3.6		6 c;cs	2 s			0	0	cloudy	L. Leonardy.
Fort McKavett, Texas	27.75	704.8	29.99	761.7	69	20.6	70	s.	14	6.3			10 s			0.20	5.1	cloudy	J. E. Thatcher.
Fort Missoula, Montana	26.65	676.9	29.95	760.7	41	5.0	82	nw.	1	0.4		0	0			0.06	1.5	clear	J. H. Jones.
Fort St. Michaels, Alaska	29.22	742.2	29.26	743.2	22	— 5.6	100	ne.	5	2.2			10 s			0.03	0.8	cloudy	A. P. Leavitt.
Fort Shaw, Montana	26.24	666.5	29.84	757.9	39	3.9	73	w.	4	1.8		1 cs	0			0.04	1.0	clear	A. L. Mathews.
Fort Sill, Indian Territory	28.53	724.6	29.75	755.6	69.8	21.0	66	s.	10	4.5			10 s		sw.	0	0	cloudy	T. Cleary.
Fort Stevenson, Dakota	27.95	709.9	29.78	756.4	49	9.4	80	se.	10	4.5			10 s			0	0	cloudy	W. Burrows
Fort Verde, Arizona					49.2	9.6	40	w.			1	0	0			0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.36	618.7			46.2	7.9	62	calm	0	0			10 s			0	0	cloudy	T. M. Ambler.
Fredericksburg, Texas	28.20	716.3	29.92	760.0	70	21.1	97	sw.	8	3.6			10 ks		sw.	0	0	cloudy	H. S. Miles.
Galveston, Texas	29.96	761.0	30.00	762.0	74	23.3	86	s.	12	5.4			10 ks		s.	0	0	threatening	E. O'C. MacInerney.
Grand Haven, Michigan	29.18	741.2	29.84	757.9	51.5	10.8	93	sw.	1	0.4			fg.			0.13	3.3	dense fog	W. A. Reid.
Hatteras, North Carolina	30.13	765.3	30.15	765.8	64	17.8	90	sw.	4	1.8		7 c	hz.	s.		0	0	fair	R. M. Crawford.
Helena, Montana	25.70	652.8	29.87	758.7	40	4.4	67	sw.	4	1.8		0	3 s		calm	0.10	2.5	fair	S. Wheaton.
Henrietta, Texas	28.81	731.8	29.79	756.7	73.0	22.8	66	s.	8	3.6			10 s			0	0	cloudy	J. W. Byram.
Huron, Dakota	28.28	718.3	29.63	752.6	53.9	12.2	74	e.	7	3.1		2 k	3 s	e.		0	0	fair	S. W. Glenn.
Indianapolis, Indiana	29.09	738.9	29.88	758.9	58	14.4	75	s.	5	2.2		5 k	fg.	w.	calm	0.15	3.8	clearing	O. Schutze
Indianola, Texas	29.95	760.7	29.98	761.5	75.6	24.2	90	s.	15	6.7		3 cs	5 k	n.	s.	0	0	cloudy	I. A. Reed.
Jacksboro, Texas	28.64	727.4	29.79	756.7	74	23.3	64	s.	4	1.8			10 s			0	0	cloudy	J. P. Sherry.
Jacksonville, Florida	30.10	764.5	30.14	765.5	72	22.2	84	e.	2	0.9		5 k	0	sw.		0	0	fair	J. W. Smith.
Keokuk, Iowa	29.10	739.1	29.75	755.6	61.5	16.4	87	s.	3	1.3		3 k	0	w.		0.23	5.8	clear	F. Z. Gosewisch
Key West, Florida	30.05	763.3	30.07	763.8	79.5	26.4	62	ne.	10	4.5		0	3 k		ne.	0	0	clear	L. M. Melbourne.
Kittyhawk, North Carolina	30.13	765.3	30.15	765.8	62	16.7	90	sw.	5	2.2		2 c;hz	hz.	w.		0	0	clear	E. A. Beals.
Knoxville, Tennessee	29.06	738.1	30.08	764.0	60.3	15.7	71	sw.	1	0.4			10 n			inap.	inap.	light rain	J. A. Cody.
La Crosse, Wisconsin	28.98	736.1	29.74	755.4	53	11.7	69	n.	16	7.2			10 n			0.31	7.9	light rain	S. C. Emery.
La Mesilla, New Mexico	26.09	662.7	29.85	758.2	46.5	8.1	50	calm	0	0		0	0			0	0	clear	N. D. Lane.
Leavenworth, Kansas	28.79	731.3	29.67	753.6	66	18.9	84	se.	6	2.7		4 cs	2 k	sw	s.	0.10	2.5	fair	A. W. Browne.
Lewiston, Idaho	29.10	739.1	29.94	760.5	51.2	10.7	93	e.	2	0.9			10 n			0.03	0.8	light rain	J. M. Burlew.
Little Rock, Arkansas	29.57	751.1	29.88	758.9	68	20.0	84	s.	8	3.6			10 s		sw.	0.36	9.1	cloudy	W. U. Simmons.
Los Angeles, California	29.73	755.1	30.13	765.3	48.1	8.9	71	e.	4	1.8		0	0			0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.34	745.2	29.90	759.4	65	18.3	78	s.	6	2.7		0	4 k			0.01	0.3	fair	H. C. Smyth.
Lynchburg, Virginia	29.38	746.2	30.06	763.5	57.5	14.2	69	sw.	1	0.4			10 ks;s		w.	0	0	cloudy	W. R. Bushby.
Madison, Wisconsin	28.80	731.5	29.80	756.9	53	11.7	93	e.	4	1.8			fg.		calm	0.05	1.3	dense fog	C. A. Shaw.
Marquette, Michigan	29.24	742.7	29.96	761.0	39	3.9	73	n.	10	4.5		5 c	0	e.		inap.	inap.	fair	J. Gilligan.
Memphis, Tennessee	29.60	751.8	29.93	760.2	72	22.2	71	s.	8	3.6			10 s			inap.	inap.	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.08	738.6	29.82	757.4	49	9.4	100	ne.	4	1.8			fg.			inap.	inap.	dense fog	W. Line.
Mobile, Alabama	30.05	763.3	30.09	764.3	63.5	17.5	90	sw.	1	0.4		1 c	0	nw.		0	0	clear	J. D. Paxton.
Montgomery, Alabama	29.86	758.4	30.09	764.3	65	18.3	73	sw.	2	0.9		0	0			0	0	clear	J. B. McLaughlin.

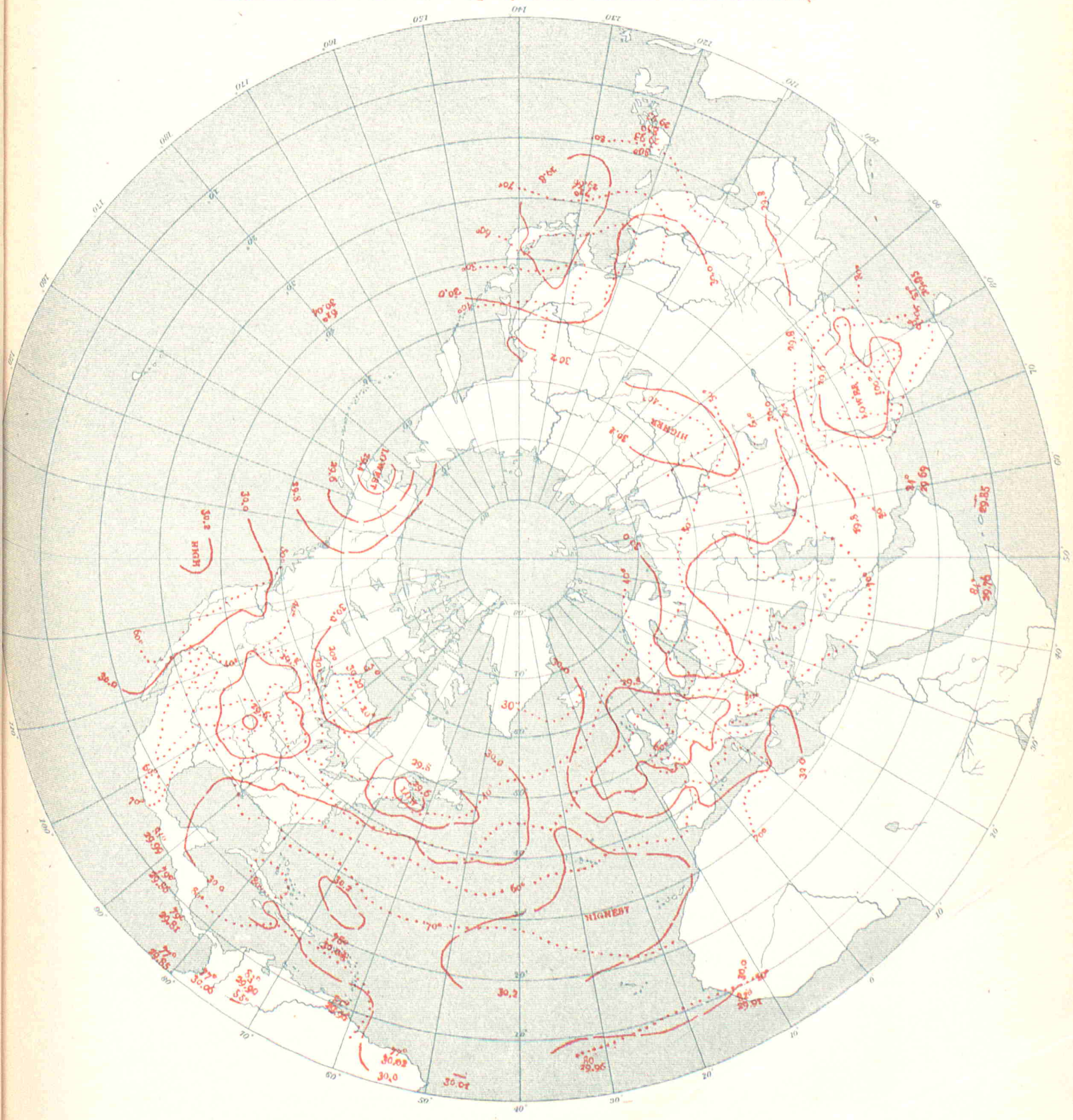
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Moorhead, Minnesota	28.81	731.8	29.79	756.7	48	8.9	86	ne.	6	2.7	.....	5 k	o	n.	.....	o	o	fair	H. Bessant.
Morgantown, W. Virginia	28.96	735.6	29.97	761.2	53.0	11.7	72	calm	o	o	.....	.....	10 s	.....	.....	0.04	1.0	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.37	593.6	29.55	750.6	22.7	— 5.2	100	nw.	78	34.8	.....	.....	10n;fg	.....	nw.	0.03	0.8	light snow.	J. G. Linsley.
Nashville, Tennessee	29.53	750.0	30.06	763.5	65.0	18.3	81	e.	1	0.4	.....	o	8 ks	.....	w.	0.26	6.6	fair	L. A. Jesunofsky.
New Haven, Connecticut	29.84	757.9	29.96	761.0	47	8.3	83	sw.	10	4.5	.....	9c;ck	sk.	sw.	.....	o	o	cloudy	J. H. Sherman.
New London, Connecticut	29.91	759.7	29.96	761.0	49	9.4	71	sw.	9	4.0	.....	7 k	o	sw.	.....	o	o	fair	J. G. Lynch.
New Orleans, Louisiana	30.00	762.0	30.05	763.3	70.0	21.1	84	s.	1	0.4	.....	9 c	sk.	sw.	.....	o	o	cloudy	L. Dunne.
Newport, Rhode Island	29.89	759.2	29.94	760.5	48.7	9.3	64	sw.	12	5.4	.....	3 ck	2 k	nw.	sw.	o	o	fair	W. McGillivray.
New River, N. Carolina	.....	.....	.....	.....	60	15.6	87	calm	.....	.....	o	2 c	o	.....	.....	o	o	clear	C. C. Corbin.
New Shoreham, Rhode I'd.	29.93	760.2	29.96	761.0	46.8	8.2	86	sw.	20	8.9	.....	4 cs	fg.	sw.	.....	o	o	fair	W. Davis.
New York, New York	29.82	757.4	30.00	762.0	46	7.8	83	sw.	8	3.6	.....	2 cs	o	w.	.....	o	o	clear	E. B. Garriott.
Norfolk, Virginia	30.08	764.0	30.11	764.8	57	13.9	80	sw.	9	4.0	.....	9 ck;cs	hz.	w.	.....	o	o	cloudy	J. T. Elker.
North Platte, Nebraska	26.76	679.7	29.63	752.6	56.6	13.7	74	w.	5	2.2	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	E. F. Brady.
Olympia, Washington T'y	30.00	762.0	30.04	763.0	48.0	8.9	96	calm	o	o	.....	.....	10 n	.....	calm	0.41	10.4	light rain	J. Dascomb.
Omaha, Nebraska	28.51	724.1	29.67	753.6	66.8	19.3	93	se.	8	3.6	.....	.....	10s;fg	.....	.....	o	o	threatening.	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	29.82	757.4	29.84	757.9	6.6	—14.1	96	ne.	8	3.6	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	P. H. Ray.
Oswego, New York	29.51	749.5	29.84	757.9	53.2	11.8	51	sw.	4	1.8	.....	6 ck	hz.	w.	.....	o	o	fair	S. W. Beall.
Palestine, Texas	29.43	747.5	29.98	761.5	72.0	22.2	84	s.	16	7.2	.....	.....	10 ks	.....	s.	0.01	0.3	cloudy	L. M. Pindell.
Pensacola, Florida	30.07	763.8	30.10	764.5	63.4	17.4	90	s.	2	0.9	.....	o	o	.....	.....	o	o	clear	M. McGauran.
Philadelphia, Pa.	29.92	760.0	30.02	762.5	51	10.6	72	sw.	7	3.1	.....	o	o	.....	.....	o	o	clear	T. F. Townsend.
Pike's Peak, Colorado	17.69	449.3	29.75	755.6	19	— 7.2	70	sw.	18	8.0	.....	o	8 s	.....	sw.	o	o	cloudy	L. M. Dey.
Pioche, Nevada	23.95	608.3	29.87	758.7	40	4.4	40	calm	o	o	.....	o	o	.....	.....	o	o	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.14	740.1	29.94	760.5	49.8	9.9	77	se.	6	2.7	.....	.....	10 n	.....	se.	0.04	1.0	light rain	J. H. Bryce.
Poplar River, Montana	27.67	702.8	.....	.....	.....	.....	.....	sw.	.....	.....	1	o	o	.....	.....	0.08	2.0	clear	U. D. Maxwell.
Port Eads, Louisiana	30.08	764.0	30.09	764.3	68.5	20.3	92	calm	o	o	.....	3 c	o	w.	.....	o	o	clear	H. G. Christian.
Port Huron, Michigan	29.16	740.7	29.84	757.9	47.0	8.3	100	sw.	2	0.9	.....	.....	10 n	.....	.....	0.10	2.5	light rain	W. O. Bailey.
Portland, Maine	29.70	754.4	29.75	755.6	48.0	8.9	50	sw.	12	5.4	.....	o	hz.	.....	calm	o	o	clear	D. C. Murphy.
Portland, Oregon	29.99	761.7	30.06	763.5	48.8	9.3	86	sw.	5	2.2	.....	.....	10 s	.....	s.	0.45	11.4	cloudy	M. L. Hearne.
Portsmouth, N. Carolina	.....	.....	.....	.....	66	18.9	84	w.	4	1.8	.....	10 c	hz.	calm	calm	o	o	cloudy	F. P. Chaffee.
Prescott, Arizona	24.75	628.6	29.85	758.2	42	5.6	23	s.	4	1.8	.....	o	o	.....	.....	o	o	clear	J. McN. Wright.
Provincetown, Mass.	29.85	758.2	29.88	758.9	47	8.3	77	sw.	9	4.0	.....	2 cs	3 s	w.	.....	o	o	fair	P. T. Jenkins.
Punta Rassa, Florida	30.09	764.3	30.10	764.5	71.5	21.9	79	e.	6	2.7	.....	2 c	o	w.	.....	o	o	clear	W. J. Evans.
Red Bluff, California	29.74	755.4	30.11	764.8	50.9	10.5	93	s.	5	2.2	.....	.....	10 s	.....	s.	0.27	6.9	cloudy	J. M. Frantz.
Rio Grande City, Texas	29.68	753.9	29.92	760.0	75	23.9	90	s.	7	3.1	.....	6 c	o	s.	.....	o	o	fair	P. M. Wilson.
Rochester, New York	29.20	741.7	29.86	758.4	51	10.6	40	w.	15	6.7	.....	10 cs	hz.	nw.	.....	o	o	cloudy	F. Gillam.
Roseburg, Oregon	29.51	749.5	30.06	763.5	48.5	9.2	74	sw.	1	0.4	.....	.....	10 s	.....	s.	0.17	4.3	cloudy	J. J. Nanry.
Sacramento, California	30.06	763.5	30.14	765.5	49.5	9.7	93	se.	4	1.8	.....	6 ck	o	sw.	.....	inap.	inap.	fair	J. A. Barwick.
St. Louis, Missouri	29.24	742.7	29.83	757.7	58.7	14.8	100	s.	8	3.6	.....	8 cs; k	o	se.	.....	0.08	2.0	cloudy	J. H. Webber.
St. Paul, Minnesota	28.89	733.8	29.74	755.4	52.0	11.1	86	ne.	12	5.4	.....	.....	10 s	.....	ne.	inap.	inap.	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.06	738.1	29.92	760.0	40	4.4	65	ne.	4	1.8	.....	9 c;cs	o	calm	.....	o	o	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.56	649.2	29.88	758.9	50	10.0	48	calm	o	o	.....	o	2 s	.....	.....	o	o	clear	J. Craig.
San Antonio, Texas	29.28	743.7	29.98	761.5	74.0	23.3	85	sw.	6	2.7	.....	.....	10 ks	.....	sw.	o	o	cloudy	E. Lane.
San Diego, California	30.01	762.2	30.08	764.0	50.2	10.1	93	ne.	4	1.8	.....	o	o	.....	.....	o	o	clear	A. C. Dobbins.
Sandusky, Ohio	29.18	741.2	29.86	758.4	54	12.2	86	sw.	4	1.8	.....	.....	10 n	.....	sw.	0.05	1.3	light rain	M. H. Perry.
Sandy Hook, New Jersey	29.96	761.0	30.00	762.0	51.0	10.6	80	w.	14	6.3	.....	3 ck	o	w.	.....	o	o	clear	B. A. Blundon.
San Francisco, California	30.10	764.5	30.17	766.3	52	11.1	86	w.	2	0.9	.....	o	1s;fg	.....	w.	0.01	0.3	clear	N. Gorom.
Santa Fé, New Mexico	23.19	589.0	29.80	756.9	45	7.2	35	ne.	2	0.9	.....	o	o	.....	.....	o	o	clear	H. U. Jones.
Savannah, Georgia	30.07	763.8	30.16	766.1	65	18.3	93	n.	2	0.9	.....	.....	fg.	.....	.....	o	o	dense fog	H. W. Ford.
Shreveport, Louisiana	29.69	754.1	29.93	760.2	68	20.0	90	s.	6	2.7	.....	7c;ck	o	.....	.....	o	o	fair	E. N. Meekins.
Silver City, New Mexico	24.25	615.9	29.80	756.9	41	5.0	33	nw.	1	0.4	.....	o	o	.....	.....	o	o	clear	J. B. Wallace.
Sitka, Alaska	29.75	755.6	29.81	757.2	48.1	8.9	77	e.	4	1.8	.....	.....	10 ks	.....	e.	o	o	cloudy	J. J. McLean.
Smithville, North Carolina	30.12	765.0	30.16	766.1	65	18.3	93	se.	2	0.9	.....	7 cs	o	.....	.....	o	o	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.90	708.6	29.95	760.7	45	7.2	93	n.	1	0.4	.....	5 cs	5 s	.....	.....	o	o	cloudy	D. Moore.
Springfield, Illinois	29.15	740.4	29.82	757.4	57	13.9	93	s.	7	3.1	.....	.....	fg.	.....	.....	1.05	26.7	dense fog	T. B. Jennings.
Springfield, Massachusetts	29.78	756.4	29.90	759.4	54.6	12.6	44	s.	4	1.8	.....	10 cs	o	w.	.....	o	o	cloudy	T. S. Outram.
Springfield, Mo.	28.35	720.1	29.83	757.7	64	17.8	87	s.	10	4.5	.....	.....	10 s	.....	s.	0.25	6.3	cloudy	J. B. Marbury.
Starkville, Miss.	29.57	751.1	.....	.....	67	19.4	68	w.	12	5.4	.....	4 c	o	.....	.....	o	o	fair	M. J. Wright.
Stockton, Texas	26.91	683.5	29.92	760.0	63.0	17.2	93	s.	8	3.6	.....	o	7 s	.....	s.	0.49	12.4	fair	J. O'Dowd.
Thatcher's Island, Mass.	29.81	757.2	29.86	758.4	46.0	7.8	72	w.	15	6.7	.....	o	hz.	.....	.....	o	o	clear	F. R. Day.
Toledo, Ohio	29.18	741.2	29.86	758.4	54	12.2	80	w.	6	2.7	.....	.....	10n;fg	.....	.....	0.10	2.5	light rain	A. Buell.
Tucson, Arizona	27.54	699.5	29.88	758.9	55	12.8	69	se.	3	1.3	.....	o	o	.....	.....	o	o	clear	J. L. Whiteside.
Umatilla, Oregon	29.64	752.8	30.01	762.2	48.6	9.2	64	sw.	24	10.7	.....	o	8 s	.....	sw.	inap.	inap.	cloudy	J. Daly.
Uvalde, Texas	28.95	735.3	29.90	759.4	73	22.8	84	se.	6	2.7	.....	10 k	o	s.	.....	o	o	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.78	756.4	30.03	762.7	66	18.9	90	s.	2	0.9	.....	4ck;cs	o	.....	.....	o	o	fair	H. T. Brisbane.
Visalia, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. L. Seward.
Washington, D. C.	29.92	760.0	30.03	762.7	55.7	13.2	74	sw.	3	1.3	.....	3 k	6 s	sw.	sw.	o	o	cloudy	B. M. Purssell.
West Las Animas, Colorado	25.81	655.6	29.67	753.6	53	11.7	33	w.	18	8.0	.....	o	o	.....	.....	o	o	clear	J. Grover.
Williamsport, Pa.	29.37	746.0	29.97	761.2	44	6.7	68	calm	o	o	.....	.....	10 s	.....	.....	o	o	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.09	764.3	30.14	765.5	61	16.1	87	calm	o	o	.....	5 k	fg.	w.	.....	o	o	fair	A. T. Sherwood.
Winnemucca, Nevada	25.58	649.7	29.94	760.5	41	5.0	82	sw.	6	2.7	.....	o	5 ks	.....	sw.	0.09	2.3	fair	J. R. Williams.
Yankton, Dakota	28.32	719.3	29.60	751.8	63	17.2	90	se.	9	4.0	.....	.....	10 s	.....	.....	0.26	6.6	cloudy	J. H. Atfield.
Yuma, Arizona	29.75	755.6	29.90	759.4	69.4	20.8	27	nw.	3	1.3	.....	1 cs	o	.....	.....	o	o	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.00	558.8	.....	.....	55.5	13.1	72	w.	1	0.4	.....	.....	7ks;s	.....	sw.	o	o	fair	Joaquin Gomez.
Bridgetown, Barbados, W. I.	29.98	761.5	29.99	761.7	81	27.2	91	e.	.....	.....	.....	5 k	5 ks	e.	e.	o	o	fair	J. A. Racker.
Buenaventura, U. S. C.	30.03	762.7	30.06	763.5	77	25.0	90	s.	4	1.8	.....	.....	10 ks	.....	s.	o	o	cloudy	J. I. Plume.
Havana, Cuba, W. I.	30.04	763.0	30.08	764.0	79	26.1	77	e.	1.2	0.5	.....	o	5 ks	.....	e.	o	o	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.00	762.0	30.01	762.2	79.2	26.2	69	n.	1	0.4	.....	1 cs	o	.....	.....	o	o	.....	Robert Johnston.
Magua, San Domingo	.....	.....	.....	.....	74	23.3	.....	calm	.....	.....	o	o	o	.....	.....	o	o	.....	S. M. Pike.
Nassau, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. M. Everett.
Paramaribo, S. A.	30.02	762.5	30.02	762.5	77	25.0	86	e.	.....	.....	2	4 ck	5 k	e.	e.	0.080	2.0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.44	747.8	29.90	759.4	83	28.3	85	calm	.....	.....	o	.....	10 s	.....	calm	o	o	foggy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	94	ne.	.....	.....	4	10 cs	o	n.	.....	o	o	cloudy	Earl Flint.
Santiago de Cuba, W. I.	29.96	761.0	29.98	761.5	78	25.6	78	n.	4.8	2.1	.....	1 c	o	.....	.....	0.46	11.7	fair	Robert Mason.
York Factory, B. A.	30.16	766.1	30.20	767.1	3.0	—16.1	87	nw.	3	1.3	.....	o	o	.....	.....	o	o	clear	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Alert, Gloriosa Island, Madgascar	29.90	759.4	83	28.3	76	ene.			4		4							d. clouds.
H. M. S. Alexandra, Malta Mediterranean	30.06	763.5	70	21.1	69	se.			2		8							d. clouds.
H. M. S. Amethyst, N. 35° 15′, W. 14° 40′	30.21	767.3	61.5	16.4	88	w.			3		1	wnw.				2	nnw.	blue sky.
H. M. S. Champion, S. 12° 25′, W. 94° 40′			73	22.8	76	ese.			4–5		9					4	ese.	d. clouds.
H. M. S. Comus, Kondal, Borneo	29.76	755.9	81.5	27.5	100	e.			2		5	ese.						d. clouds.
H. M. S. Coquette, Alexandria, Egypt	29.96	761.0	69	20.6		wnw.			2		0							blue sky.
H. M. S. Dido, N. 18° 10′, W. 65° 00′	30.06	763.5	79	26.1		e.			2		4	e.						d. clouds.
H. M. S. Druid, N. 13° 23′, W. 81° 23′	29.94	760.5	80	26.7	84	ne.			1–2		3	ne.				1	ne.	d. clouds.
H. M. S. Dwarf, S. 32° 18′, W. 58° 03′	29.82	757.4	57.5	14.2	87	calm			0		6							d. clouds.
H. M. S. Eclipse, S. 6° 40′, E. 39° 20′	29.88	758.9	84	28.9		ese.			2		4							d. clouds.
H. M. S. Emerald, S. 42° 40′, E. 176° 15′	29.44	747.8	58	14.4	87	nne.			4		4	ne.						d. clouds.
H. M. S. Euryalus, Trincomalee, Ceylon	29.75	755.6	87	30.6	96	sw.			1–2		2	calm						d. clouds.
H. M. S. Fantome, N. 19° 08′, W. 69° 08′	30.02	762.5	80	26.7		e.			1		5	e.				3	e.	d. clouds.
H. M. S. Flying Fish, N. 31° 36′, E. 131° 26′	29.59	751.6	68	20.0	92	nne.			1		4							misty.
H. M. S. Fawn, N. 12° 26′, E. 46° 15′	29.76	755.9	83.5	28.6	79	ene.			2		1							blue sky.
H. M. S. Gannet, S. 27° 20′, W. 71° 20′	30.03	762.7	59	15.0	81	s.			3		10					2	s.	squally.
H. M. S. Garnet, Colonia, Rio de La Platta, Uruguay	29.80	756.9	61	16.1	82	nnw.			3		6							d. clouds.
H. M. S. Inconstant, Simon's Bay, Cape Colony	30.27	768.8	62	16.7	66	ese.			3–4		2	e.						d. clouds.
H. M. S. Iron Duke, N. 27° 17′ E. 129° 18′	29.66	753.4	72	22.2	100	wnw.			3–5		4							showery.
H. M. S. Lark, S. 8° 17′, E. 156° 23′	29.90	759.4	83.3	28.5		nne.			2		2					2	n.	d clouds.
H. M. S. Magpie, N. 34° 56′, E. 139° 52′	29.84	757.9	64.3	17.9	91	ese.			1–2		10							raining.
H. M. S. Northampton, Bermuda, W. I.	30.16	766.1	66	18.9	68	wnw.			3		5	wnw.						d. clouds.
H. M. S. Rambler, Elephant Bay, Benguela	29.89	759.2	76	24.4	95	nw.			1		0							blue sky.
H. M. S. Rocket, N. 48° 27′, W. 123° 27′	29.96	761.0	46	7.8	85	calm			0		3							d. clouds.
H. M. S. Tenedos, N. 44° 40′ W. 63° 35′	29.68	753.9	42	5.6	91	w.			2		0							blue sky.
H. M. S. Triumph, S. 27° 24′, W. 71° 17′	30.06	763.5	59	15.0	81	se.			1–2		8	s.				2	s.	d. clouds.
H. M. S. Tyne, Suez Canal, Egypt	29.95	760.7	78	25.6	94						8	wnw.						d. clouds.
H. M. S. Woodlark, N. 20° 45′, E. 59° 25′	29.69	754.1	83.5	28.6	96	s.			4		0					4	s.	blue sky.
PORTUGUESE NAVAL.																		
Rio Lima, Porto Praya, Cape Verd Islands	30.11	764.8	77.9	25.5	88	ne.			2		1		ne.			2		d. clouds.
Tamega, Macao, China	29.81	757.2	84.2	29.0	78	s			2		2		s.					d. clouds.
SWEDISH NAVAL.																		
Balder, N. 47° 39′ W. 19° 49′	29.76	756.0	52.2	11.2	83	wnw.			6		7							misty.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	30.05	763.3	67	19.4	89	ne.	2	0.9			5		ne.	0	0			fair.
N. Yard, Portsmouth, N. H.	29.81	757.2	49	9.4	50	sw.	22	9.8			3		sw.	0	0			fair.
Naval Hospital, Yokohama, Japan	29.79	756.7	62	16.7	97	nne.			2		10		n.	0.34	8.6			raining.
Adams, N. 23° 55′, E. 111° 30′	29.75	755.6	63	17.2	89	wnw.			3		8		wnw.	0	0	long	wnw.	cloudy.
Alaska, N. 1° 22 W. 80° 18	29.85	758.2	77	25.0	86	ssw.			2		10			0	0	sm'h		cloudy.
Alert, Kobe, Japan*	29.60	751.8	63	17.2	89	ene.			5		10		ene.			mod.	ene.	squally.
Alliance, Hampton Roads, Va	30.12	765.0	57	13.9	87	sw.			2		5			0	0	sm'h		fair.
Ashuelot, Kobe, Japan	29.62	752.3	62	16.7	94	ne.			6		10							cloudy.
Brooklyn, Montevideo, Uruguay	29.79	756.7	60	15.6	94	nnw.	12	5.4			8		calm	0	0	sm'h		fair.
Colorado, New York, N. Y.	29.99	761.7	50	10.0	86	ssw.	10	4.5			2		ssw.	0	0			light haze.
Enterprise, Hampton Roads, Va*	30.08	764.0	56	13.3	94	ssw.			3		2		calm					clear.
Essex, S. 27° 35′, W. 43° 06′	29.86	758.4	70	21.1	79	wsw.			6		8		wsw.			r'gh	sw.	cloudy.
Franklin, Norfolk, Va	30.25	768.3	56	13.3	81	ssw.	12.6	5.6			2		ssw.	0	0			fair.
Galena, Villafranca, France	29.95	760.7	62	16.7	100	se.			2		10		se.			sm'h		cloudy.
Independence, Mare Island, Cal.	30.00	762.0	52	11.1	100	wnw.			2		2		w.	0	0			clear.
Iroquois, Mare Island, Cal	30.16	766.1	59	15.0	76	sw.			2		2		sw.					clear.
Kearsarge, Hampton Roads, Va†	30.14	765.5	57	13.9	?	ssw.			3		10		sw.			sm'h		cloudy.
Lackawana, Callao, Peru†	30.13	765.3	62	16.7	88	calm			0		10		se.	0	0			cloudy.
Lancaster, Villafranca, France*	29.91	759.7	62	16.7	100	s.			2		10		s.			sm'h	sw.	light rain.
Marion, S. 25° 01′, W. 30° 36′	29.98	761.5	75	23.9	95	nnw.			3		5		calm	0	0	long	nne.	fair.
Michigan, Erie, Pa	30.04	763.0	49	9.4	100	s.			2		10		ne.					raining.
Minnesota, Newport, R. I.	29.92	760.0	50	10.0	79	wsw.	10	4.5			8		nw.					fair.
Monocacy, Kobe, Japan	29.68	753.9	62	16.7	94	ne.			4–5		10		calm					rainy.
New Hampshire, Newport, R. I.	29.88	758.9	54	12.2	80	wsw.			3		0					sm'h		clear.
Nipsic, Villafranca, France	29.91	759.7	63	17.2	89	se.			2		10					sm'h		rainy.
Onward, Callao, Peru†	30.09	764.3	60	15.6	94	calm			0		10		n.			long	n.	cloudy.
Palos, Kobe, Japan	29.69	754.1	65	18.3	78	e.			5		10		ene.					cloudy.
Passaic, Washington, D. C.	30.07	763.8	57	13.9	94	s.			1		10							cloudy.
Pensacola, Callao, Peru	30.01	762.2	61	16.1	94	calm	0	0			10			0	0	sm'h		cloudy.
Portsmouth, N. 48° 54′ W. 12° 25′	29.72	754.9	53	11.7	100	sse.			5		8		se.			sm'h	n.	cloudy.
Powhatan, N. 32° 11′, W. 78° 14′	30.16	766.1	74	23.3	72	ene.			2		2					long	ne.	fair.
Quinnebaug, Villafranca, France	29.92	760.0	61	16.1	94	sse.			2		10		se.			long	se.	rainy.
Ranger, Altata Bar, Mexico*	29.89	759.2	72	22.2	95	wnw.			1		2		nw.	0	0	sm'h		hazy.
Richmond, Kobe, Japan*	29.59	751.6	63	17.2	94	ene.			5		10		ne.	0.03	0.8			cloudy.
Saratoga, N. 47° 58′, W. 10° 12′	29.77	756.1	55	12.8	80	s.			2–3		5		s.	light	light	sm'h	s.	fair.
Shenandoah, New York, N. Y*	30.05	763.3	48	8.9	92	sw.			2		4							hazy.
St. Louis, League Island, Pa	30.28	769.1	52	11.1	79	sw.	6	2.7			0			0	0			clear.
Swatara, Chefoo, China*	29.92	760.0	56	13.3	63	nw.			2		2		calm			sm'h		fair.
Tennessee, Fort Monroe, Va.	30.13	765.3	58	14.4	92	sw.	13	5.8			10		nw.	0	0			hazy.
Vandalia, Hampton Roads, Va*	30.26	768.6	58	14.4	94	ssw.			2		8		calm					fair.
Wabash, Boston, Mass	29.89	759.2	51	10.6	59	wsw.	5	2.2			5		w.	0	0			hazy.
Wachusetts, Security Bay, Alaska	29.80	756.9	42	5.6	100	ese.			1		10		calm	0	0	sm'h		overcast.
Wyoming, Port Royal, S. C.	30.15	765.8	64	17.8	94	nnw.	4	1.8			10			0	0			overcast.
Yantic, Fort Monroe, Va*†	30.34	770.6	56	13.3	87	ssw.			3		8							cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
ALLAN LINE																		
S. S. Prussian, Glasgow, Scotland	.....	.....	60	15.6	.....	wnw.	.....	.....	3	.....	4?	.....	wsw.	0	0	.....	.....	cloudy?
S. S. Waldensian, Liverpool, England*	29 75	755.6	47	8.3	.....	ne.	.....	.....	2	.....	2?	.....	nnw.	0	0	.....	.....	cloudy?
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, Off Mine Head, Ireland	29.76	755.9	55	12.8	93	sw.	.....	.....	3	.....	2	.....	s.	.....	.....	sm'h	.....	clear.
S. S. Indiana, Liverpool, Eng†	29.82	757.4	65	18.3	78	e.	.....	.....	3	.....	5?	.....	ne.	0	0	.....	.....	cloudy?
S. S. Lord Clive, N. 48° 49′, W. 29° 20′*	29.72?	754.9?	.....	.....	.....	nw.	.....	.....	4	.....	6	.....	nw.	7 h'r	7 h'r	mod.	nw.	cloudy.
S. S. Ohio, N. 40° 54′, W 49° 07′†	29.99	761.7	48	8.9	92	wnw.	.....	.....	5	.....	7	.....	wnw.	.....	.....	mod.	wnw.	
ANCHOR LINE.																		
S. S. Elysia, N. 43° 22′, W. 46° 01′†	29.85	758.2	52	11.1	.....	nnw.	.....	.....	3	.....	10	.....	nw.	6 h'r	6 h'r	mod.	sw.	hazy
S. S. Utopia, N. 38° 34′ W. 16° 05′†	30.28	769.1	61	16.1	82	sw.	.....	.....	3	.....	10	.....	sw.	1 h'r	1 h'r	slt't	nw.	raining.
ATLAS LINE.																		
S. S. Ailsa, Savanilla, U. S. C†	29.88	758.9	80	26.7	82	ene.	.....	.....	3	.....	5	.....	ne.	0	0	.....	.....	dull.
S. S. Alvo, N. 25° 04′ W. 74° 22′	30.11	764.8	98	36.7	.....	e.	.....	.....	6	.....	4	.....	e.	0	0	mod.	e.	fair.
S. S. Athos, Kingston, Jamaica, W. I	29.52	749.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
S. S. Claribel, N. 17° 58′, W. 73° 53′*†	30.10	764.5	80	26.7	82	ese.	.....	.....	3	.....	9	.....	se.	3½h'r	3½h'r	mod.	ese.	squally.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S 33° 17′. W. 23° 02′	30.15	765.8	69.5	20.8	85	ne.	.....	.....	5	.....	5	.....	.....	.....	.....	.....	.....	misty.
British Merchant, S. 30° 08′, E. 47° 00′	29.88	758.9	70.5	21.4	85	ene.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	overcast.
Bk Coppename, N. 49° 04′. W. 9° 40′	29.79	756.7	56	13.3	57	calm	.....	.....	0	.....	2	.....	.....	.....	.....	.....	.....	blue sky.
S. S. Earnock, N. 26° 30′ W. 40° 22′	30.31	769.9	72.5	22.5	90	e.	.....	.....	4	.....	2	.....	.....	.....	.....	.....	.....	blue sky.
Glencairn, S. 22° 32′. E. 72° 56′	30.09	764.3	77	25.0	86	se.	.....	.....	1-4	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
Bkt. Hope, N. 2° 25′ W. 31° 05′	29.95	760.7	82.5	28.1	91	ne.	.....	.....	3	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Minho, N. 19° 50′, W. 22° 44′	30.16	766.1	70.5	21.4	79	ne.	.....	.....	6	.....	8	.....	.....	.....	.....	.....	.....	d. clouds.
CROMWELL LINE.																		
S. S. Hudson, N. 27° 05′, W. 85° 30′†	30.13	765.3	76	24.4	.....	ese.	.....	.....	2	.....	1	.....	se.	0	0	mod.	ese.	fair.
CUNARD LINE																		
S. S. Marathon, N. 44° 44′, W. 43° 57′	29.85	758.2	54	12.2	.....	ssw.	.....	.....	6	.....	10	.....	s.	3 h'r	3 h'r	mod.	s.	cloudy.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. France, N. 40° 27′, W. 72° 26′†	29.87	758.7	50.0	10.0	.....	wsw.	.....	.....	3	.....	.....	.....	sw.	0	0	.....	sw.	covered.
S. S. Ville de Marseilles, Naples, Italy *†	29.90	759.4	75	23.9	.....	s.	.....	.....	3	.....	3	.....	s.	0	0	.....	.....	fair.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S Bohemia, N. 42° 26′. W. 53° 20′*†	29.96	761.0	.....	.....	.....	wsw.	.....	.....	5	.....	2	.....	.....	3 h'r	3 h'r	cross	wsw.	fine.
S. S. Gellert, N. 48° 20′. W. 27° 20′	30.07	763.8	56	13.3	.....	nw.	.....	.....	6	.....	5	.....	nw.	1 h'r	1 h'r	r'gh	nw.	fair.
S. S. Lessing, N. 52° 09′, E. 2° 05′	29.52	749.9	69	20.6	.....	nw.	.....	.....	4	.....	10	.....	.....	.....	.....	sm'h	nw.	drizzling.
S. S. Silesia, Hamburg, Germany†	29.82	757.4	75	23.9	.....	sse.	.....	.....	6	.....	5?	.....	sse.	0	0	.....	.....	overcast?
S. S. Wieland, Off Sandy Hook, N. J	30.02	762.5	.....	.....	.....	sw.	.....	.....	3	.....	0	.....	.....	0	0	2	s.	fair.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, S. 35° —′. W. 57° —′*†	29.90	759.4	66	18.9	.....	nw.	.....	.....	2	.....	6	.....	wnw.	0	0	sm'h	.....	cloudy.
S. S. Humboldt. S. 14° 08′ W. 38° 34′. *	29.91	759.7	81.2	27.3	82	n.	.....	.....	3	.....	6 k	.....	.....	0	0	1	.....	d. clouds.
LEYLAND LINE.																		
S. S. Iberian, N. 42° 22′, W. 59° 11′	29.96	761.0	.....	.....	.....	sw.	.....	.....	1	.....	.....	.....	.....	0	0	slight	sw.	clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, Staten Island, N. Y.†	29.95	760.7	50	10.0	86	w.	.....	.....	4	.....	0	.....	.....	0	0	.....	.....	clear.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenapp, N. 1° 53′, W. 48° 20′*†	29.91	759.7	.....	.....	.....	var.	.....	.....	2	.....	6	.....	s.	2 h'r	2 h'r	mod.	se.	fine.
NATIONAL LINE.																		
S. S. Canada, Off St. Catherine's Point, Eng.†	29.73	755.1	52	11.1	.....	w.	.....	.....	2	.....	10	.....	w.	3 h'r	3 h'r	sm'h	w.	fine.
S. S. Denmark, London, England	29.70	754.4	60	15.6	.....	nnw.	.....	.....	1	.....	10	.....	nnw.	5 h'r	5 h'r	.....	.....	threatening.
S. S. Erin, N. 46° 25′, W 34° 18′	30.11	764.8	48	8.9	.....	sw.	.....	.....	3	.....	10	.....	.....	0	0	mod.	nw.	rainy.
S. S. Helvetia, N. 45° 06′, W. 39° 26′	.....	.....	53	11.7	.....	sse.	.....	.....	3	.....	9	.....	s.	0	0	sm'h	.....	dull.
S. S. Italy, N. 51° 30′, W. 8° 45′	29.80	756.9	55	12.8	.....	s.	.....	.....	3	.....	2	.....	e.	0	0	sm'h	s.	clear.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Niagara Havana, Cuba†	30.10	764.5	75	23.9	90	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S City of Alexandria, Progreso Roads, C. A.*†	30.11	764.8	77	25.0	90	e.	.....	.....	3	.....	5	.....	ene.	0	0	small	ne.	d. clouds.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N. 48° 12′, W. 20° 22′*†	29.90	759.4	56	13.3	.....	wnw.	.....	.....	4-5	.....	.....	.....	.....	.....	.....	.....	wnw.	clear.
S. S. Lepanto, N. 47° 16′, W 30° 46′*	30.14	765.5	52	11.1	.....	nnw.	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	nnw.	clear.
S. S. Olbers, N 23° 15′ W 22° 00′*†	30.22	767.6	69	20.6	.....	ne.	.....	.....	5-6	.....	.....	.....	.....	.....	.....	.....	ne.	
S. S. P. Caland, N. 45° 34′, W. 32° 30′	30.20	767.1	60.8	16.0	.....	s.	.....	.....	1	.....	.....	.....	.....	.....	.....	3	nw.	fine.
NORTH GERMAN LLOYD																		
S. S. Elbe, N. 49° 13′, W. 10° 02′	29.80	756.9	51.8	11.0	75	ene.	.....	.....	3	.....	0	.....	.....	0	0	sm'h	nne.	clear.
S. S. Graf Bismarck, Rio de Janeiro, Brazil	29.04	760.5	77.9	25.5	.....	var.	.....	.....	2	.....	4	.....	se.	0	0	.....	.....	fair
S. S. Hermann, N. 44° 09′, W. 38° 39′†	29.82	757.4	57.2	14.0	.....	s.	.....	.....	6	.....	10	.....	s.	6 h'r	6 h'r	long	ssw.	rainy.
S. S. Kronprinz F. Wilhelm, N 40° 40′, W. 62° 10′	30.04	763.0	51.8	11.0	.....	wsw.	.....	.....	4	.....	5	.....	wsw.	0	0	3	wsw.	fair.
S. S. Leipzig, N. 47° 45′ W 27° 40′	30.07	763.8	54.0	12.2	86	n.	.....	.....	6	.....	5	.....	n.	1½h'r	1½h'r	cross	nnw.	fair.
S. S. Main, N. 44° 26′. W. 40° 12′	29.81	757.2	54.5	12.5	.....	ssw.	.....	.....	5-6	.....	10	.....	ssw.	light	light	mod.	s.	heavy rain.
S. S. Neckar, N. 49° 59′. W. 9° 40′	29.72	754.9	53.6	12.0	.....	e.	.....	.....	1	.....	1	.....	wnw.	0	0	sm'h	wnw.	clear.
S. S. Oder, N. 43° 55′, W. 41° 22′	29.78	756.4	55.4	13.0	.....	ese.	.....	.....	6	.....	10	.....	ese.	6 h'r	6 h'r	mod.	se.	cloudy.
S. S. Ohio, Bremerhaven, Germany	29.76	755.9	.....	.....	.....	s.	.....	.....	3	.....	6	.....	ssw.	0	0	.....	.....	fair.
S. S. Rhein, Bremerhaven, Germany	29.59	751.6	.....	.....	.....	sw.	.....	.....	4	.....	2	.....	sw.	0	0	.....	.....	clear.
S. S. Salier, N. 51° 39′, E. 2° 23′	29.63	752.6	51.8	11.0	.....	nnw.	.....	.....	4	.....	10	.....	nnw.	4 h'r	4 h'r	sm'h	nw.	hazy.
S. S. Strassburg, N. 53° 50′, E. 6° 30′	29.59	751.6	53 0	11.7	100	se.	.....	.....	3-4	.....	10	.....	se.	2 h'r	2 h'r	sm'h	se.	covered.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic N 36° 18′, E. 172° 54′†	30.04	763.0	62	16.7	66	w.	.....	.....	3	.....	5	.....	wnw.	0	0	high	w.	fair.
S. S. Gaelic, N. 38° 01′, W. 130° 01′†	30.41	772.4	58	14.4	93	wsw.	.....	.....	5	.....	10	.....	w.	.....	.....	mod	w.	overcast.
S. S. Oceanic, N. 26° 54′, E. 123° 47′*	29.88	758.9	69	20.6	84	nnw.	.....	.....	5	.....	8	.....	nw.	.....	.....	4	nw.	cloudy.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y.†	29.91	759.7	.....	.....	.....	sw.	.....	.....	1	.....	5?	.....	sw.	.....	.....	.....	.....	clear?
S. S. Seminole, Savannah, Ga.†	30.17	766.3	72	22.2	80	calm	.....	.....	0	.....	fg.	.....	.....	6 h'r	6 h'r	.....	.....	dense fog.
OREGON IMPROVEMENT COMPANY.																		
S. S. Willamette, N. 46° 06′, W. 124° 26′.†	30.14	765.5	48	8.9	92	s.	.....	.....	1	.....	3	.....	se.	0	0	long	sw.	hazy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, N. 48° 26′, W. 124° 37′*†	30.02	762.5	50	10.0	93	se.	.....	.....	2	.....	2?	.....	e.	.....	.....	.....	.....	cloudy?
S. S. Oregon, N. 44° 13′ W. 124° 31′*†	30.02	762.5	57	13.9	93	s.	.....	.....	1	.....	10	.....	se.	.....	.....	sm'h	.....	misty.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal.†	30.11	764.8	50	10.0	86	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. State of California, N. 46° 16′, W. 121° 10′†	30.03	762.7	48	8.9	92	ne.	.....	.....	3	.....	10	.....	s.	.....	.....	sm'h	w.	fair.
S. S. Victoria, N. 49° 13′, W. 122° 54′†	29.94	760.5	47	8.3	92	calm	.....	.....	0	.....	0	.....	.....	0	0	sm'h	.....	clear.
PACIFIC MAIL STEAMSHIP CO.																		
S. S. Australia, N. 4° 22′, W. 166° 06′	29.85	758.2	77	25.0	100	ene.	.....	.....	4	.....	10	.....	ene.	.....	.....	mod.	ne.	rainy.
S. S. City of New York, Sydney, N. S. W†	30.03	762.7	66	18.9	84	wnw.	.....	.....	3	.....	1	.....	nw.	0	0	.....	.....	clear.
S. S. City of Rio de Janeiro, N 11° 20′, W. 87° 00′ *†	30.06	763.5	79	26.1	82	ne.	.....	.....	4	.....	6	.....	ne.	3 h'r	3 h'r	mod.	ne.	rainy.
S. S. City of Tokio, N. 28° 47′, E. 124° 04′†	29.78	756.4	68	20.0	84	se.	.....	.....	7	.....	8	.....	sw.	3 h'r	3 h'r	mod.	sse.	squally.
S. S. Clyde, N. 33° 44′, W. 118° 23′†	30.06	763.5	58	14.4	82	n.	.....	.....	2	.....	8	.....	nw.	0	0	light	w.	cloudy.
S. S. Colon, N. 29° 20′, W. 74° 11′†	30.19	766.8	76	24.4	.....	ese.	.....	.....	4	.....	3	.....	se.	0	0	small	e.	fair.
S. S. Grenada, N. 8° 44′ W. 84° 15′.†	29.81	757.2	79	26.1	91	se.	.....	.....	1	.....	10	.....	se.	0	0	mod.	ene.	cloudy.
S. S. South Carolina, San Jose, Guatemala†	29.99	761.7	81	27.2	96	nne.	.....	.....	2	.....	5	.....	nne.	0	0	light	sw.	hazy.
S. S. Zelandia, S. 34° 03′, E. 158° 36′	29.91	759.7	69	20.6	80	nw.	.....	.....	5	.....	8	.....	w.	.....	.....	r'gh	w.	squally.
QUEBEC S. S. COMPANY.																		
S. S. Muriel, Off Sandy Hook, N. J	29.90	759.4	50	10.0	.....	nw.	.....	.....	3	.....	0	.....	.....	0	0	sm'h	.....	fair.
S. S. Bermuda, Port of Spain, Trinidad†	29.96	761.0	61	16.1	.....	e.	.....	.....	1	.....	6	.....	e.	0	0	.....	.....	fine.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
RED STAR LINE.																		
S. S. Nederland, N. 50° 21′, W. 2° 01′†	29.80	756.9	66	18.9		nw.			5		5		w.	0	0		sse.	hazy.
S. S. Rhynland, N. 43° 10′ W. 44° 52′	29.77	756.1	56	13.3	87	nnw.			2		10		nnw.	0.4	1.	light	ssw.	cloudy.
S. S. Switzerland, N. 45° 14′, W. 34° 37′†	30.01	762.2				s.			3		8		s.	0	0	long	w.	cloudy.
S. S. Vaderland, N. 41° 04′, W. 59° 00′	29.88	758.9	52	11.1	72	wsw.			5		2		wsw.	1 h'r	1 h'r	r'gh	wsw.	fair.
S. S. Waesland, N. 49° 30′, W. 8° 16′	29.73	755.1	51	10.6		nw.			3		1		wnw.	0	0	long	n.	clear.
ROTTERDAM LINE.																		
S. S. W. A. Scholten, Rotterdam, Holland	29.41	747.0	71.5	21.9	95	sw.			1		9		nw.	½ h'r	½ h'r			fair.
STATE LINE.																		
S. S. State of Florida, N. 47° 55′, W. 33° 37′	30.08	764.0	57	13.9		s.			2		10			rain	rain	r'gh		cloudy.
THINGVALLA LINE.																		
S. S. Thingvalla, Brooklyn, N. Y.†	30.14	765.5	50.9	10.5		ssw.			1		6?		ssw.	0	0			covered.?
WARREN LINE.																		
S. S. Iowa, N. 48° 08′, W. 30° 08′*†	30.22	767.6	47	8.3		nw.			5		8		nw.	1 h'r	1 h'r	h'vy	wnw.	cloudy.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 46° 27′ W. 22° 32′	29.93	760.2									3		nw.	1 h'r	1 h'r	4	n.	
WHITE STAR LINE.																		
S. S. Adriatic, N. 42° 55′, W. 64° 29′†	29.99	761.7	43	6.1		wsw.			5		2		wsw.	0	0	mod.	sw.	d. clouds.
S. S. Celtic, N. 49° 38′. W. 24° 24′†	29.89	759.2	55	12.8	73	nnw.			4		5		nnw.	0	0	mod.	nw.	fair.
WILSON LINE.																		
S. S. Otranto, N. 42° 18′, W. 52° 27′†	30.06	763.5	48	8.9		wsw.			5				s.			mod.	sw.	clear.
S. S. Romano, New York, N. Y.*†	29.79	756 7	55	12.8		w.			1					0	0			clear.
MISCELLANEOUS.																		
Schr. Abbe Clifford, N. 22° 01′, W. 54° 45′*†	30.17	766.3	86	30.0		ese.			3		1		se.	¾ h'r	¾ h'r	mod.	e.	fine.
Sch. Addie Fuller, Newport News, Va†	30.17	766.3	55	12.8	87	sw.			3	8 ck	0	n.		0	0			cloudy.
Bk. Adelaide, Rio de Janeiro, Brazil*†	30.00	762.0	70	21.1		calm			0				se.	0	0		se.	cloudy.
Schr. Ajax, Brazos, Texas†	30.05	763.3				se.			3		3		w.	0	0			fair.
Bk. Alpha, Santiago de Cuba, Cuba, W. I†	29.95	760.7	80	26.7		nne.			2		1		nne.	1 h'r	1 h'r			clear.
Schr Annie Lewis, Aransas, Pass, Texas†	30.07	763.8	78	25.6		s.			4		5?		s.	0	0	long	sse.	cloudy?
Bk. Anna Thormann, N. 37° 46′ W. 64° 39′	29.97	761.1	65.7	18.7	78	ssw.			7		9 k;n		sw.	0	0	r'gh	wsw.	cloudy.
Bk. Antioch, S. 39° 52′, E. 74° 30′*†	29.69	754.1	62	16.7		nnw.			5		3		w.	1 h'r	1 h'r	sm'h	wnw.	fair.
S. S. Antonio Lopez, N. 21° 33′ W. 91° 05′*.	30.04	763.0	78	25.6	90	se.			4		3 k			0	0	mod.	se.	fair.
Bk. Aureola, S. 22° 34′, W. 39° 05′*†	30.04	763.0	81	27.2		sw.			6		1		wsw.	16 h'r	16 h'r	hv'y	sw.	clear.
Schr. Annie M. Smull. S. 31° 11′. E. 102° 30′*†	30.10	764.5	67	19.4		nw.								0	0			
S. S. Compton, New Orleans, La†	30.04	763.0				ese.			2		2		s.	0	0			clear.
Schr. Edith R. Seward, N. 24° 51′, W. 73° 43′*†	30.26	768.6	78	25.6		e.			2		5		ene.	0	0	mod.	e.	fair.
S. E. J. Spicer, N. 45° 48′, W. 19° 20′†	30.02	762.5				n.			5		6		n.	sq 'lls	sq 'lls	mod.	nnw.	
S. Enoch Train, Off Sable Id, N. S*	29.77	756.1				sw.			6		0			0	0	short	wsw.	clear.
S. Exporter, S. 28° 10′, W. 31° 20′*†	30.10	764.5				nnw.			3		1		nw.	0	0	sm'h		clear.
S. Festina Lente, N. 39° 00′, W. 74° 00′*	30.08	764.0	51	10.6		sw.			3		0			0	0	sm'h		clear.
Bk. Freya, Queenstown, Ireland			54	12.2		calm			0		0			0	0			fine.
S. Grecian, S. 38° 00′ E. 78° 05′*†	29.95	760.7	60	15.6		n.			6		10		w.	6 h'r	6 h'r	mod.	w.	
Schr. Hattie G. McFarland, Boston, Mass*†	29.90	759.4	56	13.3		wsw.			3		5		nw.	0	0			fair.
S. Hedwig, N. 40° 27′, W. 71° 54′	30.01	762.3	46.4	8.0	93	sw.			6		0			0	0	2	sw.	clear.
Bk. Johanne, N. 37° 42′, W. 60° 20′*†.	30.07	763.8	60	15.6		wsw.			2		2		w.	0	0	mod.	w.	fine.
Schr. John L. Thomas, Courtown Bank. C. A*†	30.02	762.5				ne.			2		2		e.	0	0			fine.
Bkt. Josephine, N. 18° 30′ W. 74° 59′*†	30.09	764.3	84	28.9	67	ese.			2		0			1½h'r	1½ h r	mod.	ne.	clear.
Bk. Kate Cann, N. 43° 26′, W. 28° 42′*†	29.87	758.7				wsw.			5		10		nw.	4 h'r	4 h'r	mod	wsw.	rainy.
Bkt. Kryolith, N. 51° 14′ W. 20° 23′*†	29.76	755.9				nne.			6		5		nne.	0	0	mod.	sw.	clearing.
Light House Tender, Laurel, N. 29° 47′, W. 84° 39′†	30.14	765.5	74	23.3		calm			0		0			0	0			clear.
S. S. Malabar, N 11° 20′, E. 54° 44′*†	29.85	758.2				se.			2		5?		ne.					cloudy.?
Bg. Medina, Key Francis, W. I.†	30.15	765.8				e.			1		5		e.					fine.
S. S. Nebo, S. 2° 35′, W. 37° 24′*†	29.85	758.2				ene.			2		2		ene.	0	0	sm'h		clear.
S. Paramita, N. 8° 53′ W. 31° 08′†	29.80	758.4	80	26.7		e.			5		6		ene.	0	0	long	nne.	hazy.
Bk Peppina, Bordeaux, France†	29.86	758.4	56	13.3	100	wsw.			4		10							raining.
Bg. Potomac, N 23° 55′, W. 63° 56′*†.	30.10	764.5				se.			1				se.			light	se.	fine.
Bk. Rosebud, N. 49° 15′, W. 5° 41*†	29.80	756.9	54	12.2	79	e.			3		8		e.	0	0	sm'h		fine.
S. Salisbury, S. 33° 08′ W. 26° 07′*	30.05	763.4	69.8	21.0	92	ne.			5		7		nne.	1 h'r	1 h'r	long	ne.	cloudy.
Bk. Stella, S. 25° 49′, W. 87° 43′*	30.08	764.0	70.3	21.3	91	sw.			1		5 k?		s.	0	0	sm'h		cloudy.?
Bk. Truro, N. 40° 34′ W. 65° 30′*†	30.00	762.0				wsw			3		1		w.	0	0			clear.
U.S.F.C.S.S. Fish Hawk, Quantico, Va†	30.17	766.3	60	15.6	82	s.			3		6		sw.	0	0			fair.
Yacht Vega, St. George, Bermuda*†	30.36	771.1	69	20.6		n.			1				nne.	0	0			
S. S. Victoria J. Peed, Salamanca Id, U. S. C.*†	29.80	756.9				ne.			1		7							
S. Washington, N. 48° 24′, W. 12° 16′*†	29.76	755.9				se.			4		8		s.	4 h'r	4 h'r	sm'h		cloudy.
Bg. Wauburn, N. 25° 03′. W. 63° 34′*†	30.20	767.1				se.			5		3		se.	0	0	sm'h		
S. Wm. Woodbury, N. 36° 37′, W. 67° 01′*†	29.97	761.2	62	16.7	88	w.			4				w.			light	w.	clear.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 5, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.01	762.3	71.2	21.8	79	sw.			3		0			0	0	clear	Moiroud
Algiers			30.01	762.3	66.2	19.0	56	nw.			1		3			0	0	pretty fair	Nicolas.
La Calle			30.06	763.6	63.7	17.6	78	ene.			6		3			0	0	pretty fair	Fonfrède.
Tunis			30.03	762.8															Jacques.
Saida			30.07	763.8															Dumas.
Tebessa			30.07	763.8	67.3	19.6	26	nw.			2		1			0	0	very fair	Derché.
Geriville					72.3	22.4	30	nnw.			2		3			0.035	0.9	cloudy	Lonchamp.
Laghouat			30.08	764.0	75.2	24.0	66	w.			1		0			0	0	clear	Abraham.
Biskra			30.08	763.9	82.4	28.0	30	nnw.			3		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	30.02	762.5	30.11	764.8	57.2	14.0	67	nnw.	9	4.0			10			0	0	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.28	743.7	29.80	757.0	74.3	23.5	34	w.			3		7			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	28.98	736.0	29.70	754.4	81.1	27.3	40	sw.	3.8	1.7			4			0	0		Dr. Wierzbiski.
Eperies	28.95	735.3	29.78	750.5	75.2	24.0	49	calm			0	c8	8 k		n.	0	0		Julius Mikolik.
Gratz	28.56	725.4	29.84	757.8	71.6	22.0	38	sw.			5		2			0	0		Andreas Rospini.
Hermannstadt	28.48	723.4	29.82	757.3	83.1	28.4	33	se.			4		4			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.44	722.3	29.76	755.9	55.2	12.9	93	nw.			4		10			0.220	5.6		The Staff.
Lemberg	28.87	733.3	29.81	757.2	73.2	22.9	53	se.			3		0			0	0		Dr. T. Stanecki.
Pola	29.84	757.9	29.95	760.7	64.0	17.8	70	wnw.			2		8			0.118	3.0		I. R. Hydrographic Office.
Szathmar	29.37	745.9	29.82	757.3	83.8	28.8	29	se.			3		7			0	0		Joseph Midlinszky, S. J.
Szegedin	29.50	749.4	29.77	756.1	80.6	27.0	40	s.			5		6			0.075	1.9		Karl Stancel.
Trieste	29.85	758.3	29.96	760.9	63.7	17.6	78	w.			1		10			0.197	5.0		Rieder.
Vienna	29.02	737.1	29.69	754.2	78.3	25.7	39	se.			2		5			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.75	755.6	29.85	758.2	51.0	10.6	61	sse.	13	5.8			2			0	0	blue sky	W. Boswell.
Armagh, Observatory	29.62	752.3	29.86	758.4	52.4	11.3	66	wsw.	4	1.8			8					d. clouds	S. Oall.
Bidston, Liverpool Obs'y			29.87	758.7	52.3	11.3	70	w.	10	4.5			1					blue sky	John Hartnup.
Bolton, Sharples	29.32	744.7	29.85	758.2	52.1	11.2	66	wsw.	12	5.4			4					misty	Thomas Mackereth.
Bradford, Yorkshire	29.46	748.3	29.85	758.2	54.7	12.6	83	w.			1		6			0	0	d. clouds	[A.S. J. McLandsborough, F. R
Bridgetown, Barbadoes	29.93	760.2	29.96	761.0	83.0	28.3	64	ne.			2		3					d. clouds	Corpl. J. Surgenor, A. H.C.
Cardington			29.84	757.9	62.2	16.8	64	nw.			0.2		8					overcast	John McLaren.
Chatham, School M. E.	29.76	755.9	29.89	759.2	58.2	14.6	71	calm			0		6					d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.65	753.1	29.88	758.9	53.2	11.8	83	e.			2		10					foggy	The Staff.
Fort Napier, Natal	27.96	710.2	30.18	766.6	62.0	16.7	52	e.			1		5?					overcast?	Pvt. E. K. Annis, A.H.C.
Free Town, Sierra Leone	29.68	753.9	29.91	759.7	84.0	28.9	67	calm			0		3					d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	30.02	762.5	30.07	763.8	64.1	17.8	83	w.			2		7					d. clouds	Cpl. O. Baldwin.
Glasgow, Observatory	29.63	752.6	29.84	757.9	50.4	10.2	74	e.			2		10 k					gloomy	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.71	754.6	29.88	758.9	60.6	15.9	68	wsw.			1		6					d. clouds	The Staff.
Guernsey	29.59	751.6	29.89	759.2	52.0	11.1	96	s.			1		10					raining	A. Collenette, F. M. S.
Kew, Observatory	29.85	758.2	29.89	759.2	57.6	14.2	78	wsw.	5	2.2			5					d clouds	The Staff.
Leicester, Museum	29.60	751.8	29.85	758.2	58.2	14.6	55	sw.			1		5					d clouds	J. C. Smith.
Malta, Mediterranean	29.85	758.2	29.92	760.0	72.6	22.6	63	se.			2		1					blue sky	I. H. Whysall.
Nassau, Bahamas	30.04	763.0	30.09	764.3	82.0	27.8	68	e.			3		6					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.35	745.5	29.87	758.7	53.7	12.1	63	nw.			1		7					d. clouds	John Mac Email.
Oxford, Radcliffe Obs'y	29.64	752.8	29.87	758.7	59.5	15.3	53	w.			1		5					d. clouds	The Staff.
Plymouth	29.78	756.4	29.86	758.4	59.8	15.4	68	ssw.			3		10					overcast	John Merrifield.
Sandwick Manse, Orkneys			29.83	757.7	48.1	8.9	83	w.	25	11.2			8					d. clouds	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.94	760.5	30.01	762.2	66.6	19.2	62	sw.			1		1					blue sky	W. H. Lyne.
Sheffield	29.59	751.6	29.87	758.7	61.0	16.1	64	sw.			1		1			0.10	2.5	blue sky	W. F. Cooper.
Silloth Rectory	29.82	757.4	29.84	757.9	54.0	12.2	75	w.			2		4			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.88	758.9	54.2	12.3		wsw.	10	4.5			6					d. clouds	J. New.
Stratfield Turgiss	29.66	753.4	29.87	758.7	60.5	15.8	66	sw.			3		3					d clouds	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	29.84	757.9	29.87	758.7	62	16.7	71	se.			5		5					d. clouds	W. Newcombe.
Valencia, Observatory	29.88	758.9	29.90	759.4	50.6	10.3	70	wsw.	12	5.4			10					d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.63	752.6	29.68	753.9	31	— 0.6	71	w.	13	5.8		0	0			0.15	3.8	clear	H. J. Cundall, C. E.
Chatham, N. B*	29.61	752.1	29.68	753.9	33	0.6	71	w.	11	4.9		0	0			0	0	clear	G. A. Blair.
Father Point, Quebec*	29.73	755.1	29.75	755.6	32	0.0	81	w.	25	11.2			10 s		w.	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.26	743.2	30.11	764.8	34	1.1	68	e.	14	6.3		0	0			0	0	clear	James Stewart.
Halifax, N. S*	29.04	752.8	29.77	756.1	37	2.8	56	w.	7	3.1		0	0			0	0	clear	A. Allison.
Kingston, Ontario*	29.66	753.4	30.01	762.2	32	0.0	62	n.	11	4.9		0	0			0	0	clear	A. P. Knight, M. A.
Montreal, Quebec*	29.77	756.1	29.98	761.5	32	0.0	60	nw.	2	0.9		0	0			0	0	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.34	745.2	30.06	763.5	32	0.0	68	ne.	8	3.6		0	0			0	0	clear	Rev. R. Mosley.
Port Dover, Ontario	29.22	742.2	29.93	760.2	36	2.2	90	ne.	20	8.9		4 c	0	w.		0.06	1.5	fair	H. Morgan.
Port Stanley, Ontario	29.24	742.7	29.90	759.4	38	3.3	89	ne.	14	6.3		8 ck	0	w.		0.02	0.5	cloudy	M. Payne.
Quebec, Quebec*	29.58	751.3	29.92	760.0	30	— 1.1	74	n.			5		10 s		n.	0	0	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.62	752.3	30.10	764.5	27	— 2.8	74	n.	8	3.6		2 k	0	nw.		0	0	fair	W. H. McIntyre.
Saugeen, Ontario*	29.28	743.7	30.01	762.2	35	1.7	89	ne.	13	5.8		0	0			0	0	clear	
St. Andrews, N. B	29.79	756.7	29.84	757.9	32	0.0	52	nw.	7	3.1		0	0			0	0	clear	
Sydney, C. B*	29.59	751.6	29.66	753.4	33	0.6	54	sw.	24	10.7		0	0			0.06	1.5	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.65	753.1	30.05	763.3	34	1.1	52	e.	8	3.6		3 cs	0	w.		inap.	inap.	fair	Magnetic Observatory.
Yarmouth, N. S*	29.77	756.1	29.84	757.9	34	1.1	68	nw	6	2.7		0	0			0	0	clear	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.75	755.6	30.01	762.2	41	5.0	91	sw.	2	0.9		5 k	5 s			0.20	5.1		John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.32	770.1	30.35	770.9	65.0	18.3	73	ne.	6.7	3.0		0	1 k			0.050	1.3	clear	John Duthie.
Cape Town, C. G. H. Obs'y	30.13	765.3	30.17	766.3	70.9	21.6	53	ssw.	23	10.3		0	0			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observer.
Chinese (Sub-series).																			
Hankow	29.79	756.7	30.06	763.5	68.8	20.4	76	sse.			5		5					rainy	N. Titoushkin.
Zi-Ka-Wei, near Shanghai	30.06	763.4	30.08	764.0	56.1	13.4	62	e.	2.7	1.2		ck	9 k			0	0	covered	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.63	752.5	29.67	753.7	57.6	14.2	87	nw.	13	6			10						Oversergent Fischer.
Fanöe	29.79	756.6	29.81	757.1	50.4	10.2	86	wnw.			6		10						Overloerer Lauridsen.
Godthaab, Greenland	30.08	763.9	30.12	765.0	37.6	3.1	56	e.			2		8			0	0		S. Kleinschmidt.
Stykkisholm, Iceland	30.17	766.2	30.21	767.3	30.2	— 1.0	69	ne.			8		8						A. O. Thorlacius.
Thorshavn	29.76	755.9	29.80	756.8	42.8	6.0	97	ne.	20	9			10					raining	Overloerer Bergh.
Vestervig	29.62	752.4	29.71	754.7	49.1	9.5	86	wsw.			6		9						Loerer Oesterbol.
French.																			
Agen, Normal School	29.32	744.8	29.97	761.2	63.0	17.2	74	calm			0		10		se.			raining	M. Labroue, Director.
Alençon, Normal School	29.43	747.4	29.98	761.4	57.9	14.4	89	s.			1		kn		sw.	0.24	6.		M. Nicot, Director.
Arras, Engineer School	29.64	752.9	29.89	759.3	62.6	17.0	66	sw.			1		kn		sw.	0	0		M. Fénéon, Command't.
Avginon, Normal School	29.87	758.8	29.95	760.8	68.4	20.2	55	n.			1					0.51	13.		M. Giraud, Director.
Bar-sur-Seine	29.40	746.8	29.95	760.8	59.4	15.2	70	sw.			1		10			0	0	covered	M. Saillard, Director.
Beauvais, Normal School	29.68	753.8	29.94	760.4	62.8	17.1	70	sse.			1		8		ssw.	0.024	0.6	very cloudy	M. Frère Eugène Mari.
Besançon, Normal School	29.02	737.2	29.90	759.4	61.7	16.5	72	s.			1	0	5 kn		w.	0.374	9.5	cloudy	M. Gobin, Director.
Bordeaux, Observatory	29.65	753.1	29.89	759.1	60.4	15.8	60	se.			1		10			0.161	4.1	covered	M. Rayet, Director.
Bourges, Normal School	29.43	747.4	29.97	761.2	58.6	14.8	58	wsw.			1		kn		wsw.	0.031	0.8		M. Postel, Director.
Brest, Naval Observatory	29.64	752.9	29.89	759.1	60.4	15.8	66	sw.			2		9		sw.	0.138	3.5		M. de Kermaree, Dir.
Caen, Normal School	29.84	758.0	29.91	759.8	62.2	16.8	66	sw.			1		8		ssw.	0.028	0.7	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.60	751.7	29.91	759.7	62.6	17.0	73	calm			0		5			0.024	0.6	cloudy	M. Jadot, Director.
Charleville, Normal School	29.42	747.2	29.92	760.0	63.3	17.4	61	s.			2		8			0	0	¾ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.58	726.0	29.91	759.7	62.6	17.0	46	ne.			1		10			0	0	covered	M. Allnard, Director.
Cluny, Normal School	29.12	739.7	29.95	760.8	60.4	15.8	61	ne.			1		7			0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.10	739.0	29.95	760.7	59.2	15.1	76	w.			1		5 n	w.	w.	0.39	10.	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.40	695.0	29.90	759.4	59.0	15	68	se.			2	0	3 k		n.	0.04	1.		M. Jeanginard, Director.
Gréasque, du. Rhone	28.84	732.4	29.94	760.4	66.0	18.9	56	nnw.			2		4		sw.	0.406	10.3		M. Kina, Director.
Grenoble, Normal School	29.17	741.0	29.93	760.2	63.3	17.4	76	wnw.			1		kn	nnw.	se.	0.925	23.5		M. Allard, Director.
Guéret, Normal School	28.37	720.7	29.93	760.3	57.4	14.1	72	s.			1		1		s.	0	0	clear	M. Rivoire, Director.
Lamballe, Normal School	29.62	752.3	29.89	759.2	56.1	13.4	84	s.			2		8		s.	0.142	3.6	very cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.35	745.5	29.91	759.6	64.4	18	67	w.			1		10			0	0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.83	757.7	29.93	760.3	57.2	14.0	78	s.			1		10			0.020	0.5	raining	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.92	734.5	29.96	761.0	60.8	16.0	61	e.			1	c	5 k	s.		0.394	10.0	½ covered	M. André, Director.
Mans, Normal School	29.65	753.2	29.96	761.0	60.4	15.8	81	sw.			1		5		s.	0.16	4.	cloudy	M. Piboen, Director.
Marseille, Observatory	29.69	754.2	29.96	760.9	66.4	19.1	62	sw.			2		3		wsw.	0	0		M. Stephan, Director.
Montlouis l'Instituteur	24.74	628.5	29.59	751.5	49.1	9.5	49	w.	9.4	4.2			6			0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.80	756.9	29.93	760.1	65.5	18.6	57	s.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.15	740.4	29.93	760.1	58.6	14.8	72	w.			1		kn			0.154	3.9		M. Hasse, Director
Nantes, Observatory	29.80	756.9	29.96	761.0	60.8	16	64	sw.			0.2		10 kn		sw.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.82	757.5	29.93	760.2	64.0	17.8	56	sw.	11.2	5.0			6	ssw.	ssw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.10	535.9			29.3	— 1.5		sw.			1		10		sw.	0.004	0.1	covered	Gen'l de Nansouty, Dir.
Privas, Normal School	28.78	731.1	29.91	759.6	65.1	18.4	57	n.			1		1 k			0.47	12.	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.08	637.0			43.9	6.6	89	ese.			2		8 k			0.110	2.8	¾ covered	M. Allnard, Director.
Rochefort, Naval Obs'y	29.90	759.5	29.93	760.3	59.7	15.4	87	calm			0		10			0.055	1.4	raining	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.67	753.5	29.88	758.9	60.8	16.	67	wnw.			1		10			0.63	16.	covered	M. Mouillot, Director.
Rodez, Normal School	27.80	706.0	29.91	759.6	60.4	15.8	49	e.			1		10			0.016	0.4	covered	M. Serger, Director.
Rouen, Normal School	29.89	759.3	29.94	760.5	59.4	15.2	74	wsw.			1		8		wsw.	0.04	1.	very cloudy	M. Brotier.
Saint Maur, Observatory	29.79	756.7	29.96	760.9	55.9	13.3	82	s.			1		10		ssw.	0.051	1.3		M. Renou, Director.
Toulouse, Observatory	29.23	742.4	29.95	760.7	69.4	20.8	62	se.			1		8	w.		0	0	very cloudy	M. Baillaud, Director.
Tours	29.78	756.4	29.95	760.8				sw.			1		5	sw.	sw.	0.299	7.6	cloudy	
Versailles, Observatory	29.46	748.3	29.95	760.8	56.8	13.8	76	w.			1					0.001	0.1		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.67	753.5	29.96	760.9	55.9	13.3	86	ssw.			1		10		sw.	0.020	0.5		M. Marié Davy, Director
German.																			
Bamberg	29.06	738.1	29.91	759.7	59.0	15.0	77	nw.			2	0	9 ks		wnw.	0.04	1.		Prof. Dr. Hoh.
Berlin	29.63	752.6	29.80	757.0	57.2	14.0	80	w.			4		10			0.142	3.6		Prof. Dr. Arndt.
Breslau	29.24	742.6	29.76	756.0	67.8	19.9	73	nw.			3		1			0	0		Royal University Obs'y.
Carlsruhe	29.51	749.6	29.95	760.6	61.5	16.4	67	wsw.			1		10	sw.		0.047	1.2		Albert Senz.
Cassel	29.15	740.5	29.87	758.6	64.8	18.2	57	nnw.			3		8	sw.		0.547	13.9		Dr. H. Mohl.
Frankfort on the Main	29.55	750.6	29.91	759.8	61.0	16.1	59	nnw.			1		9			0.382	9.7		Physical Society.
Friedrichshafen	28.52	724.4	29.94	760.5	57.6	14.2	85	sw.			2		10	sw.		0	0		Wilhelm, Chief Tel.
Hamburg	29.76	755.9	29.85	758.3	54.0	12.2	78	nnw.			5		10			0.350	8.9		E. Preller.
Kiel	29.78	756.5	29.80	756.9	52.9	11.6	82	w.			4		10			0.177	4.5		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.43	747.6	29.85	758.2	56.5	13.6	80	nw.			3		10	nw.		0.087	2.2	raining	H. Leppig, Asst.
Magdeburg	29.65	753.1	29.84	757.8	58.8	14.9	72	wnw.			3		10 ks		nw.	0.209	5.3		Dr. Assmann.
Memel	29.78	756.4	29.83	757.6	66.9	19.4	55	sse.			4	2 cs	0						Issermann.
Munich	28.07	713.0	29.93	760.1	52.0	11.1	90	nw.			2		10	sw.		0.354	9.0	heavy rain	Central Station.
Neufahrwasser	29.69	754.0	29.70	754.4	73.9	23.3	55	sse.			3		0			0	0		A. Lothes.
Neustadt, Palatinate	29.39	746.4	29.91	759.7	62.2	16.8	76	nw.			1		10			0	0		Dicknether.
Stuttgart	28.97	735.9	29.85	758.3	58.5	14.7	71	n.					10			0	0		Prof. Dr. Schoder.
Wustrow	29.77	756.2	29.80	756.8	52.7	11.5	88	wnw.			4		10			0.020	0.5		Profs. Brandes & Reimer
Greek.																			
Athens	29.66	753.4			78.4	25.8		sw.			1.0		8			0	0	misty	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.63	752.7	29.68	753.9	85.8	29.9	72	wsw.	31.0	13.8			0			0	0	misty	
Deesa	29.16	740.7	29.61	752.2	101.7	38.7	30	ssw.	17.5	7.8			0			0	0	blue sky	
Bombay	29.80	756.8	29.83	757.8	86.5	30.3	67	wsw.	12.0	5.4			0			0	0	blue sky	
Poona, Yarrowda	27.95	709.8	29.76	755.9	90.5	32.5	10	wnw.	25.0	11.2			1	w.		0	0	d. clouds	
Bellary	28.28	718.2	29.69	754.2	98.0	36.7	15	sw.	11.5	5.1			0			0	0	blue sky	
Belgaum	27.28	693.0	29.79	756.6	82.8	28.2	48	wsw.	7.0	3.1			0			0	0	misty	
Lahore	28.86	733.0	29.57	751.1	98.2	36.8	15	nw.	2.9	1.3			0			0	0	blue sky	
Roorkee	28.72	729.6	29.59	751.7	92.8	33.8	23	sw.	5.7	2.6			0			0	0	misty	
Agra	29.03	737.4	29.57	751.0	102.1	38.9	13	nw.	7.2	3.2			0			0.07	1.8		
Nagpur	28.61	726.6	29.60	752.1	102.5	39.2	17	sw.	5.7	2.6			5		w.	0	0	d. clouds	
Jubbulpore	28.33	719.6	29.63	752.6	99.9	37.7	13	wnw.	4.0	1.8			4		n.	0	0	d. clouds	
Lucknow	29.25	743.0	29.62	752.3	96.7	35.9	13	ese.	4.6	2.1			0			0	0	blue sky	
Allahabad	29.30	744.1	29.60	751.8	95.7	35.4	27	ene.	4.7	2.1			0			0	0	blue sky	
Patna	29.52	749.7	29.70	754.4	84.2	29.0	51	ene.	12.2	5.4			4	ene.	ene.	0	0	d. clouds	
Hazaribagh	27.07	702.7	29.66	753.3	79.8	26.6	38	s.	15.4	6.9			10		s.	0.07	1.8	showery	
Cuttack	29.65	753.0	29.73	755.0	89.4	31.9	61	se.	4.3	1.9			6			0.02	0.5	d. clouds	
Calcutta, Alipore	29.68	754.0	29.70	754.5	86.2	30.1	61	s.	10.0	4.5			10	s.	s.	0	0	gloomy	
Dhubri	29.64	752.9	29.76	755.9	80.6	27.0	67	calm	10.2	4.6			0			0.80	20.3	blue sky	
Chittagong	29.71	754.6	29.80	756.9	81.2	27.3	75	wsw.	3.7	1.6			3			0	0	blue sky	
Sibsagar	29.43	747.4	29.76	756.0	77.2	25.1	73	ne.	1.6	0.7			2			0	0	blue sky	
Jeypore	28.17	715.6	29.55	750.6	101.7	38.7	11	nw.	12.0	5.4			3		nw.	0	0	d. clouds	
Zanzibar, Africa	29.90	759.4			82.2	27.9	81	ene.	4.5	2.0			8		se.	0.01	0.3	gloomy	
Italian.																			
Udine	29.52	749.9	29.93	760.1	61.5	16.4	74	sw.	5.6	2.5			10			0.484	12.3		Prof. Giovanni Clodig.
Milan	29.43	747.4	29.94	760.4	63.0	17.2	59	nne.	7.4	3.3			7	ssw.	ssw.	0.646	16.4		Prof. Schiaparelli.
Padua	29.82	757.5	29.93	760.3	62.8	17.1	68	wsw.	10.5	4.7			6			0.173	4.4		Prof. Dott. Lorenzoni.
Moncalieri	29.03	737.3	29.93	760.1	61.7	16.5	69	s.	3.8	1.7			5	nw.	nw.	0	0		Prof. P. F. Denza.
Genoa	29.78	756.5	29.94	760.4	61.2	16.2	65	sw.	5.6	2.5			8	s.	s.	0.701	17.8		Prof. G. M. Garibaldi.
Mondovi	28.02	711.6	29.94	760.5	60.1	15.6	70	w.			4		2			1.331	33.8		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	29.91	759.8	29.96	761.0	66.2	19.0	53	wsw.	7.4	3.3			10			0	0		Prof. Luigi Guidi.
Florence	29.75	755.7	30.00	762.0	59.4	15.2	85	w.			2		10	sw		0.559	14.2		Prof. Costantino Pitter.
Leghorn	29.86	758.4	29.95	760.6	60.6	15.9	82	sw.	7.4	3.3			7			1.083	27.5		Prof. P. Monte.
Rome	29.88	759.0	30.05	763.3	70.2	21.2	45	wsw.	8.1	3.6			6	wsw.		0	0		Prof. P. S. Ferrari.
Lecce	29.74	755.5	29.99	761.7	80.1	26.7	45	s.	9.8	4.4			2			0	0		Prof. C. de Giorgi.
Cosenza	29.09	738.9	29.96	761.0	78.8	26.0	79	sse.	3.8	1.7			3	se.		0	0		Prof. D. Conti.
Cagliari	29.76	755.8	29.95	760.7	67.3	19.6	61	ssw.			2		1			0.012	0.3		Prof. A. Pacinotti.
Palermo	29.78	756.4	30.03	762.7	65.1	18.4	73	ne.	6.9	3.1			5			0	0		Prof. G. Ciacciatore.
Syracuse	29.92	760.0	29.97	761.1	69.1	20.6	64	ne.	7.4	3.3			5	sw.		0	0		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.43	747.4	29.93	760.3	71.2	21.8	58	sw.	3.1	1.4			2	ne.		0	0		Prof. T. Brioschi.
Stelvio	22.11	561.5			40.1	4.5	74	sw.			4		10			0.476	12.1	covered	Prof. P. F. Denza.
Valdobbia	22.14	562.3			40.5	4.7	87	n.			2		10			2.953	75.0	covered	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.40	746.7	29.44	747.8	43.6	6.4	79	ssw.	3.8	1.7		0	6 ks;s			0.680	17.3	cloudy	K. Ogawa.
Hakodate	29.41	747.0	29.42	747.2	42.3	5.7	81	sw.	4.8	2.1			8			0.555	14.1	cloudy	
Hiroshima, I. M. Obs'y	29.82	757.4	29.84	757.9	52.0	11.1	59	n.	6.0	2.7		0	0			0	0	clear	J. Sogawa.
Kanazawa	29.67	753.6	29.78	756.4	50.2	10.1	75	wnw.	14.6	6.5		ck	10 s			0.070	1.8	cloudy	S. Endo.
Kioto	29.63	752.6	29.81	757.2	47.5	8.6	77	wsw.	0.3	0.1		1 ck	0			0	0	clear	M. Tojima.
Kochi	29.78	756.4	29.80	756.9	57.5	14.2	43	nne.	10.9	4.9		0	0			0	0	clear	K. Kusunose.
Nagasaki, I. M. Obs'y	29.69	754.1	29.89	759.2	55.1	12.8	69	ne.	2.3	1.0		0	0			0	0	clear	S. Takehayashi.
Niigata	29.57	751.1	29.60	751.8	47.0	8.3	73	w.	27.3	12.2		ck	10 n		w.	0.250	6.4	light rain	M. Morita.
Nobiru	29.44	747.8	29.45	748.0	48.6	9.2	60	n.	10.9	4.9			10 s;n			0.610	15.5	light rain	H. Midzushima.
Supporo					35.9	2.2	94	se.	6.6	2.9			10			0.555	14.1	raining	
Tokei Obs'y, Yeddo	29.40	746.7	29.47	748.5	53.6	12.0	56	n.	13.6	6.1		0	9 ks;n		w.			light rain	The Staff.
Wakayama	29.76	755.9	29.81	757.2	53.3	11.8	56	nw.	7.0	3.1		0	0			0	0	clear	Y. Kuwamura.
MAURITIUS.																			
Mauritius Observatory	29.84	757.9	30.03	762.7	79.4	26.3	65	ene.	12.0	5.4		0	2 k;ks		e.	0	0	clear	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.63	599.3	29.84	758.0	65.7	18.7	56	e.				0	4 k		sw.	0	0	foggy	Prof. Vicente Fernandez.
Leon	24.35	618.5	29.94	760.5	64.8	18.2	65	nne.			1	8 c	0	w.		inap.	inap.	dense fog	Prof. M. Leal.
Mazatlan	29.60	751.7	29.85	758.3	73.5	23.1	93	e.	0.9	0.4		5ck;cs	0	wnw.				light haze	F. Quijano, C. E.
Mexico, Central Obs'y	23.07	585.9	30.08	764.0	54.0	12.2	52	calm	0	0		0	0			0	0	foggy	The Staff.
Morelia	24.08	611.9	30.10	764.4	63.7	17.6	72	se.			4	3	4	s.	se.	0	0		M. Tena, M. D.
Pabellon, Aguascallentes	23.88	606.6	29.84	757.8	61.5	16.4	61	calm			0	5 cs	0	w.		0	0	foggy	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.37	593.6	30.10	764.5	54.5	12.5	75	calm	0	0			3		sse.	0	0	½ clouded	Prof. P. Spina.
San Luis Potosi	24.14	612.9	29.97	761.2	66.2	19.0	54	e.			1	3	3	w.	w.	0	0	½ clouded	G. Barroeta, M. D.
Zacatecas	22.51	571.8	30.03	762.6	60.8	16.0	45					7 ck	0	nw.		0	0	½ cloudy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.92	759.9	29.92	759.4	59.4	15.2		w.			2					0.024	0.6		
Groningen	29.84	757.9	29.89	759.3	54.9	12.7		nw.			1					0.169	4.3		
Helder	29.89	759.2	29.89	759.2	50.2	10.1		w.			1					0.008	0.2		
Hellevoetsluis	29.91	759.6	29.91	759.6	64.6	18.1	67	sw.			2					0.055	1.4		
Utrecht	29.86	758.5	29.91	759.7	65.3	18.5	57	wsw.			2		5			0	0	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.49	749.1	29.56	750.7	46.6	8.1	95	sw.	9	4			10			0.295	7.5	raining	
Bronno	29.63	752.6	29.67	753.6	43.5	6.4	66	n.	18	8			6			0	0		
Christiania	29.40	746.7	29.54	750.4	48.6	9.2	87	ene.	4	2			10			0.780	19.8	raining	
Gjæsvær	29.77	756.2	29.80	756.8	32.9	0.5		wnw.			7		9						
Lodingen	29.84	757.8	29.88	759.0	33.6	0.9	65	nne.			4		9			0	0		
PORTUGUESE.																			
Angra, Azores					63.5	17.5	80	wsw.	9.8	4.4			4			0	0		Dr. J. A. Sampaio.
Campo Major	28.96	735.5	29.95	760.6	59.5	15.3	54	w.	9.4	4.2			9			0.350	8.9		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.18	766.6	30.27	768.9	66.9	19.4	61	sw.					3			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.71	754.7	30.08	763.9	57.6	14.2	63	wnw.	15.0	6.7			6			0.496	12.6		The Staff.
Ponta Delgada, Azores	30.25	768.3	30.32	770.1	67.3	19.6	76	w.	4.9	2.2			3			0	0		
Saint Paul de Loando	29.71	754.0	29.91	759.7	78.8	26.0	91	wsw.	1.8	0.8			9			0	0		
Serra da Estrella	25.15	638.9	29.99	761.8	36.3	2.4	91	nnw.	21.0	9.4			8	nw.		1.106	28.1		
RUSSIAN.																			
Akmolinski	28.99	736.3	30.04	763.1	63.9	17.7	36	s.	4	2		5 cs	0			0	0		Major K. Lasarew.
Archangel	29.85	758.2	29.87	758.7	46.6	8.1	79	nw.	13	6		0	8 ks			0	0		Capt. Sselliwerstow.
Astrakhan	29.90	759.4	29.82	757.3	67.3	19.6	49	n.	7	3		0	7 k			0	0		Capt. Wisganow.
Barnaul	29.60	751.9	30.11	764.8	44.6	7.0	40	calm	0	0			10			0	0	light clouds	Meteorological Obs'y.
Dorpat	29.70	754.3	29.93	760.2	68.4	20.2	40	sse.	9	4		8 cs	0			0	0		Observatory.
Ekaterinburg	28.89	733.9	29.84	757.9	57.7	14.3	70	calm	0	0			9			0.173	4.4		Meteorological Obs'y.
Kasan	29.67	753.5	29.94	760.4	51.1	10.6	68	nnw.	11	5			10			0	0		Observatory.
Kerich	29.93	760.2	29.95	760.7	67.8	19.9	45	nnw.	13	6		3 c	0			0.087	2.2		Lagorio & Sastyrez.
Kleff	29.36	745.8	29.98	761.5	66.9	19.4	45	ene.	4	2		ck	3 ks			0	0		Observatory.
Lugan	29.67	753.6	29.87	758.7	64.6	18.1	52	nne.	22	10			10			0	0		Meteorological Obs'y
Moscow	29.52	749.8	29.98	761.5	64.6	18.1	26	nw.	7.8	3.5			0						Meteorological Obs'y.
Nikolaiev	29.94	760.4	30.01	762.2	78.1	25.6	33	nnw.	4	2		0	2 k			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.96	761.0	30.05	763.2	38.1	3.4	71	ne.	9	4			10			0	0		Lieut. Iwanow.
Pekin, China	29.89	759.3	30.04	762.9	62.8	17.1	39	se.	7	3		0	5 ks			0	0		Physical Observatory
St. Petersburg	29.95	760.7	29.97	761.1	64.8	18.2	34	wsw.	2	1		cs	9 k			0	0		Central Physical Obs'y.
Semipalatinsk	29.65	753.1	30.31	769.9	54.1	12.3	18	ne.	4	2		0	0			0	0		Major Lasareu.
Tashkend, Laboratory	28.29	718.6	29.77	756.2	81.0	27.2	36	n.	9	4			0			0	0		Teich, A. M.
Tiflis	28.52	724.3	29.92	760.0	58.1	14.5	54	nw.	18	8			10			0.165	4.2		Physical Observatory
Vladivostock	29.60	751.7	29.66	753.4	45.5	7.5	86	nw.	18	8			10 n			0.075	1.9		
Warsaw	29.33	745.0	29.73	755.2	75.2	24.0	51	sse.	18	8			0						Astronomical Obs'y.
Wilna	29.51	749.8	29.93	760.1	65.8	18.8	55	sse.	11	5			2			0	0	light clouds	Berg, Assistant.
Yeniseisk	30.10	764.6	30.40	772.2	37.8	3.2	78	w.	4	2			8			0	0		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.85	758.2	29.95	760.8	65.3	18.5	73	s.	4.3	1.9			1			0.146	3.7	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.90	759.5	29.96	761.0	61.0	16.1	81	w.	2.0	0.9			10			0.028	0.7	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.97	685.0	29.95	760.7	54.5	12.5	76	sw.	8.7	3.9			9			0.213	5.4	almost cov.	Domingo Martin.
Madrid, Royal Obs'y	27.70	703.5	29.93	760.1	54.9	12.7	75	sw.	7.4	3.3			9			0.043	1.1	almost cov'd	The Staff.
Murcia, Met. Obs'y	29.72	754.9	29.87	758.7	72.9	22.7	41	se.	1.3	0.6		4	4	ene.		0.346	8.8	cloudy	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.05	737.8	29.94	760.4	59.7	15.4	68	calm	0	0			10			0.921	23.4	raining	R. Gil Valkanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	29.92	759.9	29.98	761.6	76.3	24.6	80	e.	2.7	1.2		0	0			1.205	30.6	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.84	757.9	29.90	759.4	84.5	29.2	77	sw.	2.2	1.0		1 c	6 ck	e.	ssw.	2.205	56.0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.96	760.9	30.06	763.4	59.5	15.3	76	wsw.	4.9	2.2		0	4		w.	0.426	10.8		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.95	760.8	30.04	763.1	78.1	25.6	87	calm	0	0		5 cs	1 k	e.	e.	0.020	0.5	d. clouds	Manuel Maese.
Tuguegarao, Philippine Id's	29.79	756.7	29.92	760.0	80.9	27.2	80	nnw.	6.7	3.0		1 c	1 k		n.	0	0	clear	José L. Yrastorza.
SWEDISH																			
Haparanda	29.90	759.4	29.94	760.4	46.0	7.8	83	n.			2		8			0.150	3.8		
Umea	29.87	758.6	29.92	759.9	41.0	5.0	72	e.			2		10			0.323	8.2		
Hernosand	29.76	756.0	29.82	757.3	41.0	5.0	87	ne.			2		10			0	0		
Stockholm	29.57	751.0	29.74	755.5	53.6	12.0	69	s.			4		10			0	0		
Wisby	29.67	753.5	29.72	755.0	61.2	16.2	61	sse.			4		5			0	0		
Sub-series.																			
Upsala	29.61	752.0	29.69	754.2	53.2	11.8	73	s.	12.8	5.7			10		sse.	0	0		S. G. Flueman.
SWISS.																			
Geneva	28.54	725.0	29.96	761.0	57.7	14.3	53	n.			2					0	0	clouds	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
TURKISH.																			
Constantinople			30.07	763.7	68.5	20.3	40	s.	10	4.5			0			0	0		The Observatory.
Valona			30.09	764.2	77.5	25.3		sw.			1		5			0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.96	761.0	72.3	22.4	62	wsw.			1	0				0	0		Prof. C. V. A. van Dyck
UNITED STATES.																			
Albany, New York	29.86	758.4	29.94	760.5	39	3.9	54	n.	8	3.6			10 s			0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.43	747.5	30.09	764.3	35	1.7	64	e.	16	7.2			10 s			0	0	cloudy	Jas. J. Fitzgerald.
Atlanta, Georgia	28.78	731.0	29.96	761.0	64.5	18.1	75	sw.	7	3.1		10 k	0	calm		0	0	cloudy	H. Hall.
Atlantic City, New Jersey	29.77	756.1	29.78	756.4	54	12.2	90	ne.	12	5.4		10 cs	hz.			0.28	7.1	cloudy	Jas. M. Watson.
Augusta, Georgia	29.79	756.7	29.98	761.5	66	18.9	73	sw.	2	0.9		4 ck	0	w.		0	0	fair	John Healy.
Baltimore, Maryland	29.75	755.6	29.80	756.9	61	16.1	78	e.	3	1.3			10 s			0.04	1.0	cloudy	Robert Seybolt.
Barnegat, New Jersey	29.79	756.7	29.81	757.2	51.5	10.8	92	sw.	4	1.8			10s;fg		sw.	0.16	4.1	cloudy	Chas. F. Merritt.
Bismarck, Dakota	28.09	713.5	29.87	758.7	46	7.8	76	e.	14	6.3		8 cs	2 s			0.84	21.3	cloudy	Cyrus Cramer.
Boise City, Idaho	27.20	690.9	30.04	763.0	42	5.6	92	nw.	8	3.6			10 s		calm	0.19	4.8	cloudy	B. E. Light.
Boston, Massachusetts	29.74	755.4	29.90	759.4	47.0	8.3	48	ne.	8	3.6		0	c			0	0	clear	O. B. Cole.
Brownsville, Texas	29.72	754.9	29.76	755.9	77	25.0	90	s.	7	3.1		0	0			0	0	clear	M. McCarty.
Buffalo, New York	29.20	741.7	29.94	760.5	35	1.7	68	ne.	9	4.0		4 ck	6 s	w.	w	0.09	2.3	cloudy	Wm. Finn.
Burlington, Vermont	29.68	753.9	29.97	761.2	32.3	0.2	49	n.	7	3.1		0	3 s		n.	0	0	clear	G. O. Schaeffer.
Cairo, Illinois	29.30	744.2	29.70	754.4	69.7	20.9	86	sw.	14	6.3			10 ks		sw.	0	0	threatening	W. H. Ray.
Campo, California	27.36	694.9	29.90	759.4	41.4	5.2	76	sw.	2	0.9		0	0			0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.04	686.8	29.71	754.6	44	6.7	56	calm			0	0	hz.			0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	29.80	756.9	29.82	757.4	68	20.0	70	sw.	20	8.9			10s;ks		sw.	0	0	cloudy	J. E. Lanouette.
Cape May, New Jersey	29.76	755.9	29.79	756.7	58	14.4	80	e.	13	5.8			10 s			0	0	cloudy	W. Bolten.
Cedar Keys, Florida	30.01	762.2	30.03	762.7	76	24.4	74	se.	6	2.7		4 c	0			0	0	fair	F. W. Mixer.
Champaign, Illinois	28.81	731.8	29.61	752.1	60.5	15.8	92	se.	12	5.4			10 n		se.	2.14	54.4	light rain	L. A. Welsh.
Charleston, S. Carolina	29.90	759.4	29.95	760.7	74	23.3	85	sw.	12	5.4		5 ck	0	sw.		0	0	fair	J. H. Smith.
Charlotte, N. Carolina	29.01	736.8	29.85	758.2	64.0	17.8	84	s.	8	3.6		0	sk.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.06	738.1	29.87	758.7	68.0	20.0	73	sw.	11	4.9			10 ks		w.	0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.91	607.3	29.78	756.4	42.3	5.7	62	w.	1	0.4			10 n		w.	inap.	inap.	light rain	E. McGovern.
Chicago, Illinois	29.07	738.4	29.77	756.1	45.4	7.4	91	ne.	16	7.2			10 s		ne.	0.38	9.7	cloudy	J. Mitchell.
Chincoteague, Virginia	29.76	755.9	29.78	756.4	63	17.2	93	s.	9	4.0			10 s		sw.	0	0	cloudy	V. P. Temple.
Cincinnati, Ohio	29.11	739.4	29.76	755.9	63.2	17.3	90	w.	5	2.2			10 s		w.	1.01	25.7	threatening	R. B. Watkins.
Cleveland, Ohio	29.08	738.6	29.81	757.2	45	7.2	76	ne.	12	5.4			10 s			0.13	3.3	cloudy	J. B. Newlin.
Coleman City, Texas	27.94	709.7	29.74	755.4	64	17.8	93	sw.	3	1.3		6 k	0	sw.		0	0	fair	L. Dorman.
Columbus, Ohio	28.87	733.3	29.71	754.6	58	14.4	100	ne.	5	2.2			10 n			1.73	43.9	heavy rain	D. Cuthbertson.
Concho, Texas	27.80	706.1	29.70	754.4	68	20.0	84	calm	0	0		8 ck	0	s.		0	0	cloudy	W. W. McConihe.
Davenport, Iowa	29.07	738.4	29.71	754.6	51	10.6	86	e.	12	5.4			10 n		e.	0.58	14.7	light rain	R. R. Martin.
Dayton, Washington T'y	28.36	720.3	30.10	764.5	42	5.6	93	sw.	4	1.8		0	2 s			0.27	6.9	clear	H. Clifford.
Deadwood, Dakota	25.28	642.1	29.79	756.7	38	3.3	82	sw.	4	1.8		0	0			0	0	clear	G. W. Scott.
Decatur, Texas																			D. J. Carr.
Delaware Breakwater, Del.	29.77	756.1	29.79	756.7	56	13.3	93	e.	8	3.6		5 c	4 s;hz	w.	calm	0	0	cloudy	A. Schneider.
Denison, Texas	28.88	733.5	29.68	753.9	73.0	22.8	84	s.	12	5.4		0	5 s		s.	0	0	fair	J. McGlone.
Denver, Colorado	24.59	624.6	29.75	755.6	47.0	8.3	25	nw.	2	0.9		4 c	0	n.		0	0	fair	F. M. Neal.
Des Moines, Iowa	28.73	729.7	29.62	752.3	55	12.8	93	ne.	16	7.2			10 n		ne.	2.15	54.6	light rain	F. W. Conrad.
Detroit, Michigan	29.17	740.9	29.87	758.7	44.0	6.7	68	ne.	11	4.9			10 s		calm	0.03	0.8	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.12	688.8	29.68	753.9	53	11.7	74	ne.	18	8.0		0	0			0	0	clear	E. A. Thomas.
Dubuque, Iowa	29.07	738.4	29.77	756.1	46.2	7.9	77	ne.	8	3.6			10 s		calm	0.27	6.9	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.39	746.5	30.09	764.3	37	2.8	61	ne.	13	5.8		10 cs	0	ne.		0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	28.94	735.1	29.74	755.4	76.2	24.6	82	se.	9	4.0			10 s		se.	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.25	641.3	29.93	760.2	38	3.3	66	nw.	1	0.4		4 k	0	nw.		0	0	fair	J. M. Clifford.
Eastport, Maine	29.76	755.9	29.83	757.7	33.2	0.7	58	nw.	16	7.2		0	0			0	0	clear	J. H. Melton.
El Paso, Texas	26.10	662.9	29.74	755.4	58	14.4	25	nw.	11	4.9		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.15	740.4	29.87	758.7	41	5.0	73	ne.	20	8.9			10 s		ne.	0.11	2.8	cloudy	R. H. Paxton.
Escanaba, Michigan	29.40	746.7	30.06	763.5	36	2.2	61	ne.	12	5.4		5 cs	0	w.		0	0	fair	C. Dill.
Fort Apache, Arizona	25.00	635.0	29.82	757.4	34	1.1	65	e.	3	1.3		0	0			0.10	2.5	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.11	688.6	29.95	760.7	41	5.0	76	sw.	6	2.7		2 c	1 s	sw.	sw.	inap.	inap.	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.19	716.0	29.75	755.6	47	8.3	86	ne.	10	4.5			10 n			0.35	8.9	light rain	A. Pritchard.
Fort Benton, Montana	27.16	689.9	29.95	760.7	41	5.0	92	calm	0	0		3 c	0			inap.	inap.	clear	G. W. Davis.
Fort Buford, Dakota	27.89	708.4	29.87	758.7	51	10.6	80	ne.	10	4.5			10 s		calm	0	0	cloudy	A. H. Bell.
Fort Custer, Montana	26.78	680.2	29.88	758.9	43	6.1	93	s.	3	1.3			10 s		calm	0	0	cloudy	V. Verge.
Fort Davis, Texas	25.02	635.5	29.74	755.4	58	14.4	57	calm	0	0		0	0			0	0	clear	J. Williams.
Fort Elliott, Texas	26.94	684.3	29.64	752.8	57	13.9	60	nw.	12	5.4		0	0			0	0	clear	W. J. Cundall.
Fort Gibson, Indian T'y	29.04	737.6	29.60	751.8	72.0	22.2	90	s.	8	3.6			10 s		s.	0	0	cloudy	J. B. Campbell.
Fort Grant, Arizona	25.05	636.3	29.66	753.4	53	11.7	23	calm	0	0		0	0			0	0	clear	T. J. Macgowan.
Fort Keogh, Montana	27.36	694.9	29.81	757.2	45	7.2	63	w.	5	2.2		3 c	0			0	0	clear	W. B. Stockman.
Fort Macon, North Carolina	29.92	760.0	29.93	760.2	69	20.6	90	sw.	17	7.6		3 c	1 s			0	0	fair	L. Leonardy.
Fort McKavett, Texas	27.60	701.0	29.84	757.9	68	20.0	76	s.	4	1.8		0	0			0	0	clear	J. E. Thatcher.
Fort Missoula, Montana	26.70	678.2	30.00	762.0	39	3.9	92	ne.	3	1.3		0	0			0	0	clear	J. H. Jones.
Fort St. Michaels, Alaska	29.05	737.9	29.08	738.6	30	— 1.1	100	ne.	3	1.3			10 s			0	0	cloudy	A. P. Leavitt.
Fort Shaw, Montana	26.34	669.0	29.94	760.5	36	2.2	92	w.	4	1.8		3 ck	0			0.22	5.6	clear	A. L. Mathews.
Fort Sill, Indian Territory	28.41	721.6	29.63	752.6	64.8	18.2	91	calm	0	0		4 ck	0	w.		0	0	fair	T. Cleary.
Fort Stevenson, Dakota	28.05	712.5	29.88	758.9	44	6.7	100	e.	12	5.4			10 n			0.39	9.9	light rain	W. Burrows
Fort Verde, Arizona					45.8	7.7	50	sw.			1	0	4 s		sw.	0	0	fair	D. Brooks.
Fort Washakie, Wyoming	24.37	619.0			41.1	5.1	86	sw.	6	2.7			10 n			0.03	0.8	light rain	T. M. Ambler.
Fredericksburg, Texas	28.04	712.2	29.76	755.9	71	21.7	97	sw.	9	4.0			10 ks		sw.	0	0	cloudy	H. S. Miles.
Galveston, Texas	29.82	757.4	29.86	758.4	75	23.9	90	se.	11	4.9		0	5 k		s.	0	0	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.20	741.7	29.86	758.4	45.0	7.2	49	ne.	12	5.4			10 s		w.	0.04	1.0	cloudy	W. A. Reid.
Hatteras, North Carolina	29.89	759.2	29.91	759.7	69	20.6	90	sw.	27	12.1		6 ck	0	n.		0	0	fair	R. M. Crawford.
Helena, Montana	25.75	654.0	29.92	760.0	43	6.1	93	w.	4	1.8			10 n		w.	0.05	1.3	heavy rain	S. Wheaton.
Henrietta, Texas	28.68	728.5	29.66	753.4	75.0	23.9	82	s.	12	5.4		0	0			0	0	clear	J. W. Byram.
Huron, Dakota	28.40	721.3	29.75	755.6	44.2	6.8	86	ne.	15	6.7			10 s			0.74	18.8	cloudy	S. W. Glenn.
Indianapolis, Indiana	28.92	734.6	29.71	754.6	59	15.0	93	e.	6	2.7			10 n		e.	1.69	42.9	light rain	O. Schutze
Indianola, Texas	29.79	756.7	29.82	757.4	75.6	24.2	90	s.	11	4.9		0	6 ks		s.	0	0	fair	I. A. Reed.
Jacksboro, Texas	28.52	724.4	29.67	753.6	73	22.8	84	sw.	12	5.4		0	0			inap.	inap.	clear	J. P. Sherry.
Jacksonville, Florida	30.00	762.0	30.04	763.0	74	23.3	76	s.	10	4.5		0	0			0	0	clear	J. W. Smith.
Keokuk, Iowa	28.88	733.5	29.53	750.0	60.5	15.8	93	e.	20	8.9			10 ks		sw.	1.50	38.1	cloudy	F. Z. Gosewisch
Key West, Florida	29.98	761.5	30.00	762.0	79.5	26.4	70	e.	7	3.1		1 cs	3 k		e.	0	0	fair	L. M. Melbourne.
Kittyhawk, North Carolina	29.87	758.7	29.89	759.2	68.5	20.3	81	sw.	17	7.6		5 k;cs	2 s	w.		0	0	fair	E. A. Beals.
Knoxville, Tennessee	28.86	733.0	29.88	758.9	63.3	17.4	89	w.	9	4.0			10 n		w.	0.34	8.6	light rain	J. A. Cody.
La Crosse, Wisconsin	29.07	738.4	29.83	757.7	43	6.1	36	ne.	10	4.5			10 s			0.01	0.3	cloudy	S. C. Emery.
La Mesilla, New Mexico	25.97	659.6	29.73	755.1	44.5	6.9	57	calm	0	0		0	0			0	0	clear	N. D. Lane.
Leavenworth, Kansas	28.68	728.5	29.56	750.8	65	18.3	68	n.	10	4.5		3 cs	0			0	0	clear	A. W. Browne.
Lewiston, Idaho	29.27	743.4	30.11	764.8	47	8.3	80	e.	1	0.4			10 s			0.09	2.3	cloudy	J. M. Burlew.
Little Rock, Arkansas	29.38	746.2	29.69	754.1	70	21.1	94	sw.	8	3.6		0	5 s		sw.	0.17	4.3	fair	W. U. Simmons.
Los Angeles, California	29.64	752.8	30.04	763.0	49.2	9.6	77	n.	1	0.4		0	3 s		calm	0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.13	739.9	29.68	753.9	63	17.2	90	s.	2	0.9			10 ks		w.	1.25	31.7	threatening	H. C. Smyth.
Lynchburg, Virginia	29.12	739.6	29.80	756.9	64.0	17.8	68	calm	0	0			10 ks		w.	inap.	inap.	cloudy	W. R. Bushby.
Madison, Wisconsin	28.81	731.8	29.81	757.2	41	5.0	73	e.	15	6.7			10 s		e.	0.35	8.9	cloudy	C. A. Shaw.
Marquette, Michigan	29.40	746.7	30.12	765.0	39	3.9	54	e.	14	6.3		0	0			0	0	clear	J. Gilligan.
Memphis, Tennessee	29.43	747.5	29.76	755.9	74	23.3	76	s.	8	3.6			10 s		sw.	0.04	1.0	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.11	739.4	29.85	758.2	41	5.0	92	ne.	16	7.2			10 s			0.32	8.1	cloudy	W. Line.
Mobile, Alabama	29.91	759.7	29.95	760.7	70	21.1	90	sw.	3	1.3		1 c	0			0	0	clear	J. D. Paxton.
Montgomery, Alabama	29.74	755.4	29.97	761.2	66.7	19.3	91	sw.	1	0.4		4 c	5 ks	w.	w.	0	0	cloudy	J. B. McLaughlin.

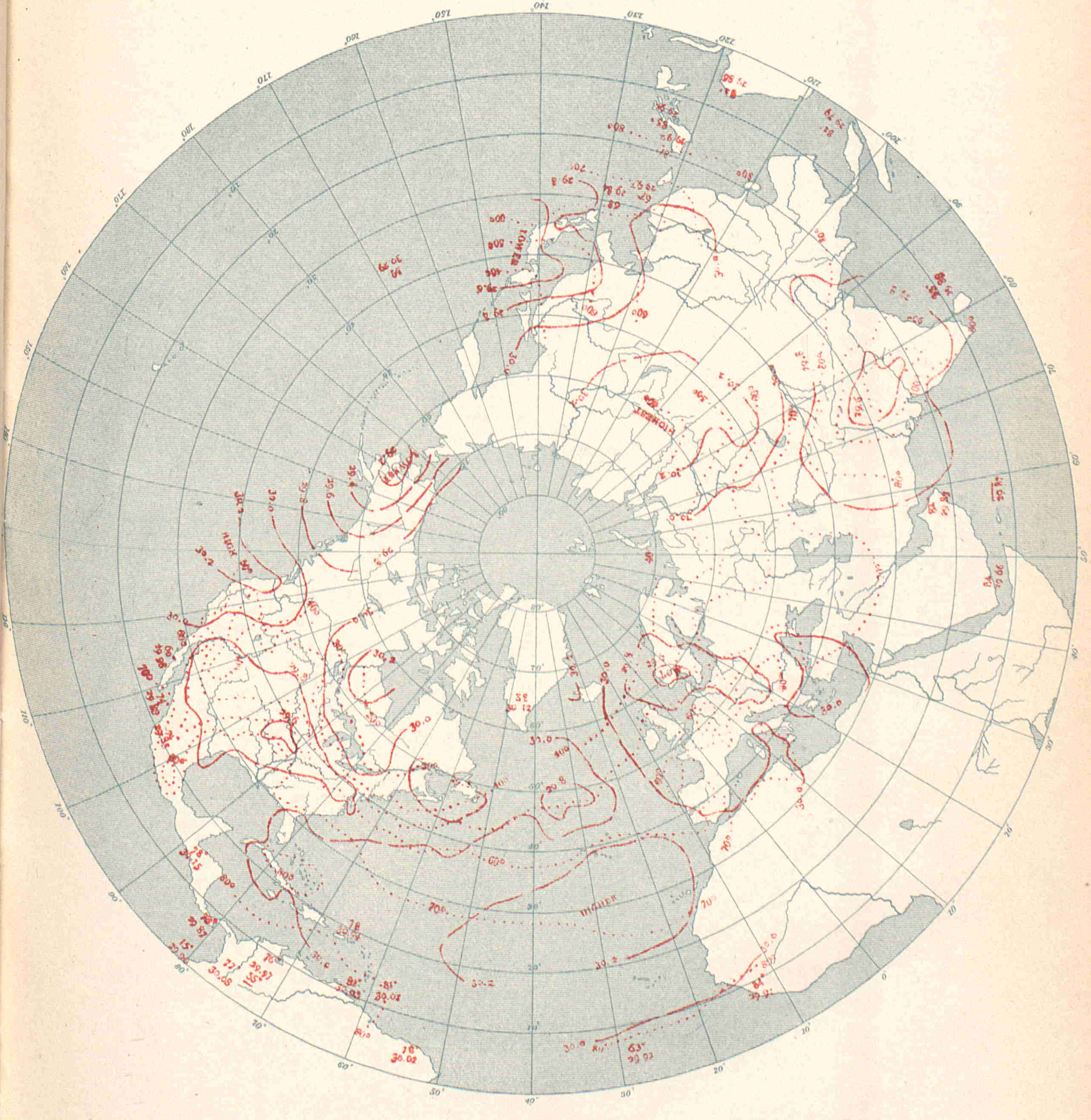
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Moorhead, Minnesota	28.94	735.1	29.92	760.0	38	3.3	61	ne.	6	2.7		5 cs	5 s	n.	ne.	0	0	cloudy	H. Bessant.
Morgantown, W. Virginia	28.73	729.7	29.74	755.4	60.0	15.6	87	calm	0	0			10 n			0.30	7.6	light rain	J. C. Sprigg, jr.
Mt. Washington, N. H	23.36	593.3	29.54	750.3	6.0	—14.4	63	nw.	66	29.6		0	1 s		nw.	0.32	8.1	clear	J. G. Linsley.
Nashville, Tennessee	29.26	743.2	29.79	756.7	67.5	19.7	81	sw.	3	1.3		4 cs	6 ks	sw.	sw.	0.07	1.8	cloudy	L. A. Jesunofsky.
New Haven, Connecticut	29.74	755.4	29.86	758.4	48	8.9	56	ne.	11	4.9		10 cs	0			inap.	inap.	cloudy	J. H. Sherman.
New London, Connecticut	29.82	757.4	29.87	758.7	51	10.6	47	e.	8	3.6		5 cs	3 s	calm	e.	0	0	fair	J. G. Lynch.
New Orleans, Louisiana	29.86	758.4	29.91	759.7	73.0	22.8	79	s.	5	2.2		5 c	sk.			0	0	cloudy	L. Dunne.
Newport, Rhode Island	29.82	757.4	29.86	758.4	49.0	9.4	44	ne.	7	3.1		7 c	2 s	nw.	calm	inap.	inap.	clear	W. McGillivray.
New River, N. Carolina					70	21.1	85	s.			4	0	2 s			0	0	cloudy	C. C. Corbin.
New Shoreham, Rhode I'd	29.83	757.7	29.86	758.4	45.0	7.2	76	ne.	16	7.2			10 s		ne.	0	0	cloudy	W. Davis.
New York, New York	29.68	753.9	29.86	758.4	55	12.8	80	ne.	10	4.5			10 n			inap.	inap.	light rain	E. B. Garriott.
Norfolk, Virginia	29.80	756.9	29.83	757.7	67	19.4	73	sw.	7	3.1		3 ck	4 ks	w.	w.	0	0	fair	J. T. Elker.
North Platte, Nebraska	26.89	683.0	29.76	755.9	47.6	8.7	91	n.	8	3.6		0	5 s			0.09	2.3	fair	E. F. Brady.
Olympia, Washington T'y	30.17	766.3	30.21	767.3	45.0	7.2	93	calm	0	0			10 s		calm	inap.	inap.	cloudy	J. Dascomb.
Omaha, Nebraska	28.47	723.1	29.63	752.6	58.8	14.9	87	ne.	14	6.3			10 ks		ne.	0	0	cloudy	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	29.82	757.4	29.84	757.9	2.8	—16.2	95	ene.	18	8.0			10 s			0	0	cloudy	P. H. Ray.
Oswego, New York	29.62	752.3	29.95	760.7	34.0	1.1	60	ne.	18	8.0		0	0			0	0	clear	S. W. Beall.
Palestine, Texas	29.24	742.7	29.80	756.9	71.0	21.7	90	s.	16	7.2			10 ks		s.	0.11	2.8	cloudy	L. M. Pindell.
Pensacola, Florida	29.93	760.2	29.96	761.0	73.3	22.9	97	s.	4	1.8		0	7 ks		sw.	0	0	fair	M. McGauran.
Philadelphia, Pa	29.71	754.6	29.81	757.2	58	14.4	74	ne.	11	4.9			10 s		ne.	0.02	0.5	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.66	448.6	29.72	754.9	15	— 9.4	67	sw.	7	3.1		0	3 s			0	0	clear	L. M. Dey.
Pioche, Nevada	23.89	606.8	29.81	757.2	39	3.9	46	nw.	6	2.7		10 cs	0	n.		0	0	cloudy	C. N. Kitchel.
Pittsburg, Pennsylvania	28.93	734.8	29.73	755.1	57.8	14.3	87	ne.	4	1.8			10 s		ne.	0.43	10.9	threatening	J. H. Bryce.
Poplar River, Montana	27.74	704.6						se.			1	0	0			0	0	clear	U. D. Maxwell.
Port Eads, Louisiana	29.95	760.7	29.96	761.0	74.1	23.4	90	s.	6	2.7		2 c	0	w.		0	0	clear	H. G. Christian.
Port Huron, Michigan	29.24	742.7	29.92	760.0	39.8	4.3	61	ne.	18	8.0		8 c	0			0.03	0.8	cloudy	W. O. Bailey.
Portland, Maine	29.84	757.9	29.89	759.2	40.0	4.4	40	nw.	6	2.7		1 ck	0	w.		0	0	clear	D. C. Murphy.
Portland, Oregon	30.14	765.5	30.21	767.3	50.0	10.0	77	calm	0	0			10 s		calm	0	0	cloudy	M. L. Hearne.
Portsmouth, N. Carolina					65	18.3	90	sw.	18	8.0		6 c	3 k	sw.	w.	0	0	cloudy	F. P. Chaffee.
Prescott, Arizona	24.58	624.3	29.68	753.9	41	5.0	33	s.	2	0.9		0	0			0	0	clear	J. Mc N. Wright.
Provincetown, Mass	29.84	757.9	29.87	758.7	43	6.1	74	ne.	9	4.0		2 ck	2 s	nw.		0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	30.00	762.0	30.01	762.2	72	22.2	82	e.	6	2.7		5 c	0	calm		0	0	fair	W. J. Evans.
Red Bluff, California	29.75	755.6	30.12	765.0	47.8	8.8	87	nw.	4	1.8		0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.51	749.5	29.75	755.6	76	24.4	85	s.	8	3.6		0	0			0	0	clear	P. M. Wilson.
Rochester, New York	29.30	744.2	29.95	761.0	35	1.7	69	ne.	12	5.4		1 c	2 s	nw.		0.03	0.8	clear	F. Gillam.
Roseburg, Oregon	29.67	753.6	30.22	767.6	40	4.4	86	ne.	1	0.4		5 cs	0	w.		0.05	1.3	fair	J. J. Nanry.
Sacramento, California	30.00	762.0	30.08	764.0	50.6	10.3	86	calm	0	0		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	28.99	736.3	29.58	751.3	65.9	18.8	100	se.	8	3.6			10ks;hz		w.	0	0	threatening	J. H. Webber.
St. Paul, Minnesota	29.05	737.9	29.90	759.4	44.0	6.7	37	ne.	15	6.7		4 k	6 ks	e.	ne.	0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.19	741.4	30.05	763.3	38	3.3	73	e.	9	4.0		4ck;cs	0	calm		0	0	fair	G. Kingsbury.
Salt Lake City, Utah	25.53	648.5	29.85	758.2	46	7.8	56	calm	0	0			10 s			0.09	2.3	threatening	J. Craig.
San Antonio, Texas	29.08	738.6	29.78	756.4	73.0	22.8	90	se.	8	3.6			10 s		se.	0	0	cloudy	E. Lane.
San Diego, California	29.89	759.2	29.96	761.0	57.9	14.4	77	sw.	5	2.2		6 k	4 s	s.	s.	0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.14	740.1	29.81	757.2	46	7.8	68	ne.	28	12.5			10 s		ne.	0.42	10.7	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.80	756.9	29.84	757.9	52.0	11.1	93	ne.	8	3.6			10 n		ne.	0.04	1.0	light rain	B. A. Blundon.
San Francisco, California	30.06	763.5	30.13	765.3	51	10.6	83	w.	3	1.3		0	fg.			0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.07	586.0	29.68	753.9	43.8	6.6	31	calm	0	0		2 c	0	sw.		0	0	clear	H. U. Jones.
Savannah, Georgia	29.91	759.7	30.00	762.0	74	23.3	71	sw.	8	3.6		3 c	0			0	0	clear	H. W. Ford.
Shreveport, Louisiana	29.53	750.0	29.77	756.1	71	21.7	90	se.	4	1.8		3 ck	5 s		se.	inap.	inap.	cloudy	E. N. Meekins.
Silver City, New Mexico	24.09	611.9	29.64	752.8	44	6.7	37	sw.	3	1.3		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	29.59	751.6	29.65	753.1	43.2	6.2	71	se.	28	12.5			10 ks		se.	0.09	2.3	cloudy	J. J. McLean.
Smithville, North Carolina	29.01	759.7	29.95	760.7	71	21.7	84	sw.	11	4.9		2 c	0			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.04	712.2	30.09	764.3	48	8.9	86	sw.	4	1.8			10 s			inap.	inap.	cloudy	D. Moore.
Springfield, Illinois	28.99	736.3	29.66	753.4	59	15.0	100	ne.	30	13.4			10 n		n.	3.14	79.8	thnd'r str'm	T. B. Jennings.
Springfield, Massachusetts	29.77	756.1	29.90	759.4	44.0	6.7	51	n.	9	4.0		10 k	hz.	nw.		0.06	1.5	cloudy	T. S. Outram.
Springfield, Mo	28.17	715.5	29.65	753.1	71	21.7	82	sw.	19	8.5		0	2 s		sw.	0	0	clear	J. B. Marbury.
Starkville, Miss	29.42	747.3			73.7	23.2	68	s.	13	5.8		9 ck	0			0	0	cloudy	M. J. Wright.
Stockton, Texas	26.78	680.2	29.79	756.7	58.2	14.6	60	sw.	8	3.6		2 cs	0	sw.		0	0	clear	J. O'Dowd.
Thatcher's Island, Mass	29.76	755.9	29.81	757.2	39.9	4.4	82	e.	12	5.4		0	0			0	0	clear	F. R. Day.
Toledo, Ohio	29.13	739.9	29.81	757.2	46.5	8.1	73	e.	24	10.7		4 ck	4 s	w.		0.41	10.4	cloudy	A. Buell.
Tucson, Arizona	27.40	695.9	29.74	755.4	50	10.0	55	se.	3	1.3		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.78	756.4	30.16	766.1	48	8.9	83	nw.	1	0.4		0	1 s			inap.	inap.	clear	J. Daly.
Uvalde, Texas	28.78	731.0	29.73	755.1	73	22.8	90	se.	16	2.7			10 ks		se.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.60	751.8	29.85	758.2	71	21.7	84	s.	4	1.8			10 s		sw.	0	0	threatening	H. T. Brisbane.
Visalia, California	29.65	753.1	30.02	762.5	49.5	9.7	82	nw.	1	0.4		0	0			0	0	clear	W. L. Seward.
Washington, D. C	29.69	754.1	29.80	756.9	60.3	15.7	93	calm	0	0			10 n			0.03	0.8	light rain	B. M. Purssell.
West Las Animas, Colorado	25.86	656.8	29.72	754.9	49	9.4	80	calm	0	0		0	4 s		e.	0	0	fair	J. Grover.
Williamsport, Pa	29.22	742.2	29.82	757.4	52	11.1	93	calm	0	0			10 n			0.12	3.0	light rain	B. F. Hough.
Wilmington, N. Carolina	29.87	758.7	29.92	760.0	72	22.2	84	sw.	18	8.0		6 c;k	0	sw.		0	0	fair	A. T. Sherwood.
Winnemucca, Nevada	25.66	651.8	30.01	762.2	32	0.0	88	sw.	8	3.6		0	0			0.04	1.0	clear	J. R. Williams.
Yankton, Dakota	28.42	721.9	29.70	754.4	55	12.8	93	calm	0	0			10 ks			0.91	23.1	cloudy	J. H. Atfield.
Yuma, Arizona	29.61	752.1	29.76	755.9	64.0	17.8	45	nw.	4	1.8		3 c	0	e.		0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.01	559.0			55.0	12.8	85	calm	0	0			10 s; n			0.04	1.0	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W. I.	30.00	762.0	30.01	762.2	81	27.2	91	e.				5 ck	5 ks		e.	0.60	15.2	fair	J. A. Racker.
Buenaventura, U. S. C.	30.05	763.3	30.08	764.0	77	25.0	90	calm	0	0			10 n		s.	0.02	0.5	raining	J. I. Plume.
Havana, Cuba, W. I.	29.96	761.0	30.02	762.5	79	26.1	77	se.	1.2	0.5		0	2 ks		calm	0	0	clear	A. Van Caneghem.
Kingston, Jamaica, W. I.	29.99	761.7	30.00	762.0	78.0	25.6	77	n.	1	0.4		1 cs	6 s		e.	0.18	4.6	cloudy	Robert Johnston.
Magua, San Domingo					72	22.2						4 cs	0			0	0		S. M. Pike.
Navassa, W. I.																			F. M. Everett.
Paramaribo, S. A.	30.02	762.5	30.02	762.5	78	25.6	86	e.			2		8 ps	e.	e.	0.160	4.1	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.51	749.5	29.97	761.2	76	24.4	84	e.			1		9 ks		e.	2.03	51.6	clearing	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							96	se.			1	10 cs	3 ks		se.	0	0	cloudy	Earl Flint.
Santiago de Cuba, W. I.	29.95	760.7	29.98	761.5	77	25.0	76	n.	2.4	1.1		2 c	7 s			0	0	cloudy	Robert Mason.
York Factory, B. A.	30.25	768.3	30.30	769.6	15.0	— 9.4	91	se.	6	2.7		0	0			0	0	clear	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Alert, Gloriosa Island, Madgascar	29.91	759.7	86.5	20.3	74	se.			2		8							d. clouds.
H. M. S. Alexandra, Malta, Mediterranean	29.98	761.5	70.2	21.2	72	e.			1		2							d. clouds.
H. M. S. Amethyst, N. 33° 21′, W. 16° 13′	30.24	768.1	64.5	18.1	86	nw.			3		1	wnw.				1	wnw.	blue sky.
H. M. S. Champion, S. 11° 05′ W. 96° 45′			75	23.9	72	ese.			4		5	calm				4	ese.	d. clouds.
H. M. S. Cleopatra, Singapore, Malay Peninsula	29.79	756.7	80.5	26.9	95	s.			1		3							d. clouds.
H. M. S. Comus, N. 6° 34′ E. 116° 20′	29.86	758.4	81.5	27.5	?	se.			1		4	e.						d. clouds.
H. M. S. Coquet e, Alexandria, Egypt	30.02	762.5	72	22.2		nnw.			3		0							blue sky.
H. M. S. Dido, N. 18° 10′, W. 65° 00′	30.08	764.0	78	25.6		e.			2		7	e.						showery.
H. M. S. Druid, N. 13° 23′, W. 81° 23′	29.94	760.5	81	27.2	78	ene.			1		7	ne.						d. clouds.
H. M. S. Dwarf, S. 32° 18′, W. 58° 03′	29.62	752.3	58.5	14.7	100	calm			0		10							overcast.
H. M. S. Eclipse, S. 7° 35′, E. 40° 46′	29.88	758.9	84	28.9		ese.			2–3		4					2	sse.	d. clouds.
H. M. S. Emerald, S. 43° 50′ E. 177° 25′	29.44	747.8	56	13.3	93	ne			2–3		3	nne.				3	nne.	d. clouds.
H. M. S. Euryalus, Trincomalee, Ceylon	29.88	758.9	93	33.9	70	sw.			1		1	calm						blue sky.
H. M. S. Fantome, N. 17° 51′, W. 68° 00′	30.03	762.7	81	27.2		ese.			2–3		7	ese.				2	ese.	d. clouds.
H. M. S. Flying Fish, N. 31° 17′, E. 131° 21′	29.77	756.1	68.5	20.3	81	ne.			3		8					4	ene.	d. clouds.
H. M. S. Fawn, N. 12° 14′ E. 48° 17′	29.66	753.4	84	28.9	81	nne.			3		2					2	ne.	d. clouds.
H. M. S. Gannet, S. 27° 03′, W. 70° 51′	30.04	763.0	58.5	14.7	79	e.			2–3		10							overcast.
H. M. S. Garnet, Colonia, Rio de La Plata, Uruguay	29.68	753.9	61	16.1	88	sw.			4		10							squally.
H. M. S. Inconstant, Simon's Bay, Cape Colony	30.18	766.6	66	18.9	78	e.			4		4	e.				1	ese.	d. clouds.
H. M. S. Iron Duke, N. 28° 17′, E. 129° 18′	29.85	758.2	65	18.3	94	calm			0		2							d. clouds.
H. M. S. Lark, S. 8° 18′, E. 156° 24′	29.85	758.2	82.3	27.9		calm			0		5							d. clouds.
H. M. S. Magpie, N. 34° 56 , E. 139° 52′	29.42	747.3	61.3	16.3	54	se.			1		7					1	nnw.	d. clouds.
H. M. S. Northampton, Bermuda, W. I.	30.15	765.8	67	19.4	79	ese.			3		3	sse.						d. clouds.
H. M. S. Orontes, N. 30° 50′, W. 66° 12′	30.19	766.8	69.5	20.8	92	se.			3		2					2	sse.	d. clouds.
H. M. S. Rambler, Elephant Bay, Benguela	29.89	759.2	75	23.9	95	wsw.			1		2							d. clouds.
H. M. S. Rocket, N. 48° 27′, W. 123° 27′	30.11	764.8	48	8.9	93	calm			0		4							d. clouds.
H. M. S. Tenedos, N. 44° 40′ W. 63° 35′	29.74	755.4	36	2.2	90	wnw.			1		0							blue sky.
H. M. S. Triumph, Caldera, Chili	30.00	762.0	60	15.6	88	calm			0		0	s.						d. clouds.
H. M. S. Woodlark, N. 20° 45′ E. 59° 30′	29.73	755.1	81.5	27.5	87	ssw.			5–6		3	sw.				5	sw.	d. clouds.
PORTUGUESE NAVAL.																		
Rio Lima, Porto Praya, Cape Verde Island	30.06	763.5	76.3	24.6	91	ne.			4		3					3	ne.	blue sky.
Tamega, Macao, China	29.89	759.3	77.0	25.0	83	e.			6		8							overcast.
SWEDISH NAVAL.																		
Balder, N. 48° 29′ W. 14° 19′	29.95	760.8	52.9	11.6	83	nne.			5		3							d. clouds.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	29.90	760.0	74	23.3	95	s.	6	2.7			8		s.	0	0			fair.
Navy Yard, Portsmouth, N. H.	29.90	759.4	43	6.1	51	ne.	7	3.1			5?		ne.	0	0			cloudy?.
Naval Hospital, Yokohama, Japan	29.32	744.7	55	12.8	45	n.			5		8		w.	2.27	57.7			cloudy.
Adams, N. 25° 30′, W. 113° 10′	29.72	754.9	60	15.6	82	wnw.			5		5		wnw.	0	0	r'gh	wnw.	fair.
Alaska, N. 0° 15′, W. 80° 41′	29.90	759.4	75	23.9	81	ssw.			2		10			0	0	sm'h		cloudy.
Alert, Kobe, Japan*	29.66	753.4	56	13.3	63	nnw.			1		2		calm	0	0	sm'h		clear.
Alliance, Norfolk, Va	29.92	760.0	73	22.8	63	wsw.			3		5			0	0	sm'h		fair.
Ashuelot, Kobe, Japan	29.71	754.6	51	10.6	79	nw.			1		2		calm					clear.
Brooklyn, Montevideo, Uruguay	29.61	752.1	62	16.7	100	sw.	10	4.5			10		sw.	0.25	6.3			cloudy.
Colorado, New York, N. Y	29.84	757.9	55	12.8	80	ne.	3	1.3			10		calm	0	0			misty.
Enterprise, Hampton Roads, Va*	29.82	757.4	66	18.9	79	sw.			3		8		calm					hazy.
Essex, S. 28° 16′ W. 43° 21′	29.95	760.7	71	21.7	71	ne.			2		5		n.			sm'h	sw.	fair.
Franklin, Norfolk, Va	29.86	758.4	66	18.9	79	sw.	11	4.9			8		sw.	0	0			fair.
Galena, N. 42° 01′, E. 6° 18′	30.04	763.0	64	17.8	89	wsw.			2		0					sm'h		clear.
Independence, Navy Yard, Mare Island, Cal	30.01	762.2	51	10.6	86	calm			0		0			0	0			clear.
Iroquois, Mare Island, Cal	30.11	764.8	55	12.8	74	calm			0		0							clear.
Kearsarge, Hampton Roads, Va†	29.86	758.4	65	18.3	100	ssw.			3		8		sw.			sm'h		fair.
Lackawanna, Callao, Peru†	30.12	765.0	61	16.1	88	calm			0		10		se.	0	0			foggy.
Lancaster, N. 42° 04′, E. 6° 16′*	29.97	761.2	62	16.7	100	w.			1		2		w.	0	0			fair.
Marion, S. 25° 35′, W. 32° 00′	30.00	762.0	75	23.9	95	calm			0		5					sm'h	var.	fair.
Michigan, Erie, Pa	29.83	757.7	38	3.3	90	ne.			6		10		n.					cloudy.
Minnesota, Newport, R. I.	29.82	757.4	51	10.6	52	ene.	3	1.3			8							fair.
Monocacy, Kobe, Japan	29.81	757.2	56	13.3	69	nnw.			1		2		calm					fair.
New Hampshire, Newport. R. I.	29.83	757.7	48	8.9	85	ne.			3		0					sm'h		clear.
Nipsic, N. 41° 58′, E. 6° 20′	29.99	761.7	62	16.7	83	wsw.			2		2					long	sw.	clear.
Onward, Callao, Peru†	30.09	764.3	60	15.6	94	nw.			2		10		s.			long	v'	foggy.
Palos, Kobe, Japan	29.83	757.7	52	11.1	66	nnw.			1		0							clear.
Passaic, Washington, D. C.	29.81	757.2	60	15.6	?	ne.			1		10							raining.
Pensacola, Callao, Peru	29.98	761.5	60	15.6	94	nnw.	2	0.9			10			0	0	sm'h		foggy.
Portsmouth, N. 49° 53′, W. 10° 31′	29.91	759.7	54	12.2	100	ne.			1		8		n.			sm'h	n.	cloudy.
Powhatan, N. 35° 24′, W. 75° 17′	29.96	761.0	68	20.0	95	sw.			4		8		w.			light	s.	hazy.
Quinnebaug, N. 42° 03′, E. 6° 13′	29.99	761.7	63	17.2	78	wsw.			3		0					sm'h		clear.
Ranger, Altata Dock, Mexico*	29.78	756.4	74	23.3	76	nw.			2		5		nw.	0	0	sm'h		fair.
Richmond, Kobe, Japan*	29.75	755.6	55	12.8	62	calm			0		0			0	0			clear.
Saratoga, N. 48° 40′, W. 8° 12′	29.83	757.7	52	11.1	93	ene.			4		8		ne.	0	0	sm'h	e.	cloudy.
Shenandoah, New York, N. Y*	29.91	759.7	54	12.8	80	ne.			2		10					sm'h		drizzling.
St. Louis, League Island, Pa	30.03	762.7	56	13.3	87	nne.	6	2.7			0			0.066	1.7			clear.
Swatara, Chefoo, China*	29.87	758.7	58	14.4	70	nnw.			1		5		calm			sm'h		fair.
Tennessee, Fort Monroe, Va	29.85	758.2	65	18.3	89	ssw.	11	4.9			10			0	0			hazy.
Vandalia, Norfolk, Va*	29.95	760.7	67	19.4	79	sw.			1		8		sw.					fair.
Wabash, Boston, Mass	29.89	759.2	48	8.9	78	ne.	3	1.3			0			0	0			clear.
Wachusetts, N. 56° 27′ W. 133° 24′	29.56	750.8	44	6.7	100	n.			3		10					sm'h		overcast.
Wyoming, Port Royal, S. C.	30.00	762.0	70	21.1	85	s.	15	6.7			5		nw.	0	0			fair.
Yantic, Fort Monroe, Va*†	29.86	758.4	65	18.3	94	wsw.			2		8							fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Prussian, Glasgow, Scotland*	29.62	752.3	55	12.8	.....	wsw.	.....	.....	1	.....	8	.....	sw.	6 h'r	6 h'r	.....	.....	cloudy.
S. S. Waldensian, Queenstown, Ireland*	29.89	759.2	52	11.1	.....	wsw.	.....	.....	1	.....	8	.....	w.	0	0	.....	.....	fine.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, N. 50° 52′, W. 14° 54′	29.93	760.2	52	11.1	100	nw.	.....	.....	5	.....	2	.....	n.	.....	.....	mod.	nw.	clear
S. S. Indiana, Liverpool, England†	30.00	762.0	57	13.9	57	ese.	.....	.....	3	.....	0	.....	.....	0	0	.....	.....	fair.
S. S. Lord Clive, N. 47° 29′, W. 35° 30′*	29.77	756.1	.....	.....	.....	nne.	.....	.....	4	.....	10	.....	nne.	9 h'r	9 h'r	mod.	n.	cloudy.
S. S. Ohio, N. 39° 38′ W. 55° 58′†	29.95	760.7	69	20.6	95	sw.	.....	.....	6	.....	7	.....	sw.	.....	.....	h'vy	sw.	cloudy.
ANCHOR LINE.																		
S. S. Elysia, N. 44° 46′, W. 41° 35′ †	30.20	767.1	53	11.7	.....	nw.	.....	.....	3	.....	1	.....	.....	0	0	mod.	nw.	clear.
S. S. Etopia, N. 37° 26′, W. 11° 02′†	30.26	768.6	60	15.6	50	nnw.	.....	.....	3	.....	4	.....	nnw.	sh's	sh's	sli't	nw.	clear.
ATLAS LINE.																		
S. S. Atlas, Savanilla, U. S. C. †	29.90	759.4	84	28.9	87	calm	.....	.....	0	.....	10	.....	ne.	3 h'r	3 h'r	.....	.....	dull.
S. S. Alvo, N. 29° 09′, W. 74° 15′	30.12	765.0	91	32.8	.....	e.	.....	.....	3	.....	2	.....	e.	sh'rs	sh'rs	mod.	e.	fair.
S. S. Antillas, N. 38° 30′, W. 73° 28′*†	30.10	764.5	.....	.....	.....	ene.	.....	.....	2	.....	5?	.....	ene.	.....	.....	mod.	ene.	cloudy.?
S. S. Athos, N. 19° —′, W. 73° 30′	29.57	751.1	.....	.....	.....	ene.	.....	.....	1	.....	4	.....	e.	0	0	sm'h	.....	fine.
S. S. Claribel, N. 18° 37′. W. 74° 05′*†	30.09	764.3	76	24.4	69	sw.	.....	.....	2	.....	3	.....	calm	0	0	sm'h	ese.	fine.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 34° 47′ W. 19° 42′	30.13	765.3	66.3	19.1	90	nne.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	.....	overcast.
British Merchant, S. 30° 19′, E. 44° 24′	30.27	768.8	65.5	18.6	68	sse.	.....	.....	6	.....	5	.....	.....	.....	.....	.....	.....	d. clouds.
Bk. Copoename, N. 47° 56′, W. 11° 28′	29.93	760.2	52.5	11.4	83	nne.	.....	.....	4	.....	9	.....	.....	.....	.....	.....	.....	drizzling.
S. S. Earnock, N 28° 15′, W. 39° 58′	30.34	770.6	71	21.7	95	ese.	.....	.....	2	.....	2	.....	.....	.....	.....	.....	.....	blue sky.
Glencairn, S. 23° 37′, W. 69° 52′	30.09	764.3	78	25.6	82	e.	.....	.....	4	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Minho, N. 15° 59′ W. 25° 24′	30.10	764.5	71.6	22.0	85	ne.	.....	.....	5	.....	9	.....	.....	.....	.....	.....	.....	overcast.
CROMWELL LINE.																		
S. S. Hudson, N. 24° 10′, W. 82° 30′†	30.02	762.5	78	25.6	.....	e.	.....	.....	3	.....	3	.....	se.	1 h'r	1 h'r	mod.	e.	fair.
CUNARD LINE.																		
S. S. Marathon, N. 46° 33′. W. 38° 37′	30.04	763.0	53	11.7	.....	n.	.....	.....	3	.....	8	.....	nw.	2 h'r	2 h'r	mod.	ene.	cloudy.
S. S. Parthia, N. 51° 13′ W. 14° 13′†	29.94	760.5	.....	.....	.....	nw.	.....	.....	2	.....	3	.....	nw.	3 h'r	3 h'r	mod.	nw.	clear.
GENERAL TRANS-ATLANTIC COMPANY																		
S. S. France, N. 41° 00′ W. 65° 11′†	29.79	756.7	46.4	8.0	.....	nw.	.....	.....	2	.....	.....	.....	wnw.	rain	rain	.....	sw.	hailing.
S. S. Ville de Marseilles, N. 39° 14′, E. 10° 35′ *†	30.00	762.0	70	21.1	.....	ene.	.....	.....	5	.....	4	.....	e.	0	0	sm'h	.....	fair.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 42° 11′. W. 58° 47′*†	29.75	755.6	.....	.....	.....	wsw.	.....	.....	3	.....	10	.....	wsw.	6 h'r	6 h'r	cross	wsw.	raining.
S. S. Gellert, N. 49° 20′. W. 20° 30′	30.07	763.8	55	12.8	.....	e.	.....	.....	1	.....	2	.....	n.	0	0	sm'h	e.	fair.
S. S. Lessing, Harve, France	29.88	758.9	74	23.3	.....	wnw.	.....	.....	3	.....	5?	.....	wnw.	0	0	.....	.....	cloudy?
S. S. Silesia, Hamburg, Germany†	29.99	761.7	55	12.8	.....	w.	.....	.....	6	.....	10	.....	w.	8 h'r	8 h'r	.....	.....	overcast.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, Buenos Ayres, Argentine*†	29.86	758.4	66	18.9	.....	sw.	.....	.....	3	.....	9	.....	wsw.	3 h'r	3 h'r	.....	.....	cloudy.
LEYLAND LINE.																		
S. S. Iberian, N. 42° 17′, W. 52° 53′	29.94	760.5	.....	.....	.....	s.	.....	.....	3	.....	8	.....	w.	0	0	sli't	sw.	cloudy.
MERCHANT STEAMSHIP COMPANY.																		
S. S. Glenapp, S. 0° 31′, W. 48° 03′*†	29.90	759.4	.....	.....	.....	se.	.....	.....	2	.....	6	.....	se.	2 h'r	2 h'r	sm'h	se.	showery.
NATIONAL LINE.																		
S. S. Canada, N. 51° 03′. W. 7° 12′†	29.90	759.4	52	11.1	.....	ne.	.....	.....	1	.....	2	.....	nw.	0	0	sm'h	w.	
S. S. Denmark, London, Eng	29.91	759.7	59	15.0	.....	s.	.....	.....	2	.....	10	.....	s.	0	0	.....	.....	hazy.
S. S. Erin, N. 44° 20′ W. 39° 42′	30.08	764.0	50	10.0	.....	wnw	.....	.....	4	.....	2	.....	nw.	6 h'r	6 h'r	chop	wnw.	clear.
S. S. Helvetia, N. 43° 28′, W. 44° 14′	.....	.....	52	11.1	.....	wsw.	.....	.....	2	.....	.....	.....	.....	0	0	.....	.....	clear.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY																		
S. S. Niagara, N. 24° 51′ W. 80° 27′†	30.10	764.5	80	26.7	78	ne.	.....	.....	4	.....	2	.....	ne.	0	0	.....	.....	clear.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, Campeche Roads, C. A*†	29.98	761.5	79	26.1	82	se.	.....	.....	5	.....	3	.....	se.	0	0	small	se.	d. clouds.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N. 47° 25′, W. 26° 11′*†	29.80	756.9	55	12.8	.....	se.	.....	.....	5	.....	.....	.....	.....	.....	.....	.....	sw.	raining.
S. S. Lepanto, N. 48° 18′ W. 25° 42′*	30.00	762.0	47	8.3	.....	sse.	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	se.	raining.
S. S. Olbers, N. 25° 29′ W. 20° 30′*†	30.28	769.1	68	20.0	.....	ne.	.....	.....	5-6	.....	.....	.....	.....	.....	.....	.....	ne.	
S. S. P. Caland, N. 47° 09′, W. 27° 03′	29.74	755.4	50.0	10.0	.....	se.	.....	.....	6	.....	.....	.....	.....	.....	.....	5	se.	misty.
NORTH GERMAN LLOYD.																		
S. S. Elbe, Cowes, Isle of Wight	29.89	759.3	55.4	13.0	77	nne.	.....	.....	2	.....	5	.....	sw.	0	0	.....	.....	hazy.
S. S. Graf Bismark, S. 23° 00′, W. 43° 05′	29.98	761.5	75.2	24.0	.....	n.	.....	.....	2	.....	4	.....	ne.	0	0	sm'h	ne.	fair.
S. S. Hapsburg, N. 40° 18′, W. 70° 02′	29.80	756.9	42.8	6.0	.....	ne.	.....	.....	3	.....	10	.....	.....	2 h'r	2 h'r	sm'h	.....	light rain.
S. S. Hermann, N. 46° 10′, W. 32° 20′†	29.74	755.4	60.8	16.0	.....	w.	.....	.....	6	.....	7	.....	w.	8 h'r	8 h'r	long	w.	misty.
S. S. Hohenzollern, N. 52° 05′. E. 3° 02′*	29.70?	754.4?	50.9	10.5	.....	w.	.....	.....	2-3	.....	8	.....	sw.	rain	rain	mod.	sw.	cloudy.
S. S. Kronprinz F. Wilhelm, N. 40° 18′ W 56° 00′	29.91	759.7	64.4	18.0	.....	sw.	.....	.....	5	.....	10	.....	sw.	0	0	4	sw.	cloudy.
S. S. Leipzig, N. 46° 36′, W. 33° 21′	29.68	753.9	61.0	16.1	88	nnw.	.....	.....	5	.....	10	.....	nw.	6 h'r	6 h'r	cross	w.	misty.
S. S. Main, N. 42° 25′, W. 46° 42′	30.17	760.3	44.6	7.0	.....	wsw.	.....	.....	4-5	.....	5	.....	sw.	0	0	sm'h	sw.	clear.
S. S. Neckar, N. 49° 58′ W. 17° 27′	30.03	762.7	52.7	11.5	.....	n.	.....	.....	3	.....	1	.....	n.	0	0	mod.	nw.	fine.
S. S. Oder, N. 46° 16′. W. 33° 59′	29.76	755.9	53.6	12.0	.....	nnw.	.....	.....	7	.....	9	.....	n.	5 h'r	5 h'r	r'gh	nnw.	overcast.
S. S. Ohio, Bremerhaven, Germany	29.88	758.9	.....	.....	.....	w.	.....	.....	4	.....	8	.....	w	4 h'r	4 h'r	.....	.....	cloudy.
S. S. Rhein, Bremerhaven, Germany	29.89	759.2	.....	.....	.....	w.	.....	.....	3	.....	2	.....	w.	0	0	.....	.....	clear.
S. S. Salier, N. 50° 02′. W. 4° 36′	29.88	758.9	50.0	10.0	.....	sw.	.....	.....	1	.....	5?	.....	ne.	2 h'r	2 h'r	sm'h	w.	clear?
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, N. 36° 06′. E. 168° 10′†	30.29	769.4	59	15.0	70	nw.	.....	.....	4	.....	5	.....	wnw.	0	0	mod.	nw.	fair.
S. S. Gaelic, N. 37° 55′. W. 135° 06′†	30.47	773.9	50	15.0	94	wsw.	.....	.....	5	.....	10	.....	w.	.....	.....	mod.	w.	overcast.
S. S. Oceanic, N. 28° 20′, E. 127° 46′*	29.84	757.9	68	20.0	84	n.	.....	.....	4	.....	0	.....	.....	.....	.....	3	n.	fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. Seminole, Frying Pan, Light Ship, N. C†	30.07	763.8	76	24.4	90	sw.	.....	.....	4	.....	2	.....	wsw.	0	0	long	.....	fine.
OREGON IMPROVEMENT COMPANY.																		
S. S. Willametta, N. 42° 16′, W. 124° 42′†	30.26	768.6	57	13.9	81	n.	.....	.....	3	.....	4	.....	n.	0	0	sm'h	.....	hazy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, N. 48° 47′, W. 123° 21′*†	30.14	765.5	47	8.3	92	se.	.....	.....	2	.....	2	.....	e.	.....	.....	.....	.....	clear.
S. S. Oregon, N. 40° 26′, W. 124° 34′†	30.23	767.8	49	9.4	93	ssw.	.....	.....	1	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal†	30.04	763.0	49	9.4	85	w.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. State of California, Portland, Oregon†	30.21	767.3	49	9.4	85	calm	.....	.....	0	.....	5	.....	sw.	.....	.....	.....	.....	fair.
S. S. Victoria, N. 49° 07°, W. 123° 12′†	30.10	764.5	47	8.3	92	se.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	.....	clear.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, S. 8° 01′, W. 164° 27′	29.89	759.2	76	24.4	91	ene.	.....	.....	6	.....	10	.....	ene.	5 h'r	5 h'r	r'gh	ne.	showery.
S. S. City of New York, Sydney, N. S. W†	30.13	765.3	66	18.9	68	sw.	.....	.....	3	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. City of Rio de Janeiro, La Libertad, San Sal*	30.15	765.8	78	25.6	86	e.	.....	.....	3	.....	10	.....	e.	2 h'r	2 h'r	sm'h	se.	fair.
S. S. City of Tokio, N. 25° 39′, E. 120° 40′†	29.97	761.2	67	19.4	89	ne.	.....	.....	6	.....	10	.....	ne.	15 h'r	15 h'r	mod.	ne.	rainy.
S. S. Clyde, N. 35° 12′, W. 121° 01′†	30.03	762.7	54	12.2	80	nw.	.....	.....	4	.....	5	.....	nw.	0	0	mod.	nw.	fair.
S. S. Colima, N. 34° 57′. W. 121° 58′†	30.06	763.5	54	12.2	80	nw.	.....	.....	5	.....	6	.....	wnw.	0	0	mod.	nw.	cloudy.
S. S. Colon, N 25° 06′, W. 74° 07′	30.10	764.5	73	22.8	.....	ese.	.....	.....	3	.....	8	.....	se.	1 h'r	1 h'r	small	ese.	fair.
S. S. Granada, N. 7° 13′, W. 80° 18′†	29.87	758.7	78	25.6	82	n.	.....	.....	5	.....	8	.....	ne.	1 h'r	1 h'r	mod.	s.	cloudy.
S. S. Zelandia, S. 33° 54′, E. 133° 43′	30.14	765.5	65	18.3	84	s.	.....	.....	2	.....	0	.....	.....	.....	.....	sm'h	w.	clear.
QUEBEC STEAMSHIP CO.																		
S. S. Bermuda, Port of Spain†	29.93	760.2	62	16.7	.....	ne.	.....	.....	4	.....	6	.....	ene.	½ h'r	½ h'r	h'vy	ene.	fine.
RED STAR LINE.																		
S. S. Rhynland, N. 45° 23′, W. 38° 15′	30.05	763.3	53?	11.7?	79	nw.	.....	.....	5	.....	3	.....	nw.	0	0	mod.	ene.	fair.
S. S. Switzerland, N. 43° 39′. W. 39° 53′†	30.20	767.1	.....	.....	.....	nw.	.....	.....	5	.....	2	.....	nw.	8 h'r	8 h'r	long	sw.	fair.
S. S. Vaderland, N. 41° 04′, W. 63° 18′	29.74	755.4	52	11.1	93	wnw.	.....	.....	3	.....	10	.....	w.	3 h'r	3 h'r	long	wsw.	overcast.
S. S. Waesland, N. 49° 04′, W. 15° 11′	29.99	761.7	54	12.2	.....	nnw.	.....	.....	4	.....	5	.....	nw.	4 h'r	4 h'r	long	nw.	fair.
ROTTERDAM LINE.																		
S. S. W A Scholten, Rotterdam, Holland	29.92	760.0	64.5	18.1	94	calm	.....	.....	0	.....	7	.....	w.	0	0	.....	.....	

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch	Mill.			
STATE LINE.																		
S. S. State of Florida, N. 45° 27′, W. 39° 36′	30.07	763.8	50	10.0		w.			4		4		nw.	8 h'r	8 h'r	mod.	w.	fair.
THINGVALLA LINE.																		
S. S. Thingvalla, Brooklyn, N. Y.†	30.04	763.0	53.6	12.0		nne.			2		10		nne.	2 h'r	2 h'r			covered.
WARREN LINE.																		
S. S. Iowa, N. 46° 20′, W. 36° 46′*†	30.12	765.0	54	12.2		nw.			5		4		nw.	6 h'r	6 h'r	mod	nw.	fair.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 47° 35′, W. 16° 08′	30.01	762.2									2		nne.	0	0	2	n.	squally.
WHITE STAR LINE.																		
S. S. Adriatic, N. 40° 12′ W. 72° 19′.†	29.80	756.9	46	7.8		n.			3		5		w.			sm'h		drizzling.
S. S. Celtic, N. 50° 42′, W. 15° 40′†	30.05	763.3	52	11.1	93	n.			3		5		n.	0	0	sm'h		fair.
WILSON LINE.																		
S. S. Otranto, N. 42° 01′, W. 56° 44′†	29.84	757.9	56	13.3		ssw.			4				sw.			cross	sw.	clear.
MISCELLANEOUS.																		
Schr. Abbie Clifford, N. 20° 02′, W. 55° 24′*†	30.15	765.8	82	27.8		ese.			4		2		ese.	¾ h'r	¾ h'r	mod.	ese.	fine
Schr. Addie Fuller, Newport News, Va†	29.88	758.9	67	19.4	68	sw.			3		9k		sw.	0	0			cloudy.
Bk. Adelaide, S. 23° 20′, W. 42° 00′*†	30.04	763.0	78	25.6		ne.			4		1		ene.	0	0	mod.	sw.	hazy.
Schr. Ajax, Brazos, Texas†	29.96	761.0				se.			1		5?		s.	0	0			cloudy.?
Bk. Alpha, Santiago de Cuba, W. I†	29.94	760.5	80	26.7		nne.			1		5?		ne.	0	0			cloudy.?
Schr. Annie Lewis, Aransas Pass, Texas†	29.85	758.2	78	25.6		s.			5		2?		s.	0	0	hv'y	sse.	cloudy.?
Bk. Anna Thormann, N. 37° 49′, W. 60° 51′	29.96	761.0	69.3	20.7	84	ssw.			7		10 n		sw.	2 h'r	2 h'r	r'gh	sw.	hazy.
Bk Antioch, S. 40° —′, E. 78° 50′*†	29.70	754.4	60	15.6		nnw.			6		10		w.	24 h'r	24 h'r	sm'h	wsw.	rainy.
Antonio Lopez, N. 19° 41′ W. 95° 45′*	29.85	758.2	78.5	25.8	95	ese.			3		3 s			0	0	sm'h		hazy.
Bk. Aureola, S. 23° 07′ W. 40° 28′*†	30.15	765.8	88	31.1		ene.			2		3		e.	mod.	mod.	mod.	ssw.	clear.
Sch'r Annie M. Smull, S. 28° 54′ E. 104° —′*†	30.10	764.5	70	21.1		sw.							s.	0	0		s.	
Bk. Celestina, Montevideo, Uraguay*†	29.63	752.6				ssw			2		9		sw.	3½ h'r	3½ h r			cloudy.
S. S. Compton, New Orleans, La†.	29.93	760.2				ssw.			1		5		sse.	0	0			clearing.
Schr. Edith R. Seward, N. 21° 54′ W., 74° 29′*†	30.21	767.3	81	27.2		ese.			4		6		e.	0	0	r'gh	e.	fair.
Bk. E. J. Spicer, N. 47° 13′, W. 14° 20′†	30.07	763.8				ne.			5		4		ne.	rain	rain	mod.	nnw.	
S. Enoch Train, Off Sable Island, N. S.*	29.61	752.1				wsw.			1		fg			rain	rain	short	wsw.	dense fog.
S. Exporter, S. 28° 50′, W. 31° 20′*†	30.10	764.5				nnw.			3		6		nw.	0	0	long	e.	fine.
S. Festina Lente, N. 38° 40′, W. 74° 21′*	29.82	757.4	53	11.7		w.			1		7		nnw.	0	0	sm'h		fair.
Bk. Freya, N. 51° 34′, W. 6° 44′			56	13.3		wsw.			2		0			0	0	sm'h		fine.
S. Grecian, S. 37° 30′, E. 83° 13′*†	29.98	761.5	63	17.2		w.			5		9		n.	8 h'r	8 h'r	mod.	w.	hazy.
Bk. Hattie G. McFarland, Boston, Mass*†	29.96	761.0	54	12.2		n.			1		3		n.	0	0			fair.
S. Hedwig, N. 40° 28′, W. 72° 52′	29.86	758.5	46.9	8.2	98	ne.			5		10		ne.	2 h'r	2 h'r	2	se.	drizzling.
Bk. Johanne, N 37° 58′, W. 55° 50′*†	30.08	764.0	66	18.9		sw.			3		2		s.	0	0	mod.	sw.	fine.
Schr. John L. Thomas, Albuquerque Cays, C. A*†	30.02	762.5				ene.			1		2		ene.	0	0			fine.
Bkt. Josephine, N. 18° 42′, W. 74° 33′*†	30.08	764.0	85	29.4	68	n.			1		0			0	0	sm'h		clear.
Bk. Kate Cann, N. 43° 40′, W. 30° 13′*†	30.17	766.3				nne.			3		5		nne.	1 h'r	1 h'r	high	wnw.	clearing.
Bkt. Kryolith, N. 51° 17′, W. 22° 57′*†	30.03	762.7				ne.			1		2			0	0	mod.	nw.	clear.
S. S. Lamperts, N. 35° 48′, E. 15° 02′*	29.95	760.7	66.3	19.1	78	ese.			3		2k							blue sky.
Light House Tender, Laurel, Appalachicola Bay, Fla†	30.04	763.0	76	24.4		sw.			1		3		sw.	0	0			clear.
S. S. Malabar, N. 10° 38′, E. 58° 38′*†	29.87	758.7				calm			0		0					hv'y	s.	clear.
Bg. Medina, Key Francis, W. I.†	30.13	765.3				se.			1		8		se.					fine.
S. S. Nebo, S. 0° 17′. W. 40° 03′*†	29.85	758.2				ene.			1		2		ene.	0	0	sm'h		clear.
S. Paramita, N. 5° 18′ W. 29° 07′†	29.82	757.4	83	28.3		e.			5		3		e.	0	0	cross	n; s	clear.
Bk. Peppina, Bordeaux, France†	29.90	759.4	64	17.8	67	se.			2		5?		se.					cloudy?
Bg. Potomac, N. 25° 21′, W. 64° 50′*†	30.15	765.8				se.			1				sse.			light	se.	fine.
Bk. Rosebud, N. 48° 06′ W. 7° 43′*†	29.98	761.5	61	16.1	61	n.			2		0			0	0	long	sw.	fine.
S. Salisbury, S. 36° 06′, W. 24° 02′*	29.94	760.5	65.1	18.4	94	n.			3-4		9		nnw.	6 h'r	6 h'r	mod.	ssw.	cloudy.
Bk. Stella, S. 24° 01′, W. 88° 53′*	30.07	763.8	69.8	21.0	91	ese.			4		5 k		se.	0	0	sm'h	se.	d clouds.
Bk. Truro, N. 40° 50′, W. 61° 40′*†	29.78	756.4				ssw.			4		10		sw.	5 h'r	5 h'r	mod.	sw.	rainy.
U. S. F. C. S. Fish Hawk, Quantico, Va†	29.97	761.2	61	16.1	100	w.			1		10		calm	0.01	0.3			raining.
Yacht Vega, N. 32° 07, W. 64° 16′*†	30.34	770.6	65	18.3					1					0	0	light	se.	clear.
S. S. Victoria J Peed, Salamanca Id. U. S. C*†	29.11	739.4				s.			1		10							rainy.
S. Washington, N. 49° 00′, W. 11° 10′*†	29.84	757.9				ne.			2					6 h'r	6 h'r	sm'h		clear.
Bg. Wauburn, N. 26° 29′, W. 65° 04′*†	30.10	764.5				se.			5		3		se.	sq'ls	sq'ls	chop	nne.	
S. Wm. Woodbury, N. 37° 48′, W. 67° 31′*†	29.70	754.4	72	22.2	90	wsw.			9				wsw.			light	sw.	squally.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 6, 1882,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.00	762.0	72.0	22.2	85	sw.			2		1			0	0	very fair	Moiroud
Algiers			29.97	761.3	61.5	16.4	61	nw.			1		3			inap.	inap.	pretty fair	Nicolas.
La Calle			29.99	761.8	62.2	16.8	85	e.			6		5			0.110	2.8	cloudy	Fonfrède.
Tunis			29.93	760.2															Jacques.
Saida			30.04	763.0															Dumas.
Tebessa			30.11	764.9	48.6	9.2	98	se.			3		1			0	0	cloudy	Derché.
Geriville					45.0	7.2	31	nnw.			4		5			0.228	5.8	cloudy	Lonchamp.
Laghouat			30.01	762.3	67.3	19.6	100	w.			2		2			0.295	7.5	fair	Abraham.
Biskra			30.17	766.3	81.7	27.6	32	nnw.			2		6			0.165	4.2	cloudy	Malau.
Australian.																			
Melbourne, Victoria	29.55	750.6	29.64	752.8	62.0	16.7	62	nnw.	22	9.8			8			0	0	squally	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.42	747.2	29.94	760.5	76.3	24.6	39	w.			3		0			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.19	741.5	29.95	760.6	63.0	17.2	73	nw.	3.8	1.7			9			0.496	12.6		Dr. Wierzbiski.
Eperies	29.04	737.7	29.89	759.3	67.6	19.8	61	se.			3		10 ks		n.	0	0		Julius Mikolik.
Gratz	28.74	729.9	29.95	760.6	70.2	21.2	45	w.			2		0			0	0		Andreas Rospini.
Hermannstadt	28.55	725.2	29.91	759.7	77.2	25.1	35	n.			2		2			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.64	727.5	29.95	760.7	64.8	18.2	58	ene.			2	0	1 k			0	0	clear	The Staff.
Lemberg	28.94	735.0	29.89	759.1	72.5	22.5	42	sw.			4		4			0	0		Dr. T. Stanecki.
Pola	29.92	759.9	30.03	762.7	72.1	22.3	56	sse.			1		2			0	0		I. R.Hydrographic Office.
Szathmar	29.49	749.0	29.94	760.5	73.0	22.8	41	sw.			5		3			0	0		Joseph Midlinszky, S. J.
Szegedin	29.71	754.6	29.98	761.5	70.3	21.3	58	calm			0		4			0	0		Karl Stancel.
Trieste	29.96	760.9	30.06	763.5	69.4	20.8	63	sw.			1		2			0	0		Rieder.
Vienna	29.30	744.3	30.00	762.1	64.4	18.0	60	n.			2		2			0.035	0.9		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.75	755.6	29.85	758.2	43.3	6.3	82	se.	16	7.2			10			0.050	1.3	raining	W. Boswell.
Armagh, Observatory	29.63	752.6	29.88	758.9	54.2	12.3	60	ssw.	10	4.5			6					d. clouds	S. Call.
Bidston, Liverpool Obs'y			29.90	759.4	53.8	12.1	73	wnw.	14	6.3			2					blue sky	John Hartnup.
Bolton, Sharples	29.34	745.2	29.87	758.7	53.4	11.9	63	wnw.	12	5.4			4					d. clouds	Thomas Mackereth, A.S.
Bradford, Yorkshire	29.45	748.0	29.84	757.9	54.7	12.6	60	sw.			1		5			0	0	d. clouds	J.McLandsborough, F.R
Bridgetown, Barbadoes	29.98	761.5	30.01	762.2	84.6	28.9	67	ne.			3		3					d. clouds	Corpl.J.Surgenor, A.H.C.
Cardington			29.87	758.7	60.0	15.6	68	nw.			0.2		6					d. clouds	John McLaren.
Chatham, School M. E.	29.78	756.4	29.91	759.7	58.2	14.6	69	sw.			1		7			blank	blank	d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.74	755.4	29.97	761.2	55.4	13.0	55	nnw.			1		9					misty	The Staff.
Fort Napier, Natal	27.89	708.4	30.11	764 8	70.0	21.1	43	e.			1		2					blue sky	Pvt. E. K Annis, A.H.C.
Free Town, Sierra Leone	29.58	751.3	29.81	757.2	87.0	30.6	62	nw.			1		3					blue sky	Sergt. John Robinson.
Gibraltar, Mediterranean	30.00	762.0	30.06	763.5	67.5	19.7	77	sw.			5		0					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.63	752.6	29.84	757.9	49.9	9.9	66	w.			4		5 k					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.73	755.1	29.90	759.4	59.8	15.4	59	w.			1		6					d. clouds	The Staff.
Guernsey	29.65	753.1	29.94	760.5	55.0	12.8	83	w.			1		6					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.88	758.9	29.92	760.0	57.7	14.3	57	wnw.	8	3.6			5					d. clouds	The Staff.
Leicester, Museum	29.61	752.1	29.86	758.4	59.8	15.4	41	w.			1		5					d clouds	J. C. Smith.
Malta, Mediterranean	29.82	757.4	29.90	759.4	72.0	22.2	63	se.			3		8					overcast	I. H. Whysall.
Nassau, Bahamas	30.04	763.0	30.09	764.3	78.0	25.6	90	se.			1		10					overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.36	745.7	29.88	758.9	56.5	13.6	68	calm			0		7					d. clouds	John Mac Email.
Oxford, Radcliffe Obs'y	29.67	753.6	29.90	759.4	58.8	14.9	53	w.			2		4					blue sky	The Staff.
Plymouth	29.85	758.2	29.93	760.2	59.0	15.0	61	calm			0		5					d. clouds	John Merrifield.
Sandwick Manse, Orkneys			29.94	760.5	50.9	10.5	65	e.	25	11.2			9					d. clouds	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.92	760.0	29.99	761.7	77.8	25.4	81	ne.			2		7					d. clouds	W. H. Lyne.
Sheffield	29.67	753 6	29.94	760.5	60.8	16.0	59	nw.			1		1			0	0	blue sky	W. F. Cooper.
Silloth Rectory	29.82	757.4	29.86	758.4	53.0	11.7	71	w.			4		3			0.015	0.4	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.90	759.4	52.4	11.3	59	w.	19	8.5			7					d. clouds	J. New.
Stratfield Turgiss	29.70	754.4	29.91	759.7	61.2	16.2	55	sw.			1		4					d. clouds	Rev.C.H.Griffiths,F.M.S.
Truro, Royal Institution	29.94	760.5	29.97	761.2	61	16.1	66	nw.			4		5					d. clouds	W. Newcombe.
Valencia, Observatory	29.93	760.2	29.95	760.7	54.1	12.3	63	wsw.	20	8.9			7					d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.82	757.4	29.86	758.4	39	3.9	56	w.	6	2.7		0	0			0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	29.83	757.7	29.90	759.4	40	4.4	57	w.	9	4.0		0	0			0	0	clear	G. A. Blair.
Father Point, Quebec*	29.96	761.0	29.99	761.7	38	3.3	72	nw.	15	6.7		1 k	0	w.		0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.25	742.9	30.09	764.3	44	6.7	53	s.	12	5.4		5 ck	5 ks	w.	w.	0	0	cloudy	James Stewart.
Halifax, N.S*	29.80	756.9	29.93	760.2	42	5.6	54	nw.	11	4.9		0	0			0	0	clear	A. Allison.
Kingston, Ontario*	29.87	758.7	30.22	767.6	37	2.8	51	ne.	10	4.5		5 c	2 s	w.		0	0	fair	A. P. Knight, M. A.
Montreal, Quebec*	29.99	761.7	30.20	767.1	39	3.9	50	n.	4	1.8		0	0			0	0	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.54	750.3	30.26	768.6	35	1.7	64	ne.	7	3.1		2 cs	0	sw.		0	0	fair	Rev. R. Mosley.
Port Dover, Ontario	29.41	747.0	30.12	765.0	36	2.2	80	ne.	12	5.4			10 ks		nw.	0	0	cloudy	H. Morgan.
Port Stanley, Ontario	29.41	747.0	30.08	764.0	37	2.8	82	e.	12	5.4			10 n		sw.	0	0	cloudy	M. Payne.
Quebec, Quebec*	29.79	756.7	30.13	765.3	36	2.2	69	n.			1	2 k	2 s	n.	n.	0	0	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.77	756.1	30.25	768.3	34	1.1	52	n.	5	2.2		0	0			0	0	clear	W. H. McIntyre.
Saugeen, Ontario*	29.46	748.3	30.20	767.1	37	2.8	53	e.	20	8.9		0	0			0	0	clear	
St. Andrews, N .B	29.96	761.0	30.02	762.5	39	3.9	50	n.	6	2.7		0	0			0	0	clear	
Sydney, C. B*	29.73	755.1	29.79	756.7	39	3.9	62	w.	14	6.3		0	0			0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	29 82	757.4	30.22	767.6	36	2.2	56	ne.	15	6.7			10 ks		w.	0	0	cloudy	Magnetic Observatory.
Yarmouth, N.S*	29.93	760.2	30.00	762.0	39	3.9	70	n.	4	1.8		5 cs	0	w.		0	0	fair	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.75	755.6	30.01	762.2	38	3.3	81	w.	4	1.8		0	0			0	0		John Delany.
Cape Colony.																			
Cape St.Francis Lt.House	30.11	764.8	30.14	765.5	66.0	18.9	94	e.	13.0	5.8		1 c	0			0	0	clear	John Duthie.
Cape Town, C. G. H. Obs'y	29.88	758.9	29.92	760.0	71.9	22.2	53	s.	13	5.8		8	10			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVER.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
CHINESE (*Sub-series*).																			
Hankow	29.77	756.1	30.05	763.3	60.4	15.8	97	ne.			2		10			0.28	7.1	rainy	N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.97	761.3	30.00	761.9	58.5	14.7	69	ese.	7.4	3.3			10			0	0	covered	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.92	760.0	29.97	761.2	56.8	13.8	59	sw.	12.3	5.5			6						Oversergent Fischer.
Fanöe	29.86	758.5	29.88	759.0	55.8	13.2	76	sse.			4		9						Overloerer Lauridsen.
Godthaab, Greenland	29.91	759.7	29.95	760.8	36.7	2.6	69	calm			0		0			0	0		S. Kleinschmidt.
Stykkisholm, Iceland	30.22	767.7	30.27	768.8	30.4	— 0.9	86	ne.			8		10						A. O. Thorlacius.
Thorshavn	30.06	763.4	30.09	764.3	40.5	4.7	70	ne.	20	9			6						Overloerer Bergh.
Vestervig	29.80	757.0	29.89	759.3	48.9	9.4	76	wsw.			2		9						Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.43	747.6	30.08	764.1	60.4	15.8	81	calm			0	c	ku			0	0		M. Labroue, Director.
Alençon, Normal School	29.46	748.2	30.01	762.2	57.9	14.4	74	s.			1	0	ku		s.	0.031	0.8		M. Nicot, Director.
Arras, Engineer School	29.68	753.9	29.93	760.3	57.7	14.3	80	nw.			1		ku		w.	0	0		M. Fénéon, Command't.
Avignon, Normal School	29.95	760.8	30.03	762.8	70.5	21.4	62	nw.			1		2		s.	0	0	slightly cl'dy	M. Giraud, Director.
Bar-sur-Seine	29.41	747.1	29.95	760.8	64.4	18.0	13	e.			1		8			0.122	3.1	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.74	755.4	30.00	762.0	63.5	17.5	63	ssw.			1		8		wsw.	0	0	very cloudy	M. Frère Eugène Marl.
Besançon, Normal School	29.04	737.6	29.92	759.9	68.4	20.2	54	s.			1	0	2 cn		s.	0	0	slightly cld'y	M. Gobin, Director.
Bordeaux, Observatory	29.77	756.2	30.03	762.8	59.0	15.0	71	wnw.			1		10			0.063	1.6	covered	M. Rayet, Director.
Bourges, Normal School	29.45	748.1	29.99	761.8	65.8	18.8	50	wsw.			1	ck	0	wsw.		0	0		M. Postel, Director.
Brest, Naval Observatory	29.74	755.3	29.98	761.5	61.5	16.4	67	n.			1		7		n.	0	0		M. de Kermaree, Dir.
Caen, Normal School	29.89	759.3	29.93	760.1	62.6	17	63	ssw.			1		5		w.	0.059	1.5	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.59	751.5	29.90	759.4	69.6	20.9	43	s.			2		2			0.004	0.1	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.42	747.3	29.92	759.9	66.6	19.2	38	w.			1		8		e.	0	0	¾ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.65	727.6	30.00	761.9	55.8	13.2	75	w.			1		10					raining	M. Allnard, Director.
Cluny, Normal School	29.13	739.9	29.96	761.0	68.9	20.5	52	se.			2		6			0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.11	739.5	29.97	761.2	67.1	19.5	51	w.			1		5ckn	w.	w.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.47	697.7	29.95	760.6	64.4	18	53	nw.			2	0	2 k			0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.91	734.4	30.02	762.4	66.0	18.9	50	sw.			1		6		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.19	741.4	29.93	760.3	68.4	20.2	46	nw.			2		k		sw.	0	0		M. Ablard, Director.
Guéret, Normal School	28.44	722.3	30.00	761.9	59.0	15	66	wsw.			1		n		sw.	0.008	0.2		M. Rivoire, Director.
Lamballe, Normal School	29.68	753.9	29.95	760.8	60.1	15.6	63	nw.			1		8		nw.	0.16	4.	very cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.50	749.2	30.06	763.5	59.0	15	75	nw.			1		10			0.12	3.	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.89	759.2	29.99	761.8	63.1	17.3	59	wsw.			2		5		n.	0.079	2.0	½ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.93	734.9	29.96	761.0	69.4	20.8	46	sse.			1	0	5 k		sw.	0	0	½ covered	M. André, Director.
Mans, Normal School	29.70	754.3	30.00	762.1	58.8	14.9	55	wsw.			1		5		sw.	0.08	2.	cloudy	M. Piboen, Director.
Marseille, Observatory	29.76	755.9	30.03	762.8	65.1	18.4	55	sw.			1		9		s.	0	0		M. Stephan, Director.
Montlouis l'instituten	24.80	629.9	29.64	752.9	44.6	7.0	87	se.	9.4	4.2			8			0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.89	759.1	30.01	762.2	66.2	19	68	s.			2		5		s.	0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	29.14	740.2	29.91	759.6	65.1	18.4	53	wsw.			1		ku		sw.	0	0		M. Hasse, Director
Nantes. Observatory	29.86	758.4	30.02	762.6	61.2	16.2	63	ssw.			1-2		10 kn		sw.	0.118	3.0		M. Larocque, Director.
Perpignan, Observatory	29.91	759.7	30.02	762.4	63.7	17.6	69	se.	5.6	2.5			10		ene.	0			Dr. Fines, Director.
Pic-du-Midi, Summit.	21.15	537.2			33.8	1.0		sw.			1		10		sw.	0.051	1.3	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	29.00	736.5	30.04	763.1	64.4	18	61						0			0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.15	638.8			42.4	5.8	93	w.			1		10					light rain	M. Allnard, Director.
Rochefort, Naval Obs'y	30.01	762.2	30.04	763.0	63.3	17.4	100	wsw.			2		5		ssw.	0.008	0.2	½ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.78	756.4	29.99	761.8	60.6	15.9	71	wnw.			1		0			0.87	22.	clear	M. Mouillot, Director.
Rodez, Normal School	27.89	708.4	29.99	761.7	51.8	11	86	sw.			1		2			0	0	slightly cl'dy	M. Serger, Director.
Rouen, Normal School	29.91	759.7	29.96	760.9	59.4	15.2	70	sw.			1		10		sw.	0.08	2.	covered	M. Brotier.
Saint Maur, Observatory	29.80	757.0	29.97	761.2	63.7	17.6	65	wsw.			1		8		sw.	0	c		M. Renou, Director.
Toulouse, Observatory	29.33	745.0	30.07	763.8	61.5	16.4	68	nw.			1		5	nw.		0.087	2.2	cloudy	M. Baillaud, Director.
Tours	29.82	757.4	29.99	761.8				sw.			2		2	sw.	sw.	0.433	11.0	clear	
Versailles, Observatory	29.52	749.8	30.01	762.3	61.2	16.2	66	w.			1					0.008	0.2		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.69	754.0	29.98	761.4	59.7	15.4	76	wsw.			1		9		sw.	inap.	inap.	sprinkling	M. Marié Davy, Director
GERMAN.																			
Bamberg	29.13	740.0	29.98	761.6	65.7	18.7	44	nw.			2	0	3 k		nw.	0	0		Prof. Dr. Hoh.
Berlin	29.81	757.3	29.99	761.7	64.4	18.0	55	se.			1		8			0.047	1.2		Prof. Dr. Arndt.
Breslau	29.51	749.5	30.04	763.0	58.8	14.9	67	nne.			2		4	sw.		1.311	33.3		Royal University Obs'y.
Carlsruhe	29.52	749.9	29.95	760.8	67.6	19.8	52	sw.			1		1	sw.		0	0		Albert Senz.
Cassel	29.20	741.7	29.91	759.8	67.3	19.6	45	s.			1		5	sw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.58	751.4	29.94	760.4	67.8	19.9	47	ssw.			1		3			0	0		Physical Society.
Friedrichshafen	28.56	725.3	29.97	761.2	60.8	16.0	87	ssw.			4		5	w.		0	0		Wilhelm, Chief Tel.
Hamburg	29.87	758.7	29.97	761.1	60.4	15.8	72	ese.			3		10			0	0		E. Preller.
Kiel	29.91	759.7	29.93	760.1	58.1	14.5	72	se.			1		8			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.58	751.3	29.99	761.7	66.0	18.9	49	e.			2		2	e.		0	0		H. Leppig, Asst.
Magdeburg	29.79	756.7	29.98	761.4	66.9	19.4	48	se.			1		2 c	0	sw.	0	0		Dr. Assmann.
Memel	29.96	761.0	30.01	762.2	50.9	10.5	79	w.			5		4 cs	0					Isserinann.
Munich	28.17	715.5	30.03	762.8	65.3	18.5	52	calm			0		5	sw.		0.559	14.2		Central Station.
Neufahrwasser	30.02	762.4	30.03	762.8	55.9	13.3	64	ene.			1		5	sse.		0.295	7.5		A. Lothes.
Neustadt, Palatinate	29.45	748.1	29.98	761.5	67.6	19.8	59	calm			0					0.012	0.3		Dicknether.
Stuttgart	28.99	736.4	29.86	758.4	68.9	20.5	48	n.					2	sw.		0.024	0.6		Prof. Dr. Schoder.
Wustrow	29.97	761.1	29.99	761.7	61.2	16.2	64	ese.			2	0	5 s			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.63	752.6			77.2	25.1		sw.			2.0		0			0	0	clear	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.64	752.8	29.69	754.0	85.8	29.9	74	wsw.	30.0	13.4			2			0	0	misty	
Deesa	29.14	740.1	29.59	751.6	100.8	38.2	28	ssw.	21.9	9.8			4		ssw.	0	0	d. clouds	
Bombay	29.79	756.8	29.83	757.7	86.5	30.3	67	w.	12.0	5.4			3		w.	0	0	d. clouds	
Poona, Yarrowda	27.93	709.5	29.75	755.5	89.8	32.1	17	wnw.	29.0	13.0			1			0	0	d. clouds	
Bellary	28.28	718.2	29.69	754.1	98.0	36.7	12	nw.	9.1	4.1			1			0	0	blue sky	
Belgaum	27.28	692.9	29.78	756.5	82.1	27.8	51	wsw.	10.0	4.5			2	ne.		0	0	misty	
Lahore	28.85	732.7	29.56	750.8	97.2	36.2	14	n.	2.5	1.1			0			0	0	blue sky	
Roorkee	28.07	728.3	29.54	750.3	93.8	34.3	24	sw.	3.6	1.6			0			0	0		
Agra	29.00	736.6	29.56	750.8	84.2	29.0	34	e.	6.3	2.8			8		e.	0.07	1.8		
Nagpur	28.58	726.0	29.58	751.3	101.2	38.4	19	sw.	8.5	3.8			0			0	0	blue sky	
Jubbulpore	28.32	719.4	29.62	752.4	100.1	37.8	15	nw.	4.5	2.0			1			0	0	blue sky	
Lucknow	29.19	741.4	29.56	750.7	91.1	32.8	22	nnw.	2.9	1.3			10			0	0	overcast	
Allahabad	29.26	743.1	29.56	750.8	94.7	34.8	25	ne.	4.5	2.0			8	w.		0	0	d. clouds	
Patna	29.44	747.6	29.62	752.2	89.4	31.9	38	ene.	9.2	4.1			4	ene.	ene	0	0	d. clouds	
Hazaribagh	27.65	702.2	29.61	752.1	87.0	30.6	29	e.	15.2	6.8			5	e.	w.	0	0		
Cuttack	29.55	750.5	29.63	752.5	89.1	31.7	48	ssw.	5.0	2.2			5			0	0		
Calcutta, Alipore	29.79	756.8	29.82	757.3	72.5	22.5	68	w.	12.0	5.4			10			0.83	21.1	drizzling	
Dhubri	29.62	752.4	29.74	755.4	75.9	24.4	69	ene.	10.2	4.6			6		w.	0	0	d. clouds	
Chittagong	29.69	754.1	29.78	756.3	81.5	27.5	78	sw.	5.3	2.4			3			0	0	blue sky	
Sibsagar	29.52	749.7	29.86	758.4	73.1	22.8	75	ne.	3.5	1.6			6	sw.	sw.	0.04	1.0	d. clouds	
Jeypore	28.12	714.1	29.50	749.3	96.9	36.1	16	w.	4.6	2.1			9		w.	0	0	d. clouds	
Zanzibar, Africa	29.88	758.9			85.7	29.8	68	se.	5.7	2.5			4		sse.	0.76	19.3	d. clouds	
ITALIAN.																			
Udine	29.65	753.0	30.05	763.2	69.3	20.7	73	sw.	0.7	0.3			3			0.205	5.2		Prof. Giovanni Cloding.
Milan	29.53	750.0	30.04	763.0	69.6	20.9	53	ene.	1.8	0.8			7	sse.		0	0		Prof. Schiaparelli.
Padua	29.93	760.2	30.04	763.0	68.2	20.1	52	ese.	9.4	4.2			3	ssw.		0.020	0.5		Prof. Dott. Lorenzoni.
Moncalieri	29.11	739.5	30.01	762.3	64.9	18.3	61	e.	3.1	1.4			8	nw.		0.039	1.0		Prof. P. F. Denza.
Genoa	29.85	758.3	30.05	763.2	63.9	17.7	64	sw.	3.8	1.7			6	sw.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.11	714.1	30.04	763.0	62.1	16.7	54	n.			4		3	ssw.		0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Velocity. Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	29.98	761.4	30.02	762.6	64.4	18.0	65	se.	8.1	3.6			4			0	0		Prof. Luigi Guidi.
Florence	29.75	755.6	30.00	761.9	69.4	20.8	52	sw.			2		2	sw.		0	0		Prof. Costantino Pitter.
Leghorn	29.89	759.2	29.98	761.4	64.2	17.9	66	nw.	3.1	1.4			6			0	0		Prof. P. Monte.
Rome	29.80	756.9	29.97	761.2	74.5	23.6	43	w.	10.5	4.7			9			0	0		Prof. P. S. Ferrari.
Lecce	29.76	755.8	30.00	762.0	78.8	26.0	25	sse.	12.5	5.6			1			0	0		Prof. C. de Giorgi.
Cosenza	29.10	739.2	29.97	761.3	75.2	24.0	78	ese.	3.1	1.4			5	se.		0	0		Prof. D. Conti.
Cagliari	29.72	754.9	29.91	759.8	60.4	15.8	69	nw.			2		10			0.039	1.0		Prof. A. Pacinotti.
Palermo	29.70	754.3	29.95	760.6	72.9	22.7	48	ne.	3.1	1.4			9			0	0		Prof. G. Ciacciatore.
Syracuse	29.93	760.2	29.97	761.3	64.9	18.3	88	e.	6.3	2.8			10	sw.		0	0		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.39	746.6	29.90	759.4	77.7	25.4	37	sw.	1.3	0.6			2			0	0		Prof. T. Brioschi.
Stelvio	22.22	564.5			38.8	3.8	87	ne.			1		4			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.22	564.4			38.7	3.7	87	e.			2		10			0	0	covered	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.38	746.2	29.41	747.0	42.0	5.6	84	sw.	9.1	4.1			10 n			0.450	11.4	raining	K. Ogawa.
Hakodate	29.36	745.7	29.37	746.0	42.0	5.6	85	w.	12.0	5.4			10			0	0	overcast	
Hiroshima, I. M. Obs'y	29.86	758.4	29.88	758.9	55.7	13.2	69	nne.	7.9	3.5		0	0			0	0	clear	J. Sogawa.
Kanazawa	29.77	756.1	29.87	758.7	51.7	10.9	72	wnw.	11.5	5.1		ck	10ks;u			0.045	1.1	overcast	S. Eudo.
Kioto	29.67	753.6	29.85	758.2	54.5	12.5	62	nw.	5.9	2.6		0	0			0	0	clear	M. Tojima.
Kochi	29.83	757.7	29.85	758.2	58.5	14.7	73	nw.	4.9	2.2		0	0			0	0	clear	K. Kusunose.
Nagasaki, I. M. Obs'y	29.72	754.9	29.93	760.2	56.6	13.7	86	nw.	0.9	0.4		0	0			0	0	clear	S. Takehayashi.
Niigata	29.70	754.4	29.74	755.4	47.7	8.7	68	w.	24.5	10.9		10 ck	0	w.		0.190	4.8	overcast	M. Morita.
Nobiru	29.55	750.6	29.57	751.1	44.9	7.2	86	nw.	6.4	2.9		3 c	0			0.010	0.2	fair	H. Midzushina.
Supporo					41.0	5.0	93	s.	6.6	2.9			8			2.780	70.6	overcast	
Tokei Obs'y, Yeddo	29.55	750.6	29.62	752.3	53.1	11.7	68	n.	2.0	0.9			1 s			0	0	fair	The Staff.
Wakayama	29.78	756.4	29.84	757.9	58.3	14.6	71	ene.	1.5	0.7		0	0			0	0	clear	Y. Kuwamues.
MAURITIUS.																			
Mauritius Observatory	29.80	756.9	29.99	761.7	76.6	24.8	73	ese.	4.5	2.0		1 cs	2 k;ks			0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.60	599.5	29.90	759.5	61.5	16.4	64	calm	0	0		0	2 k		w.	0	0	clear	Prof. Vicente Fernandez.
Leon	24.35	618.5	30.02	762.5	59.0	15.0	68	n.			1	3 c	0	s.		0	0	dense fog	Prof. M. Leal.
Mazatlan	29.58	751.4	29.84	758.0	69.0	20.6	95	e.	1.6	0.8		0	1 s		n.	0	0	foggy	F. Quijano, C. E.
Mexico, Central Obs'y	23.02	584.7	30.02	762.5	53.8	12.1	78	calm	0	0		1 cs	0			0	0	foggy	The Staff.
Morelia	24.00	609.6	30.00	761.9	64.0	17.8	75	ese.			3	3	3	s.	s.	0	0	½ clouded	M. Tena, M. D.
Pabellon, Aguascalientes	23.84	605.5	29.73	755.0	62.8	17.1	55	calm			0	5 c	0	wsw.		0	0	foggy	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.35	593.1	30.06	763.5	53.6	12.0	84	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
San Luis Potosi	24.05	610.8	29.88	759.0	66.6	19.2	50	e.			1	0	0			0	0	foggy	G. Barroeta, M. D.
Zacatecas	22.43	569.6	29.89	759.1	57.2	14.0	59	wsw.	9.8	4.3		3 c	0	w.		0	0	½ clouded	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.93	760.2	29.93	760.2	58.8	14.9		wsw.			4					0	0		
Groningen	29.83	757.6	29.88	759.0	62.1	16.7		sw.			4					0	0		
Helder	29.87	758.8	29.87	758.8	56.1	13.4		ssw.			2					0	0		
Hellevoetsluis	29.90	759.5	29.90	759.5	58.3	14.6	80	wsw.			3					0	0		
Utrecht	29.86	758.4	29.91	759.6	66.4	19.1	60	sw.			2		8			0.012	0.3	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.79	756.6	29.85	758.2	40.5	4.7	59	sw.	12	6			7			0.173	4.4		
Brono	29.75	755.6	29.79	756.6	37.4	3.0	66	n.	27	12			10			0	0		
Christiania	29.59	751.6	29.74	755.3	57.2	14.0	62	e.	4	2			5			0.035	0.9		
Gjesvær	29.69	754.2	29.72	754.8	37.8	3.2		s.			2		10						
Lodingen	29.63	752.7	29.68	753.9	36.1	2.3	58	ne.			4		9			0	0		
PORTUGUESE.																			
Angra, Azores					60.8	16.0	61	nnw.	16.8	7.5			2			0	0		Dr. J. A. Sampaio.
Campo Major	29.08	738.5	30.07	763.8	62.4	16.9	41	wsw.	3.1	1.4			4			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.15	765.7	30.23	767.9	65.5	18.6	56	sw.					2			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.76	755.8	30.12	765.0	58.8	14.9	55	wnw.	8.7	3.9			10			0	0		The Staff.
Ponta Delgada, Azores	30.19	766.9	30.26	768.7	62.6	17.0	61	n.	18.6	8.3			4			0.079	2.0		
Saint Paul de Loando	29.71	754.5	29.91	759.6	79.2	26.2	90	wsw.	1.3	0.6			5	s.		0	0		
Serra da Estrella	25.22	640.7	30.00	762.1	42.6	5.9	84	nw.	9.4	4.2			8			0.004	0.1	foggy	
RUSSIAN.																			
Akmolinski	28.64	727.4	29.66	753.4	72.7	22.6	27	s.	22	10		6 cs	0			0	0		Major K. Lasarew.
Archangel	29.64	752.9	29.66	753.4	48.7	9.3	83	ese.	4	2			10			0.591	15.0		Capt. Sseliwerstow.
Astrakhan	29.89	759.3	29.81	757.2	65.7	18.7	42	n.	9	4			10 ks			0	0		Capt. Wisganow.
Barnaul	29.59	751.6	30.08	764.1	58.8	14.9	35	calm	0	0			0			0	0		Meteorological Obs'y.
Dorpat	29.55	750.5	29.78	756.5	57.7	14.3	74	wsw.	13	6			10 k			0.004	0.1		Observatory.
Ekaterinburg	28.88	733.5	29.84	757.8	50.7	10.4	60	nnw.	13	6			9 kn			0	0		Meteorological Obs'y.
Kasan	29.71	754.6	29.97	761.3	63.1	17.3	37	calm	0	0			7			0	0		Observatory.
Kertch	29.99	761.7	30.01	762.2	64.6	18.1	61	n.	4	2		1 c	0			0	0		Lagorio & Sastyrez.
Kieff	29.32	744.6	29.92	759.9	76.8	24.9	28	ese.	9	4		1 c	0			0	0	light clouds	Observatory.
Lugan	29.78	756.5	29.98	761.6	67.1	19.5	43	ene.	13	6			5			0	0		Meteorological Obs'y
Moscow	29.46	748.2	29.91	759.7	71.2	21.8	25	sw.	4	2			0						Meteorological Obs'y.
Nikolaiev	29.97	761.2	30.04	763.0	80.6	27.0	34	sw.	4	2			0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.88	759.0	29.97	761.2	33.8	1.0	83	e.	9	4			10			0	0		Lieut. Iwanow.
Pekin, China	29.78	756.4	29.92	760.0	70.2	21.2	42	sw.	7	3		0	4 k			0	0		Physical Observatory
St. Petersburg	29.59	751.6	29.61	752.0	59.4	15.2	83	wsw.	13	6			10 n			0.114	2.9		Central Physical Obs'y.
Semipalatinsk	29.36	745.8	30.00	762.1	65.5	18.6	26	e.	11	5		0	0			0	0		Major Lasareu.
Tashkend, Laboratory	28.28	718.2	29.76	755.8	81.3	27.4	45	calm	0	0			10			0	0	light clouds.	Teich, A. M.
Tiflis	28.53	724.7	29.93	760.1	64.4	18.0	41	nw.	16	7		0	4 k			0	0		Physical Observatory
Vladivostock	29.71	754.7	29.78	756.4	48.6	9.2	83	ne.	4	2			10 n			0	0		
Warsaw	29.53	750.0	29.94	760.5	62.8	17.1	76	n.	9	4			10 ks						Astronomical Obs'y.
Wilna	29.52	749.9	29.93	760.2	65.8	18.8	69	wnw.	4	2			4			0.012	0.3		Berg, Assistant.
Yeniseisk	29.89	759.3	30.19	766.7	45.7	7.6	67	w.	4	2			10			0	0		M. O. Marks.
SPANISH.																			
Barcelona, Met. Oos'y	29.89	759.2	29.99	761.8	65.1	18.4	69	se.	4.5	2.0			1 k			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.98	761.4	30.04	762.9	68.9	20.5	54	se.	1.8	0.8		2	3	e.		0.114	2.9	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.05	687.0	29.99	761.8	56.7	13.7	77	n.	6.3	2.8			9			0.071	1.8	almost cov'd	Domingo Martin.
Madrid, Royal Obs'y	27.74	704.6	29.92	759.9	66.2	19.0	45	sw.	6.9	3.1		0	8			0	0	very cloudy	The Staff.
Murcia, Met. Obs'y	29.77	756.2	29.92	759.9	72.9	22.7	57	nne.	4.3	1.9		5	4	sw.		0.008	0.2	misty	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.07	738.4	29.98	761.4	55.0	12.8	72	sw.	13.0	5.8			10			0.079	2.0	covered	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	29.90	759.5	29.97	761.2	76.3	24.6	88	sse.	5.8	2.6		1 c	1 k	sse.	sse.	0.051	1.3	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.88	759.0	29.94	760.4	79.3	26.3	87	n.	0.7	0.3		5 c	2 k		e.	0.039	1.0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.02	762.5	30.12	765.1	60.3	15.7	70	wnw.	3.3	1.5		0	3		wnw.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.02	762.6	30.11	764.9	77.0	25.0	92	calm	0	0		4 cs	2 k	e.	e.	0.157	4.0	d. clouds	Manuel Maese.
Tuguegarao, Philippine Id's	29.83	757.7	29.96	761.0	79.2	26.2	76	w.	3.1	1.4		0	6 k		sw.	0	0	cloudy	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.48	748.8	29.52	749.8	41.0	5.0	100	ne.			2		10			0.232	5.9	raining	
Umea	29.51	749.5	29.56	750.8	46.0	7.8	89	n.			4		10			0.008	0.2		
Hernosand	29.54	750.3	29.59	751.6	47.8	8.8	66	n.			4		8			0.500	12.7		
Stockholm	29.58	751.4	29.76	755.9	55.8	13.2	53	w.			6		8			0	0		
Wisby	29.78	756.3	29.84	757.8	55.4	13.0	57	w.			4		0			0	0		
Sub-series.																			
Unsala	29.63	752.5	29.71	754.7	53.2	11.8	65	w.	11.2	5.0			10		w.	0.063	1.6		S. G. Fineman.
SWISS.																			
Geneva	28.58	725.9	29.98	761.6	60.4	15.8	67	nnw.			2					0	0	clouds	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
TURKISH.																			
Constantinople			30.06	763.5	69.1	20.6	54	nne.	8	3.5			5		nw.	0	0		The Observatory.
Valona			30.12	765.1	77.9	25.5		sw.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.95	760.8	73.9	23.3	68	w.			2	0	1 s		w.	0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.12	765.0	30.20	767.1	42	5.6	51	ne.	5	2.2		10 cs	c			0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.58	751.3	30.24	768.1	38	3.3	54	e.	11	4.9		8 cs	0			0	0	cloudy	Jas. J. Fitzgerald.
Atlanta, Georgia	28.78	731.3	29.96	761.0	72.0	22.2	76	sw.	7	3.1		8 k	0	sw.		0	0	cloudy	H. Hall.
Atlantic City, New Jersey	30.05	763.3	30.06	763.5	46.5	8.1	93	ne.	19	8.5			10 n		ne.	0.27	6.9	light rain	Jas. M. Watson.
Augusta, Georgia	29.79	756.7	29.98	761.5	71	21.7	76	calm	0	0		1 c	0			0	0	clear	John Healy.
Baltimore, Maryland	30.03	762.7	30.08	764.0	51	10.6	80	e.	3	1.3			10 s		ne.	0.16	4.1	cloudy	Robert Seybolt.
Barnegat, New Jersey	30.09	764.3	30.11	764.8	45.0	7.2	86	e.	19	8.5			10 s		e.	0.16	4.1	threatening.	Chas. F. Merritt.
Bismarck, Dakota	28.20	716.3	29.98	761.5	46	7.8	86	s.	8	3.6			10 s		s.	0.01	0.3	cloudy	Cyrus Cramer.
Boise City, Idaho	27.08	687.8	29.92	760.0	47	8.3	86	nw.	3	1.3		3 k	0	w.		0.02	0.5	fair	B. E. Light.
Boston, Massachusetts	29.98	761.5	30.14	765.5	41.0	5.0	48	sw.	6	2.7		4 c	0			0	0	fair	O. B. Cole.
Brownsville, Texas	29.58	751.3	29.62	752.3	78	25.6	90	se.	10	4.5			10 s		se.	0	0	cloudy	M. McCarty.
Buffalo, New York	29.39	746.5	30.13	765.3	36.5	2.5	71	ne.	9	4.0			10 s			0	0	cloudy	Wm. Finn.
Burlington, Vermont	29.89	759.2	30.18	766.6	37.0	2.8	61	n.	5	2.2		6 ck	0	w.		0	0	fair	G. C. Schaeffer.
Cairo, Illinois	29.46	748.3	29.86	758.4	64.6	18.1	86	calm	0	0			10 s		sw.	1.18	30.0	cloudy	W. H. Ray.
Campo, California	27.28	692.9	29.81	757.2	34.3	1.3	82	sw.	5	2.2		0	0			0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	26.90	683.2	29.57	751.1	53.5	11.9	46	n.			1		9 ks		w.	0	0	cloudy	J. T. Fitzgerald.
Cape Henry, Virginia	30.00	762.0	30.02	762.5	53	11.7	86	ne.	16	7.2			10 s			0.96	24.4	cloudy	J. E. Lamouette.
Cape May, New Jersey	30.01	762.2	30.04	763.0	48	8.9	93	ne.	13	5.8			10 n		ne.	0.54	13.7	light rain	W. Bolten.
Cedar Keys, Florida	30.00	762.0	30.02	762.5	75	23.9	85	e.	3	1.3		5 ck	0			0	0	fair	F. W. Mixer.
Champaign, Illinois	28.97	735.8	29.77	756.1	44.8	7.1	93	e.	15	6.7			10 n		e.	1.36	34.5	light rain	L. A. Welsh.
Charleston, S. Carolina	29.93	760.2	29.98	761.5	75	23.9	82	sw.	8	3.6		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.04	737.6	29.88	758.9	72.0	22.2	62	sw.	2	0.9		5 ck	sk.	sw.		0	0	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.12	739.6	29.93	760.2	65.0	18.4	78	n.	5	2.2		6 cs	1 ks	sw.	sw.	inap.	inap.	fair	B. L. Goulding.
Cheyenne, Wyoming	23.87	606.3	29.74	755.4	44.2	6.8	93	s.	8	3.6			10 n		s.	0.29	7.4	light rain	E. McGovern.
Chicago, Illinois	29.25	742.9	29.95	760.7	37.9	3.3	89	ne.	20	8.9			10 n		ne.	0.88	22.4	light rain	J. Mitchell.
Chincoteague, Virginia	30.00	762.0	30.02	762.5	50	10.0	93	ne.	12	5.4			10 n		e.	0.19	4.8	light rain	V. P. Temple.
Cincinnati, Ohio	29.21	741.9	29.86	758.4	52	11.1	86	n.	6	2.7			10 s		nw.	1.17	29.7	cloudy	R. B. Watkins.
Cleveland, Ohio	29.24	742.7	29.98	761.5	39	3.9	50	ne.	12	5.4			10 n			inap.	inap.	light rain	J. B. Newlin.
Coleman City, Texas	27.85	707.4	29.64	752.8	62	16.7	93	se.	7	3.1		6 c	0			0.08	2.0	clear	L. Dorman.
Columbus, Ohio	29.00	736.6	29.84	757.9	45	7.2	93	n.	9	4.0			10 n		n.	1.12	28.4	light rain	D. Cuthbertson.
Concho, Texas	27.68	703.1	29.58	751.3	69	20.6	66	e.	6	2.7		3 ck	5 s	sw.		0	0	cloudy	W. W. McConihe.
Davenport, Iowa	29.30	744.2	29.94	760.5	40	4.4	73	ne.	16	7.2			10 s		ne.	0.95	24.1	cloudy	R. R. Martin.
Dayton, Washington T'y	28.19	716.0	29.94	760.5	43	6.1	93	sw.	5	2.2		0	3 s		sw.	0	0	clear	H. Clifford.
Deadwood, Dakota	25.25	641.3	29.76	755.9	42.5	5.8	86	ne.	2	0.9			10 s			0	0	cloudy	G. W. Scott.
Decatur, Texas																			D. J. Carr.
Delaware Breakwater, Del.	30.03	762.7	30.05	763.3	49	9.4	93	ne.	22	9.8			10 n		ne.	0.14	3.6	light rain	A. Schneider.
Denison, Texas	28.91	734.3	29.70	754.4	63.3	17.4	84	calm	0	0		10 cs	0			0	0	cloudy	J. McGlone.
Denver, Colorado	24.57	624.1	29.73	755.1	47.0	8.3	86	w.	3	1.3			10 n		nw.	0.43	10.9	light rain	F. M. Neal.
Des Moines, Iowa	29.11	739.4	30.00	762.0	44	6.7	68	ne.	8	3.6			10 s		ne.	0.66	16.8	cloudy	F. W. Conrad.
Detroit, Michigan	29.34	745.2	30.04	763.0	42.0	5.6	58	ne.	18	8.0			10 s		calm	0	0	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.22	691.4	29.77	756.1	51.0	10.6	74	ne.	16	7.2			10 s			inap.	inap.	cloudy	E. A. Thomas.
Dubuque, Iowa	29.30	744.2	30.00	762.0	41.3	5.2	65	ne.	9	4.0			10 ks		ne.	0.81	20.6	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.52	749.8	30.22	767.6	36	2.2	69	ne.	12	5.4		10 cs	0	calm		0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	28.82	732.0	29.62	752.3	74.1	23.4	84	se.	11	4.9			10 s		se.	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.13	638.3	29.81	757.2	36	2.2	72	sw.	8	3.6			10 ks		w.	0	0	cloudy	J. M. Clifford.
Eastport, Maine	29.95	760.7	30.02	762.5	39.5	4.2	51	nw.	15	6.7		0	0			0	0	clear	J. H. Melton.
El Paso, Texas	26.09	662.7	29.73	755.1	56	13.3	37	nw.	20	8.9		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.31	744.5	30.03	762.7	40	4.4	57	ne.	11	4.9			10 s			0	0	cloudy	R. H. Paxton.
Escanaba, Michigan	29.56	750.8	30.22	767.6	34	1.1	60	n.	7	3.1		7 cs	0	nw.		0	0	fair	C. Dill.
Fort Apache, Arizona	24.77	629.1	29.59	751.6	36	2.2	92	sw.	5	2.2			10 s		calm	0.06	1.5	cloudy	W. C. Barnes.
Fort Assinnaboine, Montana	27.00	685.8	29.84	757.9	41	5.0	76	calm	0	0		1 c	5 s	sw.	sw.	0	0	fair	B. O. Lenoir.
Fort Bennett, Dakota	28.34	719.8	29.90	759.4	46	7.8	93	se.	10	4.5			10 s			0.03	0.8	cloudy	A. Pritchard.
Fort Benton, Montana	27.03	686.5	29.82	757.4	37.5	3.1	94	calm	0	0		4 c	0			0	0	fair	G. W. Davis.
Fort Buford, Dakota	27.95	709.9	29.93	760.2	43	6.1	76	ne.	7	3.1		10 cs	0	calm		0	0	cloudy	A. H. Bell.
Fort Custer, Montana	26.68	677.7	29.78	756.4	48	8.9	100	calm	0	0			10 n		calm	0.76	19.3	heavy rain	V. Verge.
Fort Davis, Texas	24.82	630.4	29.54	750.3	59	15.0	39	s.	8	3.6		0	0			0	0	clear	J. Williams.
Fort Elliott, Texas	26.97	685.0	29.67	753.6	55	12.8	74	ne.	8	3.6			10 s		ne.	0	0	cloudy	W. J. Cundall.
Fort Gibson, Indian T'y	29.18	741.2	29.74	755.4	62.4	16.9	93	calm	0	0		0	0			0.80	20.3	clear	J. B. Campbell.
Fort Grant, Arizona	24.93	633.2	29.54	750.3	37	2.8	40	nw.	7	3.1			10 s			0.07	1.8	light rain	T. J. Macgowan.
Fort Keogh, Montana	27.34	694.4	29.78	756.4	50	10.0	86	se.	11	4.9			10 n		se.	0.12	3.0	light rain	W. B. Stockman.
Fort Macon, North Carolina	29.96	761.0	29.96	761.0	68	20.0	93	sw.	6	2.7		3 ck	3 ks;hz			0	0	fair	L. Leonardy.
Fort McKavett, Texas	27.41	696.2	29.65	753.1	68	20.0	81	e.	23	10.3		3 k	5 ks		se.	0	0	cloudy	J. E. Thatcher.
Fort Missoula, Montana	26.59	675.4	29.89	759.2	36	2.2	92	nw.	1	0.4		0	0			0	0	clear	J. H. Jones.
Fort St. Michaels, Alaska	29.31	744.5	29.34	745.2	28	— 2.2	100	n.	5	2.2			10 n			0.02	0.5	light snow	A. P. Leavitt.
Fort Shaw, Montana	26.18	665.0	29.78	756.4	34	1.1	81	w	8	3.6		2 c	0	sw.		0	0	clear	A. L. Mathews.
Fort Sill, Indian Territory	28.46	722.9	29.68	753.9	62.5	16.9	82	e.	6	2.7		0	0			0	0	clear	T. Cleary.
Fort Stevenson, Dakota	28.15	715.0	29.98	761.5	44	6.7	93	e.	2	0.9			10 s			0	0	cloudy	W. Burrows
Fort Verde, Arizona					48.9	9.4	58	se.			2		10 s		se.	inap.	inap.	cloudy	D. Brooks.
Fort Washakie, Wyoming	24.32	617.7			41.0	5.0	92	e	2	0.9			10 ks			0.80	20.3	cloudy	T. M. Ambler.
Fredericksburg, Texas	27.92	709.2	29.64	752.8	69	20.6	93	se.	14	6.3		0	6 s			0	0	fair	H. S. Miles.
Galveston, Texas	29.77	756.1	29.81	757.2	70	21.1	90	ne.	12	5.4			10 n		nw.	0.03	0.8	light rain	E. O'C. MacInerney.
Grand Haven, Michigan	29.38	746.2	30.04	763.0	40.5	4.7	48	ne.	14	6.3			10 s			0	0	cloudy	W. A. Reid.
Hatteras, North Carolina	29.94	760.5	29.96	761.0	65	18.3	93	e.	8	3.6		hz.	sk.			0	0	clear	R. M. Crawford.
Helena, Montana	25.62	650.7	29.79	756.7	40	4.4	62	w.	3	1.3		0	0			0.05	1.3	clear	S. Wheaton.
Henrietta, Texas	28.72	729.5	29.70	754.4	63.0	17.2	84	ne.	6	2.7		0	0			0	0	clear	J. W. Byram.
Huron, Dakota	28.63	727.2	29.98	761.5	43.8	6.6	96	e.	4	1.8			10 s		ne.	0.24	6.1	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.05	737.9	29.84	757.9	45	7.2	93	ne.	7	3.1			10 s		ne.	1.76	44.7	cloudy	O. Schutze
Indianola, Texas	29.77	756.1	29.80	756.9	71.2	21.8	94	ne	22	9.8			10ks;n		e.	inap.	inap.	thnd'r str'm	I. A. Reed.
Jacksboro, Texas	28.53	724.6	29.68	753.9	63	17.2	84	e.	7	3.1		0	7 s		s.	inap.	inap.	fair	J. P. Sherry.
Jacksonville, Florida	29.98	761.5	30.02	762.5	75	23.9	76	sw.	1	0.4		5 ks	0			0	0	fair	J. W. Smith.
Keokuk, Iowa	29.25	742.9	29.90	759.4	41.0	5.0	92	n.	12	5.4			10 s		n.	0.38	9.7	cloudy	F. Z. Gosewisch
Key West, Florida	29.94	760.5	29.96	761.0	81.0	27.2	74	s.	6	2.7		3 cs	1 k	w.	s.	0	0	fair	L. M. Melbourne.
Kittyhawk, North Carolina	30.00	762.0	30.02	762.5	52	11.1	100	ne.	15	6.7			10 s			inap.	inap.	cloudy	E. A. Beals.
Knoxville, Tennessee	28.91	734.3	29.93	760.2	60.6	15.9	94	sw.	2	0.9			10 n		w.	0.30	7.6	light rain	J. A. Cody.
La Crosse, Wisconsin	29.31	744.5	30.07	763.8	39	3.9	38	ne.	15	6.7			10 s			0	0	cloudy	S. C. Emery.
La Mesilla, New Mexico	25.80	655.3	29.56	750.8	49.0	9.4	42	calm	0	0		1 c	1 s	sw.	calm	0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.02	737.1	29.90	759.4	47	8.3	77	n.	7	3.1			10 s		n.	0	0	cloudy	A. W. Browne.
Lewiston, Idaho	29.06	738.1	29.90	759.4	50	10.0	80	e.	1	0.4			10 s			0.12	3.0	cloudy	J. M. Burlew.
Little Rock, Arkansas	29.46	748.3	29.77	756.1	65	18.3	93	e.	6	2.7			10 n		calm	0.70	17.8	thund'r st'm.	W. U. Simmons.
Los Angeles, California	29.55	750.6	29.95	760.7	56.1	13.4	62	w.	8	3.6		0	0			0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.24	742.7	29.79	756.7	63	17.2	90	s.	1	0.4		7 cs	3 s	sw.		0.37	9.4	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.33	745.0	30.01	762.2	55.0	12.8	86	ne.	4	1.8			10 n			0.34	8.6	threatening.	W. R. Bushby.
Madison, Wisconsin	29.04	737.6	30.04	763.0	37	2.8	72	ne.	15	6.7			10 s		ne.	0.02	0.5	cloudy	C. A. Shaw.
Marquette, Michigan	29.53	750.0	30.25	768.3	39	3.9	54	nw.	4	1.8		0	0			0	0	clear	J. Gilligan.
Memphis, Tennessee	29.58	751.3	29.91	759.7	63	17.2	100	se.	12	5.4			10 n			0.52	13.2	light rain	D. T. Flannery.
Milwaukee, Wisconsin	29.31	744.5	30.05	763.3	39	3.9	73	ne.	15	6.7			10 s			0	0	cloudy	W. Line.
Mobile, Alabama	29.90	759.4	29.94	760.5	72.5	22.5	90	se.	3	1.3		1 k	0	sw.		0	0	clear	J. D. Paxton.
Montgomery, Alabama	29.73	755.1	29.96	761.0	71.6	22.0	92	sw.	1	0.4		2 ck	2 ks	w.	w.	0	0	fair	J. B. McLaughlin.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS
UNITED STATES.—Cont'd.																			
Moorhead, Minnesota	29.10	739.1	30.08	764.0	38.1	3.4	72	se.	5	2.2		5 ck	0	s.		0	0	fair	H. Bessant.
Morgantown, W. Virginia	28.80	731.5	29.81	757.2	55.0	12.8	80	s.	12	5.4			10 s		s.	0.47	11.9	cloudy	J. O. Sprigg, jr.
Mt. Washington, N. H.	23.69	601.7	29.87	758.7	16.0	− 8.9	80	nw.	20	8.9		8 cs	0	nw.		0	0	cloudy	J. G. Linsley.
Nashville, Tennessee	29.32	744.7	29.85	758.2	62.5	16.9	88	se.	10	4.5			10 ks		sw.	0.27	6.9	cloudy	L. A. Jesunofsky.
New Haven, Connecticut	30.04	763.0	30.16	766.1	40.5	4.7	43	n.	14	6.3		6 c	0	w.		0	0	fair	J. H. Sherman.
New London, Connecticut	30.11	764.8	30.16	766.1	46	7.8	56	n.	6	2.7		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.85	758.2	29.90	759.4	72.3	22.4	83	se.	4	1.8		3 c	3 s		se.	0	0	fair	L. Dunne.
Newport, Rhode Island	30.10	764.5	30.15	765.8	42.8	6.0	45	n.	7	3.1		2 c	0	calm		0	0	clear	W. McGillivray.
New River, N. Carolina					74	23.3	77	sw.			1	1 c	2 s			0	0	clear	C. C. Corbin.
New Shoreham, Rhode I'd.	30.10	764.5	30.13	765.3	42.0	5.6	62	ne.	16	7.2		0	4 s		ne.	0.12	3.0	fair	W. Davis.
New York, New York	29.97	761.2	30.15	765.8	44	6.7	45	ne.	19	8.5		5 cs	3 s	w.		0.07	1.8	cloudy	E. B. Garriott.
Norfolk, Virginia	29.98	761.5	30.01	762.2	54	12.2	93	ne.	8	3.6			10 s			1.48	37.6	cloudy	J. T. Elker.
North Platte, Nebraska	27.00	685.8	29.87	758.7	50.6	10.3	84	e.	14	6.3			10 s			inap.	inap.	cloudy	E. F. Brady.
Olympia, Washington T'y	29.99	761.7	30.03	762.7	49.0	9.4	86	s.	4	1.8			10 s		sw.	inap.	inap	cloudy	J. Dascomb.
Omaha, Nebraska	28.82	732.0	29.98	761.5	45.0	7.2	80	ne.	18	8.0			10 s		ne.	0.01	0.3	cloudy	A. Pollak.
Ogdaamie, Pt. Barrow, Alas.	29.86	758.4	29.88	758.9	2.6	−16.3	100	ne.	13	5.8		1 cs	5 s		sw.	0	0	fair	P. H. Ray.
Oswego, New York	29.85	758.2	30.18	766.6	39.0	3.9	54	ne.	6	2.7		6 c	0	w.		0	0	fair	S. W. Beall.
Palestine, Texas	29.16	740.7	29.71	754.6	65.0	18.3	92	e.	5	2.2			10 s			1.31	33.3	cloudy	L. M. Pindell.
Pensacola, Florida	29.92	760.0	29.95	760.7	75.4	24.1	88	s.	6	2.7		0	1 ks		s.	0	0	clear	M. McGauran.
Philadelphia, Pa.	30.01	762.2	30.11	764.8	47	8.3	86	ne.	14	6.3			10 n		ne.	0.08	2.0	light rain	T. F. Townsend.
Pike's Peak, Colorado	17.56	446.0	29.62	752.3	19	− 7.2	100	se.	10	4.5			fg.		se.	0.19	4.8	dense fog	L. M. Dey.
Pioche, Nevada	23.84	605.5	29.76	755.9	34	1.1	65	n.	10	4.5		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.08	738.8	29.88	758.9	41.9	5.5	92	ne.	7	3.1			10 n		ne.	0.18	4.6	light rain	J. H. Bryce.
Poplar River, Montana	27.75	704.8						sw.			4	0	0			0	0	clear	U. D. Maxwell.
Port Eads, Louisiana	29.92	760.0	29.93	760.2	74.0	23.3	83	se.	8	3.6		1 c	0	n.		0	0	clear	H. G. Christian.
Port Huron, Michigan	29.41	747.0	30.09	764.3	38.6	3.7	49	ne.	20	8.9		10 cs	0			0	0	cloudy	W. O. Bailey.
Portland, Maine	30.04	763.0	30.10	764.5	44.0	6.7	45	nw	2	0.9		7 c	hz.	w.	calm	0	0	fair	D. C. Murphy.
Portland, Oregon	29.98	761.5	30.05	763.3	50.0	10.0	77	s.	2	0.9			10 s		s.	0	0	cloudy	M. L. Hearne.
Portsmouth, N. Carolina					70	21.1	84	sw.	1	0.4		3 c	3 ks	calm	sw.	0	0	fair	F. P. Chaffee.
Prescott, Arizona	24.50	622.3	29.60	751.8	42	5.6	71	s.	11	4.9			10 s		sw.	0.25	6.3	cloudy	J. McN. Wright.
Provincetown, Mass.	30.08	764.0	30.11	764.8	43	6.1	68	n.	9	4.0		3 cs	2 s	w.		0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	29.96	761.0	29.96	761.0	76.5	24.7	82	se.	12	5.4		8 c	1 ks	sw.	calm	0.01	0.3	cloudy	W. J. Evans.
Red Bluff, California	29.55	750.6	29.92	760.0	58.2	14.6	62	n.	3	1.3		1 k	1 s	nw.		0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.38	746.2	29.62	752.3	80	26.7	79	se.	10	4.5			9 s		se.	0	0	cloudy	P. M. Wilson.
Rochester, New York	29.50	749.3	30.16	766.1	37	2.8	72	e.	7	3.1			10 s			0	0	cloudy	F. Gillam.
Roseburg, Oregon	29.56	750.8	30.11	764.8	51.8	11.0	86	calm	0	0			10 ks		sw.	0.02	c.5	threatening	J. J. Nanry.
Sacramento, California	29.83	757.7	29.91	759.7	55.4	13.0	80	se.	7	3.1		0	6 s		nw.	0	0	fair	J. A. Barwick.
St. Louis, Missouri	29.24	742.7	29.84	757.9	53.0	11.7	100	n.	10	4.5			10s; fg		nw.	0.77	19.6	cloudy	J. H. Webber.
St. Paul, Minnesota	29.12	739.6	29.97	761.2	42.0	5.6	57	e.	8	3.6		4 cs	0	w.		0	0	fair	P. F. Lyons.
St. Vincent, Minnesota	29.23	742.4	30.09	764.3	41	5.0	65	se.	13	5.8		8 ck	1 s	calm	calm	0	0	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.45	646.4	29.77	756.1	44	6.7	56	calm	0	0		0	0			0.05	1.3	clear	J. Craig.
San Antonio, Texas	28.98	736.1	29.68	753.9	70.4	21.3	90	se.	8	3.6		0	7 ks; s		calm	1.51	38.4	fair	E. Lane.
San Diego, California	29.81	757.2	29.88	758.9	57.3	14.1	68	e.	8	3.6		6 k	3 s	s.	s.	0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.29	744.0	29.96	761.0	43	6.1	83	ne.	35	15.6			10 s		ne.	0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.10	764.5	30.14	765.5	44.0	6.7	60	ne.	22	9.8		8 k	0	ne.		0.15	3.8	cloudy	B. A. Blundon.
San Francisco, California	29.92	760.0	29.99	761.7	54	12.2	77	w.	5	2.2			10 s		nw.	0	0	cloudy	N. Gorom.
Santa Fé, New Mexico	22.89	581.4	29.50	749.3	50.6	10.3	21	se.	20	8.9			10 s		se.	0	0	cloudy	H. U. Jones.
Savannah, Georgia	29.91	759.7	30.00	762.0	77	25.0	64	sw.	7	3.1		0	0			0	0	clear	H. W. Ford.
Shreveport, Louisiana	29.53	750.0	29.77	756.1	72	22.2	90	se.	6	2.7		2 k	8 s	se.	se.	0	0	cloudy	E. N. Meekins.
Silver City, New Mexico	23.95	608.3	29.50	749.3	39	3.9	67	w.	1	0.4		7 cs	0	calm		0	0	fair	J. B. Wallace.
Sitka, Alaska	29.70	754.4	29.76	755.9	40.7	4.8	79	se.	7	3.1			10 ks			0.30	7.6	cloudy	J. J. McLean.
Smithville, North Carolina	29.93	760.2	29.97	761.2	71	21.7	84	w.	8	3.6		4 cs	0	w.		0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.82	706.6	29.87	758.7	47.5	8.6	82	sw.	12	5.4			10 n			0.01	0.3	light rain	D. Moore.
Springfield, Illinois	29.16	740.7	29.83	757.7	46	7.8	83	n.	11	4.9			10 s		ne.	0.23	5.8	cloudy	T. B. Jennings.
Springfield, Massachusetts	30.04	763.0	30.17	766.3	44.8	7.1	37	n.	6	2.7		9 c	0	w.		0	0	cloudy	T. S. Outram.
Springfield, Mo.	28.40	721.3	29.88	758.9	53	11.7	86	ne.	12	5.4			10 s		n.	0.02	0.5	cloudy	J. B. Marbury.
Starkville, Miss.	29.46	748.3			69	20.6	93	s.	8	3.6		8 ck	hz.			inap.	inap.	cloudy	M. J. Wright.
Stockton, Texas	26.61	675.9	29.62	752.3	53.2	11.8	61	s.	6	2.7		0	0			0	0	clear	J. O'Dowd.
Thatcher's Island, Mass.	30.07	763.8	30.12	765.0	40.5	4.7	82	n.	7	3.1		5 c	0	nw.		0	0	fair	F. R. Day.
Toledo, Ohio	29.29	744.0	29.97	761.2	43	6.1	60	e.	36	16.1			10 n		e.	inap.	inap.	light rain	A. Buell.
Tucson, Arizona	27.29	693.2	29.63	752.6	53	11.7	74	e.	7	3.1			10 s			inap.	inap.	threatening	J. L. Whiteside.
Umatilla, Oregon	29.62	752.3	29.99	761.7	49	9.4	77	w.	4	1.8		5 ck	2 s	w.		0	0	fair	J. Daly.
Uvalde, Texas	28.67	728.2	29.62	752.3	71	21.7	84	se.	8	3.6			10 s		se.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.60	751.8	29.85	758.2	72	22.2	84	s.	1	0.4		5 c	4 s	s.	s.	0	0	cloudy	H. T. Brisbane.
Visalia, California	29.52	749.8	29.89	759.2	51	10.6	66	w.	3	1.3		5 ck	0	calm		0	0	fair	W. L. Seward.
Washington, D. C.	29.95	760.7	30.06	763.5	49.8	9.9	93	ne.	4	1.8			10 s		ne.	0.42	10.7	cloudy	B. M. Purssell.
West Las Animas, Colorado	25.85	656.6	29.71	754.6	50	10.0	93	ne.	19	8.5			10 n		ne.	0.69	17.5	light rain	J. Grover.
Williamsport, Pa.	29.51	749.5	30.11	764.8	41.7	5.4	53	calm	0	0			10 s			0.10	2.5	cloudy	B. F. Hough.
Wilmington, N. Carolina	29.89	759.2	29.94	760.5	73	22.8	76	w.	12	5.4		3 c	0	w.		0	0	fair	A. T. Sherwood.
Winnemucca, Nevada	*25.53	648.5	29.88	758.9	42	5.6	68	sw.	10	4.5			10 ks		sw.	0	0	cloudy	J. R. Williams.
Yankton, Dakota	28.68	728.5	29.96	761.0	46	7.8	93	e.	3	1.3			10 s			0.42	10.7	cloudy	J. H. Atfield.
Yuma, Arizona	29.53	750.0	29.68	753.9	62.3	16.8	44	w.	3	1.3		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.01	559.8			54.5	12.5	79	sw.	4	1.8		0	5ks; s		s.	0.54	13.7	fair	Joaquin Gomez.
Bridgetown, Barbados, W. I.	30.02	762.5	30.02	762.5	83	28.3	87	e.				0	5 s		e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	30.04	763.0	30.07	763.8	77	25.0	90	n.	2	0.9			10 ks		n.	0	0	cloudy	J. I. Plume.
Havana, Cuba, W. I.	29.96	761.0	30.00	762.0	79	26.1	74	calm	0	0		2 cs	1 ks	calm	calm	1.20	30.5	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.03	762.7	30.04	763.0	80.0	26.7	77	ese.	1	0.4		2 cs	1 ks			0	0	fair	Robert Johnston.
Magua, San Domingo					69	20.6							10 n			0.06	1.5		S. M. Pike.
Navassa, W. I.																			F. M. Everett.
Paramaribo, S. A.	29.98	761.5	29.98	761.5	81	27.2	83	e.			3	4 c	4 k	e.	e.	0.800	20.3	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.55	750.6	30.01	762.2	80	26.7	85	calm			0		10 s		calm	1.07	27.2	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							97	e.			1	0	1 ks		e.	0	0	clear	Earl Flint.
Santiago de Cuba, W. I.	30.00	762.0	30.02	762.5	78	25.6	86	calm	0	0		5 c	3 s		se.	0.05	1.3	cloudy	Robert Mason.
York Factory, B. A.	29.98	761.5	30.03	762.7	39.0	3.9	95	s.	6	2.7		4 k	4 s	s.	s.	0	0	cloudy	W. Wood.

Stations and Vessels.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.					
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.	Character.	Direction from.	
British Naval.																		
H. M. S Alert, Gloriosa Island, Madagascar	29.90	759.4	84.8	29.3	69	ese.			2–3		3							d. clouds.
H. M. S. Alexandra, N. 35° 59′ E. 14° 38′	29.91	759.7	70.5	21.4	77	ese.			3		7	ese.				1	ese.	d. clouds.
H. M. S. Amethyst, Funchal, Maderia Island	30.18	766.6	65.5	18.6	80	s.			2		1	nne.				1	ssw.	blue sky.
H. M. S. S. S. Champion, S. 10° 00′ W. 99° 00′			77	25.0	77	ese.			4		3					3	ese.	d. clouds.
H. M. S. Cleopatra, Singapore, Malay Peninsula	29.87	758.7	79.5	26.4	91	w.			1–2		2							d. clouds.
H. M. S. Comus, Labuan Island, Borneo	29.90	759.4	82	27.8	?	s.			2		2	ese.						d. clouds.
H. M. S. Coquette, Alexandria, Malta	29.98	761.5	70	21.1		wnw.			1		1	wnw.						blue sky.
H. M. S. Dido, N. 18° 10′, W. 65° 00′	30.12	765.0	80	26.7		e.			2–3		3	ne.						d. clouds.
H. M. S. Druid, N. 13° 23′, W. 81° 23′	29.96	761.0	81	27.2	80	e.			1		2	e.						d. clouds.
H. M. S. Dwarf, S. 32° 18′, W. 58° 03′	29.97	761.2	50.5	10.3	93	ssw.			2–4		10					3	sw.	squally.
H M. S. Eclipse, S 9° 20′, E. 41° 25′	29.88	758.9	83	28.3		sse.			4		3					3	sse.	d. clouds.
H. M. S. Emerald, S. 45° 40′, E. 179° 25′	29.33	745.0	54	12.2	93	wsw.			2–3		10	sw.				3	se.	
H. M. S. Euryalus, Trincomalee, Ceylon	29.72	754.9	89	31.7	91	ssw.			1–2		3	calm						d. clouds.
H. M. S. Fantome, N. 16° 29′, W. 68° 24′	30.03	762.7	80	26.7		ese.			3		8	ese.				2	ese.	d. clouds.
H. M. S. Flying Fish, N. 31° 00′, E. 130° 30′	29.86	758.4	67	19.4	90	wnw.			4–5		3					2	nw.	squally.
H. M. S. Fawn, N. 12° 02′, E. 50° 28′	29.74	755.4	86.5	30.3	91	nne.			2		2	e.				1	ne.	d. clouds.
H. M. S. Gannet, S. 27° 03′, W. 70° 51′	30.07	763.8	60	15.6	84	n.			1		10							drizzling.
H. M. S. Garnet, Colonia, Uruguay	30.00	762.0	51	10.6	78	s.			6		8							squally.
H. M. S. Inconstant, Simon's Bay, Cape Colony	30.05	763.3	67	19.4	97	e.			2		6	e.						d. clouds.
H. M. S. Iron Duke, N. 28° 17′, E. 129° 18′	29.94	760.5	65	18.3	94	calm			0		2							d. clouds.
H. M. S. Lark, S. 8° 14′, E. 156° 30′	29.88	758.9	80.3	26.8		n.			1		10					1	n.	raining.
H. M. S. Magpie, N. 34° 56′, E. 139° 52′	29.58	751.3	62.3	16.8	68	wsw.			1		0					1	wnw.	blue sky.
H. M. S. Northampton, Bermuda, W. I.	30.09	764.3	72	22.2	95	s.			3		8	s.						d. clouds.
H. M. S. Orontes, N 28° 15′ W. 69° 00′	30.16	766.1	74.5	23.6	97	s.			2		2	ssw.				1	s.	d. clouds.
H. M. S. Phoenix, N. 17° 25′, W. 67° 11′	30.05	763.3	83	28.3	79	e.			4–6		7	e.				2	e.	d. clouds.
H. M. S. Rambler, S. 11° 40′, E. 13° 06′	29.88	758.9	77	25.0	95	wnw.			2		3					3	ssw.	d. clouds.
H. M. S. Rocket, N. 48° 27′ W. 123° 27′	29.99	761.7	47	8.3	?	calm			0		8							d. clouds.
H. M. S. Tenedos, N. 44° 40′ W. 63° 35′	29.94	760.5	42	5.6	83	nnw.			2		0							blue sky.
H. M. S. Triumph, Calderia, Chili	30.09	764.3	60	15.6	88	calm			0		8	n.						d. clouds.
H. M. S. Tyne, S. 32° 22′, E. 30° 00′	30.01	762.2	70	21.1	79	w.			2–3		0					2	w.	blue sky.
H. M. S. Woodlark, N. 20° 10′ E. 58° 50′	29.77	756.1	84.5	29.2	75	ssw.			4–5		0					5	sw.	blue sky.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verd Island	30.05	763.2	70.2	21.2	?	ne.			3		0					3	ne.	blue sky.
Tamega, Macao, China	29.94	760.5	77.0	25.0	82	e.			5		3		e.	2 h'r	2 h'r			d. clouds.
Swedish Naval.																		
Balder, N. 47° 46′ W. 12° 39′	29.93	760.3	50.9	10.5	90	ene.			2		10							heavy rain.
United States Naval.																		
Navy Yard, Pensacola, Fla	29.91	759.7	75	23.9	90	s.	6	2.7			2		s.	0	0			fair.
Naval Hospital, Portsmouth, N. H.	30.13	765.3	40	4.4	73	nw.	2	0.9			0			0	0			hazy.
Naval Hospital, Yokohama, Japan	29.44	747.8	58.5	14.7	48	nw.			1		0			0	0			clear.
Adams, N. 27° 00′ W. 114° 31′	29.73	755.1	59	15.0	88	nw.			4		5		nw.	0	0	long	nw.	fair.
Alaska, S. 1° 58′, W. 81° 15′	29.95	760.7	71	21.7	85	s.			1		5			0	0	sm'h		fair.
Alert, Kobe, Japan*	29.71	754.6	62	16.7	48	n.			1		0			0	0	sm'h		clear.
Alliance, Norfolk, Va	30.02	762.5	56	13.3	87	ne.			2		10			h'vy	hv'y	sm'h		overcast.
Ashuelot, Kobe, Japan	29.81	757.2	59	15.0	65	n.			1		1							clear.
Brooklyn, Montevideo, Uruguay	29.87	758.7	54	12.2	80	ssw.	19	8.5			8		sw.	0.02	0.5	r'gh		cloudy.
Colorado, New York, N. Y.	30.13	765.3	45	7.2	61	n.	6	2.7			8		n.	0.05	1.3			fair.
Enterprise, Norfolk, Va*	29.98	761.5	57	13.9	94	ne.			3		10		calm					cloudy.
Essex, S. 29° 53′, W. 45° 32′	29.86	758.4	71	21.7	71	nw.			0		10		nw.			r'gh	nw.	overcast.
Franklin, Norfolk, Va	30.04	763.0	55	12.8	93	e.	6	2.7			10		calm	0.17	4.3			cloudy.
Galena, N. 40° 12′, E. 4° 38′	30.04	763.0	65	18.3	84	s.			1		2					sm'h		clear.
Independence, Mare Island, Cal	29.89	759.2	56	13.3	94	sw.			4		10		w.	0	0			cloudy.
Iroquois, Mare Island, Cal	29.98	761.5	57	13.9	81	sw.			3		8		sw.					cloudy.
Kearsage, Hampton Roads, Va	30.05	763.3	55	12.8	?	ene.			4		10		ne.			mod.	ne.	cloudy.
Lackawanna, Callao, Peru†	30.16	766.1	61	16.1	88	calm			0		10		se.	0	0			foggy.
Lancaster, N. 40° 15′, E. 4° 34′*	29.98	761.5	70	21.1	70	s.			2		5		s.	0	0			fair.
Marion, S. 25° 43′, W. 32° 17′	30.02	762.5	75	23.9	90	n.			3		8		nnw.			sm'h		cloudy.
Michigan, Erie, Pa	29.99	761.7	39	3.9	91	ene.			0		10		ne.					cloudy.
Minnesota, Newport, R. I.	30.15	765.8	42	5.6	66	n.	5	2.2			2							
Monocacy, Kobe Japan	29.85	758.2	60	15.6	65	n.			1		0							clear.
New Hampshire, Newport, R. I.	29.09	738.9	48	8.9	49	nne.			2		0					sm'h		clear.
Nipsic, N. 40° 14′, E. 4° 31′	30.01	762.2	69	20.6	65	s.			1		5					sm'h		fair.
Onward. Callao, Peru†	30.11	764.8	59	15.0	94	calm			0		10		n.			long	w.	foggy.
Palos, Kobe, Japan	29.85	758.2	58	14.4	48	n.			1		0							clear.
Passaic, Washington, D. C.	30.11	764.8	50	10.0	86	e.			1		10							cloudy.
Pensacola, Callao, Peru	30.04	763.0	61	16.1	94	nnw.	1	0.4			2		nnw.	0	0	sm'h		foggy.
Portsmouth, N. 49 44′, W. 8° 25′	29.96	761.0	61	16.1	94	sw.			1		10		sw.			sm'h	n.	cloudy.
Powhatan, Lynn Haven Roads, Va	30.03	762.7	55	12.8	93	ene.			4		8		ene.					cloudy.
Quinnebaug, N. 40° 16′ E. 4° 31′	30.00	762.0	65	18.3	73	sse.			1		5?					sm'h		clear ?
Ranger, N. 23° 29′, W. 106° 47′*	29.77	756.1	73	22.8	85	se.			3		8		se.	0	0	sm'h		cloudy.
Richmond, Kobe, Japan*	29.79	756.7	61	16.1	50	calm			0		0			0	0			clear.
Saratoga, N. 49° 00′ W. 5° 44′	29.94	760.5	52	11.1	86	calm			0		8		calm	0	0	sm'h		cloudy.
Shenandoah, New York, N. Y*	30.20	767.1	45	7.2	61	ne.			3		8		calm					hazy.
St. Louis, League Island, Pa	30.35	770.9	46	7.8	84	ne.	12	5.4			10		ne.	0.16	4.1			cloudy.
Swatara, Chefoo, China*	29.83	757.7	60	15.6	71	wnw.			1		5		calm			sm'h		fair.
Tennessee, Fort Monroe, Va	30.06	763.5	56	13.3	94	ne.	16	7.2			10			0.31	7.9			hazy.
Vandalia, Norfolk, Va*	29.99	761.7	56	13.3	94	ene.			2		10		ene.					overcast.
Wabash, Boston, Mass	30.13	765.3	47	8.3	70	nw.	1	0.4			2		nw.	0	0			fair.
Wachusetts, N. 58° 27′, W. 133° 24′	29.68	753.9	40	4.4	100	e.			1		8		s.	0	0	sm'h		cloudy.
Wyoming, Port Royal, S. C.	30.00	762.0	73	22.8	85	sw.	8	3.6			2		calm	0	0			clear.
Yantic, Norfolk, Va*†	30.21	767.3	55	12.8	93	e.			2		10							cloudy.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
										Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.	Character.	Direction from.	
ALLAN LINE.																		
S. S. Circassian, N. 55° 30′, W. 12° 01′*	29.62	752.3	48	8.9	92	sw.			5		7		w.	2 h'r	2 h'r	4	nw.	d. clouds.
S. S. Prussian, Liverpool, Eng*	29.72	754.9	60	15.6		wnw.			1		1		nw.	0	0			clear.
S. S. Waldensian, N. 51° 16′, W. 13° 42′*	30.13	765.3	52	11.1		w.			3		2		w.	0	0	long	nw.	clear.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, N. 49° 33′, W. 22° 49′	30.07	763.8	53	11.7	86	ne.			3		2		ne.			mod.	n.	fine.
S. S. Indiana, Liverpool, Eng†	30.02	762.5	53	11.7	73	e.			2		0			0	0			fair.
S. S. Lord Clive, N. 45° 51′, W. 41° 06′						s.			6		9		sw.	0	0	r'gh	sw.	
S. S. Ohio, N. 39° 48′, W. 60°, 29†	29.85	758.2	58	14.4	100	nne.			6		7		n.			hv'y	sw.	rainy.
ANCHOR LINE.																		
S. S. Elysia, N. 46° 40′, W. 36° 49′ †	30.18	766.6	61	16.1		s.			4		6		ssw.	0	0	mod.	sw.	cloudy.
S. S. Utopia, Cadiz, Spain†	30.24	768.1	70	21.1	58	w.			2		2		w.	0	0			clear.
ATLAS LINE.																		
S. S. Alisa, Savanilla, U. S. C.†	29.90	759.4	79	26.1	90	calm			0		10		ne.	0	0			dull.
S. S. Alvo, N. 33° 25′, W. 74° 04′	30.03	762.7	75	23.9		sw.			6		5		sw.	sh'rs	shr's	mod.	sw.	
Antillas, N. 35° 10′, W. 72° 24′*†	30.20	767.1				e.			1		5?		ene.			sm'h		cloudy ?
S. S. Athos, Gonaives, Hayti, W. I.	29.57	751.1				calm			0		2		e.	2 h'r	2 h'r	sm'h		clear.
S. S. Claribel, N. 19° 26′, W. 72° 42′*†	30.16	766.1	80	26.7	82	e.			1		2		calm	3 h'r	3 h'r	sm'h		fine.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 35° 43′, W. 16° 14′	30.15	765.8	66.5	19.2	89	n.			5		10							overcast.
British Merchant, S. 31° 04′ E. 41° 02′	30.39	771.9	65.8	18.8	59	sse.			3–4		3							d. clouds.
Bk. Coppename, N. 47° 50′, W. 11° 27′	29.94	760.5	51	10.6	79	nnw.			4		10							drizzling.
Earnock, N. 29° 40′, W. 39° 58′	30.36	771.1	71	21.7	90	e.			2		4							d. clouds.
Glencairn, S. 24° 00′, E. 67° 44′	30.07	763.8	75	23.9	85	e.			3		6							d. clouds.
Bkt. Hope, N. 5° 35′, W. 33° 20′	29.92	760.0	80.5	26.9	82	nne.			5		5							misty.
Minho, N. 11° 27′, W. 27° 04′	30.01	762.2	78.1	25.6	77	ne.			3–5		7							misty.
CROMWELL LINE.																		
S. S. Hudson, N. 27° 55′, W. 79° 35′†	30.05	763.3	78	25.6		se.			1		2		nne.	0	0	mod.	ne.	fair.
CUNARD LINE.																		
S. S. Marathon, N. 48° 25′, W. 33° 12′	30.23	767.8	56	13.3		sse.			3		10		sse.	0	0	h'vy	ne.	cloudy.
S. S. Parthia, N. 50° 26′, W. 21° 44′†	30.20	767.1				nw.			4		4?		n.	3 h'r	3 h'r	mod.	nw.	cloudy ?
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. France, N. 41° 31′, W. 58° 37′†	29.91	759.7	41.0	5.0		n.			4				nnw.	rain	rain		sw.	raining.
S. S. Ville de Marseilles, N. 38° 05′, E. 5° 40′*†	30.00	762.0	68	20.0		e.			6		8		e.	0	0	sm'h		cloudy.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 41° 22′, W. 64° 10′*†	30.01	762.2				nnw.			4		2			0	0	mod.	nw.	fine.
S. S. Gellert, N. 49° 40′, W. 11° 30′	30.01	762.2	56	13.3		ne.			1		8		se.	0	0	mod.	nw.	fair.
S. S. Lessing, Havre, France	29.96	761.0	59	15.0		calm			0		0			0	0			clear
S. S. Silesia, Hamburg, Germany†	29.98	761.5	59	15.0		wsw.			5		5		wsw.	1½ h'r	1½ h'r			fair.
JOHNSTON LINE.																		
S. S. Thanemore, N. 51° 06′, W. 10° 57′	29.94	760.5				calm			0		5		wsw.	0	0		nw.	fair.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, Buenos Ayres*†	29.90	759.4	54	12.2		sw.			6		7		sw.	2 h'r	2 h'r			cloudy.
LEYLAND LINE.																		
S. S. Iberian, N. 43° 30′, W. 45° 39′	29.84	757.9				s.			3		9		wsw.	0	0	slt't	sw.	cloudy.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenapp, Off Para, Brazil*†	29.90	759.4				var.			2		5		e.	3 h'r	3 h'r			
NATIONAL LINE.																		
S. S. Canada, N. 50° 43′, W. 12° 29′†	30.02	762.5	53	11.7		nw.			2		3		w.	0	0	hv'y	nw.	clear.
S. S. Denmark, London, Eng	29.90	759.4	61	16.1		s.			1		8		w.	6 h'r	6 h'r			cloudy.
S. S. England, North River, N. Y.	30.09	764.3				n.			2		10		n.	0	0	sm'h		overcast.
S. S. Erin, N. 43° 17′, W. 44° 22′	29.92	760.0	58	14.4		ssw.			6		5		ssw.	0	0	r'gh	wsw.	hazy.
S. S. Helvetia, N. 42° 45′, W. 49° 44′			54	12.2		ssw.			6		10			hv'y	h'vy	high	sw.	heavy rain.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Niagara, N. 30° 00′, W. 79° 30′†	30.10	764.5	78	25.6	78	ssw.			3		6?		w.	0	0			clear.?
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, Foontera Roads, C. A*†	29.85	758.2	80	26.7	82	sse.			2		4		s.	0	0	small	ene.	misty.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N. 46° 43′, W. 32° 20′*†	30.34	770.6	59	15.0		sw.			3								sw.	fair.
S. S. Lepanto, N. 49° 00′, W. 21° 25′*	30.10	764.5	48	8.9		ne.			7								ene.	squally.
S. S. Olbers, N. 28° 06′, W. 18° 40′*†	30.22	767.6	68	20.0		ne.			5								ne.	clear.
S. S. P. Caland, N. 48° 15′ W. 23° 00′	30.13	765.3	55.4	13.0		ne.			5							5	ne.	
NORTH GERMAN LLOYD.																		
S. S. Elbe, Weser river, Germany	30.03	762.8	57.2	14.0	83	ne.			3–4		5?		ne.	0	0			clear ?
S. S. Graf Bismarck, Santos, Brazil	29.72	754.9	71.6	22.0		nw.			4		8		nw.	5 h'r	5 h'r			squally.
S. S. Habsburg, N. 41° 04′, W. 63° 11′	29.98	761.5	46.4	8.0		nne.			4		5		nne.	8 h'r	8 h'r	sm'h		fair.
S. S. Hermann, N. 47° 12′ W. 26° 11′†	30.03	762.7	53.6	12.0		ne.			6		3		ne.	3 h'r	3 h'r	cross	ne.	clearing.
S. S. Hohenzollern, N. 50° 08′, W. 3° 26′*	29.91	759.7	51.8	11.0		w.			2		8		w.	0	0	sm'h	wnw.	clear.
S. S. Kronprinz F. Wilhelm, N. 42° 01′, W. 49° 19′	29.79	756.7	51.8	11.0		ssw.			6		10			5 h'r	5 h'r	6	ssw.	cloudy.
S. S. Lepzig, N. 45° 07′, W. 38° 51′	30.11	764.8	61.0	16.1	88	ssw.			6		5?		sw.	1 h'r	1 h'r	cross	sw.	clear ?
S. S. Main, N. 41° 58′, W. 52° 56′	29.87	758.7	44.6	7.0		nw.			3		9		nnw.	light	light	mod.	nw.	light rain.
S. S. Neckar, N. 49° 00′, W. 25° 25′	30.15	765.8	55.4	13.0		n.			5		1		n.	1 h'r	1 h'r	mod.	n.	clear.
S. S. Oder, N. 47° 20′, W. 27° 15′	30.19	766.8	50.0	10.0		nne.			5		5		ne.	0	0	r'gh	nne.	fair.
S. S. Ohio, Bremerhaven, Germany	29.93	760.2				w.			6		7		wnw.	0	0			
S. S. Rhein, N. 51° 50′ E. 2° 40′	29.85	758.2				sw.			2		10		sw.			sm'h		light rain.
S. S. Salier, N. 49° 45′ W. 12° 23′	29.99	761.7	49.1	9.5		calm			0		8		w.	3 h'r	3 h'r	mod.	w.	cloudy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, N. 36° 06′ E. 162° 56′†	30.26	768.6	61	16.1	82	sse.			5		10		sw.	rain	rain	mod.	sse.	cloudy.
S. S. Gaelic, N. 37° 50′, W. 139° 53′†	30.13	765.3	60	15.6	94	wsw.			4		10		w.			mod.	w.	foggy.
S. S. Oceanic, N. 30° 29′, E. 131° 39′*	29.80	750.9	70	21.1	75	nnw.			4		2		n.			3	e.	fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y.†	30.01	762.2				e.			3		8?		w.					clear.?
S. S. Seminole, N. 36° 12′, W. 74° 45′	30.07	763.8	52	11.1	87	ne.			4		10		ne.	fg.	fg	mod.	cross	dense fog.
OREGON IMPROVEMENT COMPANY.																		
S. S. Willametta, N. 39° 06′, W. 123° 12′†	30.06	763.5	52	11.1	86	nnw.			5		3		nnw.	0	0	mod.	nnw.	hazy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, Departure Bay, Alaska*†	30.02	762.5	54	12.2	?	se.			2		5?		w.					cloudy ?
S. S. Oregon, San Francisco, Calif	30.23	767.8	51	10.6	93	nw.			4		0							clear.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 35° 14′, W. 120° 55′†	29.90	759.4	51	10.6	93	nw.			3		0					mod	wnw.	clear.
S. S. State of California, Portland, Oregon†	30.06	763.5	50	10.0	79	calm			0		6		s.					cloudy.
S. S. Victoria, N. 49° 10′, W. 123° 56′†	30.23	767.8	49	9.4	85	calm			0		8			0	0	sm'h		fair.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, N. 11° 55′, W. 162° 33′	29.90	759.4	76	24.4	82	ne.			4		5		nne.	2 h'r	2 h'r	long	ne.	fair.
S. S. City of New York, Sydney, N. S. W.†	29.95	760.7	68	20.0	79	calm			0		0			0	0			clear.
S. S. City of Rio de Janeiro, San Jose, Guatemala*†	30.12	765.0	70	24.4	91	ene.			1		6		ene.	1 h'r	1 h'r	long	se.	fine.
S. S. City of Tokio, N. 23° 22′, E. 117° 21′†	30.00	762.0	71	21.7	88	ne.			3		10		ne.	2 h'r	2 h'r	sm'h		cloudy.
S. S. Clyde, N. 37° 07′, W. 122° 29′†	30.01	762.2	54	12.2	74	nw.			5		5		nw.	0	0	mod.	nw.	fair.
S. S. Colima, N. 30° 57′, W. 119° 17′†	29.93	760.2	56	13.3	81	wnw.			6		8		nw.	0	0	r'gh	nw.	cloudy.
S. S. Colon, N. 20° 48′, W. 74° 06′†	30.09	764.3	80	26.7		ese.			3		3		se.	0	0	small	se.	fair.
S. S. Grenada, Panama, Panama†	29.93	760.7	81	27.2	87	calm			0		5?			0	0			cloudy ?
S. S. South Carolina, La Libertad, San Salvador†	30.05	763.3	81	27.2	83	ne.			2		0			0	0	light	sw.	fair.
S. S. Zelandia, Sydney, N. S. W.	30.01	762.2	66	18.9	94	calm			0		8		e.					cloudy.
QUEBEC STEAMSHIP COMPANY.																		
S. S. Bermuda, Bridgetown, Barbadoes W. I†	30.02	762.5	58?	14.4?		ene.			5		5		ene.	0	0	long	se.	fine.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
Red Star Line.																		
S. S. Rhynland, N. 46° 49′, W. 31° 52′	30.27	768.8	52	11.1	72	e.			2		0			0	0	mod.	ne.	clear.
S. S. Switzerland, N. 41° 55′ W. 44° 32′†	30.09	764.3				s.			5		5		s.	0	0	cross	sw.	fair.
S. S. Vaderland, N. 40° 42′, W. 68° 41′	29.94	760.5	42	5.6	75	n.			3		0			0	0	sm'h	n.	clear.
S. S. Waesland, N 47° 55′, W. 22° 06′	30.05	763.3	53	11.7		nne.			5		5		n.	6 h'r	6 h'r	mod.	nne.	fair.
Rotterdam Line.																		
S. S. W. A. Scholten, Rotterdam, Holland	30.13	765 3	63.5	17.5	100	wnw.			1		8		wnw.	0	0			
State Line.																		
S. S. State of Florida, N. 43° 20′, W. 44° 10′	29.94	760.5	61	16.1		s.			6		7		s.	0	0	h'vy	ssw.	cloudy.
Thingvalla Line.																		
S. S. Thingvalla, Brooklyn, N. Y.†	30.34	770.6	47.3	8.5		ene.			2		10		ene.	0	0			covered.
Warren Line.																		
S. S. Iowa, N. 44° 15′ W. 42° 00′*†	30.18	766.6	55	12.8		s.			6		9		s.	0	0	r'gh	sw.	cloudy.
White Cross Line.																		
S. S. Plantyn, N. 48° 59′, W. 10° 10′	29.99	761.7									7		e.	0	0	1	n.	d. clouds.
White Star Line.																		
S. S. Adriatic, New York, N. Y†	30.11	764.8	47	8.3		ne.			4		8		sw.			sm'h		raining.
S. S. Celtic, Off Waterford, Ireland†	29.99	761.7	56	13.3	?	w.			2		5		w.	0	0	sm'h		fair.
S. S. Germanic, N. 50° 57′, W. 15° 12′†	30.07	763.8	50	10.0		nnw.			2		2		nnw.			long	wnw	d. clouds.
Wilson Line.																		
S. S. Otranto, N. 41° 30′, W. 59° 45′†	30.02	762.5	50	10.0		wnw.			4				wsw.			mod.	wsw.	cloudy.
Miscellaneous.																		
Schr. Abbie Clifford, N. 17° 44′ W. 56° 05′*†	30.15	765.8	80	26.7		e.			5		2		e.	sh'rs	sh'rs	mod.	e.	fine.
Sch. Addie Fuller, Newport News, Va†	30.08	764.0	55	12.8	93	e.			3		10 s		e.	0.55	14.0			cloudy.
Bk. Adelaide, S. 24° 01′, W. 39° 18′*†	30.00	762.0	80	26.7		nne.			6		3		ne.	c	o	rg'h	ne.	hazy.
Schr. Ajax, Brazos, Texas†	29.76	755.9				se.			3		5?		s.	o	o			cloudy?.
Bk. Alpha, Santiago de Cuba, W. I.†	29.96	761.0	80	26.7		calm			0		1		ne.	light	light			fair.
Sch'r Annie R. Lewis, Aransas Pass, Texas†	29.81	757.2	78	25.6		e.			6		8		ne.	8 h'r	8 h'r	hv'y	sse.	cloudy.
Bk. Annie Thorman, N. 37° 50′, W. 59° 15′	30.11	764.8	60.6	15.9	79	n.			4		10 n		ne.	3 h'r	3 h'r	cross	nw.	hazy.
Bk. Antioch, S. 40° 04′ E. 83° 52′*†	29.75	755.6	60	15.6		sw.			8		10		s.	12 h'r	12 h'r	rg'h	sw.	rainy.
S. S. Antonio Lopez, Vera Cruz. Mexico*	29.71	754.6	75	23.9	95	sse.			2		0			0	0			hazy.
Bk. Aureola, S. 23° 03′, W. 43° 05′*†	29.92	760.0	82	27.8		nne.			4		9		ene.	14 h'r	14 h'r	mod.	s.	cloudy.
Schr. Annie M. Smull, S. 26° 54′, E. 104° 13′*†	30.10	764.5	72	22.2		sse							sse.	0	0		sse.	
Bk. Celestina, Montevideo, Uruguay*†	29.87	758.7				s.			7		9		ssw.	4 h'r	4 h'r			
S. S Compton, New Orleans, La†	29.88	758.9				ese.			1		3		se.	0	0			clear.
Schr. Edith R. Seward, N. 20° 25′, W. 74° 15′*†	30.24	768.1	81	27.2		ese.			1		5		e.	2 h'r	2 h'r	cross	e.	fair.
S. E. J. Spicer, N. 47° 44′, W. 12° 05′†	30.02	762.5				ese.			4		6		ene.	0	0	mod.	nw.	
S. Enoch Train, Off Sable Id, N. S.*	29.82	757.4				w.			2		0			0	0	short	sw.	clear.
S. Exporter, S 29° 20′, W. 30° 10′*†	30.20	767.1				nnw.			3		6			0	0	long	e.	cloudy.
Ship Festina Lente, Delaware River, Del*	30.08	764.0				ene.			3		10		e.	6 h'r	6 h'r			cloudy.
S. Grecian, S. 36° 48′, E. 87° 32′*†	30.10	764.5	62	16.7		nw.			6		2		sw.	0	0	mod.	wsw.	clear.
Bk Hattie G. McFarland, Boston, Mass*†	30.14	765.5	44	6.7		nnw.			1		3		nw.	0	0			fair.
Bk. Johanne, N 38° 05′. W. 50° 30′*†	30.05	763.3	64	17.8		ssw.			2		2		sw.	0	0	mod.	sw.	fine.
Schr. John L. Thomas, Albuquergue Cays, C. A*†	30.02	762.5				ene.			2		2		e.	0	0			fine.
Bkt. Josephine, N. 19° 32′ W. 73° 55′*†	30.14	765.5	64	17.8		sse.			4		0			1 h'r	1 h'r	sm'h		clear.
Julia H., Havana, Cuba, W. I†	29.99	761.7	76.3	24.6	90	calm			0		2							d. clouds.
Bk. Kate Cann, N. 44° 11′, W. 32° 48′*†	30.07	763.8				sw.			5		5		nw.	0	0	mod.	wsw.	hazy.
Bkt. Kryolith, N. 51° 42′, W. 25° 35′*†	30.14	765.5				nnw.			4		2		nnw.	0	0	mod.	ne.	clear.
S. S. Lamperts, N. 34° 50′, E. 19° 16′*	30.02	762.5	67.0	19.4	74	ese.			1	1 c								blue sky.
Light House Tender, Laurel, Appalachicola Bay, Fla†	30.02	762.5	77	25.0		s.			1		2		calm	0	0			clear.
S. S. Malabar, N. 10° 11′, E. 62° 54′*†	29.86	758.4																
Bg. Medina, Key Francis, Fla.†	30.13	765.3				s.			1		8		s.					fine.
S. S. Nebo, N. 3° 11′, W. 42° 50′†*	29.79	756.7				ne.			2		10		ne.	10 h'r	10 h'r	long	n.	cloudy.
S. Paramita, N. 2° 50′, W. 29° 11′†	29.76	755.9	86	30.0		e.			3		4		ese.	5 h'r	5 h'r	cross	n;se	clear.
Bk. Peppina, Bordeaux, France†	29.99	761.7	62	16.7	77	se.			1		5?		wsw.					cloudy.?
Bg. Potomac, N. 26° 26′, W. 65° 55′*†	30.20	767.1				se.			1				se.			light	se.	fine.
Bk. Rosebud, N. 47° 20′, W. 9° 20′*†	30.00	762.0	58	14.4	69	ne.			3		5		ne.	0	0	long	w.	fine.
S. Salisbury. S. 38° 03′, W. 22° 00′*	29.96	761.0	64.0	17.8	96	n.			3		10		n.	8 h'r	8 h'r	long	nne.	cloudy.
Bk. Stella, S. 21° 52′, W. 90° 32′*	30.11	764.8	71.6	22.0	91	ese.			5		6 k		se.	0	0	sm'h	se.	d. clouds.
Bk. Truro, N. 40° 10′ W. 59° 30′*†	29.85	758.2				nne.			4		10		nne.	18 h'r	18 h'r	long	sw.	rainy.
U. S. F. C. S. Fish Hawk, Quantico, Va.†	30.15	765.8	58	14.4	81	nne.			3		10		nne.	0.20	5.1			cloudy.
Yacht Vega, N. 30° 42′ W. 62° 27′*†	30.40	772.1	69	20.6		s.			1				ssw.	0	0	sm'h		
S. Washington, N. 48° 53′, W. 9° 47′*†	29.92	760.0				ese.			1		5			3 h'r	3 h'r	long	w.	fair.
Bg. Wauburn. N. 27° 25′ W. 66° 02′*†	30.20	767.1				se.			4		3		se.	0	0	sm'h		
S. Wm. Woodbury, N. 37° 05′, W. 68° 36′*†	29.74	755.4	62	16.7	88	n.			6				nw.			long	w.	raining.

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

UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 7, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.97	761.2	66.0	18.9	77	sw.			3		0			0	0	clear	Moiroud.
Algiers			29.98	761.6	65.5	18.6	60	w.			1		0			0	0	clear	Nicolas.
La Calle			29.87	758.8	63.7	17.6	80	nnw.			4		4			1.583	40.2	cloudy	Fonfrède.
Tunis			29.77	756.1															Jacques.
Saida			30.04	762.9															Dumas.
Tebessa			29.90	759.4	46.4	8.0	100	nw.			3		4			0.472	12.0	cloudy	Derché.
Geriville					65.1	18.4	35	n.			2		0			0.102	2.6	clear	Lonchamp.
Laghouat			30.06	763.6	77.0	25.0	68	n.			1		0			0	0	clear	Abraham.
Biskra			29.89	759.2	75.9	24.4	37	n.			3		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	30.03	762.7	30.12	765.0	49.0	9.4	79	wnw.	10	4.5			3			0.12	3.0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.33	745.0	29.85	758.2	79.5	26.4	42	ne.			1		3			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.22	742.3	29.97	761.2	70.2	21.2	54	ne.	3.8	1.7			7			0	0		Dr. Wierzbiski.
Eperies	29.09	738.8	29.95	760.7	73.9	23.3	52	s.			1	5 cs	0	n.		0	0		Julius Mikolik.
Gratz	28.72	729.4	29.91	759.7	74.1	23.4	42	se.			3		2			0	0		Andreas Rospini.
Hermannstadt	28.54	724.8	29.88	758.9	80.8	27.1	42	e.			2		3			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.55	725.2	29.86	758.4	63.7	17.6	82	ne.			1		10			0	0	gloomy	The Staff.
Lemberg	29.01	736.8	29.96	761.0	70.3	21.3	51	nw.			3		2			0	0		Dr. T. Stanecki.
Pola	29.76	755.8	29.87	758.6	73.9	23.3	41	se.			2		5			0	0		I. R. Hydrographic Office.
Szathmar	29.49	749.1	29.94	760.5	77.2	25.1	42	n.			1		0			0	0		Joseph Midlinszky, S. J.
Szegedin	29.66	753.3	29.93	760.1	77.7	25.4	45	e.			1		6			0	0		Karl Stancel.
Trieste	29.81	757.1	30.30	769.7	75.6	24.2	56	calm			0		8			0	0		Rieder.
Vienna	29.21	742.0	29.90	759.5	71.6	22.0	53	se.			2		9			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.98	761.5	30.08	764.0	43.2	6.2	85	e.	19	8.5			10			0.035	0.9	raining	W. Boswell.
Armagh, Observatory	29.69	754.1	29.93	760.2	48.9	9.4	74	s.	12	5.4									S. Oall.
Bidston, Liverpool Obs'y			29.97	761.2	58.9	14.9	55	ese.	9	4.0			7					d. clouds	John Hartnup.
Bolton, Sharples	29.42	747.3	29.95	760.7	55.5	13.1	43	s.	6	2.7			1					d. clouds	Thomas Mackereth. [A.S.
Bradford, Yorkshire																0	0		J. McLandsborough, F. R
Bridgetown, Barbadoes	29.99	761.7	30.02	762.5	84.0	28.9	61	ne.			3		3					d. clouds	Corpl. J. Surgenor, A. H. C.
Cardington			29.94	760.5	63.0	17.2	55	ne.			0.2		7					d. clouds	John McLaren.
Chatham, School M. E.	29.83	757.7	29.96	761.0	60.0	15.6	68	sw.			1		8					d. clouds	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.80	756.9	30.03	762.7	56.0	13.3	57	nnw.			1		7					d. clouds	The Staff.
Fort Napier, Natal	27.64	702.0	29.86	758.4	75.0	23.9	36	nw.			2		7					overcast	Pvt. E. K. Annis, A. H. C.
Free Town, Sierra Leone	29.61	752.1	29.84	757.9	86.0	30.0	72	w.			1		2					d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	29.99	761.7	30.04	763.0	70.5	21.4	74	w.			2		0					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.74	755.4	29.95	760.7	45.0	7.2	63	ne.			3		10 n			blank	blank	gloomy	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.79	756.7	29.96	761.0	64.4	18.0	50	wsw.			1		7					d. clouds	The Staff.
Guernsey	29.70	754.4	29.99	761.7	56.0	13.3	77	w.			1		6					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.93	760.2	29.97	761.2	61.5	16.4	52	w.	3	1.3			7					d. clouds	The Staff.
Leicester, Museum	29.73	755.1	29.98	761.5	59.8	15.4	46	ne.			1		4					d. clouds	J. C. Smith.
Malta, Mediterranean	29.74	755.4	29.82	757.4	72.6	22.6	61	w.			3		4					d. clouds	I. H. Whysall.
Nassau, Bahamas	30.10	764.5	30.14	765.5	77.0	25.0	100	se.			1		10					raining	C. S. Duncombe.
Oscott, St. Mary's College	29.46	748.3	29.98	761.5	58.2	14.6	50	ene.			0-1		6					d. clouds	John Mac Email.
Oxford, Radcliffe Obs'y	29.74	755.4	29.97	761.2	58.8	14.9	49	wnw.			2		7					d. clouds	The Staff.
Plymouth	29.91	759.7	29.98	761.5	60.6	15.9	53	nw.			2		4					d. clouds	John Merrifield.
Sandwick Manse, Orkneys			30.15	765.8	44	6.7	73	ese.	15	6.7			0					blue sky	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.96	761.0	30.02	762.5	68.6	20.3	60	ne.			2		0					blue sky	W. H. Lyne.
Sheffield	29.69	754.1	29.97	761.2	60.4	15.8	55	e.			1		5			0.06	1.5	d. clouds	W. F. Cooper.
Silloth Rectory	29.94	760.5	29.97	761.2	55.5	13.1	67	se.			2		3			0.130	3.3	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.99	761.7	55.5	13.1	53	w.	6	2.7			9					d. clouds	J. New.
Stratfield Turgiss	29.74	755.4	29.96	761.0	62.4	16.9	46	w.			0-1		6					d. clouds	Rev. O. H. Griffiths, F.M.S
Truro, Royal Institution	30.00	762 0	30.03	762 7	59	15.0	64	nw.			7		4					d. clouds	W. Newcombe.
Valencia, Observatory	30.02	762.5	30.04	763.0	53.9	12.2	70	w.	18	8.0			7					d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.04	763.0	30.08	764 0	42	5.6	54	nw.	9	4.0		0	0			0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.09	764.3	30.15	765 8	43	6.1	53	w.	16	7.2		0	0			0	0	clear	G. A. Blair.
Father Point, Quebec*	30.24	768.1	30.26	768.6	39	3.9	65	n.	16	7.2			10 s		n.	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.21	741.9	30.04	763 0	48	8.9	77	s.	8	3.6		5 k	5 n	w.	n.	0	0	cloudy.	James Stewart.
Halifax, N. S*	30.02	762.5	30.15	765.8	44	6.7	53	nw.	13	5.8		0	0			0	0	clear	A. Allison.
Kingston, Ontario*	30.08	764.0	30.43	772.9	42	5.6	54	ne.	9	4.0		2 cs	0			0	0	clear	A. P. Knight, M. A.
Montreal, Quebec*	30.23	767.8	30.44	773.2	43	6.1	49	n.	6	2.7		5 c	0	nw.		0	0	fair	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.70	754.4	30.42	772.7	43	6.1	51	e.	11	4.9		0	0			0	0	clear	Rev. R. Mosley.
Port Dover, Ontario	29.61	752.1	30.32	770.1	44	6.7	84	ne.	5	2.2		0	0			0	0	clear	H. Morgan.
Port Stanley, Ontario	29.60	751.8	30.26	768.6	43	6.1	58	e.	12	5.4		0	0			0	0	clear	M. Payne.
Quebec, Quebec*	30.05	763.3	30.38	771.6	37	2.8	61	nw.			1	0	0			0	0	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	30.00	762.0	30.46	773.7	34	1.1	71	calm	0	0		0	0			0	0	clear	W. H. McIntyre.
Saugeen, Ontario*	29.63	752.6	30.36	771.1	44	6.7	51	e.	4	1.8		0	0			0	0	clear	
St. Andrews, N. B	30.20	767.1	30.26	768.6	39	3.9	54	nw.	8	3.6		0	0			0	0	clear	
Sydney, C. B*	29.92	760.0	29.99	761.7	41	5.0	57	w.	8	3.6		0	0			0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	30.01	762.2	30.41	772.4	43	6.1	45	e.	20	8.9		0	0			0	0	clear	Magnetic Observatory.
Yarmouth, N. S*	30.17	766.3	30.24	768.1	40	4.4	70	nw	6	2.7		0	0			0	*	clear	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.75	755.6	30.01	762.2	41	5.0	82	w.	4	1.8		5 k	5 s			0	0		John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	29.89	759.2	29.92	760.0	67.0	19.4	88	sw.	14.1	6.3		0	8 ks			0	0	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	30.03	762.7	30.06	763.5	66.0	18.9	68	nw.	6	2.7		0	4			0	0		The Staff, for D. Gill.

STATIONS	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observer.
CHINESE (*Sub-series*).																			
Hankow	29.87	758.7	30.15	765.8	58.1	14.5	89	nnw.			2		10			0	0		N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.88	759.0	29.91	759.7	58.6	14.8	91	ese.	5.6	2.5			10 n			0.177	4.5	raining	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.95	760.7	30.00	761.9	52.5	11.4	55	nw.	16	7			8						Oversergent Fischer.
Fanöe	30.03	762.7	30.05	763.2	51.6	10.9	76	wnw.			4		9						Overloerer Lauridsen.
Godthaab, Greenland	29.54	750.4	29.59	751.5	36.5	2.5	70	ne.			2		9			0	0		S. Kleinschmidt.
Stykkisholm, Iceland	30.21	767.4	30.26	768.5	34.5	1.4	89	e.			6		5						A. O. Thorlacius.
Thorshavn	30.21	767.2	30.24	768.1	37.0	2.8	55	ne.	16	7			10						Overloerer Bergh.
Vestervig	29.90	759.5	29.99	761.8	46.0	7.8	64	wnw.			6		1						Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.25	743.0	29.89	759.1	64.8	18.2	62	calm			0		kn		w.	0.020	0.5		M. Labroue, Director.
Alençon, Normal School	29.47	748.4	30.02	762.4	49.6	9.8	88	sw.			1	c	0	se.		0	0		M. Nicot, Director.
Arras, Engineer School	29.67	753.7	29.92	760.0	66.0	18.9	35	nw.			1	c	0	sw.		0	0		M. Fénéon, Command't.
Avignon, Normal School	29.78	756.3	29.85	758.3	73.8	23.2	59	nw.			1					0	0		M. Giraud, Director.
Bar-sur-Seine	29.37	746.0	29.91	759.8	64.8	18.2	62	e.			1		6			0	0	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.70	754.3	29.96	760.9	65.3	18.5	49	e.			2		8	sw.	e.	0.075	1.9	very cloudy	M. Frère Eugène Marl.
Besançon, Normal School	28.91	734.2	29.78	756.3	69.8	21	58	ne.			1	0	2 cn		ne.			raining	M. Gobin, Director.
Bordeaux, Observatory	29.63	752.7	29.89	759.2	67.1	19.5	54	e.			1		8		wsw.	0	0	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.34	745.2	29.87	758.8	67.1	19.5	77	n.			1		k		n.	0	0		M. Postel, Director.
Brest, Naval Observatory	29.76	756.3	30.02	762.5	59.0	15.0	58	ne.			2		5		ne.	0	0		M. de Kermaree, Dir.
Caen, Normal School	29.95	760.8	29.98	761.6	61.2	16.2	73	nnw.			2		8			0	0		M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.59	751.5	29.90	759.5	61.7	16.5	91	s.			3		8			0.173	4.4	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.42	747.3	29.92	759.9	66.6	19.2	70	n.			1		10			0.04	1.	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.56	725.3	29.86	758.5	69.8	21.0	57	ne.			1		5			0.126	3.2	¼ covered	M. Alluard, Director.
Cluny, Normal School	29.11	739.3	29.94	760.4	64.0	17.8	75	n.			1		5			0.12	3.		M. de Villemontée, Dir.
Commercy, Normal School	29.07	738.3	29.92	760.0	69.8	21	50	ne.			1		2 k	ne.	ne.	0	0	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.35	694.6	29.82	757.3	63.5	17.5	65					0	1 kn		s.	0	0		M. Jeanginard, Director.
Grésque, du Rhone	28.78	730.9	29.87	758.8	65.7	18.7	50	sw.			1		9		s.	0	0		M. Kina, Director.
Grenoble, Normal School	29.06	738.1	29.80	757.0	67.6	19.8	62	nnw.			2		kn	sse.	n.	0	0		M. Ablard, Director.
Guéret, Normal School	28.34	719.9	29.97	761.1	64.4	18	56	wsw.			1		n		sw.	0.024	0.6		M. Rivoire, Director.
Lamballe, Normal School	29.71	754.5	29.98	761.4	60.4	15.8	62	n.			1		2		n.	0	0	slightly cl'dy	M. Ollitrault, Director.
Lescar, Normal School	29.33	745.0	29.89	759.1	69.1	20.6	51	s.			1	5 ck	0			0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.91	759.6	30.01	762.2	59.7	15.4	91	sw.			2		5		sw.	0	0	⅛ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.85	732.9	29.84	758.0	65.5	18.6	56	n.			1	c	2 k		s.	0	0		M. André, Director.
Mans, Normal School	29.65	753.2	29.96	760.9	63.5	17.5	52	w.			1		5		w.	0	0	cloudy	M. Piboen, Director.
Marseille, Observatory	29.58	751.4	29.85	758.2	62.8	17.1	69	w.			1		10		e.	0	0		M. Stephan, Director.
Montlouis l'instituteur	24.70	627.4	29.54	750.4	51.8	11.0	56	se.	15.0	6.7			7		s.	0.157	4.0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.71	754.6	29.84	757.8	70.9	21.6	62	s.			2		2			0	0	slightly cl'dy	M. Gaizin, Director.
Nancy, Normal School	29.09	738.9	29.85	758.1	69.4	20.8	55	nnw.			1	ck	0			0.094	2.4		M. Hasse, Director
Nantes, Observatory	29.83	757.6	29.99	761.7	63.5	17.5	48	nw.			0–2	7 ck	0	wsw.		0	0		M. Larocque, Director.
Perpignan, Observatory	29.76	755.9	29.87	758.6	68.4	20.2	.42	s.	9.4	4.2			1			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.11	536.3			34.9	1.6		se.			1		10		se.	0.043	1.1	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.92	734.6	29.97	761.1	64.4	18	58						1	s.		0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.07	636.7			46.6	8.1	98	e.			2		10			0.287	7.3	foggy	M. Alluard, Director.
Rochefort, Naval Obs'y	29.89	759.3	29.93	760.1	69.4	20.8	100	calm			0		8		sw.	0	0	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.70	754.4	29.91	759.7	64.8	18.2	77	wnw.			1		5		w.	0	0	cloudy	M. Mouillot, Director.
Rodez, Normal School	27.76	705.0	29.85	758.2	64.8	18.2	60	se.			1		5			0.386	9.8	cloudy	M. Serger, Director.
Rouen, Normal School	29.90	759.4	29.95	760.6	63.3	17.4	55	sw.			1		5		sw.	0	0	cloudy	M. Brotier.
Saint Maur, Observatory	29.78	756.5	29.95	760.7	63.3	17.4	55	e.			1		9		ssw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.19	741.5	29.91	759.8	64.4	18.0	82	ne.			1		8			0.047	1.2	very cloudy	M. Baillaud, Director.
Tours	29.74	755.4	29.91	759.8	63.7	17.6	74	sw.			1		kn	sw.	sw.	0.012	0.3		
Versailles, Observatory	29.45	748.1	29.95	760.6	65.1	18.4	47	se.			1					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.67	753.7	29.97	761.1	66.4	19.1	46	se.			1		7		sw.	inap.	inap.		M. Marié Davy, Director.
GERMAN.																			
Bamberg	29.08	738.5	29.93	760.1	69.4	20.8	50	n.			2	0	6 ks		nw.	0	0		Prof. Dr. Hoh.
Berlin	29.77	756.1	29.94	760.4	69.8	21.0	49	calm			0		5			0	0		Prof. Dr. Arndt.
Breslau	29.48	748.8	30.01	762.3	68.2	20.1	55	sse.			2		9			0	0		Royal University Obs'y.
Carlsruhe	29.45	748.1	29.88	758.9	68.7	20.4	56	ne.			1		9	sw.		0	0		Albert Senz.
Cassel	29.20	741.6	29.91	759.7	72.1	22.3	42	n.			2		3	n.				thud'rstorm	Dr. H. Möhl.
Frankfort-on-the-Main	29.54	750.4	29.90	759.4	69.6	20.9	53	ne.			1		2			0	0		Physical Society.
Friedrichshafen	28.43	722.0	29.82	757.4	65.3	18.5	87	sw.			2		8	ssw.		1.169	29.7		Wilhelm, Chief Tel.
Hamburg	29.95	760.7	30.04	763.1	56.1	13.4	60	n.			4		2			0	0		E. Preller.
Kiel	29.98	761.4	29.99	761.8	52.7	11.5	66	nw.			2		4			0.409	10.4		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.54	750.4	29.95	760.8	66.9	19.4	51	n.			2		7	wnw.		0	0		H. Leppig, Asst.
Magdeburg	29.79	756.6	29.97	761.3	67.6	19.8	55	n.			1	c	6 ks	nne.		0	0		Dr. Assmann.
Memel	29.97	761.3	30.02	762.5	57.6	13.9	67	wsw.			2	0	0					clear	Issermann.
Munich	28.09	713.5	29.95	760.7	66.0	18.9	61	ne			2		9	n.		0	0		Central Station.
Neufahrwasser	29.93	760.3	29.95	760.7	67.6	19.8	51	e.			1		8	wsw.		0	0		A. Lothes.
Neustadt, Palatinate																			Dicknether.
Stuttgart	28.95	735.3	29.81	757.1	69.4	20.8	61	n.					7	n.		0	0		Prof. Dr. Schoder.
Wustrow	30.02	762.5	30.04	763.1	53.4	11.9	98	wnw.			3	0	3 s			0.063	1.6		Profs. Brandes & Reimer
GREEK.																			
Athens	29.63	752.7			79.5	26.4		sw.			2.0		5			0	0		Schmidt & Wourlisoh.
INDIAN.																			
Kurrachee	29.71	754.6	29.76	755.9	85.7	29.8	76	wsw.	37.0	16.5			4		w.	0	0	misty	
Deesa	29.17	741.0	29.62	752.4	101.5	38.6	30	wsw.	20.9	9.3			5		ssw.	0	0	d. clouds	
Bombay	29.81	757.2	29.85	758.1	86.9	30.5	66	w.	11.0	4.9			1	wnw.		0	0	d. clouds	
Poona, Yarrowda	27.95	710.0	29.77	756.1	89.3	31.8	26	w.	26.0	11.6			1	w.		0	0	d. clouds	
Bellary	28.28	718.2	29.69	754.0	100.0	37.8	13	w.	10.3	4.6			0			0	0	blue sky	
Belgaum	27.29	693.2	29.79	756.7	83.3	28.5	54	wsw.	13.0	5.8			0			0	0	misty	
Lahore	28.92	734.5	29.64	752.7	95.2	35.1	22	calm	1.6	0.7			10			0	0	overcast	
Roorkee	28.75	730.3	29.62	752.5	92.6	33.7	27	nw.	3.5	1.6			0			0	0	misty	
Agra	29.06	738.2	29.61	752.1	96.1	35.6	21	nw.	7.4	3.3			0			0	0		
Nagpur	28.59	726.3	29.59	751.5	102.5	39.2	17	nw.	5.6	2.5			7		w.	0	0	d. clouds	
Jubbulpore	28.32	719.3	29.63	752.7	93.7	34.3	24	w.	4.8	2.2			5		n.	0	0	d. clouds	
Lucknow	29.36	745.7	29.74	755.3	74.7	23.7	77	ene.	3.3	1.5			0			0.34	8.6	blue sky	
Allahabad	29.40	746.0	29.70	754.5	91.2	32.9	35	nw.	5.8	2.6			10			0	0	overcast	
Patna	29.60	751.8	29.78	756.5	78.7	25.9	55	ene.	11.8	5.3			6	ene.	ene.	0.03	0.8	d. clouds	
Hazaribagh	27.74	704.7	29.79	756.7	66.6	19.2	66	wnw.	10.7	4.8			8	nw.	se.	0.27	6.9	thund'r st'm	
Cuttack	29.69	754.1	29.77	756.2	87.2	30.7	58	s.	5.1	2.3			6			0.01	c.3	d. clouds	
Calcutta, Alipore	29.75	755.6	29.77	756.1	82.5	28.1	70	e.	3.0	1.3			9			0.35	8.9	d. clouds	
Dhubri	29.72	754.8	29.84	757.9	72.0	22.2	82	n.	19.2	8.6			10		sw.	0.03	0.8	overcast	
Chittagong	29.72	754.9	29.81	757.2	85.2	29.6	58	wsw.	5.1	2.3			1			0	0	blue sky	
Sibsagar	29.56	750.9	29.90	759.4	79.6	26.4	67	ne.	3.7	1.6			8	sw.	sw.	0	0	d. clouds	
Jeypore	28.23	717.0	29.62	752.2	97.6	36.4	19	n.	5.2	2.3						0.05	1.3	blue sky	
Zanzibar, Africa	29.91	759.7			83.3	28.5	68	sse.	9.1	4.1			8			0.07	1.8	gloomy	
ITALIAN.																			
Udine	29.52	749.7	29.92	759.9	73.6	23.1	49	sw.	0.7	0.3			7			0	0		Prof. Giovanni Clodig.
Milan	29.41	747.0	29.93	760.0	60.1	15.6	78	n.	6.9	3.1			10	nw.		0.087	2.2		Prof. Schiaparelli.
Padua	29.80	756.8	29.91	759.6	70.3	21.3	45	ne.	9.8	4.4			10	se.		0.016	0.4		Prof. Dott. Lorenzoni.
Moncalieri	29.03	737.3	29.03	760.1	57.0	13.9	90	e.	4.3	1.9			10			0.496	12.6		Prof. P. F. Denza.
Genoa	29.61	752.1	29.80	757.0	65.1	18.4	60	n.	9.4	4.2			10	ne.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.03	711.9	29.95	760.8	52.5	11.4	95	w.			2		10			0.594	15.1		Prof. D. C. Brano.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	29.90	759.5	29.95	760.7	63.1	17.3	81	e.	5.6	2.5			10	n.		0	0		Prof. Luigi Guidi.
Florence	29.52	749.9	29.77	756.2	72.1	22.3	44	ne			6		10	s.		0	0		Prof. Costantino Pitter.
Leghorn	29.60	751.9	29.69	754.1	70.3	21.3	56	ene.	3.1	1.4			10	s.		0.012	0.3		Prof. P. Monte.
Rome	29.50	749.2	29.67	753.5	79.5	26.4	25	e.	12.5	5.6			10			0	0		Prof. P. S. Ferrari.
Lecce	29.67	753.6	29.91	759.8	78.8	26.0	29	se.	18.6	8.3			8			0	0		Prof. C. de Giorgi.
Cosenza	28.97	735.7	29.84	757.8	68.4	20.2	74	wnw.	1.8	0.8			10	nw.		0	0		Prof. D. Conti.
Cagliari	29.50	749.4	29.70	754.3	61.5	16.4	87	nw.			2		10			0.787	20.0		Prof. A. Pacinotti.
Palermo	29.50	749.2	29.74	755.5	74.8	23.8	47	ssw.	24.8	11.1			6	ssw.		0	0		Prof. G. Ciacciatore.
Syracuse	29.78	756.3	29.82	757.4	75.6	24.2	59	ese.	9.8	4.4			9	s.		0	0		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.18	741.2	29.68	753.9	77.7	25.4	34	sse.	3.8	1.7			10	se.		0	0		Prof. T. Brioschi.
Stelvio	22.14	562.3			38.3	3.5	56	ne.			2		10			0.189	4.8	covered	Prof. P. F. Denza.
Valdobbia	22.13	562.1			33.6	0.9	89	e.			2		10			0	0	covered	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.75	755.6	29.79	756.6	43.2	6.2	82	w.	8.2	3.7			10ks;s			0.040	1.0	overcast	K. Ogawa.
Hakodate	29.73	755.1	29.74	755.4	43.5	6.4	78	w.	21.0	9.4			4		nw.	0.285	7.2	fair	
Hiroshima, I. M. Obs'y	29.93	760.2	29.95	760.7	56.8	13.8	69	nne.	6.8	3.0		2 cs	0			0	0	clear	J. Sogawa.
Kanazawa	29.92	759.9	30.02	762.5	50.0	10.0	81	se.	6.4	2.9		0	0			0	0	clear	S. Endo.
Kioto	29.82	757.4	29.99	761.7	51.2	10.7	69	nnw.	0.9	0.4		0	0			0	0	clear	M. Tojima.
Kochi	29.97	761.2	30.00	762.0	61.6	16.4	72	ese.	4.3	1.9		0	0			0	0	clear	K. Kusunose.
Nagasaki, I. M. Obs'y	29.79	756.6	29.99	761.7	58.7	14.8	82	calm	0	0		7 cs	0			0	0	cloudy	S. Takehayashi.
Niigata	29.93	760.2	29.97	761.2	51.8	11.0	70	w.	17.0	7.6		ck	10 s		nw.	0.010	0.2	overcast	M. Morita.
Nobiru	29.80	756.9	29.82	757.4	47.3	8.5	74	nnw.	16.9	7.5		0	1 s			0.050	1.3	fair	H. Midzushina.
Sapporo					39.5	4.2	86	nw.	19.8	8.8			10					raining	
Tokei Obs'y, Yeddo	29.80	756.9	29.87	758.7	53.1	11.7	92	ssw.	2.0	0.9		0	0			0	0	clear	The Staff.
Wakayama	29.94	760.5	29.99	761.7	57.2	14.0	72	ene.	1.3	0.6		1 cs	0			0	0	clear	Y. Kuwamura.
MAURITIUS.																			
Mauritius Observatory	29.74	755.4	29.92	760.0	78.5	25.8	69	nnw.	7.0	3.1		7ck;cs	1 k			0.10	2.5	clear	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.58	599.0	29.80	757.0	59.0	15.0	74	ese.				0	2 k;s			0	0	foggy	Prof. Vicente Fernandez.
Leon	24.35	618.5	30.02	762.5	58.6	14.8	76	n.			1	9 c	0	sw.		inap.	inap.	dense fog	Prof. M. Leal.
Mazatlan	29.62	752.4	29.88	759.0	68.0	20.0	89	e.	11.0	4.9		0	5 n		e.			light fog	F. Quijano, C. E.
Mexico, Central Obs'y	23.02	584.6	30.00	762.0	55.2	12.9	53	calm	0	0		8 ks	1 k	w.		0	0	cloudy	The Staff.
Morelia	24.11	612.3	30.14	765.5	61.7	16.5	81	se.			2	6	0			0	0		M. Tena, M. D.
Pabellon, Aguascalientes	23.81	604.8	29.75	755.6	59.5	15.3	50	wsw.			3	0	1 s			0	0	clear	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.33	592.5	30.06	763.5	51.8	11.0	93	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
San Luis Potosi	24.10?	610.3?	29.97	761.2	66.4	19.1	39	sw.			1	2	0	w.		0	0	clear	G. Barroeta, M. D.
Zacatecas	22.37	568.2	29.93	760.1	50.2	10.1	43	sw.	20.7	9.2		0	0			0	0	clear	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.99	761.7	29.99	761.7	66.4	19.1		wsw.			2					0	0		
Groningen	29.98	761.4	30.03	762.8	57.4	14.1		ene.			1					0	0		
Helder	30.02	762.4	30.02	762.4	54.9	12.7		e.			1					0	0		
Hellevoetsluis	29.98	761.6	29.98	761.6	67.1	19.5	62	se.			1					0	0		
Utrecht	29.95	760.8	30.00	762.0	62.6	17.0	57	se.			1		5			0	0	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.87	758.8	29.94	760.4	38.7	3.7	51	nnw.	22	10			7			0	0		
Brono	29.84	758.0	29.88	759.0	35.6	2.0	73	wnw.	9	4			6			0.024	0.6		
Christiania	29.72	755.0	29.87	758.8	46.9	8.3	46	ne.	4	2.			6			0.323	8.2		
Gjesvær	29.72	754.8	29.74	755.4	36.3	2.4		calm			0		10						
Lodingen	29.76	755.9	29.81	757.1	36.0	2.2	56	wnw.			2		8			0	0		
PORTUGUESE.																			
Angra, Azores					59.0	15.0	60	n.	4.3	1.9			4			0	0		Dr. J. A. Sampaio.
Campo Major	28.92	734.6	29.93	760.1	56.8	13.8	75	ssw.	7.4	3.3			10			0.035	0.9		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.02	762.6	30.11	764.8	66.7	19.3	52	s.					4			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.54	750.3	29.90	759.4	58.5	14.7	81	sw.	14.3	6.4			7			0.268	6.8		The Staff.
Ponta Delgada, Azores	30.30	769.5	30.37	771.3	61.2	16.2	61	n.	6.3	2.8			3			0	0		
Saint Paul de Loando	29.72	754.8	29.92	759.9	77.4	25.2	94	w.	0.7	0.3			10			0	0		
Serra da Estrella	25.12	638.1	29.93	760.3	38.5	3.6	100	se.	14.3	6.4			10			0.449	11.4	light fog	
RUSSIAN.																			
Akmolinski	28.46	722.8	29.48	748.9	69.1	20.6	55	sw.	13	6		0	5			0.087	2.2		Major K. Lasarew.
Archangel	29.75	755.7	29.77	756.2	34.3	1.3	94	wnw.	18	8			10			0.079	2.0		Capt. Seeliwerstow.
Astrakhan	30.06	763.6	29.98	761.5	70.5	21.4	24	nne.	11	5		0	3 s			0	0	light clouds	Capt. Wisganow.
Barnaul	29.17	741.0	29.65	753.0	72.1	22.3	26	sw.	18	8			3			0	0	light clouds	Meteorological Obs'y.
Dorpat	29.67	753.5	29.90	759.5	63.7	17.6	51	ssw.	9	4		8 ck	0			0	0		Observatory.
Ekaterinburg	28.80	731.6	29.74	755.5	58.5	14.7	36	sw.	18	8		c;ck	8 s			0	0	solar halo	Meteorological Obs'y.
Kasan	29.49	749.1	29.75	755.7	69.8	21.0	50	w.	18	8		0	2			0	0		Observatory.
Kertch	30.03	762.7	30.05	763.2	65.3	18.5	61	ne.	9	4		0	1 s			0	0		Lagorio & Sastyrex.
Kieff	29.30	744.2	29.90	759.4	80.1	26.7	26	ssw.	11	5		c	5 k;ks			0	0		Observatory.
Lugan	29.85	758.1	30.04	763.1	72.9	22.7	33	ene.	4	2			1			0	0		Meteorological Obs'y
Moscow	29.34	745.3	29.78	756.5	77.7	25.4	45	wnw.	4	2			0						Meteorological Obs'y.
Nikolaiev	29.98	761.6	30.06	763.4	82.0	27.8	32	sw.	4	2			0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.83	757.7	29.92	759.9	32.7	0.4	94	calm	0	0			10			0	0		Lieut. Iwanow.
Pekin, China	29.73	755.1	29.87	758.7	66.7	19.3	53	calm	0	0		0	8 n			0	0		Physical Observatory
St. Petersburg	29.88	758.9	29.89	759.3	50.0	10.0	67	nnw.	4	2		cs	6 k			0	0		Central Physical Obs'y.
Semipalatinsk	29.04	737.6	29.66	753.4	73.9	23.3	22	se.	9	4		9 c	0			0	0		Major Lasareu.
Tashkend, Laboratory	28.14	714.8	29.63	752.5	77.7	25.4	56	w.	4	2			10			0.350	8.9	light clouds	Teich, A. M.
Tiflis	28.59	726.2	30.00	761.9	60.6	15.9	57	e.	13	6			10 n					raining	Physical Observatory
Vladivostock	29.76	755.9	29.83	757.6	47.5	8.6	74	calm	0	0		0	0			0	0		
Warsaw	29.58	751.4	29.99	761.8	67.3	19.6	55	sw.	4	2			10 ks						Astronomical Obs'y.
Wilna	29.54	750.3	29.95	760.7	64.9	18.3	54	nw.	4	2			3			0	0		Berg, Assistant.
Yeniseisk	29.43	747.5	29.71	754.6	60.3	15.7	57	s.	4	2			7			0.028	0.7		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.79	756.6	29.89	759.2	68.0	20.	59	s.	4.7	2.1			2 k			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	29.85	758.1	29.91	759.6	68.0	20.0	57	se.	0.9	0.4			10			0	0	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.97	685.1	29.94	760.5	51.1	10.6	70	n.	2.0	0.9			10			0	0	covered	Domingo Martin.
Madrid, Royal Obs'y	27.69	703.3	29.87	758.7	64.0	17.8	43	sw.	14.3	6.4		0	8			0	0	very cloudy	The Staff.
Murcia, Met. Obs'y	29.75	755.7	29.91	759.7	73.2	22.9	54	sse.	4.0	1.8		3	3	nw.		0	0	cloudy	Olayo Diaz, Director.
Santiago, Met. Obs'y	28.97	735.7	29.86	758.4	57.4	14.1	73	calm	0	0			10			0.185	4.7	covered	R. Gil Vallaueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	29.92	759.9	29.99	761.6	77.6	25.3	82	se.	6.3	2.8		1 ck	0			0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.88	759.0	29.94	760.4	83.6	28.7	80	s.	8.8	3.9		0	4 kn		sw.	0	0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.91	759.6	30.00	762.1	63.0	17.2	61	w.	3.3	1.5		0	0		w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.01	762.2	30.10	764.5	75.9	24.4	94	calm	0	0		1 c	5 kn	e.	e.	0.087	2.2	cloudy	Manuel Maese.
Tuguegarao, Philippine Id's	29.83	757.7	29.96	761.0	81.0	27.2	76	nnw.	5.6	2.5		0	0			0	0	fine	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.73	755.1	29.77	756.1	38.5	3.6	77	s.			2		10			0	0		
Umea	29.76	756.0	29.82	757.3	38.5	3.6	83	n.			2		10			0	0		
Hernosand	29.80	756.8	29.85	758.1	35.6	2.0	75	nne.			2		10			0.039	1.0		
Stockholm	29.64	752.9	29.82	757.4	51.4	10.8	61	w.			4		7			0	0		
Wisby	29.80	756.9	29.86	758.4	58.6	14.8	68	w.			4		0			0	0		
Sub-series.																			
Upsala	29.68	753.9	29.77	756.1	48.0	8.9	68	w.	13.2	5.9			10		wsw.	0.004	0.1		S. G. Fineman.
SWISS.																			
Geneva	28.45	722.5	29.84	757.8	65.7	18.7	57	nnw			2					0.520	13.2		The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
TURKISH.																			
Constantinople	.....	.....	30.06	763.6	62.6	17.0	64	ne.	11	5.0	.....	.....	0	.....	.....	0	0	.....	The Observatory.
Valona	.....	.....	30.04	762.9	76.6	24.8	.....	sw.	.....	.....	1	.....	0	.....	.....	0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.92	759.9	74.1	23.4	70	sw.	.....	.....	2	0	3 ks	.....	sw.	0	0	.....	Prof. C. V. A. van Dyck
UNITED STATES.																			
Albany, New York	30.34	770.6	30.42	772.7	48	8.9	42	n.	8	3.6	.....	7 c	0	.....	.....	0	0	fair	J. O. Barnes.
Alpena, Michigan	29.70	754.4	30.36	771.1	43	6.1	68	se.	1	0.4	.....	0	0	.....	.....	0	0	clear	Jas. J. Fitzgerald.
Atlanta, Georgia	28.87	733.3	30.04	763.0	67.5	19.7	75	e.	5	2.2	.....	7 k	0	calm	.....	0	0	fair	H. Hall.
Atlantic City, New Jersey	30.30	769.6	30.31	769.9	45.5	7.5	83	n.	6	2.7	.....	5 c	2 s;fg	w.	w.	0.26	6.6	fair	Jas. M. Watson.
Augusta, Georgia	29.88	758.9	30.07	763.8	71	21.7	82	calm	0	0	.....	1 c	0	.....	.....	0	0	clear	John Healy.
Baltimore, Maryland	30.32	770.1	30.37	771.4	47	8.3	77	ne.	4	1.8	.....	.....	10 s	.....	ne.	0.10	2.5	cloudy	Robert Seybolt.
Barnegat, New Jersey	30.32	770.1	30.34	770.6	47.0	8.3	74	e.	12	5.4	.....	7 cs	0	sw.	.....	0.33	8.4	fair	Chas. F. Merritt.
Bismarck, Dakota	28.12	714.2	29.90	759.4	44	6.7	86	se.	10	4.5	.....	2 c	0	se.	.....	0	0	clear	Cyrus Cramer.
Boise City, Idaho	27.02	686.3	29.86	758.4	45	7.2	76	nw.	12	5.4	.....	0	0	.....	.....	0	0	clear	B. E. Light.
Boston, Massachusetts	30.22	767.6	30.38	771.6	47.0	8.3	42	n.	6	2.7	.....	6 c	0	w.	.....	0	0	fair	O. B. Cole.
Brownsville, Texas	29.52	749.8	29.56	750.8	79	26.1	91	nw.	12	5.4	.....	.....	10 s	.....	nw.	inap.	inap.	cloudy	M. McCarty.
Buffalo, New York	29.58	751.3	30.32	770.1	44.6	7.0	57	ne.	10	4.5	.....	0	hz.	.....	.....	0	0	clear	Wm. Finn.
Burlington, Vermont	30.14	765.5	30.43	772.9	41.0	5.0	57	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	G. C. Schaeffer.
Cairo, Illinois	29.53	750.0	29.93	760.2	61.6	16.4	89	se.	7	3.1	.....	.....	10 s	.....	se.	0	0	threatening.	W. H. Ray.
Campo, California	27.17	690.1	29.70	754.4	43.3	6.3	76	sw.	2	0.9	.....	.....	10 s	.....	sw.	0	0	cloudy	W. H. Clendenon.
Camp Thomas, Arizona	26.88	682.7	29.55	750.6	44.5	6.9	98	se.	.....	.....	1	3 cs	0	w.	.....	0.09	2.3	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.27	768.8	30.29	769.4	50	10.0	86	ne.	26	11.6	.....	.....	10 s	.....	.....	0.04	1.0	cloudy	J. E. Lanouette.
Cape May, New Jersey	30.29	769.4	30.32	770.1	45	7.2	83	ne.	7	3.1	.....	.....	10 ks	.....	ne.	0.17	4.3	cloudy	W. Bolten.
Cedar Keys, Florida	29.98	761.5	30.00	762.0	78	25.6	76	se.	14	6.3	.....	0	7 k	.....	s.	0	0	fair	F. W. Mixer.
Champaign, Illinois	29.20	741.7	30.00	762.0	46.0	7.8	86	ne.	13	5.8	.....	.....	10 s	.....	ne.	0.03	0.8	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.03	762.7	30.08	764.0	76	24.4	74	s.	3	1.3	.....	5 ck	0	s.	.....	0	0	fair	J. H. Smith.
Charlotte, N. Carolina	29.29	744.0	30.13	765.3	55.0	12.8	93	ne.	11	4.9	.....	.....	10 s	.....	ne.	1.02	25.9	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.22	742.2	30.03	762.7	65.0	18.3	84	se.	2	0.9	.....	3 k	6 s	w.	w.	inap.	inap.	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.74	603.0	29.61	752.1	38.4	3.6	100	s.	18	8.0	.....	.....	10 n	.....	.....	0.57	14.5	light rain	E. McGovern.
Chicago, Illinois	29.41	747.0	30.11	764.8	43.3	6.3	73	ne.	8	3.6	.....	.....	10 s	.....	.....	0.35	8.9	cloudy	J. Mitchell.
Chincoteague, Virginia	30.27	768.8	30.29	769.4	47	8.3	86	ne.	13	5.8	.....	.....	10 s	.....	e.	0.21	5.3	cloudy	V. P. Temple.
Cincinnati, Ohio	29.44	747.8	30.09	764.3	54	12.2	74	e.	5	2.2	.....	7 k	0	se.	.....	0	0	fair	R. B. Watkins.
Cleveland, Ohio	29.47	748.5	30.20	767.1	46.5	8.1	71	e.	4	1.8	.....	.....	10 s	.....	e.	0.06	1.5	cloudy	J. B. Newlin.
Coleman City, Texas	27.75	704.8	29.54	750.3	58	14.4	93	sw.	6	2.7	.....	0	6 s	.....	.....	1.06	26.9	fair	L. Dorman.
Columbus, Ohio	29.26	743.2	30.10	764.5	49	9.4	77	e.	9	4.0	.....	.....	10 s	.....	.....	0.08	2.0	cloudy	D. Cuthbertson.
Concho, Texas	27.61	701.3	29.51	749.5	58	14.4	93	w.	1	0.4	.....	0	0	.....	.....	0.16	4.1	clear	W. W. McConihe.
Davenport, Iowa	29.40	746.7	30.04	763.0	46	7.8	68	e.	13	5.8	.....	.....	10 s	.....	e.	0	0	cloudy	R. R. Martin.
Dayton, Washington T'y	28.25	717.5	30.00	762.0	42	5.6	80	sw.	8	3.6	.....	0	0	.....	.....	inap.	inap.	clear	H. Clifford.
Deadwood, Dakota	25.15	638.8	29.66	753.4	46	7.8	80	sw.	4	1.8	.....	10 cs	0	sw.	.....	0.01	0.3	cloudy	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	64	17.8	100	nw.	7	3.1	.....	.....	10 n	.....	.....	1.67	42.4	light rain	D. J. Carr.
Delaware Breakwater, Del.	30.29	769.4	30.31	769.9	46	7.8	100	ne.	14	6.3	.....	3 cs	6 ks;s	w.	ne.	0.12	3.0	cloudy	A. Schneider.
Denison, Texas	28.71	729.2	29.50	749.3	66.0	18.9	100	calm	0	0	.....	.....	10 n	.....	.....	1.75	44.4	light rain	J. McGlone.
Denver, Colorado	24.43	620.5	29.59	751.6	45.0	7.2	80	se.	2	0.9	.....	.....	10 s	.....	calm	0.50	12.7	cloudy	F. M. Neal.
Des Moines, Iowa	29.11	739.4	30.00	762.0	44	6.7	83	e.	9	4.0	.....	.....	10 s	.....	e.	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.52	749.8	30.22	767.6	47.0	8.3	63	ne.	14	6.3	.....	0	0	.....	.....	0	0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.14	689.3	29.69	754.1	46	7.8	100	ne.	17	7.6	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	E. A. Thomas.
Dubuque, Iowa	29.40	746.7	30.10	764.5	44.8	7.1	60	e.	6	2.7	.....	.....	10 s	.....	calm	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.55	750.6	30.25	768.3	37	2.8	61	n.	3	1.3	.....	6 cs	0	calm	.....	0	0	fair	N. B. Conger.
Eagle Pass, Texas	28.83	732.3	29.63	752.6	60.0	15.6	87	calm	0	0	.....	0	1 s	.....	.....	0.07	1.8	clear	F. Belford.
Eagle Rock, Idaho	25.02	635.5	29.70	754.4	35	1.7	75	s.	9	4.0	.....	.....	10 s	.....	.....	0	0	cloudy	J. M. Clifford.
Eastport, Maine	30.20	767.1	30.27	768.8	41	5.0	52	nw.	15	6.7	.....	0	0	.....	.....	0	0	clear	J. H. Melton.
El Paso, Texas	25.91	658.1	29.55	750.6	56	13.3	23	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.54	750.3	30.26	768.6	47	8.3	68	ne.	8	3.6	.....	0	0	.....	.....	0	0	clear	R. H. Paxton.
Escanaba, Michigan	29.64	752.8	30.30	769.6	42	5.6	65	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	C. Dill.
Fort Apache, Arizona	24.72	627.9	29.54	750.3	39	3.9	92	w.	1	0.4	.....	.....	10 s	.....	calm	0.67	17.0	cloudy	W. O. Barnes.
Fort Assinnaboine, Montana	26.95	684.5	29.79	756.7	41	5.0	82	sw.	15	6.7	.....	0	7 s	.....	sw.	0.41	10.4	fair	B. O. Lenoir.
Fort Bennett, Dakota	28.25	717.5	29.81	757.2	48	8.9	86	se.	12	5.4	.....	7 cs	0	se.	.....	0	0	fair	A. Pritchard.
Fort Benton, Montana	27.02	686.3	29.81	757.2	42	5.6	52	w.	5	2.2	.....	5 k;cs	0	.....	.....	inap.	inap.	fair	G. W. Davis.
Fort Buford, Dakota	27.84	707.1	29.82	757.4	50	10.0	74	e.	8	3.6	.....	10 cs	0	calm	.....	0	0	cloudy	A. H. Bell.
Fort Custer, Montana	26.54	674.1	29.64	752.8	47	8.3	93	n.	8	3.6	.....	.....	10 s	.....	calm	0.21	5.3	cloudy	V. Verge.
Fort Davis, Texas	24.82	630.4	29.54	750.3	47	8.3	54	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. Williams.
Fort Elliott, Texas	26.90	683.2	29.60	751.8	52	11.1	80	ne.	4	1.8	.....	.....	10 s	.....	ne.	inap.	inap.	cloudy	W. J. Cundall.
Fort Gibson, Indian T'y	28.96	735.6	29.52	749.8	65.6	18.7	90	e.	14	6.3	.....	.....	10 s	.....	s.	0.81	20.6	cloudy	J. B. Campbell.
Fort Grant, Arizona	24.02	610.1	28.64	727.4	46	7.8	58	sw.	1	0.4	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	T. J. Macgowan.
Fort Keogh, Montana	27.22	691.4	29.66	753.4	50	10.0	86	se.	10	4.5	.....	.....	10 n	.....	se.	0.09	2.3	light rain	W. B. Stockman.
Fort Macon, North Carolina	30.18	766.6	30.19	766.8	57	13.9	93	ne.	20	8.9	.....	.....	10s;hz	.....	.....	0	0	cloudy	L. Leonardy.
Fort McKavett, Texas	27.46	697.5	29.70	754.4	63	17.2	48	s.	4	1.8	.....	0	0	.....	.....	0.85	21.6	clear	J. E. Thatcher.
Fort Missoula, Montana	26.59	675.4	29.89	759.2	39	3.9	82	sw.	1	0.4	.....	.....	10 ks	.....	.....	0	0	cloudy	H. J. Jones.
Fort St. Michaels, Alaska	29.67	753.6	29.70	754.4	24	— 4.4	100	sw.	10	4.5	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	A. P. Leavitt.
Fort Shaw, Montana	26.16	664.5	29.76	755.9	37	2.8	82	w.	6	2.7	.....	1 cs	0	.....	.....	0.59	15.0	clear	A. L. Mathews.
Fort Sill, Indian Territory	28.28	718.3	29.50	749.3	63.5	17.5	88	se.	10	4.5	.....	.....	10 n	.....	.....	0.47	11.9	heavy rain	T. Cleary.
Fort Stevenson, Dakota	28.06	712.7	29.89	759.2	46	7.8	86	se.	10	4.5	.....	.....	10 cs	.....	s.	inap.	inap.	cloudy	W. Burrows.
Fort Verde, Arizona	.....	.....	.....	.....	45.2	7.3	63	sw.	.....	.....	1	0	2 s	.....	sw.	0.16	4.1	clear	D. Brooks.
Fort Washakie, Wyoming	24.12	612.6	.....	.....	42.5	5.8	91	w.	2	0.9	.....	.....	10 n	.....	.....	0.34	8.6	light rain	T. M. Ambler.
Fredericksburg, Texas	27.80	706.1	29.52	749.8	58	14.4	83	w.	4	1.8	.....	0	0	.....	.....	3.68	93.5	clear	H. S. Miles.
Galveston, Texas	29.50	749.3	29.54	750.3	76	24.4	91	s.	24	10.7	.....	.....	10 s	.....	sw.	0.43	10.9	threatening.	E. O'C. MacInerney.
Grand Haven, Michigan	29.52	749.8	30.18	766.6	44.0	6.7	48	ne.	12	5.4	.....	0	0	.....	.....	0	0	clear	W. A. Reid.
Hatteras, North Carolina	30.17	766.3	30.19	766.8	55	12.8	100	ne.	24	10.7	.....	9 k	0	ne.	.....	0	0	cloudy	R. M. Crawford.
Helena, Montana	25.61	650.5	29.78	756.4	44	6.7	56	se.	12	5.4	.....	4 ck	4 s	w.	w.	0.04	1.0	cloudy	S. Wheaton.
Henrietta, Texas	28.48	723.4	29.46	748.3	62.0	16.7	100	n.	10	4.5	.....	.....	10 n	.....	.....	0.82	20.8	heavy rain	J. W. Byram.
Huron, Dakota	28.59	726.2	29.94	760.5	42	5.6	83	se.	14	6.3	.....	1 cs	0	.....	.....	0.02	0.5	clear	S. W. Glenn.
Indianapolis, Indiana	29.24	742.7	30.04	763.0	51	10.6	72	e.	3	1.3	.....	3 k	7 s	nw.	e.	inap.	inap.	cloudy	O. Schutze
Indianola, Texas	29.54	750.3	29.57	751.1	61.6	16.4	100	n.	33	14.8	.....	.....	10 n	.....	n.	0.84	21.3	thund'r st'm	L. A. Reed.
Jacksboro, Texas	28.41	721.6	29.56	750.8	63	17.2	93	sw.	8	3.6	.....	.....	10 n	.....	s.	0.81	20.6	thun'r st'rm	J. P. Sherry.
Jacksonville, Florida	30.01	762.2	30.05	763.3	73	22.8	84	s.	5	2.2	.....	2 cs	0	.....	.....	0.19	4.8	clear	J. W. Smith.
Keokuk, Iowa	29.33	745.0	29.98	761.5	45.0	7.2	96	e.	8	3.6	.....	.....	10 s	.....	e.	inap.	inap.	cloudy	F. Z. Gosewisch
Key West, Florida	29.96	761.0	29.98	761.5	80.0	26.7	79	s.	7	3.1	.....	0	0	.....	.....	0.37	9.4	clear	L. M. Melbourne.
Kittyhawk, North Carolina	30.24	768.1	30.26	768.6	50	10.0	93	ne.	29	13.0	.....	.....	10 s	.....	ne.	0.34	8.6	cloudy	E. A. Beals.
Knoxville, Tennessee	29.02	737.1	30.04	763.0	62.9	17.2	90	ne.	8	3.6	.....	4 ck	3 s	w.	.....	0.01	0.3	fair	J. A. Cody.
La Crosse, Wisconsin	29.37	746.0	30.13	765.3	45	7.2	45	e.	7	3.1	.....	0	0	.....	.....	0	0	clear	S. C. Emery.
La Mesilla, New Mexico	25.76	654.3	29.52	749.8	47.3	8.5	65	calm	0	0	.....	0	9 s	.....	.....	0	0	cloudy	N. D. Lane.
Leavenworth, Kansas	28.94	735.1	29.82	757.4	46	7.8	93	e.	10	4.5	.....	.....	10 s	.....	e	0.04	1.0	cloudy	A. W. Browne.
Lewiston, Idaho	29.13	739.9	29.97	761.2	49	9.4	80	se.	1	0.4	.....	0	2 s	.....	se.	0	0	clear	J. M. Burlew.
Little Rock, Arkansas	29.35	745.5	29.66	753.4	67	19.4	100	e.	11	4.9	.....	.....	10 n	.....	e.	2.91	73.9	light rain	W. U. Simmons.
Los Angeles, California	29.43	747.5	29.83	757.7	54.1	12.3	90	e.	1	0.4	.....	.....	10 s	.....	calm	0	0	cloudy	E. F. Kubel.
Louisville, Kentucky	29.43	747.5	29.98	761.5	56	13.3	86	n.	7	3.1	.....	0	0	.....	.....	0	0	clear	H. C. Smyth.
Lynchburg, Virginia	29.61	752.1	30.29	769.4	47.0	8.3	77	ne.	4	1.8	.....	.....	10 n	.....	ne.	0.02	0.5	light rain	W. R. Bushby.
Madison, Wisconsin	29.14	740.1	30.14	765.5	39	3.9	73	ne.	12	5.4	.....	hz.	0	calm	.....	0	0	clear	C. A. Shaw.
Marquette, Michigan	29.61	752.1	30.33	770.4	40	4.4	57	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Gilligan.
Memphis, Tennessee	29.48	748.8	29.82	757.4	68	20.0	84	e.	8	3.6	.....	.....	10 s	.....	.....	0.06	1.5	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.43	747.5	30.17	766.3	41	5.0	82	ne.	14	6.3	.....	0	0	.....	.....	0	0	clear	W. Line.
Mobile, Alabama	29.86	758.4	29.90	759.4	74	23.3	90	se.	7	3.1	.....	0	8 ks	.....	se.	0.01	0.3	cloudy	J. D. Paxton.
Montgomery, Alabama	29.75	755.6	29.98	761.5	69	20.6	90	s.	5	2.2	.....	.....	10 s	.....	s.	0	0	cloudy	J. B. McLaughlin.

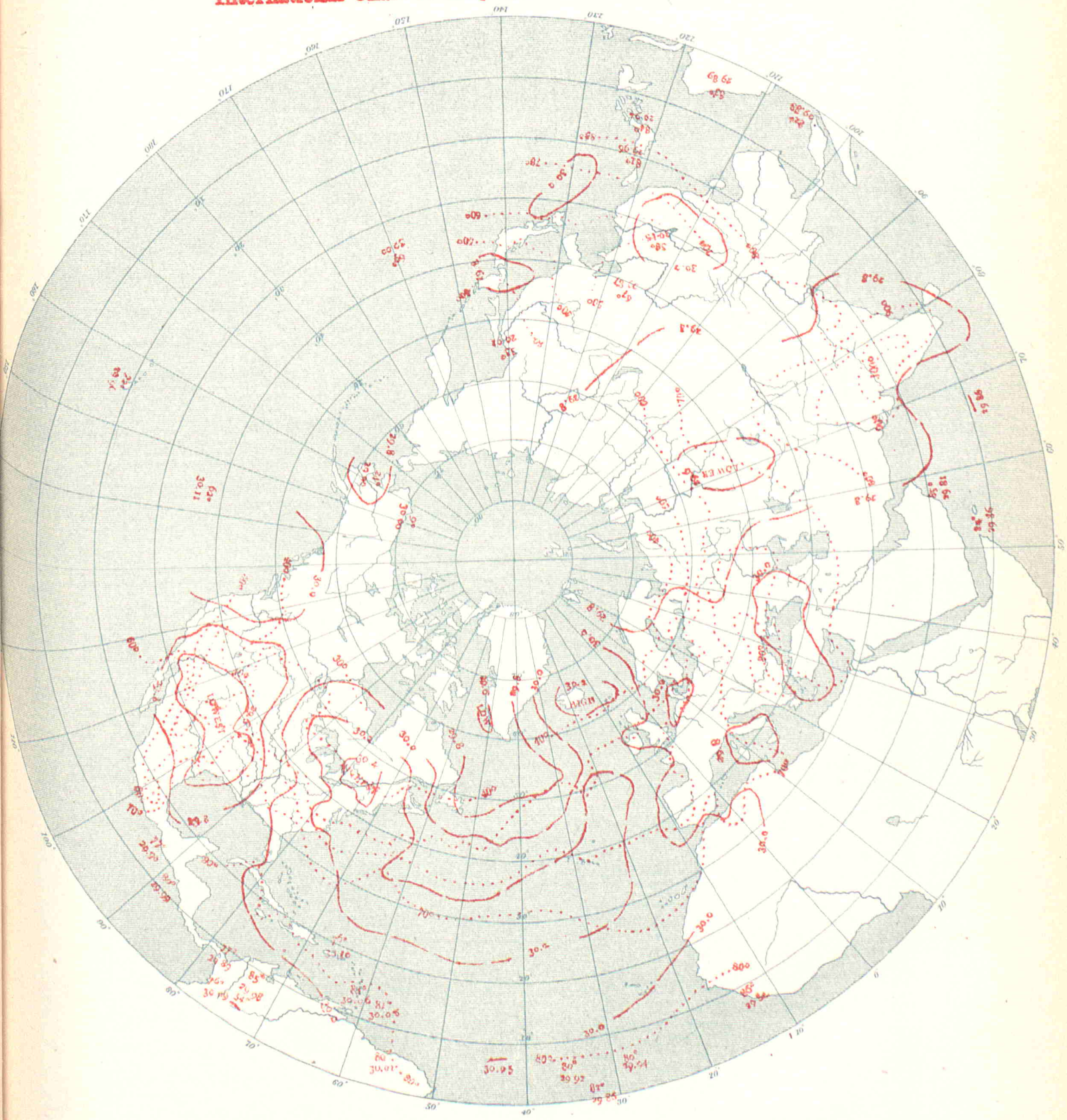
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Moorhead, Minnesota	29.05	737.9	30.03	762.7	41.1	5.1	73	se.	5	2.2	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.18	740.7	30.17	766.3	49.0	9.4	77	e.	8	3.6	.....	.....	10 s	.....	e.	0.03	0.8	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H	23.90	607.0	30.08	764.0	17.0	— 8.3	73	nw.	24	10.7	.....	0	1 s	.....	nw.	0	0	clear	J. G. Linsley.
Nashville, Tennessee	29.42	747.3	29.95	760.7	65.5	18.6	90	calm	0	0	.....	.....	10 ks	.....	w.	0.15	3.8	cloudy	L. A. Jesunofsky.
New Haven, Connecticut	30.26	768.6	30.38	771.6	44	6.7	56	ne.	8	3.6	.....	9 cs	0	w.	.....	0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.32	770.1	30.38	771.6	45	7.2	60	n.	4	1.8	.....	6 k	0	calm	.....	0	0	fair	J. G. Lynch.
New Orleans, Louisiana	29.74	755.4	29.79	756.7	76.0	24.4	85	s.	19	8.5	.....	6 cs	4 s	sw.	s.	0.08	2.0	cloudy	L. Dunne.
Newport, Rhode Island	30.31	769.9	30.36	771.1	47.0	8.3	50	ne.	7	3.1	.....	6 c	0	calm	.....	0	0	fair	W. McGillivray.
New River, N. Carolina	.....	.....	.....	.....	57	13.9	94	ne.	.....	.....	1	.....	10 s	.....	.....	0	0	cloudy	C. C. Corbin.
New Shoreham, Rhode I'd	30.32	770.1	30.35	770.9	44.0	6.7	76	ne.	17	7.6	.....	4 cs	2 s	w.	ne.	0	0	fair	W. Davis.
New York, New York	30.19	766.8	30.37	771.4	46	7.8	60	ne.	16	7.2	.....	3 cs	5 s	n.	.....	0.36	9.1	cloudy	E. B. Garriott.
Norfolk, Virginia	30.25	768.3	30.28	769.1	50	10.0	86	ne.	7	3.1	.....	.....	10 s	.....	ne.	0.29	7.4	cloudy	J. T. Elker.
North Platte, Nebraska	26.89	683.0	29.76	755.9	47.6	8.7	91	e.	10	4.5	.....	.....	10 n	.....	.....	0.15	3.8	light rain	E. F. Brady.
Olympia, Washington T'y	30.12	765.0	30.16	766.1	39.0	3.9	89	s.	5	2.2	.....	0	1 s	.....	calm	0	0	clear	J. Dascomb.
Omaha, Nebraska	28.78	731.0	29.94	760.5	45.0	7.2	83	e.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	A. Pollak.
Ogdamie, Pt. Barrow, Alas.	29.98	761.5	30.00	762.0	8.6	—13.0	100	ne.	19	8.5	.....	.....	10 n	.....	.....	0.03	0.8	light snow.	P. H. Ray.
Oswego, New York	30.06	763.5	30.39	771.9	42.7	5.9	69	ne.	7	3.1	.....	0	0	.....	.....	0	0	clear	S. W. Beall.
Palestine, Texas	29.00	736.6	29.55	750.6	64.0	17.8	100	w.	12	5.4	.....	.....	10 n	.....	s.	2.96	75.2	thnd'r str'm	L. M. Pindell.
Pensacola, Florida	29.89	759.2	29.92	760.0	75.7	24.3	90	se.	11	4.9	.....	0	4 s	.....	se.	0	0	fair	M. McGauran.
Philadelphia, Pa	30.26	768.6	30.36	771.1	45	7.2	76	ne.	10	4.5	.....	5 ck	3 ks	w.	ne.	0.31	7.9	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.44	443.0	29.50	749.3	15	— 9.4	100	se.	4	1.8	.....	.....	10 n	.....	se.	0.33	8.4	light snow	L. M. Dey.
Pioche, Nevada	23.77	603.7	29.69	754.1	35	1.7	69	n.	10	4.5	.....	0	0	.....	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.38	746.2	30.18	766.6	47.6	8.7	74	ne.	9	4.0	.....	.....	10 s	.....	w.	0.83	21.1	cloudy	J. H. Bryce.
Poplar River, Montana	27.67	702.8	.....	.....	.....	.....	.....	se.	.....	.....	1	.....	10 s	.....	calm	0	0	cloudy	U. D. Maxwell.
Port Eads, Louisiana	29.83	757.7	29.84	757.9	76.1	24.5	90	se.	18	8.0	.....	5 c	2 k	w.	se.	0	0	fair	H. G. Christian.
Port Huron, Michigan	29.60	751.8	30.28	769.1	45.2	7.3	58	ne.	11	4.9	.....	0	0	.....	.....	0	0	clear	W. O. Bailey.
Portland, Maine	30.30	769.6	30.35	770.9	45.0	7.2	37	n.	14	6.3	.....	0	0	.....	.....	0	0	clear	D. C. Murphy.
Portland, Oregon	30.10	764.5	30.17	766.3	48.0	8.9	77	nw.	8	3.6	.....	.....	10 s	.....	nw.	0.08	2.0	cloudy	M. L. Hearne.
Portsmouth, N. Carolina	.....	.....	.....	.....	58	14.4	80	ne.	26	11.6	.....	.....	10 ks	.....	ne.	0	0	cloudy	F. P. Chaffee.
Prescott, Arizona	24.41	620.0	29.51	749.5	42	5.6	62	s.	2	0.9	.....	4 k	0	calm	.....	0	0	fair	J. Mc N. Wright.
Provincetown, Mass	30.32	770.1	30.35	770.9	44	6.7	76	n.	12	5.4	.....	3 cs	2 s	nw.	.....	0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	29.96	761.0	29.97	761.2	77	25.0	82	e.	13	5.8	.....	0	7 k	.....	s.	inap.	inap.	fair	W. J. Evans.
Red Bluff, California	29.57	751.1	29.94	760.5	54.0	12.2	48	nw.	10	4.5	.....	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.36	745.7	29.60	751.8	80	26.7	58	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	P. M. Wilson.
Rochester, New York	29.70	754.4	30.36	771.1	43	6.1	74	e.	8	3.6	.....	2 c	0	n.	.....	0	0	clear	F. Gillam.
Roseburg, Oregon	29.63	752.6	30.18	766.6	47.5	8.6	86	nw.	1	0.4	.....	.....	10 n	.....	w.	0.01	0.3	light rain	J. J. Nanry.
Sacramento, California	29.75	755.6	29.83	757.7	60.4	15.8	54	nw.	19	8.5	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.37	746.0	29.96	761.0	51.0	10.6	100	ne.	9	4.0	.....	.....	10s; hz	.....	.....	0	0	cloudy	J. H. Webber.
St. Paul, Minnesota	29.28	743.7	30.13	765.3	43.5	6.4	68	e.	10	4.5	.....	0	hz.	.....	.....	0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.19	741.4	30.05	763.3	47	8.3	68	se.	12	5.4	.....	8 ck	0	s.	.....	0	0	fair	G. Kingsbury.
Salt Lake City, Utah	25.34	643.6	29.66	753.4	45	7.2	41	nw.	11	4.9	.....	5 k	0	nw.	.....	0	0	fair	J. Craig.
San Antonio, Texas	28.85	732.8	29.55	750.6	59	15.0	87	sw.	4	1.8	.....	0	1 s	.....	calm	1.15	29.2	clear	E. Lane.
San Diego, California	29.67	753.6	29.74	755.4	59.3	15.2	74	s.	4	1.8	.....	4 k	6 s	s.	s.	0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.49	749.0	30.16	766.1	48	8.9	77	e.	16	7.2	.....	.....	10 s	.....	.....	0.09	2.3	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.32	770.1	30.36	771.1	46.5	8.1	68	ne.	16	7.2	.....	8 k	0	ne.	.....	0.32	8.1	cloudy	B. A. Blandon.
San Francisco, California	29.85	758.2	29.92	760.0	51	10.6	80	w.	5	2.2	.....	0	0	.....	.....	0	0	clear	N. Gorom.
Santa Fé, New Mexico	22.81	579.4	29.42	747.3	35	1.7	53	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Savannah, Georgia	29.99	761.7	30.08	764.0	78	25.6	69	s.	5	2.2	.....	2 cs	0	.....	.....	0	0	clear	H. W. Ford.
Shreveport, Louisiana	29.33	745.0	29.57	751.1	73	22.8	90	se.	12	5.4	.....	.....	10 k; s	.....	se.	0.18	4.6	cloudy	E. N. Meekins.
Silver City, New Mexico	23.94	608.1	29.49	749.0	37	2.8	66	calm	0	0	.....	0	7 ks	.....	calm	0.27	6.9	fair	J. B. Wallace.
Sitka, Alaska	29.96	761.0	30.02	762.5	38.1	3.4	82	se.	8	3.6	.....	.....	10 n	.....	se.	0.13	3.3	light snow	J. J. McLean.
Smithville, North Carolina	30.10	764.5	30.14	765.5	65	18.3	100	ne.	12	5.4	.....	.....	10 s	.....	ne.	0.30	7.6	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.90	708.6	29.95	760.7	43	6.1	76	s.	9	4.0	.....	9 cs	0	.....	.....	0.31	7.9	cloudy	D. Moore.
Springfield, Illinois	29.33	745.0	30.00	762.0	48	8.9	86	e.	10	4.5	.....	.....	10 s	.....	e.	0.01	0.3	cloudy	T. B. Jennings.
Springfield, Massachusetts	30.27	768.8	30.40	772.1	43.2	6.2	60	w.	1	0.4	.....	9 cs	0	w.	.....	0	0	cloudy	T. S. Outram.
Springfield, Mo	28.34	719.8	29.82	757.4	59	15.0	93	e.	12	5.4	.....	.....	10 n	.....	e.	0.03	0.8	light rain	J. B. Marbury.
Starkville, Miss	29.47	748.5	.....	.....	73.2	22.9	82	se.	10	4.5	.....	9 cs	0	.....	.....	0.95	24.1	cloudy	M. J. Wright.
Stockton, Texas	26.64	676.6	29.64	752.8	56.3	13.5	42	w.	4	1.8	.....	0	5 s	.....	w	0	0	fair	J. O'Dowd.
Thatcher's Island, Mass	30.28	769.1	30.33	770.4	45.0	7.2	72	n.	9	4.0	.....	0	0	.....	.....	0	0	clear	F. R. Day.
Toledo, Ohio	29.47	748.5	30.15	765.8	46.5	8.1	78	e.	14	6.3	.....	.....	9 ks	.....	se.	0.05	1.3	cloudy	A. Buell.
Tucson, Arizona	27.23	691.6	29.57	751.1	62	16.7	35	se.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	J. L. Whiteside.
Umatilla, Oregon	29.71	754.6	30.08	764.0	48	8.9	71	w.	20	8.9	.....	0	1 s	.....	.....	inap.	inap.	clear	J. Daly.
Uvalde, Texas	28.60	726.4	29.55	750.6	55	12.8	93	calm	0	0	.....	0	0	.....	.....	0.48	12.2	clear	E. C. Imlay.
Vicksburg, Mississippi	29.51	749.5	29.76	755.9	73	22.8	84	se.	4	1.8	.....	.....	10 s	.....	se.	0.61	15.5	cloudy	H. T. Brisbane.
Visalia, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. L. Seward.
Washington, D. C	30.24	768.1	30.35	770.9	44.0	6.7	93	n.	3	1.3	.....	.....	10 n	.....	nw.	0.27	6.9	light rain	B. M. Purssell.
West Las Animas, Colorado	25.69	652.5	29.55	750.6	48	8.9	100	e.	13	5.8	.....	.....	10 n	.....	calm	1.39	35.3	light rain	J. Grover.
Williamsport, Pa	29.75	755.6	30.35	770.9	41	5.0	86	e.	2	0.9	.....	.....	10 ks	.....	w.	0.60	15.2	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.10	764.5	30.15	765.8	64	17.8	84	ne.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	A. T. Sherwood.
Winnemucca, Nevada	25.50	647.7	29.85	758.2	40	4.4	59	nw.	15	6.7	.....	0	5 ks	.....	nw.	inap.	inap.	fair	J. R. Williams.
Yankton, Dakota	28.67	728.2	29.95	760.7	46	7.8	77	se.	24	10.7	.....	.....	10 ks	.....	se.	0	0	cloudy	J. H. Atfield.
Yuma, Arizona	25.39	746.5	29.54	750.3	64.0	17.8	48	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.06	560.3	.....	.....	54.0	12.2	79	calm	0	0	.....	5 ck; k	2ks; s	n.	ne.	0.01	0.3	fair	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.05	763.3	30.06	763.5	81	27.2	91	e.	.....	.....	.....	5 k	5 ks	e.	e.	1.00	25.4	cloudy	J. A. Racker.
Buenaventura, U. S. C	30.06	763.5	30.09	764.3	76	24.4	90	se.	4	1.8	.....	.....	10 ks	.....	n.	0.02	0.5	cloudy	J. I. Plume.
Havana, Cuba, W. I	29.95	760.7	30.00	762.0	80	26.7	79	se.	2.4	1.1	.....	0	1 ks	.....	calm	0.05	1.3	clear	A. Van Caneghem.
Kingston, Jamaica, W. I	30.02	762.5	30.03	762.7	81.1	27.3	72	ese.	1	0.4	.....	2 cs	1 s	e.	e.	0	0	fair	Robert Johnston.
Magua, San Domingo	.....	.....	.....	.....	75	23.9	.....	calm	.....	.....	0	0	0	.....	.....	0	0	.....	S. M. Pike.
Navassa, W. I	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. M. Everett.
Paramaribo, S. A	30.00	762.0	30.01	762.2	79.5	26.4	89	e.	.....	.....	2	5 k	6 ps	e.	e.	0.060	1.5	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.53	750.0	29.98	761.5	85	29.4	72	n.	.....	.....	1	.....	8 k	.....	n.	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A	.....	.....	.....	.....	.....	.....	94	se.	.....	.....	1	0	4 ks	.....	se.	0	0	fair	Earl Flint.
Santiago de Cuba, W. I	29.99	761.7	30.01	762.2	79	26.1	78	calm	0	0	.....	2 ck	0	.....	.....	0	0	fair	Robert Mason.
York Factory, B. A	29.95	760.7	30.00	762.0	29.0	— 1.7	94	n.	11	4.9	.....	4 k	5 s	n.	n.	0	0	cloudy	W. Wood.

Stations and vessels.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
British Naval.																		
H. M. S. Alert, Gloriosa Island, Madgascar	29.89	759.2	84	28.9	71	ene.			3		3							d. clouds.
H. M. S. Alexandra, N. 37° 18′, E. 16° 26′	29.81	757.2	69	20.6	73	se.			5		9	ese.				3	ese.	d. clouds.
H. M. S. Amethyst, Funchal, Maderia Island	30.07	763.8	65.7	18.7	90	se.			1		1	nne'						blue sky.
H. M. S. Champion, S. 8° 45′, W. 101° 15′			77	25.0	82	ese.			4		4	calm				3	ese.	d. clouds.
H. M. S. Cleopatra, Singapore, Malay Peninsula	29.88	758.9	81.5	27.5	91	w.			1		3							d. clouds.
H. M. S. Comus, Labuan Island, Borneo	29.89	759.2	82.5	28.1	100	calm			0		1	s.						blue sky.
H. M. S. Coquette, Alexandria, Egypt	29.99	761.7	70	21.1		wnw.			1		0							blue sky.
H. M. S. Dido, N. 15° 20′, W. 64° 15′	30.11	764.8	79	26.1		e.			4		3	e.				3	e.	d. clouds.
H. M. S. Druid, N. 15° 25′, W. 81° 21′	29.94	760 5	80.5	26.9	86	e.			3		3	e.				3	e.	d. clouds.
H. M. S. Dwarf, S. 32° 18′, W. 58° 03′	30.24	768.1	39.5	4.2	100	sw.			3–4		6					3	sw.	squally.
H. M. S. Eclipse, S. 10° 03′, E. 42° 37′	29.91	759.7	82	27.8		sse.			2		3					3	sse.	d. clouds.
H. M. S. Emerald, S. 46° 50′, W. 178° 40′	29.66	753.4	53	11.7	?	calm			0		2					5	ese.	d. clouds.
H. M. S. Euryalus, Trincomalee, Ceylon	29.80	756.9	88	31.1	91	s.			1		3	calm						d. clouds.
H. M. S. Fantome, N. 14° 39′, W. 68° 04′	30.01	762.2	81	27.2		e.			4		7	e.				3	e.	d. clouds.
H. M. S. Flying Fish, N. 32° 34′, E. 129° 35′	29.96	761.0	65.5	18.6	90	nnw.			1		7					2	nw.	d. clouds.
H. M. S. Fawn, N. 11° 23′, E. 52° 33′	29.76	755.9	83.5	28.6	83	sse.			2		3	sse.				1	sse.	d. clouds.
H. M. S. Gannet, S. 27° 03′, W. 70° 51′	30.07	763.8	60	15.6	84	n.			2		10							gloomy.
H. M. S. Garnet, Colonia, Rio de La Platta, Uruguay	30.27	768.8	45	7.2	76	s.			6		0							squally.
H. M. S. Griffon, N. 34° 00′ W. 64° 45′	30.20	767.1	70	21.1	84	wsw.			3		5	w.				4	wsw.	d. clouds.
H. M. S. Inconstant, Simon's Bay, Cape Colony	30.07	763.8	66	18.9	90	wnw.			2		3	wnw.						d. clouds.
H. M. S. Iris, N. 36° 20′, E. 19° 00′	29.91	759.7	69	20.6	75	ese.			4		5	ese.				3	ese.	d. clouds.
H. M. S. Iron Duke, N. 28° 17′ E. 129° 18′	30.03	762.7	61	16.1	94	ese.			2		3	e.						d clouds.
H. M. S. Kingfisher, S. 24° 30′, W. 72° 20′	30.09	764.3	61	16.1		wsw.			1		9	calm				1–2	sw.	d. clouds.
H. M. S. Lark, S. 8° 14′, E. 156° 30′	29.93	760.2	80.3	26.8		e.			1		10					1	e.	overcast.
H. M. S. Magpie, N. 34° 56′, E. 139° 52′	29.83	757.7	59.3	15.2	84	e.			1		0							blue sky.
H. M. S. Northampton, Bermuda, W. I.	30.15	765.8	73	22.8	93	sw.			3		8	sw.						d. clouds.
H. M. S. Orontes, N. 25° 30′ W. 71° 50′	30.13	765.3	77.5	25.3	98	se.			3		9					2	se.	d. clouds.
H. M. S. Phœnix, N. 17° 29′, W. 69° 55′	30.07	763.8	80	26.7	100	e.			2		8					2	e.	squally.
H. M. S. Rambler, Benguela, Benguela	29.88	758.9	78	25.6	95	nw.			1		1					1	ssw.	blue sky.
H. M. S. Rocket, N. 48° 27′, W. 123° 27′	30.09	764.3	48	8.9	93	w.			3		7	wsw.						d. clouds.
H. M. S. Tenedos, N. 44° 40′ W. 63° 35′	30.14	765.5	43	6.1	58	nnw.			3		0							blue sky.
H. M. S. Triumph, Caldera, Chili	30.13	765.3	60	15.6	88	nnw.			1–2		8	calm						d. clouds.
H. M. S. Tyne, N. 33° 18′, E. 26° 14′	30.02	762.5	70	21.1	90	wsw.			1		1							blue sky.
H. M. S. Woodlark, N. 19° 00′, E. 58° 18′	29.81	757.2	84.5	29.2	87	ssw.			4		3	sw.				5	sw.	d. clouds.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verd Islands	30.00	762.0	75.0	23.9	86	ne.			3		0					2		blue sky.
Tamega, Macao, China	29.94	760.4	78.8	26.0	92	sse.			2		8			2 h'r	2 h'r			d. clouds.
Swedish Naval.																		
Balder, N. 47° 05, W. 10° 08′	30.07	763.7	54.3	12.4	76	ne.			3		4							d. clouds.
United States Naval.																		
Navy Yard, Pensacola, Fla	29.88	758.9	77	25.0	95	se.	14	6.3			8		se.	0	0			fair.
N. Yard, Portsmouth, N. H	30.34	770.6	46	7.8	40	ne.	12	5.4			2		nw.	0	0			fair.
Naval Hospital, Yokohama, Japan	29.67	753.6	59	15.0	79	calm			0		0			0	0			clear.
Adams, N. 29° 02′, W. 115° 50′	29.71	754.6	59	15.0	94	nw.			4		10		nw.	0	0	long	wnw.	cloudy.
Alaska, N. 4° 04′ W. 81° 23′	29.91	759.7	72	22.2	80	s			2		0			0	0	sm'h		clear.
Alert, Kobe, Japan*	29.84	757.9	64	17.8	48	nne.			1		2		calm	0	0	sm'h		clear.
Alliance, Hampton Roads, Va	30.30	769.6	52	11.1	86	ne.			5		10			light	light	sm'h		overcast.
Ashuelot, Kobe, Japan	29.96	761.0	62	16.7	61	nne.			1		1							clear.
Brooklyn, Montevideo, Uruguay	30.10	764.5	56	13.3	51	s.	20	8.9			8		s.	0.16	4.1	rg'h	s.	cloudy.
Colorado, New York, N. Y	30.34	770.6	48	8.9	56	ne.	6	2.7			8		w.	0.31	7.9			light mist.
Enterprise, Norfolk, Va*	30.24	768.1	54	12.2	87	e.			3		10		calm					cloudy.
Essex, S. 30° 42′, W. 45° 12′	29.68	753.9	59	15.0	59	wnw.			7–9		5		nw.			r'gh	nw.	threatening.
Franklin, Norfolk, Va	30.28	769.1	51	10.6	86	ene.	9.6	4.3			10		ne.	0.09	2.3			cloudy.
Galena, Port Mahon, Minorca Island	29.95	760.7	66	18.9	84	e.			1		5					sm'h		fair.
Independence, Mare Island, Cal	29.78	756.4	54	12.2	74	wnw.			5		0			0	0			clear.
Iroquois, Mare Island, Cal	29.85	758.2	55	12.8	68	wsw.			3		0							clear.
Kearsarge, Hampton Roads, Va†	30.32	770.1	52	11.1	100	ene.			4		10		ne.			sm'h		cloudy.
Lackawana, Callao, Peru†	30.14	765.5	62	16.7	88	calm			0		5		se.	0	0			foggy.
Lancaster, Port Mahon, Minorca Island*	29.89	759.2	67	19.4	79	e.			2		2		e.					fair.
Marion, S. 27° 08′, W. 34° 39′	29.79	756.7	76	24.4	95	nw.			5–6		10		nw.	sh'rs	shr's	mod.	nnw.	squally.
Michigan, Erie, Pa	30.21	767.3	46	7.8	92	ne.			4		1		n.					clear.
Minnesota, Newport, R. I	30.38	771.6	50	10.0	72	n.	5	2.2			5							fair.
Monocacy, Kobe, Japan	30.00	762.0	63	17.2	67	nnw.			1		2		n.					fair.
New Hampshire, Newport, R. I	30.30	769.6	47	8.3	62	ne.			3		8					sm'h	ne.	fair.
Nipsic, Port Mahon, Minorca Island	29.90	759.4	66	18.9	59	ene.			2		8					sm'h		cloudy.
Onward, Callao, Peru†	30.11	764.8	60	15.6	100	calm			0		10		n.			long	w.	foggy.
Palos, Kobe, Japan	30.00	762.0	59	15.0	59	e.			1		5		calm					fair.
Passaic, Washington, D. C	30.41	772.4	45	7.2	?	ne.			1		10							rainy.
Pensacola, Callao, Peru	30.00	762.0	60	15.6	100	calm	0	0			10			0	0	sm'h		foggy.
Portsmouth, N. 49° 42′ W. 6° 40′	30.03	762.7	51	10.6	100	n.			3		5					sm'h		fair.
Powhatan, Hampton Roads, Va	30.20	767.1	53	11.7	80	e.			4		10							cloudy.
Quinnebaug, Port Mahon, Minorca Island	29.91	759.7	65	18.3	68	ene.			2		5		e.			sm'h		fair.
Ranger, Mazatlan, Mexico*	29.80	756.9	72	22.2	80	se.			3		2		se.	0	0	long	se.	fair.
Richmond, Kobe, Japan*	29.93	760.2	63	17.2	57	calm			0		0			0	0			clear.
Saratoga, N. 49° 28′, W. 5° 43′	30.01	762.2	54	12.2	80	ne.			2–3		2		ne.	0	0	sm'h	ne.	fair.
Shenandoah, New York, N. Y*	30.41	772.4	48	8.9	70	ne.			1		8		calm			sm'h		cloudy.
St. Louis, League Island, Pa	30.55	776.0	46	7.8	77	n.	2	0.9			5		nw.	0.30	7.6			fair.
Swatara, Chefoo, China*	29.86	758.4	62	16.7	66	calm			0		10		calm			sm'h		cloudy.
Tennessee, Fort Monroe, Va.	30.31	769.9	52	11.1	86	ene.	14	6.3			10			0.04	1.0			squally.
Vandalia, Norfolk, Va*	30.28	769.1	52	11.1	93	ene.			2		10		calm					overcast.
Wabash, Boston, Mass	30.41	772.4	47	8.3	70	n.	3	1.3			5		w.	0	0			fair.
Wachusetts, Fort Wrangle, Alaska	29.98	761.5	36	2.2	100	e.			1		8		calm			sm'h		cloudy.
Wyoming, Port Royal, S. C	30.06	763.5	72	22.2	90	se	1	0.4			5		se.	0	0			fair.
Yantic, Norfolk, Va*†	30.26	768 8	52	11.1	93	ne.			3		10							misty.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 54° 25′, W. 20° 47′*	30.09	764.3	50	10.0	78	w.			2		6		sw.	1 h'r	1 h'r	2	ne.	d. clouds.
S. S. Prussian, Liverpool, England*	29.93	760.2	54	12.2		calm			0		1		se.	0	0			clear.
S. S. Waldensian, N. 50° 36′, W. 20° 10′*	30.30	769.6	50	10.0		sw.			4		10			0	0	light	nnw.	overcast.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, N. 47° 49′, W. 30° 28′	29.83	757.7	58	14.4	87	ssw.			6		10		s.			r'gh	s.	overcast.
S. S. Indiana, Liverpool, Eng†	30.08	764.0	57	13.9	68	se.			2		10		calm	0	0			cloudy.
S. S. Lord Clive, N. 43° 57′, W. 45° 09′*	29.89	759.2				w.			4		2		w.	3 h'r	3 h'r	high	sw.	fine.
S. S. Ohio, N. 39° 58′, W 65° 04′†	30.25	768.3	56	13.3	93	n.			2		10?		nw.			mod.	nne.	clear?
ANCHOR LINE.																		
S. S. Devonia, N. 40° 30′, W. 68° 26′†	30.27	768.8	48	8.9		nnw.			1		3		w.			sm'h		clear.
S. S. Elysia, N. 48° 13′, W. 31° 27′†	29.83	757.7	57	13.9		ssw.			4		10		ssw.	7 h'r	7 h'r	r'gh	ssw.	drizzling.
S. S. Utopia, Cadiz, Spain†	30.14	765.5	68	20.0	60	s.			1		3		sw.	0	0			clear.
ATLAS LINE.																		
S. S. Allsa, Savanilla, U. S. C†	29.90	759.4	84	28.9	87	e.			2		2		ne.	0	0			clear.
S. S. Alvo, N. 37° 35′ W. 74° 04′	30.26	768.6	63	17.2		nne.			6		8		nne.	rain	rain	mod.	nne.	cloudy.
S. S. Athos, Gonaives, Hayti, W. I.	29.41	747.0				calm			0		2		e.	0	0	sm'h		fine.
S. S. Claribel, N. 19° 07′, W. 72° 46′*†	30.17	766.3	81	27.2	82	calm			0		2		calm	1 h'r	1 h'r	sm'h		fine.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S 36° 14′, W. 12° 17′	30.25	768.3	67	19.4	82	ene.			5		5							d. clouds.
British Merchant, S. 31° 24′, E. 38° 51′	30.28	769.1	70	21.1	56	ne.			4		4							d. clouds.
Bk Coppename, N. 45° 00′, W. 16° 10′	30.20	767.1	54	12.2	61	nne.			5		2							blue sky.
S. S. Earnock, N. 30° 45′ W. 40° 00′	30.36	771.1	72	22.2	90	ese.			2		1							blue sky.
Glencairn, S. 24° 30′, E. 65° 00′	29.93	760.2	78	25.6	86	ne.			6		10							showery.
Bkt. Hope, N. 7° 19′ W. 35° 25′	29.92	760.0	80	26.7	74	nne.			3–6		8							misty.
S. S. Minho. N. 7° 08′, W. 28° 38′	29.94	760.5	79.8	26.6	78	ene.			4		5							misty.
CROMWELL LINE.																		
S. S. Hudson, N. 32° 50′, W. 77° 10′†	30.05	763.3	77	25.0		nne.			3		3		ne.	0	0	mod.	ne.	fair.
CUNARD LINE																		
S. S. Marathon, N. 49° 55′, W. 26° 11′	30.15	765.8	52	11.1		s.			6		10		s.	0	0	mod.	s.	cloudy.
S. S. Parthia, N. 49° 16′ W. 29° 02′†	29.85	758.2				ssw.			6		7		sw.	5 h'r	5 h'r	con.	nw.	overcast.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. France, N. 41° 57′, W. 50° 56′†	30.03	762.7	42.8	6.0		nnw.			3				nw.	0	0	sm'h	wnw.	clear.
S. S. St. Germain, N. 49° 42′ W. 8° 04′	30.16	766.1	51.8	11.0		nw.			2				nw.	0	0	sm'h	nw.	clear.
S. S. Ville de Marseilles, N. 37° 12′, E. 1° 20′*†	29.90	759.4	66	18.9		w.			3		1		w.	0	0	sm'h		clear.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S Bohemia, N. 40° 38′, W. 70° 50′*†	30.00?	762.0?				ne.			2		1			0	0	sm'h	ne.	fine.
S. S. Gellert, Plymouth England	30.04	763.0	53	11.7		ne.			1		2		ne.	0	0	sm'h	nw.	fair.
S. S. Lessing, N. 49° 47′, W. 8° 03′	30.17	766.4	57	13.9		nw.			4		10		wnw.	0	0	sm'h	wnw.	cloudy.
S. S. Silesia, Hamburg, Germany†	30.09	764.3	60	15.6		ne.			4		0			0	0			fair.
JOHNSTON LINE.																		
S. S. Thanemore, N. 48° 56′ W. 16° 47′	30.24	768.1				n.			1		2		w.	0	0		n.	fair.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, Buenos Ayres, S. A.*†	30.30	769.6	47	8.3		nw.			5		2		sw.	0	0			clear.
LEYLAND LINE.																		
S. S. Iberian, N. 46° 27′, W. 39° 27′	29.86	758.4				wnw.			1		7		w.	5 h'r	5 h'r	slt't	w.	cloudy.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenapp, Para, Brazil*†	29.90	759.4				var.			3		8		var.	7 h'r	7 h'r			heavy rain.
NATIONAL LINE.																		
S. S. Canada, N. 50° 11′, W. 19° 02′†	30.24	768.1	53	11.7		calm			0		0			0	0	mod.	w.	
S. S. Denmark, London, England	29.94	760.5	61	16.1		sw.			3		5		s.	0	0			fair.
S. S. England, N. 40° 29′ W. 67° 36′	30.37	771.4				ne.			2		2		ne.	4 h'r	4 h'r	sm'h		clear.
S. S. Erin, N. 42° 34′, W. 49° 02′	30.05	763.3	37	2.8		wsw.			2		4		w.	4 h'r	4 h'r	sm'h		fine.
S. S. Helvetia, N. 41° 47′, W. 53° 35′			47	8.3		w.			1		0			light	light		wsw.	clear.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Niagara N. 34° 45′, W. 75° 30′†	30.18	766.6	68	20.0	79	n.			4		10		ne.	1 h'r	1 h'r	mod.	n.	overcast.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S City of Alexandria, N. 19° 25′, W. 95° 36′*†	29.70	754.4	83	28.3	79	sse.			4		10		s.	0	0	small	e.	misty.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N. 45° 38′, W. 37° 35′*†	30.14	765.5	58	14.4		wnw.			3								nw.	fair.
S. S. Lepanto, N. 49° 08′, W 15° 30′*	30.15	765.8	49	9.4		ne.			5								ene.	clear.
S. S. Olbers, N. 30° 53′ W 17° 20′*†	30.20	767.1	66	18.9		nne.			5								ne.	clear.
S. S. P. Caland, N. 49° 15′, W. 16° 56′	30.23	767.8	62.6	17.0		n.			2									fine.
NORTH GERMAN LLOYD																		
S. S. Elbe, Bremerhaven, Germany	30.28	769.1	56.3	13.5	83	n.			2–3		5?		ne.	0	0			clear?
S. S. Graf Bismarck, Santos Brazil	30.05	763.3	68.9	20.5		ssw.			4		8		ssw.	6 h'r	6 h'r			squally.
S. S. Habsburg, N. 41° 35′, W. 56° 24′	30.10	764.5	56.3	13.5		w.			2		2		w.	0	0	sm'h		fair.
S. S. Hermann, N. 48° 16′, W. 19° 44′†	30.15	765.8	54.5	12.5		w.			1		3		w.	0	0	light	n.	fair.
S. S. Hohenzollern, N. 49° 42′, W. 10° 43′*	30.04	763.0	54.5	12.5		nw.			2		5?		nw.	0	0	mod.	nw.	clear?
S. S. Kronprinz F. Wilhelm, N. 43° 40′, W. 42° 43′	29.99	761.7	51.8	11.0		nw.			3		3		w.	12 h'r	12 h'r	3	nw.	fair.
S. S. Leipzig, N. 44° 06′ W 42° 12′	30.01	762.2	51.0	10.6	64	ne.			4		5		nne.	7 h'r	7 h'r	long	nnw.	fair.
S. S. Main, N. 41° 46′, W. 59° 39′	30.17	766.3	48.2	9.0		wnw.			1–2		0			0	0	sm'h	wnw.	clear.
S. S. Mosel, N. 40° 32′, W. 69° 24′	30.35	770.9	43	6.1		n.			2		4		nne.	2 h'r	2 h'r	sm'h		clear.
S. S. Neckar, N. 47° 47′, W. 33° 00′	29.76	755.9	53.6	12.0		s.			7		10		s.	h'vy	h'vy	h'vy	s.	misty.
S. S. Oder, N. 48° 37′, W. 20° 03′	30.25	768.3	57.2	14.0		calm			0		4		e.	0	0	sm'h	n.	fair.
S. S. Ohio, Bremerhaven, Germany	30.07	763.8				n.			3		2		nnw.	3 h'r	3 h'r			clear.
S. S. Rhein, N. 49° 54′, W. 4° 50′	29.99	761.7				ne.			1		5?		ne.	0	0	sm'h		clear.?
S. S. Saller, N. 49° 35′, W. 19° 50′	30.24	768.1	50.0	10.0		calm			0		5?		w.	½ h'r	½ h'r	r'gh	nnw.	cloudy?
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic N 36° 06′, E. 158° 12′†	30.00	762.0	69	20.6	84	wsw.			3		10		sw.	rain	rain	light	s.	cloudy.
S. S. Gaelic, N. 37° 52′, W. 144° 57′†	30.11	764.8	62	16.7	77	sw.			4		5?		sw.			mod.	w.	clear?
S. S. Oceanic, N. 33° 34′, E. 136° 14′*	29.89	759.2	67	19.4	64	ne.			2		2					sm'h		fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, N. 37° 10′ W. 74° 48′†	30.27	768.8				nne.			5		10?		sw.			sm'h		clear?
S. S. Seminole, N. 38° 55′, W. 73° 25′†	30.37	771.4	49	9.4	85	nne.			4		5		n.	4 h'r	4 h'r	mod.	ese.	fair.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, N. 50° 48′, W. 127° 15′*†	30.20	767.1	42	5.6	?	wsw.			2		4?		w.					cloudy?
S. S. Columbia, N. 39° 52′, W. 124° 08′†	30.06	763.5	52	11.1	72	nnw.			4		0					sm'h	nw.	clear.
S. S. Oregon, San Francisco, Cal.†	29.99	761.7	50	10.0	78	nw.			1		0							clear.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 33° 44′ W. 118° 28′†	29.72	754.9	57	13.9	87	ene.			2		2		e.			mod.	w.	fair.
S. S. State of California, Portland, Oregon†	30.15	765.8	46	7.8	92	calm			0		8		nw.					cloudy.
S. S. Victoria, N. 49° 10′, W. 123° 50′†	30.06	763.5	48	8.9	85	calm			0		0			0	0	sm'h		clear.
PACIFIC MAIL STEAMSHIP CO.																		
S. S. Australia, N. 16° 16′, W. 159° 59′	29.96	761.0	72	22.2	85	ene.			3		2		ne.	0	0	mod.	ne.	clear.
S. S. City of New York, Sydney, N. S. W†	30.01	762.2	64	17.8	89	sw.			3		1		sw.	0	0			clear.
S. S. City of Rio de Janeiro, N 14° 10′, W. 92° 36′ *†	30.10	764.5	79	26.1	86	n.			2		6		n.	1 h'r	1 h'r	long	ssw.	cloudy.
S. S. City of Tokio, Hong Kong, China†	29.96	761.0	74	23.3	90	ene.			2		0			0	0			clear.
S. S. Colima, N. 27° 34′, W. 115° 59′†	29.91	759.7	59	15.0	82	nw.			4		9		nw.	0	0	r'gh	nw.	cloudy.
S. S. Colon, N. 16° 48′, W. 75° 00′†	30.03	762.7	82	27.8		e.			4		3		ese.	0	0	mod.	ese.	fair.
S. S. Grenada, Panama, Panama†	29.89	759.2	77	25.0	100	ne.			1		2			0	0			clear.
S. S. South Carolina, N. 12° 04′, W. 87° 08′†	29.99	761.7	80	26.7	91	se.			1		0			0	0	light	sw.	fair.
S. S. Zelandia, Sydney, N. S. W.	30.00	762.0	65	18.3	48	calm			0		0			0	0			fine.
QUEBEC S. S. COMPANY.																		
S. S. Bermuda, Castries, St. Lucia, W. I. †	30.06	763.5	62?	16.7?		ene.			2		6		ene.	sh'rs	sh'rs			showery.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	Upper. From.	Lower. From.	Inch.	Mill.			
RED STAR LINE.																		
S. S. Rhynland, N. 48° 23′ W. 24° 43′	30.21	767.3	51	10.6	79	ssw.			5		10		ssw.	0	0	mod.	ne.	cloudy.
S. S. Switzerland, N. 40° 46′, W. 48° 09′†	30.09	764.3				nne.			2		8		wsw.	7 h'r	7 h'r	long	wsw.	fair.
S. S. Waesland, N. 46° 28′, W. 28° 38′	30.10	764.5	56	13.3		s.			6		10		ssw.	0	0	mod.	s.	cloudy.
ROTTERDAM LINE.																		
S. S. W. A. Scholten, Rotterdam, Holland	29.72	754.9	65	18.3	88	e.			2		5		se.	0	0			
STATE LINE.																		
S. S. State of Florida, N. 42° 25′, W. 48° 53′	30.08	764.0	42	5.6		w.			2		8?		w.	11 h'r	11 h'r	sm'h	sw.	clear.?
S. S. State of Indiana, N. 55° 18′ W. 9° 24′†	29.78	756.4	50	10.0		nne.			5		2		n.	0	0	mod.	nw.	clear.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 40° 20′, W. 70° 51′†	30.49	774.4	44.6	7.0		nne.			3		3		nne.	9 h'r	9 h'r	sm'h	nne.	clear.
WARREN LINE																		
S. S. Iowa, N. 42° 51′, W. 46° 22′*†	30.18	766.6	40	4.4		w.			2		9		w.	7 h'r	7 h'r	mod.	sw.	cloudy.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 50° 11′ W. 3° 37′	30.01	762.2									0			0	0	sm'h		blue sky.
WHITE STAR LINE.																		
S. S. Adriatic, N. 40° 33′, W. 67° 24′†	30.31	769.9	42	5.6	?	nw.			2		3		nw.	3 h'r	3 h'r	sm'h		d. clouds.
S. S. Britannic, N. 40° 31′, W. 66° 43′†	30.20	767.1	43	6.1	83	n.			2		5		n.	5 h'r	5 h'r	sm'h		d. clouds.
S. S. Celtic, Liverpool, England†	30.02	762.5	55	12.8	62	se.			3		8		s.	0	0	sm'h		fair.
S. S. Germanic, N. 49° 51′, W 24° 10′†	30.22	767.6	49	9.4		sw.			3		6		sw.			sm'h		d. clouds.
WILSON LINE.																		
S. S. Otranto, N. 41° 11′, W. 64° 20′†	30.30	769.6	48	8.9		wnw.			3				wsw.			sm'h	wsw.	clear.
S. S. Romano, N. 39° 56′. W. 63° 23′*	30.08	764.0	52	11.1		ne.								0	0	sm'h		clear.
MISCELLANEOUS.																		
Schr. Abbe Clifford, N. 15° 02′, W. 57° 58′*†	30.11	764.8	81	27.2		ene.			5		3		ese.	0	0	mod.	ese.	
Sch. Addie Fuller, Newport News, Va†	30.35	770.9	48	8.9	100	ne.			3		10 n		ne.	0.09	2.3			drizzling.
Bk. Adelaide, S. 23° 45′, W. 37° 10′*†	29.96	761.0	80	26.7		n.			6		9		nnw.	4 h'r	4 h'r	r'gh	nne.	cloudy.
Schr. Ajax, Brazos, Texas†	29.66	753.4				sw.			1		5?		sw	0	0			cloudy?
Bk. Alpha, Santiago de Cuba, Cuba, W. I†	29.96	761.0	80	26.7		calm			0		0			0	0			clear.
Schr Annie Lewis, Aransas, Pass, Texas†	29.59	751.6	75	23.9		wnw.			7		2		nw.	0	0	h'vy	sse.	clearing.
Bk. Anna Thormann, N. 36° 22′ W. 55° 46′	30.24	768.0	58.5	14.7	57	n.			5		10 k		nne.	7 h'r	7 h'r	cross	nne.	misty.
Bk. Antioch, S. 40° 10′, E. 86° 35′*†	30.00	762.0	60	15.6		w.			6		1		sw.	1 h'r	1 h'r	sm'h	sw.	clear.
S. S. Antonio Lopez, Vera Cruz, Mexice*	29.65	753.1	76.5	24.7	90	sw.			2	4 c				0	0	sm'h		hazy.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.07	763.8	78	25.6		ssw.			3		9		sw.	3 h'r	3 h'r			threatening
Schr Annie M. Smull, S. 23° 50′. E. 104° 26′*†	30.10	764.5	75	23.9										0	0			
Bk. Celestina, Montevideo, Uraguay*†	30.12	765.0				sw.			8		10		sw.	hail	hail			cloudy.
S. S. Compton, New Orleans, La†	29.78	756.4				se.			6		9		sse.	3 h'r	3 h'r			cloudy.
Schr. Edith R. Seward, N. 19° 14′, W. 75° 03′*†	30.23	767.8	82	27.8		ene.			1		3		e.	0	0	mod.	ese.	clear.
S. E. J. Spicer, N. 47° 47′, W. 9° 55′†	30.17	766.3				ene.			5		5		ene.	8 h'r	8 h'r	mod.	nnw.	
S. Enoch Train, Off Sable Id, N. S*	30.02	762.5				w.			2		0			0	0	sm'h		clear.
S. Exporter, S. 31° 40′, W. 28° 40′*†	30.08	764.0				nnw.			3		6			0	0	long	n.	cloudy.
Bk. Freya, Dublin, Ireland			55	12.8		ssw.			4		2		ssw.	0	0			fair.
S. Grecian, S. 35° 46′ E. 91° 50′*†	30.27	768.8	59	15.0		wnw.			4		3		sw.	0	0	mod.	wsw.	clear.
Schr. Hattie G. McFarland, Boston, Mass*†	30.34	770.6	52	11.1		ne.			1		4		ne.	0	0			fair.
Schr. Henry Denison, N. 34° 40′, W. 73° 39′†	30.12	765.0				ene.			4		6		e.	0	0	mod.	ne.	fair.
Horace Scudder, New Inlet, N, C.†	30.15	765.8	66	18.9		ne			4					1 h'r	1 h'r			cloudy.
Bk. Johanne, N. 38° 00′, W. 45° 25′*†.	30.06	763.5	66	18.9		s.			3		8		s.	0	0	mod.	ssw.	fine.
Schr. John L. Thomas, Albuquerque Cays, C. A*†.	30.02	762.5				ene.			2		1		e.	0	0			fair.
Bkt. Josephine, N. 19° 52′ W. 75° 04′*†	30.15	765.8	85	29.4	61	ene.			3		0			0	0	sm'h		clear.
Julia H., Havana, Cuba, W. I.	29.99	761.7	76.8	24.9	86	se.			2		1 k;ks							blue sky.
Bk. Kate Cann, N. 44° 19′, W. 33° 34′*†	29.90	759.4				calm			0		10			16 h'r	16 h'r	mod	sw.	raining.
Bkt. Kryolith, N. 52° 48′ W. 28° 11′*†	29.80	756.9				sse.			6		10		s.			cross	ne.	raining.
S. S. Lamperts, N. 33° 54′ E. 22° 56′*	29.99	761.7	71.0	21.7	75	calm			0		7 k		s.					misty.
Light House Tender, Laurel, Appalachicola Bay, Fla†	30.00	762.0	78	25.6		se.			3		6		se.	0	0			cloudy.
S. S. Malabar, N 9° 36′, E. 66° 39′*†	29.80	758.4				e.			2									
Bg. Medina, Key Francis, W. I.†	30.17	766.3				se.			1		0							fine.
S. S. Nebo, N. 6° 22′, W. 45° 16′*†	29.85	758.2				nne.			4		2		nne.	3 h'r	3 h'r	long	nne.	clear.
S. Paramita, N. 0° 24′ W. 30° 20′†	29.76	755.9	82	27.8		se.			3		3		se.	1 h'r	1 h'r	long	ne.	clear.
Bk. Peppina, Bordeaux, France†	29.98	761.5	73	22.8	59	ne.			1		0							clear.
Bg. Potomac, N. 27° 17′, W. 66° 36′*†.	30.25	768.3				sse.			1				sse.			light	se.	fine.
Bk. Princessen, N. 40° 03′, W. 73° 18′†	30.29	769.3	47	8.3		ne.			4		5		ne.	1 h'r	1 h'r	mod.	ene.	fair.
Bk. Rosebud, N. 45° 48′, W. 10° 42*†	30.33?	770.4?	62	16.7	66	ne.			2-3		0			0	0	sm'h		fine.
S. Salisbury, S. 39° 04′ W. 18° 03′*	30.02	762.6	61.5	16.4	96	n.			4		9		nnw.	2 h'r	2 h'r	mod.	n.	cloudy.
Bk. Stella, S. 19° 52′, W. 92° 08′*	30.08	764.0	71.2	21.8	84	se.			5	5c		se		0	0	sm'h	s.	d. clouds.
Bk. Truro, N. 39° 26′ W. 56° 20′*†	30.05	763.3				nne.			3		8		ne.	0	0			cloudy.
U.S.F.C.S.S. Fish Hawk, Quantico, Va†	30.42	772.7	53	11.7	86	nne.			3		10		nne.	0.30	7.6			rainy.
Yacht Vega, N. 29° 45′. W. 61° 35′*†	30.42	772.7	75	23.9		sse.			1				ssw.	1 h'r	1 h'r	sm'h		
S. Washington, N. 49° 02′, W. 9° 00′*†	30.00	762.0				nnw.			3		1		nne.	0	0	sm'h		clear.
Bg. Wauburn, N. 28° 15′, W. 66° 52′*†	30.20	767.1				se.			4		3		se.	0	0	sm'h		
S. Wm. Woodbury, N. 37° 05′, W. 72° 11′*†	29.92	760.0	62	16.7	88	ne.			7				ne.			cross	ne.	raining.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 8, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours			29.94	760.4	71.6	22.0	76	nw.			4		1			0	0	very fair	Moiroud
Algiers			29.95	760.8	69.4	20.8	60	nnw.			1		3			0	0	pretty fair	Nicolas.
La Calle			30.01	762.3	65.8	18.8	85	ene.			3		3			0	0	pretty fair	Fonfrède.
Tunis			30.04	763.1															Jacques.
Saida			29.96	760.9															Dumas.
Tebessa			30.10	764.5	55.4	13.0	96	e.			1		2			0	0	fair	Derché.
Geriville					64.8	18.2	24	s.			8		10			0	0	covered	Lonchamp.
Laghouat			30.11	769.4	73.4	23.0	64	n.			2		0			0	0	clear	Abraham.
Biskra			30.07	763.8	78.8	26.0	40	se.			2		4			0	c	cloudy	Malau.
Australian.																			
Melbourne, Victoria	30.12	765.0	30.21	767.3	50.3	10.2	90	wsw.	10	4.5			5			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.20	741.7	29.73	755.2	68.7	20.4	79	sw.			2		10			0.488	12.4		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.00	736.6	29.73	755.2	74.8	23.8	60	ene.	6.3	2.8			10			0	0		Dr. Wierzbiski.
Eperies	28.89	733.9	29.72	755.0	77.0	25.0	49	s.			2		9 s			0	0		Julius Mikolik.
Gratz	28.49	723.6	29.70	754.4	65.1	18.4	79	ne.			1		10					thnd'r storm	Andreas Rospini.
Hermannstadt	28.44	722.4	29.78	756.3	81.0	27.2	42	se.			5		5			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.35	720.0	29.65	753.1	61.0	16.1	90	sw.			5		10			0.677	17.2	thnd'r str'm	The Staff.
Lemberg	28.83	732.2	29.76	755.8	79.3	26.3	39	e.			3		4			0	0		Dr. T. Stanecki.
Pola	29.70	754.3	29.81	757.1	67.3	19.6	72	s.			3		10			0.098	2.5		I. R. Hydrographic Office.
Szathmar	29.29	744.0	29.74	755.3	86.4	30.2	29	se.			4		3			0.197	5.0		Joseph Midliuszky, S. J.
Szegedin	29.46	748.2	29.72	755.0	80.6	27.0	61	sw.			4		10			0.236	6.0		Karl Stancel.
Trieste	29.71	754.5	29.81	757.1	66.9	19.4	75	sw.			1		10			0.268	6.8		Rieder.
Vienna	28.96	735.6	29.64	752.8	77.0	25.0	45	se.			3		1			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.14	765.5	30.24	768.1	45.0	7.2	49	ene.	8	3.6			7			0.040	1.0	d. clouds	W. Boswell
Armagh, Observatory	29.96	761.0	30.20	767.1	50.4	10.2	71	nw.	2	0.9			9					overcast	S. Oall.
Bidston, Liverpool Obs'y			30.12	765.0	53.1	11.7	83	wnw.	18	8.0			1					blue sky	John Hartnup.
Bolton, Sharples	29.55	750.6	30.09	764.3	51.5	10.8	67	ne.	12	5.4			8					d. clouds	Thomas Mackereth. [A.S.
Bradford, Yorkshire	29.71	754.6	30.11	764.8	48.9	9.4	73	ne.			2		6			0.01	0.3	d. clouds	J. McLandsborough, F. R
Bridgetown, Barbadoes	29.96	761.0	29.98	761.5	83.0	28.3	67	ne.			2		3					d. clouds	Corpl. J. Surgenor, A. H. C.
Cardington			30.03	762.7	54.0	12.2	76	n.			1.0		8					overcast	John McLaren.
Chatham, School M. E.	29.89	759.2	30.02	762.5	56.1	13.4	62	n.			1		6					d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.96	761.0	30.19	766.8	53.3	11.8	64	nw.			4		5					d. clouds	The Staff.
Fort Napier, Natal	27.66	702.6	29.88	758.9	69.0	20.0	47	sw.			1		8					overcast	Pvt. E. K. Annis, A. H. C.
Free Town, Sierra Leone	29.58	751.3	29.81	757.2	88.0	31.1	55	nw.			1		3					d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	29.87	758.7	29.92	760.0	63.3	17.4	83	w.			2		8					gloomy	Cpl. O. Baldwin.
Glasgow, Observatory	30.00	762.0	30.20	767.1	47.3	8.5	56	e.			5		7					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.86	758.4	30.04	763.0	55.8	13.2	60	n.			1		9					d. clouds	The Staff.
Guernsey	29.83	757.7	30.13	765.3	54.5	12.5	70	nnw.			2		1					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	30.02	762.5	30.05	763.3	54.9	12.7	55	n.	13	5.8			8					threatening.	The Staff.
Leicester, Museum	29.81	757.2	30.07	763.8	52.1	11.2	72	ne.			2		8			blank	blank	d. clouds	J. O. Smith.
Malta, Mediterranean	29.91	759.7	29.98	761.5	68.0	20.0	72	nw.			2		3					blue sky	I. H. Whysall.
Nassau, Bahamas	30.13	765.3	30.17	766.3	80.5	26.9	84	se.			1		7					d. clouds	J. Mac Email.
Oscott, St. Mary's College	29.56	750.8	30.08	764.0	53.2	11.8	63	n.			2		5					misty	The Staff.
Oxford, Radcliffe Obs'y	29.84	757.9	30.07	763.8	54.4	12.4	55	nw.			4		4					d. clouds	John Merrifield.
Plymouth	30.07	763.8	30.14	765.5	60.1	15.6	59	nw.			3		4					overcast	Rev. C. Clouston, L. L.D.
Sandwick Manse, Orkneys			30.25	768.3	44.2	6.8	64	ne.	5	2.2			10					blue sky	W. H. Lyne.
Scutari Cemetery, Turkey	29.95	760.7	30.01	762.2	71.4	21.9	45	ne.			2		1			0.02	0.5	overcast	W. F. Cooper.
Sheffield	29.92	760.0	30.21	767.3	48.9	9.4	92	ne.			1		10			0.045	1.2	overcast	Rev. F. Redford, M. A.
Stilloth Rectory	30.12	765.0	30.14	765.5	49.8	9.9	75	e.			2		10					overcast	J. New.
Stonyhurst, Observatory			30.13	765.3	52.0	11.1	72	ene.	10	4.5			10					d clouds	Rev. C. H. Griffiths, F.M.S
Stratfield Turgiss	29.85	758.2	30.07	763.8	58.3	14.6	64	n.			1		6					d. clouds	W. Newcombe.
Truro, Royal Institution	30.20	767.1	30.22	767.6	59	15.0	64	nw			6		5					d. clouds	The Met'g'l Office.
Valencia, Observatory	30.20	767.1	30.23	767.8	55.8	13.2	65	wsw.	10	4.5			5						
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.26	768.6	30.31	769.9	43	6.1	52	nw.	5	2.2		0	0			0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.28	769.1	30.34	770.6	46	7.8	47	w.	1	0.4		0	0			0	0	clear	G. A. Blair.
Father Point, Quebec*	30.31	769.9	30.33	770.4	40	4.4	73	w.	5	2.2		0	hz.			0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.10	739.1	29.93	760.2	45	7.2	76	e.	15	6.7		5 k	5 n			0	0	cloudy	James Stewart.
Halifax, N. S*	30.21	767.3	30.34	770.6	50	10.0	42	w.	9	4.0		0	0			0	0	clear	A. Allison.
Kingston, Ontario*	29.96	761.0	30.30	769.6	50	10.0	63	se.	5	2.2		4 c	0	nw.		0	0	fair	A. P. Knight, M. A.
Montreal, Quebec*	30.13	765.3	30.34	770.6	47	8.3	58	se.	6	2.7		5 c	0	nw.		0	0	fair	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.52	749.8	30.23	767.8	47	8.3	56	se.	16	7.2		2 cs	0			0	0	fair	Rev. R. Mosley.
Port Dover, Ontario	29.50	749.3	30.20	767.1	48	8.9	93	e.	5	2.2		4 ck	0			0	0	fair	H. Morgan.
Port Stanley, Ontario	29.50	749.3	30.16	766.1	48	8.9	77	e.	22	9.8		5 ck	0	w.		0	0	fair	M. Payne.
Quebec, Quebec*	30.04	763.0	30.38	771.6	37	2.8	79	w.			1	0	hz.			0	0	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.83	757.7	30.30	769.6	36	2.2	69	calm	0	0		3 c	0	nw.		0	0	fair	W. H. McIntyre.
Saugeen, Ontario*	29.43	747.5	30.15	765.8	50	10.0	56	se.	10	4.5		10 k	0	s.		0	0	cloudy	
St. Andrews, N. B	30.30	769.6	30.35	770.9	46	7.8	58	n.	3	1.3		0	0			0	0	clear	
Sydney, C. B*	30.17	766.3	30.23	767.8	41	5.0	59	nw.	12	5.4		0	0			0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.86	758.4	30.25	768.3	47	8.3	66	e.	4	1.8			10 ks		w.	0	0	cloudy	Magnetic Observatory.
Yarmouth, N. S*	30.30	769.6	30.37	771.4	42	5.6	86	calm	0	0		0	0			0	0	clear	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.85	758.2	30.11	764.8	40	4.4	91	w.	3	1.3		5 k	5 s			0	0		John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.04	763.0	30.07	763.8	65.0	18.3	94	w.	22.3	10.0			10 ks			0.150	3.8	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	30.21	767.3	30.25	768.3	66.2	19.0	78	wnw.	9	4.0		10	10			0.050	1.3		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observer.
Chinese (*Sub-series*).																			
Hankow	29.90	759.4	30.17	766.3	68.0	20.0	84	s.			2		7			3.20	81.3		N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.97	761.1	29.99	761.7	58.1	14.5	95	w.	5.1	2.3			10			0.512	13.0	covered	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.97	761.2	30.02	762.4	48.2	9.0	78	nw.	9	4			10					raining	Oversergent Fischer.
Fanöe	30.00	762.0	30.02	762.5	48.4	9.1	71	nw.			4		10						Overloerer Lauridsen.
Godthaab, Greenland	29.56	750.8	29.60	751.9	37.0	2.8	66	ne.			3		9			0	0		S. Kleinschmidt.
Stykkisholm, Iceland	29.97	761.1	30.01	762.2	41.7	5.4	55	ne.			7		8						A. O. Thorlacius.
Thorshavn	30.25	768.3	30.28	769.2	42.1	5.6	54	calm	0	0			4						Overloerer Bergh.
Vestervig	29.90	759.5	29.99	761.8	48.9	9.4	75	wnw.			2		7						Loearer Oesterboi.
French.																			
Agen, Normal School	29.50	749.4	30.15	765.9	61.9	16.6	73	wnw.			1	2 c	kn		w.	0	0		M. Labroue, Director.
Alençon, Normal School	29.58	751.3	30.13	765.3	56.5	13.6	57	n.			2		k		nw.	0	0		M. Nicot, Director.
Arras, Engineer School	29.72	754.8	29.97	761.2	56.7	13.7	66	nw.			8		kn		sw.	0.110	2.8		M. Fénéon, Command't.
Avignon, Normal School	29.89	759.3	29.97	761.3	70.2	21.2	55	nw.			2		2		n.	0.24	6.	slightly cl'dy	M. Giraud, Director.
Bar-sur-Seine	29.44	747.7	29.99	761.7	61.5	16.4	57	se.			1		10		nw.	0.067	1.7	raining	M. Saillard, Director.
Beauvais, Normal School	29.77	756.1	30.03	762.8	60.3	15.7	44	nw.			2		5	sw.	nw.	0.098	2.5	cloudy	M. Frère Eugène Marl.
Besançon, Normal School	29.06	738.0	29.89	759.2	62.6	17	66	ne.			1		10 n		nnw.	1.02	26.	raining	M. Goblin, Director.
Bordeaux, Observatory	29.86	758.4	30.12	765.0	64.9	18.3	51	nw.			1		8		wnw.	0.728	18.5	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.52	749.7	30.06	763.6	59.9	15.5	62	nnw.			1		k		nnw.	0.008	0.2		M. Postel, Director.
Brest, Naval Observatory	29.97	761.2	30.21	767.4	57.9	14.4	67	wnw.			2		6		wnw.	0	0		M. de Kermaree, Dir.
Caen, Normal School	30.04	763.0	30.11	764.8	62.2	16.8	53	nnw.			3		5		nnw.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.61	752.0	29.92	759.9	62.6	17.0	70	wsw.			2		2	se.	e.	0	0	slightly cld'y	M. Jadot, Director.
Charleville, Normal School	29.43	747.6	29.94	760.4	62.2	16.8	56	n.			1		10			0	0	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.69	728.7	30.04	763.0	57.4	14.1	67	w.			2		10			0.732	18.6	sprinkling	M. Alluard, Director.
Cluny, Normal School	29.15	740.4	29.98	761.5	67.6	19.8	45	ne.			1		6		s.	0.55	14.		M. de Villemontée, Dir.
Commercy, Normal School	29.08	738.7	29.94	760.4	63.1	17.3	63	wnw.			1		5 kn	wnw.	wnw.	0.047	1.2	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.40	695.9	29.85	758.2	67.3	19.6	42	e.			3	0	2 k		ne.	0	0		M. Jeanglrard, Director.
Gréasque, du Rhone	28.82	732.0	29.91	759.7	68.4	20.2	47	nw.			3		2		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.26	743.2	29.98	761.5	59.7	15.4	78	nw.			2		kn	ne.	n.	0	0		M. Ablard, Director.
Guéret, Normal School	28.54	724.9	30.11	764.7	57.2	14	67	sw.			1		n		sw.	0.008	0.2		M. Rivoire, Director.
Lamballe, Normal School	29.91	759.6	30.18	766.6	59.0	15	68	n.			2		1		n.	0	0	clear	M. Ollitrault, Director.
Lescar, Normal School	29.58	751.4	30.14	765.6	63.7	17.6	65	w.			1	0	8 kn			0.724	18.4	very cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	30.10	764.6	30.24	768.0	62.6	17.0	59	nnw.			1		5		n.	0	0	½ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.96	735.6	30.00	762.0	64.6	18.1	52	ne.			1	c	8 n	nw.	n.	0.339	8.6	¾ covered	M. André, Director.
Mans, Normal School	29.80	757.0	30.11	764.8	59.5	15.3	36	nnw.			1		0			0	0	clear	M. Piboen, Director.
Marseille, Observatory	29.67	753.6	29.93	760.3	71.8	22.1	44	nw.			3–4		2		nw.	0	0		M. Stephan, Director.
Montlouis l'Instituteur	24.85	631.4	29.70	754.4	53.2	11.8	50	nw.	9.4	4.2			6		se.	0.248	6.3		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.80	756.9	29.93	760.1	77.0	25	51	w.			2		2			0	0	slightly cl'dy	M. Galzin, Director.
Nancy, Normal School	29.11	739.4	29.88	758.9	61.9	16.6	63	sw.			1		kn		sw.	0.098	2.5		M. Hasse, Director
Nantes, Observatory	30.03	762.8	30.19	766.9	64.4	18	50	n.			1–3		5 k; kn	nnw.	nw.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.90	759.5	30.01	762.2	72.0	22.2	40	n.	22.4	10.0			1		wnw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.26	540.0			34.3	1.3		se.			1		10		se.	0.150	3.8	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.89	733.8	29.93	760.2	68.0	20	47	n.			4		10			0	0	covered	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.16	639.0			40.5	4.7	100	nw.			4		10			0.472	12.0	rain and fog.	M. Alluard, Director.
Rochefort, Naval Obs'y	30.08	764.1	30.11	764.9	69.1	20.6	100	nw.			1		0			0	0	clear	Lt. E. Decaute, Director.
Roche-sur-Yon, N. School	29.93	760.1	30.13	765.4	64.9	18.3	52	n.			1		2		n.	0	0	slightly cl'dy	M. Mouillot, Director.
Rodez, Normal School	27.91	708.9	30.02	762.5	60.4	15.8	79	sw.			1		0			0	0	clear	M. Serger, Director.
Rouen, Normal School	30.01	762.2	30.06	763.4	60.4	15.8	45	nw.			1		2		nw.	0.138	3.5	slightly cl'dy	M. Brotier.
Saint Maur, Observatory	29.86	758.5	30.03	762.7	63.3	17.4	35	w.			2		5		wsw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.41	746.9	30.13	765.3	64.9	18.3	81	wnw.			1		5	nw.		0.047	1.2	cloudy	M. Bailland, Director.
Tours	29.91	759.8	30.09	764.2	63.3	17.4	44	wnw.			2		1 k	wnw.	wnw.	0	0	clear	
Versailles, Observatory	29.55	750.6	30.04	763.1	60.8	16.0	38	n.			3					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.74	755.5	30.04	762.9	61.3	16.3	39	nw.			3		3		nw.	0	0		M. Marié Davy, Director.
German.																			
Bamberg	28.95	735.2	29.79	756.7	60.8	16.0	70	w.			2		10 n		w.	0.04	1.	raining	Prof. Dr. Hoh.
Berlin	29.59	751.5	29.76	755.9	55.2	12.9	82	nw.			4		10			0.244	6.2		Prof. Dr. Arndt.
Breslau	29.22	742.3	29.75	755.6	70.0	21.1	78	e.			1		9			0.520	13.2		Royal University Obs'y.
Carlsruhe	29.43	747.2	29.85	758.1	63.0	17.2	81	nw.			1		10	sw.		0.807	20.5	raining	Albert Senz.
Cassel	29.10	739.1	29.81	757.2	55.0	12.8	80	nnw.			3		9	n.		0.035	0.9		Dr. H. Möhl.
Frankfort-on-the-Main	29.46	748.2	29.82	757.4	61.9	16.6	81	n.			2		10			0.197	5.0		Physical Society.
Friedrichshafen	28.45	722.6	29.86	758.5	58.6	14.8	91	w.			4		10	n.		1.028	26.1	showery	Wilhelm, Chief Tel.
Hamburg	29.84	757.9	29.93	760.3	46.0	7.8	94	nne.			4		10			0.457	11.6	raining	E. Preller.
Kiel	29.96	761.0	29.98	761.4	45.7	7.6	83	ne.			2		10			0.492	12.5		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.36	745.7	29.78	756.4	50.7	10.4	99	nne.			2		10			0.240	6.1		H. Leppig, Asst.
Magdeburg	29.64	752.8	29.83	757.6	51.3	10.7	94	n.			2		10 ks		n.	0.256	6.5		Dr. Assmann.
Memel	29.98	761.5	30.03	762.7	56.8	13.8	66	ne.			4		10					covered	Issermann.
Munich	27.98	710.8	29.84	757.8	62.4	16.9	62	nw.			2		9	sw.		0	0		Central Station.
Neufahrwasser	29.93	760.3	29.95	760.7	48.2	9.0	91	ne.			1		10			0.319	8.1	light rain	A. Lothes.
Neustadt, Palatinate	29.32	744.8	29.84	758.0	60.1	15.6	87	w.			2		10	w.		0.362	9.2		Dicknether.
Stuttgart	28.89	733.7	29.76	756.0	59.0	15.0	79	nw.					10			0.370	9.4		Prof. Dr. Schoder.
Wustrow	29.95	760.7	29.97	761.3	46.6	8.1	86	ne.			4		10 s			0.020	0.5		Profs. Brandes & Reimer
Greek.																			
Athens	29.60	751.9			79.3	26.3		sw.			2.5		6			0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.79	756.7	29.84	758.0	85.0	29.4	79	wsw.	33.0	14.8			6		w.	0	0	misty	
Deesa	29.27	743.5	29.73	755.0	100.7	38.2	34	wsw.					0			0	0	blue sky	
Bombay	29.82	757.5	29.86	758.5	85.2	29.6	72	nw.	22.0	9.8			0			0	0	blue sky	
Poona, Yarrowda	27.96	710.2	29.77	756.2	91.5	33.1	30	wnw.	29.0	13.0			2		w.	0	0	d. clouds	
Bellary	28.29	718.6	29.70	754.3	101.0	38.3	16	ne.	9.0	4.0			5			0	0	d. clouds	
Belgaum	27.30	693.3	29.78	759.0	86.1	30.1	52	wsw.	11.0	4.9			0			0	0	misty	
Lahore	28.95	735.4	29.66	753.4	100.8	38.2	16	w.	1.8	0.8			0			0	0	blue sky	
Roorkee	28.84	732.6	29.72	755.0	89.8	32.1	31	ne.	5.4	2.4			0			0	0	misty	
Agra	29.15	740.5	29.70	754.3	96.1	35.6	29	ne.	6.0	2.7			0			0	0		
Nagpur	28.66	728.1	29.67	753.6	97.2	36.2	24	se.	6.1	2.7			9		sw.	0	0	d. clouds	
Jubbulpore	28.42	721.8	29.78	756.4	76.3	24.6	57	n.	3.8	1.7			10		w.	0.01	0.3	drizzling	
Lucknow	29.40	746.6	29.76	756.0	90.1	32.3	40	calm	1.9	0.8			4		ene.	0	0	d. clouds	
Allahabad	29.45	748.1	29.76	755.9	89.7	32.1	38	ne.	5.3	2.4			2		w.	0	0	d. clouds	
Patna	29.64	752.8	29.82	757.5	84.4	29.1	46	ene.	7.8	3.5			4		ene.	0	0	d. clouds	
Hazaribagh	27.75	704.7	29.74	755.3	81.8	27.7	49	n.	8.0	3.6			4			1.12	28.4	thund'r st'm	
Cuttack	29.77	756.1	29.85	758.2	75.2	24.0	86	se.	5.0	2.2			10			0.79	20.1	overcast	
Calcutta, Alipore	29.81	757.2	29.83	757.8	76.5	24.7	69	ssw.	3.0	1.3			10	w.		0.98	24.9	overcast	
Dhubri	29.75	755.7	29.87	758.8	76.3	24.6	76	se.	14.2	6.4			1			0.13	3.3	d. clouds	
Chittagong	29.79	756.6	29.88	758.8	79.2	26.2	74	w.	4.0	1.8			4			0	0	blue sky	
Sibsagar	29.62	752.4	29.96	761.1	72.9	22.7	86	ne.	4.5	2.0			8	ssw.	ssw.	1.03	26.2	d. clouds	
Jeypore	28.30	718.7	29.68	754.0	99.2	37.3	19	nw.	4.4	2.0			0			0	0	misty	
Zanzibar, Africa	29.92	760.0			81.7	27.6	71	s.	7.4	3.3			9		s.	0.02	0.5	gloomy	
Italian.																			
Udine	29.41	746.9	29.81	757.1	60.6	15.9	91	n.	1.8	0.8			10			0.343	8.7		Prof. Giovanni Clodig.
Milan	29.32	744.8	29.84	757.8	65.3	18.5	67	w.	11.9	5.3			9	sw.		0.106	2.7		Prof. Schiaparelli.
Padua	29.68	753.8	29.79	756.6	67.5	19.7	65	nne.	9.8	4.4			7	n.		0.024	0.6		Prof. Dott. Lorenzoni.
Moncalieri	28.93	734.8	29.83	757.6	66.9	19.4	67	sse.	3.8	1.7			6	sse.		0	0		Prof. P. F. Denza.
Genoa	29.69	754.1	29.88	759.0	65.1	18.4	71	sw.	4.9	2.2			6	se.		0.154	3.9		Prof. G. M. Garibaldi.
Mondovi	27.92	709.1	29.84	758.0	65.7	18.7	56				2		1	w.		0.917	23.3		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
ITALIAN.—Continued.																			
Pesaro	29.77	756.2	29.82	757.4	68.4	20.2	57	w.	17.4	7.8			8			0	0		Prof. Luigi Guidi.
Florence	29.66	753.3	29.91	759.6	63.5	17.5	71	sw.			4		10			0.189	4.8		Prof. Costantino Pitter.
Leghorn	29.77	756.2	29.86	758.4	64.6	18.1	70	sw.	3.8	1.7			6	w.		0.319	8.1		Prof. P. Monte.
Rome	29.79	756.7	29.96	761.0	70.9	21.6	57	wsw.	4.3	1.9			4			0	0		Prof. P. S. Ferrari.
Lecce	29.69	754.0	29.93	760.2	76.1	24.5	40	ssw.	12.5	5.6			1			0	0		Prof. C. de Giorgi.
Cosenza	29.10	739.2	29.97	761.3	69.1	20.6	76	ese.	3.1	1.4			4	se.		0	0		Prof. D. Conti.
Cagliari	29.79	756.6	29.98	761.5	66.6	19.2	72	s.			4		4	w.		0.106	2.7		Prof. A. Pachotti.
Palermo	29.80	756.9	30.05	763.2	68.7	20.4	53	ne.	6.9	3.1			9			0	0		Prof. G. Ciacciatore.
Syracuse	29.88	759.0	29.93	760.1	70.7	21.5	60	nne.	9.4	4.2			5	nne.		0	0		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R.	29.47	748.5	29.98	761.5	66.0	18.9	72	sw.	7.4	3.3			9	sw.		0	0		Prof. T. Brioschi.
Stelvio	22.05	560.0			42.8	6.0	64	s.			2		10			0	0	covered	Prof. P. F. Denza.
Valdobbia	22.10	561.4			36.1	2.3	89	s.			2		10			1.181	30.0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.90	759.4	29.94	760.5	44.0	6.7	84	s.	4.2	1.9		0	0			0	0	clear	K. Ogawa.
Hakodate	29.90	759.4	29.91	759.7	44.0	6.7	78	n.	12.0	5.4			1			0	0	clear	
Hiroshima, I. M. Obs'y	29.87	758.7	29.89	759.2	54.8	12.7	94	n.	0.2	0.1			10 n			0.304	7.7	raining	J. Sogawa.
Kanazawa	29.84	757.9	29.94	760.5	57.8	14.3	76	sse.	6.8	3.0		ck	10 n			0.080	2.0	raining	S. Endo.
Kioto	29.78	756.4	29.96	761.0	58.5	14.7	89	wnw.	0.8	0.4			10 n			0.120	3.0	light rain	M. Tojima.
Kochi	29.94	760.5	29.96	761.0	58.0	14.4	94	ne.	2.3	1.0			10		n.	1.135	28.8	light rain	K. Kusunose.
Nagasaki, I. M. Obs'y	29.65	753.1	29.85	758.2	60.9	16.1	96	se.	10.8	4.8			10 n			0.680	17.3	raining	S. Takehayashi.
Niigata	29.90	759.4	29.93	760.2	52.7	11.5	89	calm	0	0		10 ck	0			0.005	0.1	covered	M. Morita.
Nobiru	29.89	759.2	29.91	759.7	55.7	13.2	50	nw.	11.3	5.0		0	6 s			0	0	fair	H. Midzushina.
Supporo					39.0	3.9	83	nw.	1.8	0.8			0			0.620	15.8	clear	
Tokei Obs'y, Yeddo	29.33	757.7	29.89	759.2	59.3	15.0	84	s.	3.5	1.6			10 s			Imap.	Imap.	cloudy	The Staff.
Wakayama	29.88	758.9	29.94	760.5	62.2	16.8	87	s.	1.4	0.6			10 n			0.170	4.3	light rain	Y. Kuwamura.
MAURITIUS.																			
Mauritius Observatory	29.75	755.6	29.94	760.5	79.4	26.3	71	w.	10.0	4.5		0	2 k		wnw.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.64	600.4	29.86	758.4	57.9	14.4	70	calm	0	0		0	0			0	0	clear	Prof. Vicente Fernandez.
Leon	24.35	618.5	30.02	762.5	59.0	15.0	66	nne.			1	0	0			0	0	dense fog	Prof. M. Leal.
Mazatlan	29.67	753.6	29.93	760.2	68.0	20.0	89	e.	1.6	0.8		0	1 s		n.			foggy	F. Quijano, C. E.
Mexico, Central Obs'y	23.06	585.7	30.06	763.5	55.4	13.0	57	calm	0	0		0	0			0	0	foggy	The Staff.
Morelia	24.13	613.0	30.17	766.4	61.2	16.2	84	e.			3		1	s.	s.	0	0	clear	M. Tena, M. D.
Pabellon, Aguascalientes	23.90	607.1	29.92	760.0	51.4	10.8	51	calm			0	0	0			0	0	clear	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.37	593.6	30.09	764.2	53.6	12.0	86	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
San Luis Potosi	24.13	612.7	29.97	761.2	68.7	20.4	36	sw.			1	0	0			0	0	clear	G. Barroeta, M. D.
Zacatecas	22.45	570.3	30.03	762.7	51.3	10.8	39	wsw.	16.3	7.3		0	0			0	0	fine	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.97	761.1	29.97	761.1	57.2	14.0		wnw.			4					0	0		
Groningen	29.92	759.9	29.97	761.3	50.2	10.1		ne.			1					0.024	0.6		
Helder	29.97	761.3	29.97	761.3	50.2	10.1		ne.			4					0.870	22.1		
Hellevoetsluis	29.93	760.2	29.93	760.2	61.2	16.2	67	ne.			1					0	0		
Utrecht	29.91	759.7	29.96	760.9	53.1	11.7	79	nne.			2		8			0.453	11.5	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	30.02	762.4	30.08	764.0	38.1	3.4	43	nw.	16	7			3			0	0		
Brono	30.09	764.2	30.13	765.2	38.8	3.8	51	sw.	18	8			9			0.028	0.7		
Christiania	29.98	761.6	30.13	765.4	49.8	9.9	46	ne.	4	2			8			0	0		
Gjæsvær	29.69	754.1	29.71	754.7	39.2	4.0		nnw.			2		8						
Lodingen	29.90	759.4	29.95	760.6	37.0	2.8	52	sw.			4		8			0	0		
PORTUGUESE.																			
Angra, Azores					60.8	16.0	64	s.	11.2	5.0			2			0	0		Dr. J. A. Sampaio.
Campo Major	28.99	736.3	29.97	761.2	66.4	19.1	51	ene.	4.9	2.2			6			0.524	13.3		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.08	763.9	30.17	766.2	67.6	19.8	51	wsw.					3			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.66	753.4	30.02	762.4	66.2	19.0	49	nne.	18.1	8.1			4			0	0		The Staff.
Ponta Delgada, Azores	30.31	769.9	30.38	771.7	67.6	19.8	49	calm	0	0			4			0	0		
Saint Paul de Loando	29.73	755.1	29.93	760.2	81.0	27.2	89	wnw.	0.7	0.3			2	sse.		0	0		
Serra da Estrella	25.28	642.1	30.01	762.3	48.2	9.0	78	s.	18.1	8.1			9	e.		0.079	2.0		
RUSSIAN.																			
Akmolinski	28.63	727.2	29.68	753.8	59.9	15.5	62	nw.	4	2		4 ck	0			0	0		Major K. Lasarew.
Archangel	29.46	748.3	29.48	748.8	37.6	3.1	81	wsw.	22	10			10			0.098	2.5		Capt. Sseliwerstow.
Astrakhan	30.15	765.8	30.07	763.7	68.5	20.3	33	calm	0	0			10 ks			0	0		Capt. Wisganow.
Barnaul	29.13	739.8	29.61	752.0	62.1	16.7	42	sw.	0	0			2			0.024	0.6		Meteorological Obs'y.
Dorpat	29.79	756.7	30.04	763.0	50.4	10.2	48	nw.	7	3		0	2 k			0	0		Observatory.
Ekaterinburg	28.77	730.7	29.70	754.4	62.1	16.7	38	nnw.	9	4			10			0.059	1.5	light clouds	Meteorological Obs'y.
Kasan	29.42	747.2	29.67	753.6	76.5	24.7	42	wsw.	13	6		0	8			0.024	0.6		Observatory.
Kertch	30.04	763.0	30.06	763.5	69.3	20.7	46	ne.	4	2		0	0			0	0		Lagorio & Sastyrez.
Kieff	29.26	743.2	29.89	759.2	77.7	25.4	39	wsw.	7	3		3 ck	0			0	0		Observatory.
Lugan	29.78	756.3	29.97	761.3	79.5	26.4	23	sw.	9	4			3			0	0		Meteorological Obs'y
Moscow	29.36	761.0	29.82	757.4	66.4	19.1	29	sw.	4	2			3 ks						Meteorological Obs'y.
Nikolaiev	29.96	761.0	30.03	762.8	83.5	28.6	27	ssw.	13	6		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.78	756.5	29.87	758.7	27.7	− 2.4	89	calm	0	0			0			0	0		Lieut. Iwanow.
Pekin, China	29.57	751.0	29.71	754.6	75.7	24.3	14	nw.	9	4		0	1 k			0	0		Physical Observatory
St. Petersburg	29.95	760.8	29.97	761.2	43.9	6.6	56	wnw.	20	9		0	1 k			0	0		Central Physical Obs'y.
Semipalatinsk	29.09	738.9	29.73	755.1	61.7	16.5	84	sw.	11	5			10 n			0.083	2.1		Major Lasareu.
Tashkend, Laboratory	28.50	723.9	30.03	762.7	70.3	21.3	63	calm	0	0			4			0.004	0.1		Teich, A. M.
Tiflis	28.65	727.8	30.07	763.8	57.6	14.2	86	s.	2	1			10 n			0.445	11.3	raining	Physical Observatory
Vladivostock	29.72	754.9	29.79	756.6	43.5	6.4	100	se.	7	3			10 n			0.256	6.5		
Warsaw	29.38	746.3	29.78	756.5	75.2	24.0	47	se.	18	8		ck	10 ks						Astronomical Obs'y.
Wilna	29.55	750.5	29.95	760.8	70.5	21.4	37	s.	2	1			9			0.071	1.8	light clouds.	Berg, Assistant.
Yeniseisk	29.41	747.1	29.69	754.2	55.6	13.1	47	e.	2	1			5			0	0		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.93	760.3	30.04	762.9	71.6	22	56	se.	3.1	1.4		e	3 k; ks			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	30.17	766.2	30.22	767.7	62.8	17.1	68	nw.	1.3	0.6			10			0.035	0.9	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.17	690.2	30.16	766.1	53.2	11.8	78	ne.	5.1	2.3			3			0	0	lightly cl'd'y	Domingo Martin.
Madrid, Royal Obs'y	27.78	705.6	29.93	760.3	73.4	23.0	34	ne.	12.5	5.6		0	6			0	0	cloudy	The Staff.
Murcia, Met. Obs'y	29.84	757.8	29.98	761.5	74.3	23.5	47	ene.	5.8	2.6		5	4			0.008	0.2	almost cov'd	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.24	742.8	30.14	765.6	57.2	14.0	66	ne.	28.0	12.5			7			0.067	1.7	cloudy	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	29.98	761.4	30.04	763.0	78.7	25.9	79	se.	7.8	3.5		0	0			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.89	759.2	29.95	760.7	85.6	29.8	73	sse.	5.5	2.5		0	1 k		e.	0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.88	759.0	29.98	761.5	63.0	17.2	64	ese.	2.4	1.1			10		ese.	0.038	1.0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.02	762.6	30.11	764.9	73.4	23.0	97	calm	0	0			10 kn		e.	0.177	4.5	overcast	Manuel Maese.
Tuguegarao, Philippine Id's	29.82	757.4	29.95	760.7	82.2	27.9	74	nnw.	7.8	3.5		0	1 k		nnw.	0	0	clear	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.87	758.8	29.91	759.8	39.2	4.0	48	nw.			4		5			0	0		
Umea	29.98	761.5	30.03	762.8	46.4	8.0	44	nw.			2		7			0	0		
Hernosand	29.99	761.8	30.04	763.1	46.4	8.0	34	nnw.			4		4			0.012	0.3		
Stockholm	29.96	761.0	30.14	765.5	47.5	8.6	35	n.			2		2			0.004	0.1		
Wisby	30.02	762.6	30.08	764.1	43.5	6.4	68	nne.			6		3			0	0		
Sub-series.																			
Upsala	30.03	762.8	30.12	765.0	47.5	8.6	38	nw.	6.9	3.1			3		nnw.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.57	725.6	29.97	761.3	60.8	16.0	79	se.			2					0.248	6.3	covered	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
TURKISH.																			
Constantinople			30.08	764.1	64.4	18.0	55	ne.	16	7.2			0			0	0		The Observatory.
Valona			30.05	763.3	75.4	24.1		sw.			1		10			0	0	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.96	761.0	73.6	23.1	70	w.			2	0	2 s		w.	0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.34	770.6	30.42	772.7	53	11.7	55	s.	1	0.4		0	0			0	0	clear	J. O. Barnes.
Alpena, Michigan	29.46	748.3	30.12	765.0	42	5.6	74	se.	10	4.5		10 cs	0	sw.		0	0	cloudy	Jas. J. Fitzgerald.
Atlanta, Georgia	29.09	738.9	30.26	768.6	52.0	11.1	96	ne.	9	4.0			10 n		calm	0.15	3.8	light rain	H. Hall.
Atlantic City, New Jersey	30.43	772.9	30.44	773.2	48.3	9.1	73	ne.	9	4.0		4 c	0			0	0	clear	Jas. M. Watson.
Augusta, Georgia	30.14	765.5	30.33	770.4	59	15.0	84	ne.	11	4.9			10 s		ne.	0.14	3.6	cloudy	John Healy.
Baltimore, Maryland	30.41	772.4	30.46	773.7	51	10.6	80	se.	3	1.3			10 s		se.	0.10	2.5	cloudy	Robert Seyboth.
Barnegat, New Jersey	30.43	772.9	30.45	773.4	47.7	8.7	75	e.	7	3.1		4 c	0	nw.		0	0	fair	Chas. F. Merritt.
Bismarck, Dakota	27.85	707.4	29.63	752.6	45	7.2	93	ne.	16	7.2			10 n			0.35	8.9	light rain	Cyrus Cramer.
Boise City, Idaho	27.18	690.4	30.02	762.5	40	4.4	82	nw.	14	6.3		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	30.28	769.1	30.44	773.2	47.0	8.3	63	w.	7	3.1		0	0			0	0	clear	O. B. Cole.
Brownsville, Texas	29.60	751.8	29.64	752.8	78	25.6	90	se.	8	3.6			10 s		se.	0	0	cloudy	M. McCarty.
Buffalo, New York	29.47	748.5	30.21	767.3	51.3	10.7	57	e.	2	0.9		5 k	5 s	sw.	sw.	0	0	cloudy	Wm. Finn.
Burlington, Vermont	30.06	763.5	30.35	770.9	46.3	7.9	55	s.	6	2.7		6 cs	0	w.		0	0	fair	G. C. Schaeffer.
Cairo, Illinois	29.52	749.8	29.92	760.0	65.6	18.7	89	s.	2	0.9		0	4 s		s.	0.39	9.9	fair	W. H. Ray.
Campo, California	27.25	692.1	29.78	756.4	46	7.8	86	e.	2	0.9			10 s		w.	0	0	cloudy	W. H. Clendenon.
Camp Thomas, Arizona	26.97	685.0	29.44	752.8	47	8.3	96	n.			1	0	4 ks		w.	0.19	4.8	fair	J. T. Fitzgerald.
Cape Henry, Virginia	30.40	772.1	30.42	772.7	53	11.7	86	ne.	10	4.5			10 s		n.	0.08	2.0	cloudy	J. E. Lanouette.
Cape May, New Jersey	30.38	771.6	30.41	772.4	49	9.4	77	calm	0	0			10 ks			0	0	cloudy	W. Bolten.
Cedar Keys, Florida	30.11	764.8	30.13	765.3	78	25.6	76	se.	14	6.3		0	7 ks		se.	0.01	0.3	fair	F. W. Mixer.
Champaign, Illinois	29.07	738.4	29.87	758.7	62.8	17.1	93	s.	10	4.5		0	5 ks		s.	0.25	6.3	fair	L. A. Welsh.
Charleston, S. Carolina	30.20	767.1	30.25	768.3	62	16.7	93	ne.	12	5.4			10 s		calm	0	0	threatening	J. H. Smith.
Charlotte, N. Carolina	29.49	749.0	30.33	770.4	49.0	9.4	93	n.	7	3.1			10 n		ne.	0.09	2.3	light rain	D. O'Donoghue.
Chattanooga, Tennessee	29.28	743.7	30.08	764.0	62.0	16.7	78	se.			4		10 ks		s.	0.02	0.5	threatening	B. L. Goulding.
Cheyenne, Wyoming	23.52	597.4	29.39	746.5	30.8	— 0.7	92	n.	20	8.9			10 n			0.56	14.2	light snow	E. McGovern.
Chicago, Illinois	29.18	741.2	29.88	758.9	57.1	13.9	93	se.	8	3.6			10 s			0.03	0.8	cloudy	J. Mitchell.
Chincoteague, Virginia	30.39	771.9	30.41	772.4	50	10.0	72	e.	9	4.0			10 ks		nw.	0.04	1.0	cloudy	V. P. Temple.
Cincinnati, Ohio	29.41	747.0	30.06	763.5	68	20.0	78	se.	6	2.7			10 s		s.	0.16	4.1	cloudy	R. B. Watkins.
Cleveland, Ohio	29.39	746.5	30.12	765.0	50	10.0	77	se.	15	6.7			10 n		sw.	inap.	inap.	light rain	J. B. Newlin.
Coleman City, Texas	27.91	708.9	29.70	754.4	53	11.7	69	s.	3	1.3		0	0			0	0	clear	L. Dorman.
Columbus, Ohio	29.24	742.7	30.08	764.0	58	14.4	74	se.	8	3.6			10 s			0	0	cloudy	D. Cuthbertson.
Concho, Texas	27.78	705.6	29.68	753.9	52	11.1	55	nw.	4	1.8		0	0			0	0	clear	W. W. McConihe.
Davenport, Iowa	29.12	739.6	29.76	755.9	63	17.2	90	se.	10	4.5		0	4 ks		se.	0.03	0.8	fair	R. R. Martin.
Dayton, Washington T'y	28.40	721.3	30.15	765.8	38	3.3	79	sw.	6	2.7		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota	24.93	633.2	29.44	747.8	39	3.9	100	n.	8	3.6			10 n			2.10	53.3	light rain	G. W. Scott.
Decatur, Texas					61	16.1	72	ne.	10	4.5			10 s		sw.	0.13	3.3	cloudy	D. J. Carr.
Delaware Breakwater, Del.	30.41	772.4	30.43	772.9	49	9.4	77	e.	15	6.7		9 k	0			0.02	0.5	cloudy	A. Schneider.
Denison, Texas	28.92	734.6	29.71	754.6	61.0	16.1	84	s.	2	0.9		0	0			1.02	25.9	clear	J. McGlone.
Denver, Colorado	24.25	615.9	29.41	747.0	36.0	2.2	92	n.	4	1.8			10 n		calm	0.49	12.4	light snow	F. M. Neal.
Des Moines, Iowa	28.76	730.5	29.65	753.1	59	15.0	93	s.	10	4.5			10 n		s.	0.56	14.2	light rain	F. W. Conrad.
Detroit, Michigan	29.40	746.7	30.10	764.5	52.3	11.3	72	e.	10	4.5			10 s		calm	0	0	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	26.89	683.0	29.44	747.8	44	6.7	93	sw.	9	4.0		0	8 s		sw.	1.27	32.3	clearing	E. A. Thomas.
Dubuque, Iowa	29.04	737.6	29.74	755.4	60.9	16.1	84	s.	8	3.6			10 s		calm	0.03	0.8	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.21	741.9	29.91	759.7	42	5.6	82	ne.	10	4.5			10 n		ne.	0.09	2.3	light rain	N. B. Conger.
Eagle Pass, Texas	28.89	733.5	29.68	753.9	66.1	18.9	73	se.	4	1.8		0	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.07	636.8	29.75	755.6	41	5.0	70	n.	11	4.9			10 s		n.	0.04	1.0	cloudy	J. M. Clifford.
Eastport, Maine	30.31	769.9	30.38	771.6	44.5	6.9	64	w.	1	0.4		0	0			0	0	clear	J. H. Melton.
El Paso, Texas	26.03	661.2	29.67	753.6	46	7.8	93	w.	9	4.0			10 ks		w.	0.04	1.0	cloudy	J. F. Marshall.
Erie, Pennsylvania	29.44	747.8	30.16	766.1	54	12.2	55	se.	4	1.8		3 c	0	w.		0	0	clear	R. H. Paxton.
Escanaba, Michigan	29.36	745.7	30.02	762.5	45.5	7.5	68	ne.	4	1.8			10 s			0	0	cloudy	C. Dill.
Fort Apache, Arizona	24.77	629.1	29.59	751.6	37	2.8	92	e.	2	0.9		0	4 s		calm	0.16	4.1	fair	W. C. Barnes.
Fort Assinnaboine, Montana	27.08	687.8	29.92	760.0	48	8.9	93	nw.	7	3.1			10 n		n.	0.01	0.3	light rain	B. O. Lenoir.
Fort Bennett, Dakota	27.78	705.6	29.34	745.2	50.0	10.0	100	ne.	24	10.7			10 n		ne.	0.20	5.1	light rain	A. Pritchard.
Fort Benton, Montana	27.12	688.8	29.92	760.0	47	8.3	86	w.	10	4.5			10 s			0.03	0.8	cloudy	G. W. Davis.
Fort Buford, Dakota	27.83	706.9	29.81	757.2	48	8.9	86	ne.	6	2.7			10 s		calm	0.03	0.8	cloudy	A. H. Bell.
Fort Custer, Montana	26.57	674.9	29.67	753.6	47	8.3	100	ne.	12	5.4			10 n		calm	0.77	19.6	light rain	V. Verge.
Fort Davis, Texas	24.88	631.9	29.60	751.8	47	8.3	54	calm	0	0		0	0			0	0	clear	J. Williams.
Fort Elliott, Texas	26.78	680.2	29.48	748.8	42	5.6	70	se.	4	1.8		0	0			1.13	28.7	clear	W. J. Cundall.
Fort Gibson, Indian T'y	29.08	738.6	29.64	752.8	62.6	17.0	68	se.	20	8.9		0	0			0.39	9.9	clear	J. B. Campbell.
Fort Grant, Arizona	25.01	635.2	29.62	752.3	44	6.7	71	ne.	4	1.8		0	7 k		nw.	0.51	13.0	fair	T. J. Macgowan.
Fort Keogh, Montana	27.22	691.4	29.68	753.9	47	8.3	86	ne.	12	5.4			10 n		ne.	0.48	12.2	light rain	W. B. Stockman.
Fort Macon, North Carolina	30.29	769.4	30.30	769.6	61	16.1	87	ne.	16	7.2		9 k	0	ne.		0	0	cloudy	L. Leonardy.
Fort McKavett, Texas	27.48	698.0	29.72	754.9	60	15.6	67	s.	8	3.6		0	0			0	0	clear	J. E. Thatcher.
Fort Missoula, Montana	26.73	678.9	30.03	762.7	39	3.9	92	nw.	1	0.4		0	4 s		e.	0	0	fair	J. H. Jones.
Fort St. Michaels, Alaska	30.05	763.3	30.08	764.0	19	— 7.2	100	sw.	12	5.4			10 s			0	0	cloudy	A. P. Leavitt.
Fort Shaw, Montana	26.31	668.3	29.91	759.7	44	6.7	76	nw.	12	5.4		0	8 s		nw.	0.06	1.5	cloudy	A. L. Mathews.
Fort Sill, Indian Territory	28.38	720.8	29.60	751.8	54.8	12.7	81	s.	12	5.4		0	0			0.32	8.1	clear	T. Cleary.
Fort Stevenson, Dakota	27.89	708.4	29.72	754.9	46	7.8	100	e.	22	9.8			10 n			inap.	inap.	light rain	W. Burrows
Fort Verde, Arizona					42	5.6	76	nw.			2	0	4 s		nw.	0.03	0.8	fair	D. Brooks.
Fort Washakie, Wyoming	24.14	613.1			41.3	5.2	88	nw.	7	3.1			10 n			0.85	21.6	light rain	T. M. Ambler.
Fredericksburg, Texas																			H. S. Miles.
Galveston, Texas	29.74	755.4	29.78	756.4	76	24.4	91	se.	12	5.4			10 s		s.	2.05	52.1	cloudy	E. O'C. MacInernev.
Grand Haven, Michigan	29.32	744.7	29.98	761.5	53.5	11.9	76	e.	12	5.4			10 s		se.	0	0	cloudy	W. A. Reid.
Hatteras, North Carolina	30.28	769.1	30.30	769.6	59	15.0	93	n.	18	8.0		6 k	hz.	ne.		0	0	fair	R. M. Crawford.
Helena, Montana	25.73	653.5	29.90	759.4	44	6.7	76	w.	6	2.7			10 s		w.	inap.	inap.	cloudy	S. Wheaton.
Henrietta, Texas	28.68	728.5	29.66	753.4	63.0	17.2	78	s.	12	5.4		0	0			0.24	6.1	clear	J. W. Byram.
Huron, Dakota	28.08	713.2	29.43	747.5	52.9	11.6	96	e.	28	12.5			10 n		e.	0.78	19.8	light rain	S. W. Glenn.
Indianapolis, Indiana	29.18	741.2	29.97	761.2	66	18.9	84	se.	5	2.2			10 n		se.	0.03	0.8	light rain	O. Schutze
Indianola, Texas	29.68	753.9	29.71	754.6	76.5	24.7	97	se.	14	6.3		0	fg.			0.62	15.7	clear	I. A. Reed.
Jacksboro, Texas	28.52	724.4	29.67	753.6	60	15.6	70	s.	11	4.9		0	0			0.21	5.3	clear	J. P. Sherry.
Jacksonville, Florida	30.13	765.3	30.17	766.3	77	25.0	85	e.	5	2.2		4 k	0	e.		0.31	7.9	fair	J. W. Smith.
Keokuk, Iowa	29.08	738.6	29.74	755.4	64.0	17.8	78	se.	10	4.5		0	0			0.45	11.4	clear	F. Z. Gosewisch
Key West, Florida	30.04	763.0	30.06	763.5	81.0	27.2	77	e.	7	3.1		0	5 k		e.	0	0	fair	L. M. Melbourne.
Kittyhawk, North Carolina	30.35	770.9	30.37	771.4	51	10.6	93	ne.	20	8.9			10 s			0.06	1.5	cloudy	E. A. Beals.
Knoxville, Tennessee	29.16	740.7	30.18	766.6	61.8	16.6	81	e.	3	1.3		3 c	5 s		sw.	0	0	cloudy	J. A. Cody.
La Crosse, Wisconsin	28.96	735.6	29.72	754.9	60	15.6	75	se.	8	3.6			10 s			0.03	0.8	threatening	S. C. Emery.
La Mesilla, New Mexico	25.85	656.6	29.61	752.1	45.7	7.6	81	w.	10	4.5			10 s			0.05	1.3	cloudy	N. D. Lane.
Leavenworth, Kansas	28.70	729.0	29.58	751.3	58	14.4	74	s.	10	4.5			10 s		s.	0.43	10.9	cloudy	A. W. Browne.
Lewiston, Idaho	29.30	744.2	30.14	765.5	43	6.1	71	se.	1	0.4		7 k	0			0	0	fair	J. M. Burlew.
Little Rock, Arkansas	29.52	749.8	29.84	757.7	63	17.2	93	se.	8	3.6			10 s		se.	2.02	51.3	cloudy	W. U. Simmons.
Los Angeles, California	29.47	748.5	29.87	758.7	52.2	11.2	86	w.	1	0.4		0	5 s		calm	0	0	fair	E. F. Kubel.
Louisville, Kentucky	29.40	746.7	29.95	760.7	70	21.1	84	se.	10	4.5			10 s			0.01	0.3	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.71	754.6	30.39	771.9	48.5	9.2	77	nw.	1	0.4			10 s			0.19	4.8	cloudy	W. R. Bushby.
Madison, Wisconsin	28.82	732.0	29.82	757.4	52	11.1	93	e.	12	5.4			10 s		e.	0.08	2.0	cloudy	C. A. Shaw.
Marquette, Michigan	29.33	745.0	30.05	763.3	46	7.8	60	se.	1	0.4		hz.	0			0	0	dense haze	J. Gilligan.
Memphis, Tennessee	29.60	751.8	29.93	760.2	67	19.4	93	se.	3	1.3		0	2 s		se.	1.45	36.8	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.17	740.9	29.91	759.7	48	8.9	86	e.	6	2.7			10 s			0.01	0.3	threatening	W. Line.
Mobile, Alabama	29.94	760.5	29.98	761.5	77	25.0	85	s.	13	5.8		0	9 s		s.	inap.	inap.	cloudy	J. D. Paxton.
Montgomery, Alabama	29.92	760.0	30.15	765.8	74	23.3	85	e.	8	3.6			10 s		w.	inap.	inap.	threatening	J. B. McLaughlin.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Moorhead, Minnesota	28.70	729.0	29.68	753.9	45	7.2	100	e.	16	7.2			10 n		e.	0.85	21.6	heavy rain	H. Bessant.
Morgantown, W. Virginia	29.20	741.7	30.21	767.3	54.5	12.5	72	calm	0	0			10 s			0	0	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H	24.02	610.1	30.20	767.1	25.0	— 3.9	84	nw.	31	13.9		0	18;sk		nw.	0	0	clear	J. G. Linsley.
Nashville, Tennessee	29.44	747.8	29.97	761.2	69.0	20.6	78	se.	5	2.2		6 cs	4 ks	s.	s.	0.03	0.8	cloudy	L. A. Jesunofsky.
New Haven, Connecticut	30.35	770.9	30.47	773.9	46	7.8	68	s.	3	1.3		2 c	0			0	0	clear	J. H. Sherman.
New London, Connecticut	30.42	772.7	30.47	773.9	49	9.4	63	w.	5	2.2		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.86	758.4	29.92	760.0	77.5	25.3	95	se.	13	5.8			10 n		se.	0.25	6.3	light rain	L. Dunne.
Newport, Rhode Island	30.40	772.1	30.46	773.7	48.8	9.3	59	sw.	4	1.8		0	0			0	0	clear	W. McGillivray.
New River, N. Carolina																			C. C. Corbin.
New Shoreham, Rhode I'd	30.43	772.9	30.46	773.7	46.5	8.1	68	sw.	7	3.1		0	0			0	0	clear	W. Davis.
New York, New York	30.30	769.6	30.48	774.2	46	7.8	68	sw.	1	0.4		3 cs	0			0	0	clear	E. B. Garriott.
Norfolk, Virginia	30.38	771.6	30.41	772.4	53	11.7	80	ne.	6	2.7			10 ks		w.	0.04	1.0	cloudy	J. T. Elker.
North Platte, Nebraska	26.33	668.8	29.20	741.7	48.6	9.2	91	e.	10	4.5			10 s			0.87	22.1	cloudy	E. F. Brady.
Olympia, Washington T'y	30.28	769.1	30.32	770.1	35.0	1.7	89	s.	2	0.9		0	9 s		sw.	inap.	inap.	cloudy	J. Dascomb.
Omaha, Nebraska	28.35	720.1	29.51	749.5	57.5	14.2	79	se.	12	5.4		0	9 ks		s.	0.28	7.1	cloudy	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.07	763.8	30.09	764.3	15.0	— 9.4	100	ne.	16	7.2			10 s			0.06	1.5	cloudy	P. H. Ray.
Oswego, New York	29.97	761.2	30.30	769.6	51.0	10.6	59	se.	10	4.5		3 c	0	w.		0	0	clear	S. W. Beall.
Palestine, Texas	29.23	742.4	29.78	756.4	65.0	18.3	90	se.	15	6.7		0	0			0.58	14.7	clear	L. M. Pindell.
Pensacola, Florida	30.01	762.2	30.04	763.0	77.1	25.1	94	se.	12	5.4			10 s		se.	0	0	cloudy	M. McGauran.
Philadelphia, Pa	30.36	771.1	30.46	773.7	48	8.9	71	e.	4	1.8		2 c	3 s	ne.	w.	0	0	fair	T. F. Townsend.
Pike's Peak, Colorado	17.28	438.9	29.34	745.2	15.5	— 9.2	100	w.	40	17.9			fg.			3.98	101.1	dense fog	L. M. Dey.
Ploche, Nevada	23.83	605.3	29.75	755.6	33.2	0.7	57	n.	8	3.6		0	0			inap.	inap.	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.39	746.5	30.19	766.8	52.0	11.1	72	e.	5	2.2			10 ks			0	0	threatening	J. H. Bryce.
Poplar River, Montana	27.69	703.3						nw.			4		10 s		calm	0.16	4.1	cloudy	U. D. Maxwell.
Port Eads, Louisiana	29.95	760.7	29.96	761.0	76.5	24.7	90	se.	20	8.9		hz.	0			0	0	clear	H. G. Christian.
Port Huron, Michigan	29.43	747.5	30.11	764.8	48.1	8.9	80	se.	6	2.7			10 s			0.02	0.5	cloudy	W. O. Bailey.
Portland, Maine	30.34	770.6	30.39	771.9	50.0	10.0	58	se.	2	0.9		0	sk.		se.	0	0	clear	D. C. Murphy.
Portland, Oregon	30.26	768.6	30.33	770.4	37.0	2.8	75	calm	0	0		0	4 s		calm	inap.	inap.	fair	M. L. Hearne.
Portsmouth, N. Carolina					60	15.6	87	ne.	24	10.7		10 k	fg.	ne.	calm	0	0	cloudy	F. P. Chaffee.
Prescott, Arizona	24.49	622.0	29.59	751.6	34	1.1	66	s.	4	1.8		0	0			0.18	4.6	clear	J. Mc N. Wright.
Provincetown, Mass	30.41	772.4	30.44	773.2	48	8.9	71	sw.	8	3.6		0	0			0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.07	763.8	30.08	764.0	78	25.6	82	e.	9	4.0		0	0			0	0	clear	W. J. Evans.
Red Bluff, California	29.66	753.4	30.03	762.7	53.2	11.8	48	nw.	8	3.6		0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.43	747.5	29.67	753.6	80	26.7	82	se.	2	0.9			8 s		se.	0	0	cloudy	P. M. Wilson.
Rochester, New York	29.57	751.1	30.23	767.8	50	10.0	64	se.	14	6.3		6 cs	hz.	nw.		0	0	fair	F. Gillam.
Roseburg, Oregon.*	29.75	755.6	30.30	769.6	42	5.6	78	calm	0	0		9 c	0	w.		0.02	0.5	cloudy	J. J. Nanry.
Sacramento, California	29.87	758.7	29.95	760.7	59.9	15.5	44	n.	13	5.8		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.26	743.2	29.85	758.2	62.2	16.8	100	s.	13	5.8		0	7 k		s.	0.28	7.1	clearing	J. H. Webber.
St. Paul, Minnesota	28.83	732.3	29.68	753.9	53.0	11.7	86	se.	21	9.4			10 s		e.	0.03	0.8	cloudy	P. F. Lyons.
St. Vincent, Minnesota	28.96	735.6	29.82	757.4	47	8.3	63	ne.	10	4.5			10 s		calm	0	0	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.40	645.1	29.72	754.9	45	7.2	63	nw.	16	7.2		4 k	5 ks	nw.	nw.	0.01	0.3	cloudy	J. Craig.
San Antonio, Texas	29.02	737.1	29.72	754.9	67.0	19.4	93	se.	8	3.6			10 s		se.	0	0	cloudy	E. Lane.
San Diego, California	29.76	755.9	29.83	757.7	59.7	15.4	79	sw.	5	2.2			fg		sw.	0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.40	746.7	30.07	763.8	54	12.2	80	se.	6	2.7			10 n		e.	inap.	inap.	light rain	M. H. Perry.
Sandy Hook, New Jersey	30.44	773.2	30.48	774.2	47.0	8.3	68	s.	1	0.4		1 c	0	calm		0	0	clear	B. A. Blundon.
San Francisco, California	29.89	759.2	29.96	761.0	62	16.7	37	nw.	14	6.3		0	0			0	0	clear	N. Gorom.
Santa Fé, New Mexico	22.82	579.6	29.43	747.5	39	3.9	68	sw.	2	0.9		4 c	1 s	sw.	sw.	0.08	2.0	fair	H. U. Jones.
Savannah, Georgia	30.14	765.5	30.23	767.8	69	20.6	90	ne.	14	6.3			10 n		ne.	inap.	inap.	light rain	H. W. Ford.
Shreveport, Louisiana	29.58	751.3	29.82	757.4	60	15.6	100	se.	7	3.1		0	6 k		se.	1.70	43.2	fair	E. N. Meekins.
Silver City, New Mexico	24.02	610.1	29.57	751.1	36	2.2	82	nw.	2	0.9			10 n		calm	0.70	17.8	light rain	J. B. Wallace.
Sitka, Alaska	30.00	762.0	30.06	763.5	38.6	3.7	84	se.	5	2.2		4 k	2 s	sw.	calm	0.55	14.0	fair	J. J. McLean.
Smithville, North Carolina	30.26	768.6	30.30	769.6	55	12.8	86	ne.	10	4.5			10 s			0	0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.04	712.2	30.09	764.3	43	6.1	76	s.	5	2.2		9 k	0	sw.		0	0	cloudy	D. Moore.
Springfield, Illinois	29.17	740.9	29.84	757.9	63	17.2	90	s.	15	6.7		0	6 k		s.	0.19	4.8	fair	T. B. Jennings.
Springfield, Massachusetts	30.32	770.1	30.45	773.4	47.1	8.4	66	s.	1	0.4		1 c	hz.			0	0	clear	T. S. Outram.
Springfield, Mo	28.30	718.8	29.78	756.4	59	15.0	87	s.	18	8.0		0	5 k		s.	0.63	16.0	fair	J. B. Marbury.
Starkville, Miss	29.38	746.2			73	22.8	82	se.	11	4.9			10 ks		sw.	0.41	10.4	cloudy	M. J. Wright.
Stockton, Texas	26.70	678.2	29.72	754.9	43.0	6.1	60	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Thatcher's Island, Mass	30.32	770.1	30.37	771.4	44.3	6.8	76	s.	8	3.6		0	hz.			0	0	clear	F. R. Day.
Toledo, Ohio	29.38	746.2	30.06	763.5	51	10.6	86	e.	5	2.2			10 s		sw.	0	0	threatening	A. Buell.
Tucson, Arizona	27.32	693.9	29.66	753.4	55	12.8	69	se.	3	1.3		0	2 ks			inap.	inap.	clear	J. L. Whiteside.
Umatilla, Oregon	29.84	757.9	30.21	767.3	44	6.7	60	sw.	18	8.0		0	0			0	0	clear	J. Daly.
Uvalde, Texas	28.72	729.5	29.66	753.4	59	15.0	81	se.	2	0.9		0	0			0	0	clear	E. C. Imlay.
Vicksburg, Mississippi	29.65	753.1	29.90	759.4	65	18.3	100	se.	6	2.7			10s;fg			2.84	72.1	dense fog	H. T. Brisbane.
Visalia, California	29.46	748.3	29.82	757.4	50	10.0	64	ne.	3	1.3		0	0			0	0	clear	W. L. Seward.
Washington, D. C	30.31	769.9	30.42	772.7	50.2	10.1	77	e.	3	1.3			10 s		sw.	0.18	4.6	cloudy	B. M. Purssell.
West Las Animas, Colorado	25.51	647.9	29.37	746.0	44	6.7	86	nw.	6	2.7		0	8 s		sw.	1.11	28.2	cloudy	J. Grover.
Williamsport, Pa	29.76	755.9	30.36	771.1	50.8	10.4	57	se.	2	0.9		4 cs	5 ks	nw.		0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.25	768.3	30.30	769.6	56	13.3	80	ne.	5	2.2			10 s			0	0	cloudy	A. T. Sherwood.
Winnemucca, Nevada	25.61	650.5	29.96	761.0	38	3.3	45	ne.	6	2.7		0	0			0	0	clear	J. R. Williams.
Yankton, Dakota	28.13	714.5	29.41	747.0	57	13.9	86	se.	8	3.6		2 ks	0	se.		0.31	7.9	clear	J. H. Atfield.
Yuma, Arizona	29.56	750.8	29.71	754.6	61.0	16.1	84	sw.	6	2.7		0	2 ks		nw.	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8			54.0	12.2	77	e.	2	0.9		3 ck;k	1 s	w.		0	0	fair	Joaquin Gomez.
Bridgetown, Barbados, W. I.	30.02	762.5	30.03	762.7	82	27.8	87	e.				5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C	30.04	763.0	30.07	763.8	75	23.9	95	calm	0	0			10 n		se.	0.90	22.9	raining	J. I. Plume.
Havana, Cuba, W. I	30.03	762.7	30.08	764.0	82	27.8	82	e.	1.2	0.5		0	0			0	0	clear	A. Van Caneghem.
Kingston, Jamaica, W. I	30.03	762.7	30.04	763.0	79.3	26.3	74	calm	0	0		0	0			0	0		Robert Johnston.
Magua, San Domingo, W. I					74	23.3		calm			0	0	0			0	0		S. M. Pike.
Navassa, W. I																			F. M. Everett.
Paramaribo, S. A	30.03	762.7	30.03	762.7	78	25.6	91	e.			2	4 c	5 k	e.		0.250	6.3	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.42	747.3	29.87	758.7	89	31.7	62	s.			1	0	3 k		s.	0	0	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A							92	ne.			3	0	3 k		ne.	0	0	fair	Earl Flint.
Santiago de Cuba, W. I	30.02	762.5	30.05	763.3	81	27.2	70	n.	1.2	0.5		1 ck	0			0	0	fair	Robert Mason.
York Factory, B. A	30.15	765.8	30.20	767.1	32.0	0.0	94	n.	12	5.4		4 k	4 s	ne.	ne.	inap.	inap.	cloudy	W. Wood.

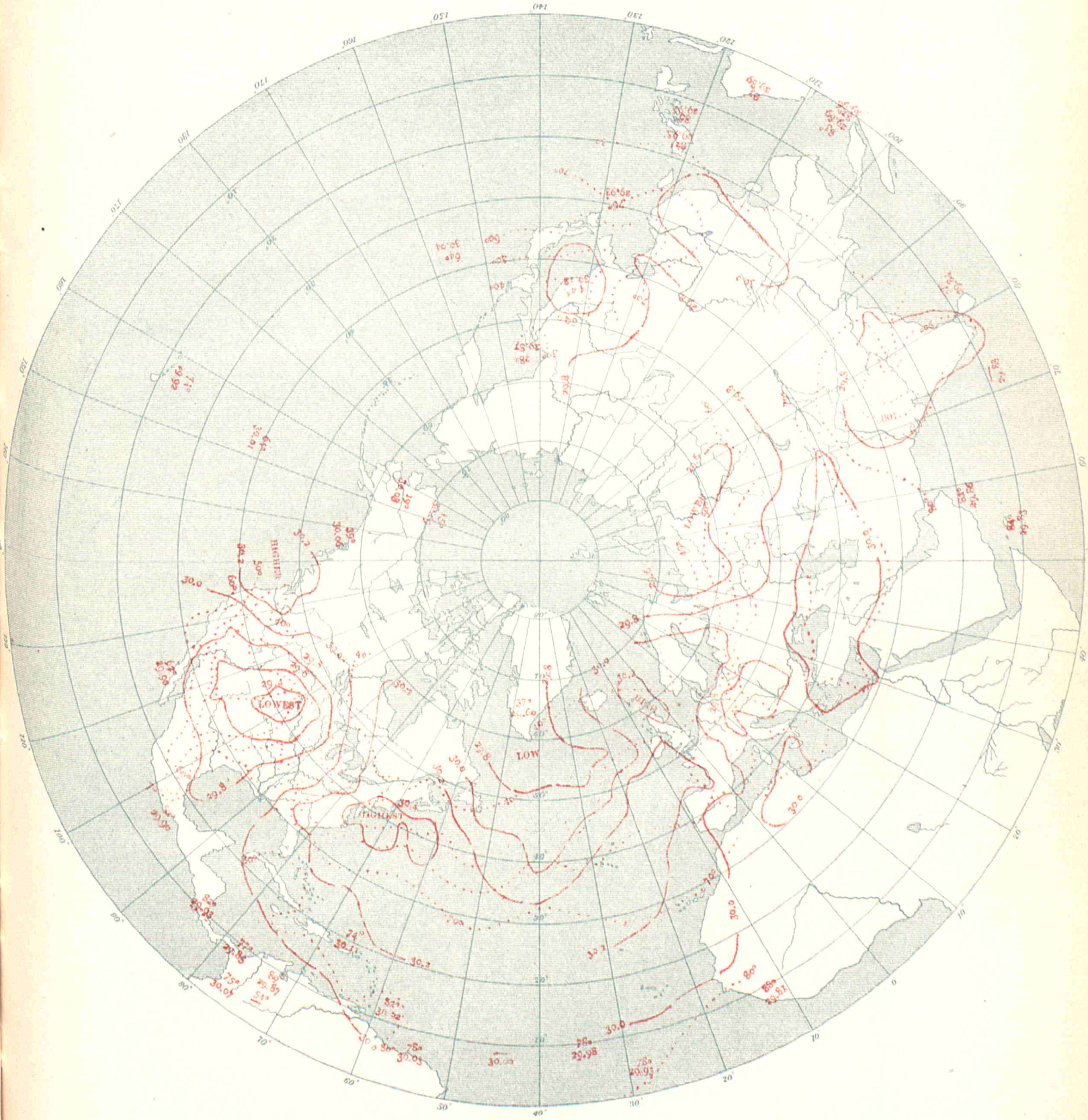
* Observation 25 minutes late.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Alert, S. 11° 56′, E. 47° 14′	29.96	761.0	81.5	27.5	70	ene.			2-3		7							d. clouds.
H. M. S. Alexandra, N. 38° 13′, E. 18° 13′	29.97	761.2	68	20.0	79	nne.			1		2					1	wnw.	d. clouds.
H. M. S. Amethyst, Funchal, Maderia Island	30.11	764.8	65	18.3	92	ssw.			1		2	nne.						d. clouds.
H. M. S. Champion, S. 7° 50′ W. 103° 15′			78	25.6	86	ese.			3-4		5	calm				3	ese.	d. clouds.
H. M. S. Cleopatra, N. 2° 10′, E. 104° 32′	29.89	759.2	82.5	28.1	87	nne.			1		2							d. clouds.
H. M. S. Comus, Labuan Island, Borneo	29.89	759.2	82.5	28.1	95	calm			0		3	wsw.						d. clouds.
H. M. S. Coquet e, Alexandria, Egypt	30.00	762.0	71	21.7		wnw.			2		0							blue sky.
H. M. S. Dido, N. 12° 40′, W. 63° 00′	30.01	762.2	79	26.1		e.			5		5	e.				3	e.	d. clouds.
H. M. S. Druid, N. 17° 05′, W. 83° 00′	29.96	761.0	81	27.2	87	ese.			3-4		2	se.				2	ese.	d. clouds.
H. M. S. Dwarf, S. 32° 18′, W. 58° 03′	30.18	766.6	43.5	6.4	92	n.			3-4		0					3	nne.	blue sky.
H. M. S. Eclipse, S. 10° 50′, E. 43° 37′	29.92	760.0	82	27.8		se.			2		4					1	sse.	d. clouds.
H. M. S. Emerald, S. 47° 50′ W. 176° 30′	29.54	750.3	53	11.7	100	ne.			3		2	nne.				2		d. clouds.
H. M. S. Euryalus, Trincomalee, Ceylon	29.84	757.9	87	30.6	79	ne.			1		4	calm						d. clouds.
H. M. S. Fantome, N. 12° 40′, W. 67° 45′	29.99	761.7	81	27.2		e.			3-4		5	e.				3	e.	d. clouds.
H. M. S. Flying Fish, N. 32° 44′, E. 129° 52′	29.81	757.2	62	16.7	100	se.			1		10							raining.
H. M. S. Fawn, N. 11° 19′ E. 53° 20′	29.83	757.7	83.5	28.6	81	sse.			1-2		6	s.				1	s.	d. clouds.
H. M. S. Gannet, S. 27° 03′, W. 70° 51′	30.03	762.7	58	14.4	78	se.			2		10							d. clouds.
H. M. S. Garnet, Colonia, Rio de La Plata, Uruguay	30.14	765.5	45	7.2	84	n.			0		10							overcast.
H. M. S. Griffon, N. 36° 32′ W. 65° 30′	30.39	771.9	63	17.2	57	nne.			4		7					4	nne.	d. clouds.
H. M. S. Inconstant, Simon's Bay, Cape Colony	30.24	768.1	65	18.3	94	s.			2		7							d. clouds.
H. M. S. Iris, N. 36° 25′, E. 21° 40′	29.98	761.5	70	21.1	75	e.			2		3	e.				1	e.	d. clouds.
H. M. S. Iron Duke, N. 28° 17′, E. 129° 18′	29.93	760.2	76	24.4	95	calm			0		2							d. clouds.
H. M. S. Kingfisher, S. 22° 26′, E. 73° 08′	30.03	762.7	62	16.7		ssw.			2-3		9	calm					sw.	d. clouds.
H. M. S. Lark, S. 8° 14′, E. 156° 30′	29.92	760.6	79.3	26.3		e.			1		9					1	e.	showery.
H. M. S. Magpie, N. 34° 56′, E. 139° 52′	29.89	759.2	63.0	17.2	75	sw.			1		9							d. clouds.
H. M. S. Northampton, Bermuda, W. I.	30.13	765.3	70.5	21.4	90	n.			3		9	nw.						d. clouds.
H. M. S. Orontes, N. 23° 10′, W. 74° 26′	30.11	764.8	78.5	25.8	93	ese.			3		3	se.				2	se.	d. clouds.
H. M. S. Pegasus, N. 1° 17′, E. 103° 51′	29.96	761.0	81.5	27.5	80	nw.			1-2		1							blue sky.
H. M. S. Phœnix, N. 17° 30′, W. 72° 52′	30.02	762.5	80	26.7	86	e.			4-5		1	e.				3	e.	blue sky.
H. M. S. Rambler, Benguela, Benguela	29.92	760.0	78	25.6	100	nw.			2		1							blue sky.
H. M. S. Rocket, N. 48° 27′, W. 123° 27′	30.25	768.3	44	6.7	84	w.			4		8							squally.
H. M. S. Sylvia, N. 46° 18′ W. 11° 05′	30.33	770.4	58.5	14.7	68	nne.			1		3					1	nne.	d. clouds.
H. M. S. Tenedos, N. 44° 40′ W. 63° 35′	30.31	769.9	47	8.3	55	nw.			1		0							blue sky.
H. M. S. Triumph, Caldera, Chili	30.00	762.0	58	14.4	87	calm			0		8	calm						d. clouds.
H. M. S. Tyne, N. 34° 12′, E. 22° 15′	29.99	761.7	73	22.8	76	ssw.			1		0					1	wnw.	blue sky.
H. M. S. Woodlark, N. 19° 18′ E. 58° 05′	29.86	758.4	81.5	27.5	83	ssw.			3		2	ssw.				3	sw.	d. clouds.
PORTUGUESE NAVAL.																		
Rio Lima, Porto Praya, Cape Verde Island	30.01	762.3	74.5	23.6	86	ne.			3		2	ne.				2		d. clouds.
Tamega, Macao, China	29.98	761.6	84.2	29.0	81	s.			2		3		s.					d. clouds.
SWEDISH NAVAL.																		
Balder, N. 47° 18′ W. 7° 00′	30.24	768.1	55.9	13.3	81	n.			3		5							d. clouds.
UNITED STATES NAVAL.																		
Zavy Yard, Pensacola, Fla	29.97	761.2	78	25.6	91	se.	12	5.4			8		se.	0	0			fair.
Navy Yard, Portsmouth, N. H	30.42	772.7	47	8.3	62	calm	0	0			0			0	0			clear.
Naval Hospital, Yokohama, Japan	29.77	756.1	60.5	15.8	76	calm			0		8		w.	0	0			clearing.
Adams, N. 31° 10′, W. 117° 09′	29.71	754.6	59	15.0	88	wnw.			2		10		nw.	light	light	long	wnw.	overcast.
Alaska, Payta, Peru	29.97	761.2	64	17.8	89	s.			1		0			0	0	sm'h		clear.
Alert, Kobe, Japan*	29.84	757.9	62	16.7	83	calm			0		10		calm			sm'h		raining.
Alliance, Hampton Roads, Va	29.43	747.5	54	12.2	80	ne.			2		10			light	light	sm'h		overcast.
Ashuelot, Kobe, Japan	29.91	759.7	62	16.7	94	calm			0		10		calm					cloudy.
Brooklyn, Montevideo, Uruguay	30.16	766.1	45	7.2	84	nnw.	12	5.4			10		calm	0	0	sm'h		cloudy.
Colorado, New York, N. Y	30.46	773.7	51	10.6	65	calm	0	0			0			0	0			hazy.
Enterprise, Norfolk, Va*	30.39	771.9	55	12.8	93	ne.			2		8		calm					fair.
Essex, S. 30° 30′ W. 45° 16′	30.06	763.5	61	16.1	61	s.			5		2		s.			r'gh	sw.	clear.
Franklin, Norfolk, Va	30.43	772.9	53	11.7	80	ne.	4.5	2.0			8		e.	0.03	0.8			fair.
Galena, Port Mahon, Minorca Island	30.04	763.0	69	20.6	90	e.			1		2					sm'h		clear.
Independence, Navy Yard, Mare Island, Cal	29.84	757.9	53	11.7	86	nw.			1		0			0	0			clear.
Iroquois, Mare Island, Cal	29.93	760.2	63	17.2	52	wnw.			4		0							clear.
Kearsarge, Hampton Roads, Va	30.42	772.7	55	12.8	93	ene.			3		10					sm'h		cloudy.
Lackawanna, Callao, Peru	30.11	764.8	62	16.7	88	sse.			1		10		se.	0	0			hazy.
Lancaster, Port Mahon, Minorca Island*	29.92	760.0	68	20.0	95	nw.			2		2		w.	0	0			fair.
Marion, S. 26° 54′, W. 34° 31′	29.96	761.0	70	21.1	90	wsw.			4		10		wsw.	mod.	mod.	long	v	cloudy.
Michigan, Erie, Pa	30.14	765.5	50	10.0	100	se.			1		8		n.					cloudy.
Minnesota, Newport, R. I	30.44	773.2	45	7.2	92	sw.	5	2.2			0							clear.
Monocacy, Takamatsu, Japan	29.94	760.5	60	15.6	94	calm			0		10		calm					drizzling.
New Hampshire, Newport, R. I	30.38	771.6	56	13.3	51	sw.			2		2		sw.			sm'h		fair.
Nipsic, Port Mahon, Minorca Island	30.03	762.7	70	21.1	66	ene.			2		2					sm'h		clear.
Onward, Callao, Peru	30.09	764.3	60	15.6	94	sse.			2		10		n.			long	w.	cloudy.
Palos, Kobe, Japan	29.94	760.5	60	15.6	82	calm			0		10		calm					drizzling.
Passaic, Washington, D. C	30.44	773.2	50	10.0	86	ne.			1		10							cloudy.
Pensacola, Callao, Peru	29.98	761.5	62	16.7	94	sse.			1		10		s.	0	0	sm'h		cloudy.
Portsmouth, Plymouth, Eng	30.12	765.0	52	11.1	100	nnw.			3		8		nw.			sm'h		cloudy.
Powhatan, Hampton Roads, Va	30.38	771.6	52	11.1	79	ne.			3		10							cloudy.
Quinnebaug, Port Mahon, Minorca Island	30.02	762.5	70	21.1	70	ene.			1		2		s.			sm'h		fair.
Ranger, Mazatlan, Mexico*	29.88	758.9	71	21.7	80	ese.			2		2		s.	0	0	long	ssw.	clear.
Richmond, Kobe, Japan*	29.89	759.2	63	17.2	83	calm			0		10			0.05	1.3			raining.
Saratoga, Plymouth, Eng	30.13	765.3	56	13.3	63	n.			2		5		n.	0	0	sm'h	n.	fair.
Shenandoah, New York, N. Y*	30.53	775.4	51	10.6	72	sw.			0-1		2					sm'h		hazy.
St. Louis, League Island, Pa	29.69	754.1	44	6.7	76	ne.					2		wnw.	0	0			fair.
Swatara, N. 37° 22′, E. 123° 30′*	29.71	754.6	52	11.1	86	sse.	5	2.2	1		2		calm			sm'h		fair.
Tennessee, Fort Monroe, Va	30.43	772.9	53	11.7	80	ene.	15	6.7			10			little	little			overcast.
Vandalia, Norfolk, Va*	30.38	771.6	53	11.7	86	ne.			2		10		nw.					cloudy.
Wabash, Boston, Mass	30.44	773.2	45	7.2	68	wsw.	5	2.2			2		w.	0	0			clear.
Wachusetts, Fort Wrangle, Alaska	30.03	762.7	40	4.4	91	ese.			1		10		ese.			sm'h		cloudy.
Wyoming, Port Royal, S. C	30.21	767.3	67	19.4	95	ne.	20	8.9			10		calm					drizzling.
Yantic, Norfolk, Va*	30.38	771.6	54	12.2	80	nne.			2		10							cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 52° 54′, W. 28° 10′*	29.77	756.1	48	8.9	92	sw.			3		3		wsw.	1 h'r	1 h r	4	wsw.	d. clouds.
S. S. Prussian, Liverpool, England*	30.15	765.8	50	10.0		se.			5		1?		se.	0	0			cloudy.?
S. S. Scandinavian, N. 42° 30′, W. 66° 27′*	30.30	769.6	46	7.8		ssw.			3		1		ssw.	0	0	sm'h		blue sky.
S. S. Waldensian, N. 49° 50′, W. 25° 42′*	30.31?	769.9?	52	11.1		wnw.			3		10		w.	15 h'r	15 h'r	short	sw.	overcast.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, N. 45° 45′, W. 36° 24′	29.77	756.1	52	11.1	?	w.			3		8		w.			mod.	w.	showery.
S. S. Indiana, Liverpool, England†	29.98	761.5	50	10.0	78	nw.			3		10		n.	0	0			cloudy.
S. S. Lord Clive, N. 42° 28′, W. 50° 18′*	29.94	760.5				w.			3		0			0	0	sm'h		clear
S. S. Ohio, N. 39° 20′ W. 71° 40′†	30.39	771.9	46	7.8	92	nw.			1		3					sm'h		clear.
ANCHOR LINE.																		
S. S. Devonia, N. 41° 05′ W 62° 10′†	30.49	774.4	53	11.7		calm			0		0					sm'h		very fine.
S. S. Elysia, N. 50° 03′, W. 25° 11′ †	29.91	759.7	52	11.1		se.			6		10		e.	11 h'r	11 h'r	mod.	wsw.	drizzling.
S. S. Utopia, Cadiz, Spain†.	30.14	765.5	64	17.8	62	ese.			2		10		ese.	0	0			overcast.
ATLAS LINE.																		
S. S. Ailsa, N. 10° 27′, W. 75° 37′†	29.89	759.2	84	28.9	87	w.			1		5?		ne.	0	0	sm'h		clear?
S. S. Alvo, Staten Island, N. Y.	30.48	774.2	64	17.8		n.			1		5			0	0			
S. S. Antillas, N. 31° 45′, W. 71° 15′*†	30.10	764.5																
S. S. Athos, Aux Cayes, Hayti, W. I.	29.57	751.1				calm			0					3 h'r	3 h'r			heavy rain.
S. S. Claribel, N. 19° 07′, W. 72° 46′*†	30.16	766.1	79	26.1	82	e.			1		2		calm	3 h'r	3 h'r	sm'h		fine.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 36° 58′ W. 8° 43′	30.38	771.6	66.7	19.3	79	nnw.			4		0							blue sky.
British Merchant, S. 31° 52′, E. 36° 02′	29.78	756.4	70	21.1	84	wsw.			4		8							d. clouds.
Bk. Coppename, N. 43° 55′, W. 17° 36′	30.36	771.1	58.5	14.7	62	calm			0		1							blue sky.
S. S. Earnock, N. 31° 52′, W. 39° 40′	30.28	769.1	71.8	22.1	85	se.			2		2							d. clouds.
Glencairn, S. 25° 29′, E. 62° 10′	29.91	759.7	75	23.9	90	nne.			1–3		10							thund'r st'm
Bkt. Hope, N. 9° 00′, W. 37° 00′	29.98	761.5	78	25.6	78	ne.			4		10							misty.
S. S. Minho, N. 2° 54′ W. 30° 05′	29.93	760.2	78.1	25.6	95	ese.			2		10							raining.
CROMWELL LINE.																		
S. S. Hudson, N. 36° 19′, W. 74° 34′†	30.36	771.1	56	13.3	....	ne.			3		10		ne.	2 h'r	2 h'r	mod.	ne.	overcast.
CUNARD LINE.																		
S. S. Marathon, N 50° 21′. W. 18° 42′	30.23	767.8	54	12.2		ssw.			6		10		ssw.	6 h'r	6 h'r	mod.	ssw.	cloudy.
S. S. Parthia, N. 48° 17′ W. 35° 23′†	29.84	757.9				w.			6		6?		wsw.	7 h'r	7 h'r	con.	s.	overcast.?
S. S. Scythia, N. 50° 56′, W. 14° 46′	30.18	766.6	56	13.3	?	sw.			4		7		wsw.	0	0	short	wsw.	threatening
GENERAL TRANS-ATLANTIC COMPANY																		
S. S. France, N. 43° 45′ W. 44° 29′†	29.99	761.7	51.8	11.0		wnw			4				wnw.	0	0	sm'h	wnw.	clear.
S. S. St. Germain, N. 49° 06′, W. 15° 32′	30.38	771.7	51.8	11.0		ssw.			4				ssw.	0	0	sm'h	ssw.	clear.
S. S. Ville de Marseilles, N. 36° 25′, W. 3° 00′*†	29.90	759.4	68	20.0		w.			3		3		w	0	0	sm'h		fair.
GUION LINE.																		
S. S. Wisconsin, N. 51° 18′, W. 16° 15′*†	30.15	765.8	54	12.2		sw.			4		10		w.	0	0	mod.	sw.	cloudy.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 40° 33′, W. 74° 01′*†	30.26?	768.6?				s.			2		5		s.	0	0	sm'h	s.	fine.
S. S. Gellert, N. 51° 34′, E. 2° 10′	30.02	762.5	54	12.2		nnw.			2		5		ne.	0	0	sm'h	nnw.	fair.
S. S. Lessing, N. 49° 44′ W. 15° 26′	30.19	766.7	60	15.6		wsw.			5		8		wsw.	0	0	sm'h	wsw.	cloudy.
S. S. Silesia, Hamburg, Germany†	29.97	761.2	46	7.8		ne.			6		10		ne.	11 h'r	11 h'r			drizzling.
JOHNSTON LINE.																		
S. S. Thanemore, N. 47° 10′, W. 22° 33′	30.14	765.5				sw.			5		5		sw.	0	0		sw.	fair.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, Buenos Ayres, Argentine*†	30.20	767 1	54	12.2		w.			4		9		wsw.	0	0			cloudy.
LEYLAND LINE.																		
S. S. Iberian, N. 48° 40′, W. 33° 43′	29.84	757.9				ssw.			1		8		w.	0	0	sll't		
MERCHANT STEAMSHIP COMPANY.																		
S. S. Glenapp, Para, Brazil*†	29.84	757.9				var.			3		8		var.	6 h'r	6 h'r			heavy rain.
NATIONAL LINE.																		
S. S. Canada, N. 49° 06′, W. 24° 54′†	29.94	760.5	56	13.3		sw.			4		10		sw.	16 h'r	16 h'r	cross	sw.	raining.
S. S. Denmark, London, Eng	30.02	762.5	60	15.6		nw.			5		8		nw.	0	0			squally.
S. S. England, N. 40° 49′, W. 61° 35′	30.39	771.9				n.			2		1		n.	0	0	sm'h		clear.
S. S. Erin, N. 42° 15′ W. 55° 02′	30.22	767.6	39	3.9		wnw.			4		0			0	0	sm'h		clear.
S. S. Helvetia, N. 41° 08′, W. 58° 20′						nw.			3		1		wnw.	0	0			clear.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Niagara, N. 39° 12′. W. 74° 00′†	30.46	773.7	47	8.3	77	e.			2		2		e.	0	0	mod.	e.	fair.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, Vera Cruz, Mexico*†	29.78	756.4	78	25.6	86	s.			3		10		s.	0	0	small	e.	misty.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N. 44° 18′, W. 42° 46′*†	30.10	764.5	61	16.1		w.			3								wnw.	fair.
S. S. Lepanto, N. 49° 18′ W. 9° 24′*	30.28	769.1	50	10.0		ne.			2							sm'h		fine.
S. S. Maas, N. 49° 44′, W. 6° 55′*†	30.26	768.6	55	12.8		wnw.			1									fine.
S. S. Olbers, N. 33° 31′ W. 16° 05′*†	30.22	767.6	65	18.3		nne.			5–6								ne.	squally.
S. S. P. Caland, N. 49° 36′, W. 10° 30′	30.27	768.8	64.4	18.0		w.			1									fine.
NORTH GERMAN LLOYD.																		
S. S. Elbe, Bremerhaven, Germany	30.31	769.8	58.1	14.5	83	nw.			4–5		2		nnw.	0	0			clear.
S. S. Graf Bismark, Santos, Brazil	30.26	768.6	61.7	16.5		w.			2		3		w.	2 h'r	2 h'r			fair.
S. S. Hapsburg, N. 41° 56′, W. 49° 21′	30.13	765.3	41.9	5.5		wnw.			4		2		wnw.	0	0	mod.	wnw.	fair.
S. S. Hermann, N. 49° 24′, W. 12° 34′†	30.14	765.5	54.5	12.5		wsw.			3		2		e.	0	0	mod.	sw.	fair.
S. S. Hohenzollern, N. 49° 10′, W. 17° 50′*	30.20	767.1	55.4	13.0		w.			2–5		8		sw.	0	0	long	w.	fair.
S. S. Kronprinz F. Wilhelm, N. 45° 31′ W 37° 00′	29.93	760.2	53.6	12.0		w.			4		10		nw.	1 h'r	1 h'r	3	wnw.	cloudy.
S. S. Leipzig, N. 42° 29′, W. 47° 11′	30.10	764.5	45.0	7.2	60	wnw.			4		2		nw.	0	0	sm'h	nw.	clear.
S. S. Main, N. 40° 39′, W. 66° 33′	30.37	771.4	50.0	10.0		calm			0		0			0	0	sm'h	w.	clear.
S. S. Mosel, N. 41° 04′, W. 62° 32′	30.44	773.2	52	11.1		n.			3		0			0	0	sm'h		clear.
S. S. Neckar, N. 46° 13′ W. 39° 08′	29.83	757.7	49.1	9.5		wsw.			4		5		wsw.	sq'ls	sq'ls	mod.	w.	fair.
S. S. Oder, N. 49° 27′. W. 12° 04′	30.28	769.1	64.4	18.0		w.			1		3		w.	0	0	sm'h	w.	clear.
S. S. Ohio, Bremerhaven, Germany	29.99	761.7				e.			4		9		ese.	14 h'r	14 h'r			cloudy.
S. S. Rhein, N. 49° 46′, W. 12° 45′	30.22	767.6				wsw.			3		3		wsw.	0	0	mod.	w.	clear.
S. S. Salier, N. 49° 23′. W. 26° 58′	29.86	758.4	49.1	9 5		n.			3		10		nw.	13 h'	13 h'r	long	sw.	raining.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, N. 35° 42′, E. 154° 14′†	30.04	763.0	64	17.8	67	ssw.			5		8		w.	0	0	r'gh	w.	cloudy.
S. S. Gaelic, N. 37° 57′, W. 150° 22′†	30.01	762.2	64	17.8	94	s.			5		8		s			mod.	s.	cloudy.
S. S. Oceanic, Yokohama, Japan*	29.82	757.4	63	17.2	83	sw.			2		3		var.					fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, N. 33° 07′, W. 78° 38′†	30.27	768.8				nne.			4		10					sm'h		smoky.
S. S. Seminole, Vineyard Sound, Mass†	30.50	774.7	65	18.3	83	sw.			4		0			0	0	sm'h		clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, N. 53° 29′, W. 129° 58′*†	30.30	769.6	42	5.6	?	se.			1		4?		e.					heavy rain?
S. S. Columbia, N. 43° 45′, W. 124° 32′.†	30.33	770.4	48	8.9	71	nnw.			4		2		wsw.			mod.	nw	clear.
S. S. Oregon, San Francisco, Cal.†	29.95	760.7	60	15.6	66	nw.			1		0							clear.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 32° 38′, W. 117° 14′†	29.79	756.7	59	15.0	82	se.			2		10		e.			mod.	sw.	cloudy.
S. S. State of California, Portland, Oregon†	30.31	769.9	38	3.3	100	calm			0		5		nnw.					fair.
S. S. Victoria, N. 49° 10°, W. 123° 56′†	30.19	766.9	43	6.1	83	nw.			2		0			0	0	sm'h		clear.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, N. 21° 00′, W. 157° 52′	29.92	760.0	74	23 3	90	ese.			2		8		ne.	1 h'r	1 h'r	sm'h		showery.
S. S. City of New York, Sydney, N. S. W†	30.11	764.8	63	17.2	83	ssw.			3		1		sw.	0	0			clear.
S. S. City of Rio de Janeiro, N. 15° 37′, W. 96° 30′*†	30.10	764.5	84	28.9	71	wsw.			4		5?		wsw.	0	0	sm'h	sw.	cloudy.?
S. S. City of Sydney, N. 15° 37′, W. 96° 30′*†	30.10	764 5	84	28.9	71	wsw.			4		5		wsw.	0	0	sm'h	sw.	cloudy.
S. S. City of Tokio, Hong Kong, China†	30.00	762.0	79	26.1	78	calm			0		0			2 h'r	2 h'r			clear.
S. S. Colima, N. 24° 16′, W. 112° 18′†	29.90	759.4	62	16.7	72	s.			2		1?		calm	0	0	small	nw.	cloudy.?

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch	Mill.			
PACIFIC MAIL STEAMSHIP COMPANY.—Continued.																		
S. S. Colon, N. 12° 42′, W. 77° 51′†..	29.95	760.7	81	27.2	.....	ne.	.....	.....	4	.....	3	.....	ne.	0	0	mod.	ene.	fair.
S. S. Granada, Panama, Panama†	29.85	758.2	77	25.0	91	n.	.....	.....	1	.....	2	.....	.....	0	0	.....	.....	clear.
S. S. South Carolina, N. 9° 53′, W. 85° 40′†	29.93	760.2	82	27.8	79	ne.	.....	.....	2	.....	0	.....	.....	0	0	light	sw.	clear.
S. S. Zelandia, Sydney, N. S. W	30.05	763.3	63	17.2	46	sw.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	fine
QUEBEC STEAMSHIP CO.																		
S. S. Bermuda, St. Pierre, Martinique, W. I†	30.01	762.2	60?	15.6?	.....	e.	.....	.....	1	.....	5	.....	e.	light	light	mod	se.	fine.
RED STAR LINE.																		
S. S. Rhynland, N. 49° 20′, W. 16° 37′..	30.23	767.8	53	11.7	73	ssw.	.....	.....	5	.....	4	.....	ssw.	0.05	1.3	light	ssw.	fair.
S. S. Switzerland. N. 39° 44′. W. 53° 07 †	30.21	767.3	.....	.....	.....	nnw.	.....	.....	4	.....	5	.....	nw.	0	0	long	wnw.	fair.
S. S. Vaderland, Jersey City, N. J	30.19	766.8	48	8.9	85	s.	.....	.....	1	.....	2	.....	.....	0	0	.....	.....	hazy.
S. S. Waesland, N. 44° 52′, W. 33° 41′..	29.98	761.5	49	9.4	.....	wnw.	.....	.....	4	.....	10	.....	w.	7 h'r	7 h'r	long	w.	cloudy.
ROTTERDAM LINE.																		
S. S.W A Scholten, Rotterdam, Holland	30.03	762.7	59.0	15.0	87	e.	.....	.....	1	.....	8	.....	n.	0	0	.....	.....	
STATE LINE.																		
S. S. State of Florida, N. 41° 48′, W 55° 10′	30.21	767 3	45	7.2	.....	wnw.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	w.	clear.
S. S. State of Indiana, N. 54° 34′, W. 17° 28′†	29.64	752.8	52	11.1	.....	s.	.....	.....	4	.....	8	.....	ssw.	8 h'r	8 h'r	mod.	sw.	cloudy.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 40° 29′, W. 65° 25′†	30.62	777.7	42.8	6.0	.....	nne.	.....	.....	2	.....	2	.....	nne.	0	0	sm'h	nne.	clear.
WARREN LINE.																		
S. S. Iowa, N. 42° 40′, W. 52° 32′*†	30.24	768.1	38	3.3	.....	wnw.	.....	.....	6	.....	2	.....	wnw.	0	0	mod.	wnw.	clear.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 51° 18′. E. 2° 57′	29.89	759.2	.....	.....	.....	.....	.....	.....	.....	.....	4	.....	nw.	0	0	sm'h	.....	blue sky.
WHITE STAR LINE.																		
S. S. Baltic, N. 41° 08′ W. 59° 40′†	30.47	773.9	52	11.1	59	nw.	.....	.....	3	.....	2	.....	wnw.	0	0	sm'h	.....	d clouds.
S. S. Britannic, N. 41° 03′, W. 58° 37′†	30.29	769.4	54	12.2	60	n.	.....	.....	4	.....	2	.....	nnw.	0	0	sm'h	.....	d. clouds.
S S. Celtic, Liverpool, Eng†	30.21	767.3	56	13.3	62	ese.	.....	.....	3	.....	5	.....	se.	0	0	sm'h	.....	fair.
S. S. Germanic, N. 48° 33′, W. 32° 15′†	29.93	760.2	49	9.4	.....	wsw.	.....	.....	4	.....	2	.....	wsw.	.....	.....	con.	w.	d. clouds.
WILSON LINE.																		
S. S. Otranto, N. 41° 17′, W. 69° 15′†..	30.45	773.4	58	14.4	.....	wsw.	.....	.....	2	.....	.....	.....	.....	.....	.....	sm'h	.....	clear.
S. S. Romano, N. 40° 01′, W. 57° 25′†	30.14	765.5	50	10.0	.....	var.	.....	.....	.....	.....	.....	.....	.....	0	0	sm'h	.....	clear.
MISCELLANEOUS.																		
Schr. Addie Fuller, Newport News, Va†	30.46	773.7	51	10.6	72	ene.	.....	.....	3	.....	10 s	.....	.....	0.03	0.8	.....	.....	cloudy.
Bk. Adelaide, S. 22° 14′, W. 36° 20′*†	30.10	764.5	77	25.0	.....	ssw.	.....	.....	6	.....	7	.....	ssw.	6 h'r	6 h'r	mod.	wsw.	cloudy.
Schr. Ajax, Brazos, Texas†	29.74	755.4	.....	.....	.....	ese.	.....	.....	1	.....	5	.....	.....	0	0	.....	.....	hazy.
Bk. Alpha, Santiago de Cuba. W. I†	29.98	761.5	82	27.8	.....	nne.	.....	.....	1	.....	1	.....	.....	0	0	.....	.....	clear.
Schr. Annie Lewis, Aransas Pass, Texas†	29.76	755.9	78	25.6	.....	se.	.....	.....	6	.....	0	.....	.....	0	0	long	se.	clear.
Bk. Anna Thormann, N. 35° 25′, W. 53° 09′	30.29	769.4	58.1	14.5	58	ne.	.....	.....	5	.....	7 k	.....	ne.	4 h'r	4 h'r	mod.	ne.	cloudy.
Bk Antioch, S. 40° 25′, E. 91° 15′*†	30.10	764.5	62	16.7	.....	sw.	.....	.....	7	.....	3	.....	sw.	0	0	sm'h	sw.	clear.
Antonio Lopez, Vera Cruz, Mexico *	29.73	755.1	75.5	24.2	77	s.	.....	.....	2	3 c	.....	.....	.....	0	0	sm'h	.....	hazy.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.32	770.1	78	25.6	.....	wsw.	.....	.....	2	.....	8	.....	w.	0	0	.....	.....	cloudy.
Sch'r Annie M. Smull, S. 20° 08′ E. 105° 10′*†	30.05	763.3	80	26.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	.....	.....	
Bk. Celestina, Montevideo, Uraguay*†	30.15	765.8	.....	.....	.....	ne.	.....	.....	3	.....	4	.....	n.	0	0	.....	.....	fair.
S. S. Compton, Mouth Mississippi River†	29.93	760.2	.....	.....	.....	se.	.....	.....	6	.....	8	.....	sse.	0	0	.....	.....	cloudy.
Schr. Edith R. Seward, N. 18° 20′ W. 76° 15′*†	30.21	767.3	83	28.3	.....	ene.	.....	.....	1	.....	5?	.....	ene.	0	0	mod.	e.	cloudy?
Bk. E. J. Spicer, N. 48° 58′, W. 6° 05′†	30.27	768.8	.....	.....	.....	nne.	.....	.....	4	.....	3	.....	ne.	0	0	sm'h	.....	clear.
S Enoch Train, Off Sable Island, N. S.*	30.21	767.3	.....	.....	.....	w.	.....	.....	1	.....	0	.....	.....	0	0	sm'h	.....	clear.
S. Exporter, S. 34° 00′, W. 25° 40′*†	30.10	764.5	.....	.....	.....	nnw.	.....	.....	3	.....	6	.....	.....	0	0	long	n.	cloudy.
Bk. Freya, Dublin, Ireland	.....	.....	56	13.3	.....	ne.	.....	.....	4	.....	2	.....	ne.	1 h'r	1 h'r	.....	.....	fine.
S. Grecian, S. 34° 05′, E. 95° 38′*†	30.27	768.8	64	17.8	.....	sw.	.....	.....	6	.....	10	.....	se.	.....	.....	long	sw.	light rain
Bk. Hattie G. McFarland, Boston, Mass*†	30.40	772.1	54	12.2	.....	sw.	.....	.....	3	.....	3	.....	sw.	0	0	.....	.....	fair.
Schr. Henry Denison, N. 32° 40′, W. 74° 21′†	30.26	768.6	.....	.....	.....	ne.	.....	.....	3–5	.....	5	.....	ne.	0	0	mod.	ene.	fair.
Horace Scudder, Smithville, N. C.†	30.05	763.3	60	15.6	.....	ne.	.....	.....	4	.....	.....	.....	.....	0	0	.....	.....	cloudy.
Bk. Johanne, N 38° 42′, W. 40° 40′*†	29.93	760.7	64	17.8	.....	s.	.....	.....	4	.....	5	.....	s.	light	light	r'gh	sw.	fair.
Schr. John L. Thomas, Albuquerque Cays, C. A*†	29.98	761.5	.....	.....	.....	ene.	.....	.....	2	.....	1	.....	e.	0	0	.....	.....	fine.
Bkt. Josephine, Guanatamo, Cuba, W. I*†	30.16	766.1	79	26.1	73	n.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	hazy.
Julia H., Havana, Cuba, W. I	30.06	763.5	76.3	24.6	90	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
Bk. Kate Cann, N. 44° 14′. W. 34° 49′*†	30.14	765.5	.....	.....	.....	calm	.....	.....	0	.....	10	.....	.....	6 h'r	6 h'r	sm'h	w.	rainy.
Bkt. Kryolith, N. 54° 34′, W. 29° 50′*†	29.72	754.9	.....	.....	.....	s.	.....	.....	5	.....	5	.....	wsw.	0	0	r'gh	wsw.	threatening.
S. S. Lamperts, N. 32° 28′, E. 27° 48′*	29.99	761.7	70.0	21.1	79	var.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	blue sky
Light House Tender, Laurel, Appalachicola Bay, Fla†	30.12	765.0	78	25.6	.....	se.	.....	.....	4	.....	8	.....	se.	0	0	.....	.....	cloudy.
S. S. Malabar, N. 9° 16′, E. 70° 15′*†	29.88	758.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Bg. Medina, Key Francis, W. I.†	30.13	765.3	.....	.....	.....	s.	.....	.....	1	.....	5	.....	s.	.....	.....	.....	.....	fine.
S. S. Nebo, N. 8° 21′, W. 47° 13′*†	29.90	759.4	.....	.....	.....	nne.	.....	.....	3	.....	2	.....	nne.	0	0	long	nne.	clear.
S. Paramita, S. 1° 40′ W. 31° 22′†	29.78	756.4	84	28.9	.....	se.	.....	.....	3	.....	1	.....	se.	0	0	long	ene.	clear.
Bk. Peppina, Bordeaux, France†	30.07	763.8	65	18.3	62	nw.	.....	.....	5	.....	0	.....	.....	.....	.....	.....	.....	clear.
Bg. Potomac, N. 28° 00′, W. 67° 00′*†	30.25	768.3	.....	.....	.....	ne.	.....	.....	1	.....	.....	.....	ne.	.....	.....	r'gh	ne.	
Bk. Princessen, N. 39° 18′, W. 72° 23′†	30.41	772.3	47	8.3	.....	ene.	.....	.....	2	.....	0	.....	.....	0	0	long	ene.	clear.
Bk. Rosebud, N. 45° 01′ W. 12° 06′*†	30.46	773.7	68	20.0	47	ne.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	.....	fine.
S. Salisbury, S. 41° 01′, W. 13° 03′*	30.04	703.0	61.2	16.2	82	nnw.	.....	.....	6	.....	10	.....	nnw.	4 h'r	4 h'r	long	nnw.	cloudy.
Bk. Stella, S. 17° 41′. W. 94° 25′*	30.02	762.5	70.7	21.5	91	se.	.....	.....	4	.....	4k	.....	se.	.....	.....	sm'h	se.	showery.
Bk. Truro, N. 39° 38′, W. 52° 43′*†	30.15	765.8	.....	.....	.....	nnw.	.....	.....	4	.....	2	.....	n.	0	0	sm'h	.....	clear.
U.S. F.C.S. Fish Hawk, Quantico, Va†	30.52	775.2	59	15.0	76	nne.	.....	.....	2	.....	10	.....	nne.	0.04	1.0	.....	.....	cloudy.
Yacht Vega, N. 28° 57, W. 61° 07′*†	30.50	774.7	75	23.9	.....	nnw.	.....	.....	1	.....	.....	.....	n.	0	0	long	n.	
S. S. Victoria J Peed, Salamanca Id. U. S.C*†	29.11	739.4	.....	.....	.....	ne.	.....	.....	9	.....	.....	.....	.....	.....	.....	.....	.....	
S. Washington, N. 49° 50′, W. 5° 20′*†	30.09	764 3	.....	.....	.....	nnw.	.....	.....	5	.....	1	.....	n.	0	0	sm'h	.....	clear.
Bg. Wauburn, N. 28° 44′, W. 67° 34′*†	30.20	767.1	.....	.....	.....	se.	.....	.....	2	.....	1	.....	se.	0	0	.....	ne.	
Bk. Wm. Wilcox, N. 40° 42′, W. 63° 34′*†	30.50	774.7	58	14.4	.....	n.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	.....	clear.
S. Wm. Woodbury, N. 37° 13′, W. 72° 11′*†	30.16	766.1	62	16.7	88	calm	.....	.....	0	.....	.....	.....	w.	.....	.....	light	ssw.	foggy

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 9, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.85	758.2	69.1	20.6	80	nw.			3		0			0	0	clear	Moiroud.
Algiers			30.07	763.8	66.6	19.2	68	nw.			3		4			0	0	cloudy	Nicolas.
La Calle			30.12	765.0	73.0	22.8	93	n.			1		2			0.039	1.0	fair	Foufréde.
Tunis			30.09	764.3															Jacques.
Saida			29.93	760.1															Dumas.
Tebessa			30.14	765.5	59.0	15.0	89	se.			1?		5			0	0	cloudy	Derché.
Geriville					77.7	25.4	11	se.			8		0			0	0	clear	Lonchamp.
Laghouat			30.12	765.0	75.2	24.0	60	w.			1		0			0	0	clear	Abraham.
Biskra			30.12	765.0	84.2	29.0	27	sse.			3		6			0	0	cloudy	Malau.
Australian.																			
Melbourne, Victoria	30.06	763.5	30.15	765.8	50.3	10.2	85	sw.	4	1.8			3			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.40	746.8	29.94	760.5	62.6	17.0	66	sw.			2		10			0.362	9.2	raining	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.06	738.2	29.82	757.4	58.5	14.7	62	w.	15.0	6.7			5			0.031	0.8		Dr. Wierzbiski.
Eperies	28.88	733.6	29.74	755.5	58.5	14.7	83	nw.			3		10 ks		se.	0.591	15.0		Julius Mikolik.
Gratz	28.67	728.2	29.90	759.4	61.7	16.5	39	nw.			4		10			0	0		Andreas Rospini.
Hermannstadt	28.43	722.2	29.82	757.3	66.7	19.3	54	nw.			2		5			0.094	2.4		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.74	729.9	30.08	764.1	52.0	11.1	64	sw.			3		10			0.087	2.2	raining	The Staff.
Lemberg	28.73	729.8	29.69	754.0	66.0	18.9	69	sw.			1		10			0.323	8.2		Dr. T. Stanecki.
Pola	29.76	755.9	29.87	758.7	69.8	21.0	62	sse.			3		6			0.047	1.2		I. R. Hydrographic Office.
Szathmar	29.29	744.0	29.74	755.4	58.6	14.8	98	sw.			5		10			1.000	25.4	thnd'r st'rm	Joseph Midlinszky, S. J.
Szegedin	29.58	751.3	29.85	758.2	65.8	18.8	62	nw.			3		8			0	0		Karl Staucel.
Trieste	29.80	757.0	29.91	759.6	64.8	18.2	78	sw.			1		10			2.165	55.0		Rieder.
Vienna	29.26	743.3	29.97	761.2	59.4	15.2	41	wnw.			5		8			0.146	3.7		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.01	762.2	30.11	764.8	44.9	7.2	89	s.	21	9.4			10			0.040	1.0	squally	W. Boswell
Armagh, Observatory	29.93	760.2	30.18	766.6	52.0	11.1	86	ssw.	20	8.9			10					squally	S. Call.
Bidston, Liverpool Obs'y			30.34	770.6	49.2	9.6	90	sw.	17	7.6			10					raining	John Hartnup.
Bolton, Sharples	29.79	756.7	30.34	770.6	48.8	9.3	87	sw.	18	8.0			10					raining	Thomas Mackereth, A.S.
Bradford, Yorkshire	29.89	759.2	30.29	769.4	51.3	10.8	67	sw.			1		10			0	0	overcast	J. McLandsborough, F. R
Bridgetown, Barbadoes	29.95	760.7	29.98	761.5	84.0	28.9	56	ne.			1		2					d. clouds	Corpl. J. Surgenor, A. H. C.
Cardington			30.39	771.9	56.6	13.7	71	n.			0.4		8					overcast	John McLaren.
Chatham, School M. E.	30.30	769.6	30.43	772.9	53.3	11.8	63	calm			0		10					misty	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	30.22	767.6	30.45	773.4	58.0	14.4	57	sw.			2		6					d. clouds	The Staff.
Fort Napier, Natal	27.80	706.1	30.02	762.5	79.0	26.1	9	se.			3		0					blue sky	Pvt. E. K. Annis, A. H. C.
Free Town, Sierra Leone	29.56	750.8	29.80	756.9	89.0	31.7	69	sw.			1		3					raining	Sergt. John Robinson.
Gibraltar, Mediterranean	29.87	758.7	29.93	760.2	64.6	18.1	81	e.			6		8					gloomy	Cpl. O. Baldwin.
Glasgow, Observatory	29.91	759.7	30.12	765.0	48.4	9.1	84	ssw.			6		10					raining	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.25	768.3	30.42	772.7	53.0	11.7	63	w.			1		10					misty	The Staff.
Guernsey	30.17	766.3	30.48	774.2	53.0	11.7	90	e.			1		9					drizzling	A. Collenette, F. M. S.
Kew, Observatory	30.39	771.9	30.43	772.9	55.0	12.8	65	w.	6	2.7			8					misty	The Staff.
Leicester, Museum	30.12	765.0	30.38	771.6	53.2	11.8	63	sw.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	29.96	761.0	30.03	762.7	69.0	20.6	77	nw.			2		4					d. clouds	I. H. Whysall.
Nassau, Bahamas	30.11	764.8	30.15	765.8	80.5	26.9	82	se.			1		6					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.85	758.2	30.38	771.6	52.6	11.4	74	sw.			1		10					drizzling	John Mac Email.
Oxford, Radcliffe Obs'y	30.18	766.6	30.41	772.4	54.0	12.2	68	sw.			1		9					d. clouds	The Staff.
Plymouth	30.36	771.1	30.43	772.9	59.1	15.1	63	w.			1		4					misty	John Merrifield.
Sandwick Manse, Orkneys			29.94	760.5	43.8	6.6	94	se.	30	13.4			10					raining	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.84	757.9	29.91	759.7	66.0	18.9	68	s.			1		8					d. clouds	W. H. Lyne.
Sheffield	30.06	763.5	30.35	770.9	55.8	13.2	77	sw.			1		10			0	0	overcast	W. F. Cooper.
Silloth Rectory	30.22	767.6	30.25	768.3	48.5	9.2	86	sw.			4		10			0.135	3.4	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.34	770.6	48.0	8.9	85	s.	14	6.3			10					drizzling	J. New.
Stratfield Turgiss	30.22	767.6	30.43	772.9	56.8	13.8	65	sw.			1		8					gloomy	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	30.42	772.7	30.45	773.4	60	15.6	66	nw.			4		5					d. clouds	W. Newcombe.
Valencia, Observatory	30.24	768.1	30.27	768.8	53.4	11.9	90	ssw.	38	17.0			10			blank	blank	misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.73	755.1	29.77	756.1	42	5.6	67	s.	8	3.6		4 c	4 s	calm	calm	0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	29.64	752.8	29.71	754.6	44	6.7	65	s.	9	4.0		5 ck	0	s.		0	0	fair	G. A. Blair.
Father Point, Quebec*	29.63	752.6	29.65	753.1	41	5.0	70	w.	22	9.8		0	1 k		calm	0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	28.93	734.8	29.74	755.4	51	10.6	93	e.	12	5.4		5 k	5 n	e.	e.	0.064	1.6	cloudy	James Stewart.
Halifax, N. S*	29.76	755.9	29.89	759.2	44	6.7	83	s.	9	4.0			10 ks		w.	0	0	cloudy	A. Allison.
Kingston, Ontario*	29.58	751.3	29.91	759.7	52	11.1	93	w.	4	1.8			10 ks		nw.	0.79	20.1	threatening	A. P. Knight, M. A.
Montreal, Quebec*	29.61	752.1	29.81	757.2	56	13.3	62	nw.				3 c	0	w.		0	0	fair	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.30	744.2	30.00	762.0	47	8.3	100	nw.	3	1.3			fg			0.68	17.3	foggy	Rev. R. Mosley.
Port Dover, Ontario	29.30	744.2	29.99	761.7	50	10.0	100	calm	0	0			fg			0.34	8.6	foggy	H. Morgan.
Port Stanley, Ontario	29.32	744.7	29.97	761.2	50	10.0	100	e.	4	1.8			fg.			0.22	5.6	foggy	M. Payne.
Quebec, Quebec*	29.42	747.3	29.74	755.4	49	9.4	71	n.			3	0	5 s		nw.	0	0	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.52	749.8	29.98	761.5	50	10.0	38	n.	5	2.2		3 c	0	sw.		0	0	fair	W. H. McIntyre.
Saugeen, Ontario*	29.27	743.4	29.99	761.7	48	8.9	89	ne.	10	4.5			fg.			0.02	0.5	foggy	
St. Andrews, N. B	29.68	753.9	29.74	755.4	41	5.0	84	w.	1	0.4			10 n			0	0	cloudy	
Sydney, C. B*	29.85	758.2	29.91	759.7	44	6.7	71	sw.	9	4.0		4 cs	0			0	0	fair	T. C. Hill, C. E.
Toronto, Ontario*	29.62	752.3	30.01	762.2	48	8.9	96	sw.	5	2.2			10 ks		w.	0.17	4.3	cloudy	Magnetic Observatory.
Yarmouth, N. S*	29.75	755.6	29.82	757.4	42	5.6	96	sw.	4	1.8		fg.	0			0	0	light fog	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.90	759.4	30.15	765.8	48	8.9	78	w.	1	0.4		0	0			0	0		John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.19	766.8	30.22	767.6	66.0	18.9	88	sw.	9.0	4.0		0	3 k			0.280	7.1	clear	John Duthie.
Cape Town, C. G. H. Obs'y	30.22	767.6	30.26	768.6	69.0	20.6	64	sse.	15	6.7		0	1			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observer.
CHINESE (*Sub-series*).																			
Hankow	29.85	758.2	30.13	765.3	70.7	21.5	85	sw.			2		10			0.03	0.8		N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.90	759.4	29.93	760.1	63.5	17.5	92	s.	7.4	3.3		ck	2			0	0	fair	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	30.08	764.1	30.13	765.3	48.7	9.3	33	nne.	16.8	7.5			2						Oversergent Fischer.
Fanöe	30.23	767.8	30.25	768.3	52.7	11.5	76	wnw.			4		2						Overloerer Lauridsen.
Godthaab, Greenland	29.62	752.4	29.67	753.5	32.7	0.4	83	calm			0		10			0	0	foggy	S. Kleinschmidt.
Stykkisholm, Iceland	29.63	752.5	29.67	753.6	38.8	3.8	73	ne.			7		8						A. O. Thorlacius.
Thorshavn	29.71	754.5	29.74	755.4	43.3	6.3	88	s.	27	12			10					raining	Overloerer Bergh.
Vestervig	30.14	765.5	30.23	767.8	52.0	11.1	58	wnw.			2		1						Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.72	754.8	30.37	771.4	63.3	17.4	55	nne.			1	2 c	0	sw.		0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.91	759.8	29.68	753.8	54.3	12.4	65	n.			1		k		nw.	0	0		M. Nicot, Director.
Arras, Engineer School	30.17	766.2	30.43	772.9	49.6	9.8	46	nw.			9	2 ck	0			0.012	0.3	slightly cl'dy	M. Fénéon, Command't.
Avignon, Normal School	30.13	765.3	30.21	767.3	64.4	18	44	n.			3		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.84	758.0	30.41	772.4	53.1	11.7	57	ne.			1		10			0	0	covered	M. Saillard, Director.
Beauvais, Normal School	30.17	766.4	30.45	773.3	53.2	11.8	46	ne.			2		2		nnw.	0	0	slightly cl'd'y	M. Frère Eugène Marl.
Besançon, Normal School	29.40	746.8	30.30	769.6	54.3	12.4	70	w.			1	0	5 kn		w.	0.020	0.5	fair	M. Gobin, Director.
Bordeaux, Observatory	30.14	765.5	30.40	772.2	60.8	16.0	44	n.			1		1			0.004	0.1	almost clear	M. Rayet, Director.
Bourges, Normal School	29.85	758.2	30.40	772.2	59.0	15	43	n.			1		k		n.	0	0		M. Postel, Director.
Brest, Naval Observatory	30.21	767.2	30.45	773.4	64.4	18.0	67	sw.			1		4		sw.	0	0		M. de Kermaree, Dir.
Caen, Normal School	30.39	772.0	30.47	773.9	57.9	14.4	55	n.					0			0	0	clear	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	30.03	762.7	30.35	770.9	53.6	12.0	75	w.			3		5			0.047	1.2	cloudy	M. Jadot, Director.
Charleville, Normal School	29.86	758.4	30.38	771.7	50.0	10	78	n.			3		10			0	0	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	29.01	736.8	30.38	771.6	55.0	12.8	55	n.			2		5			0.083	2.1	½ covered	M. Alluard, Director.
Cluny, Normal School	29.50	749.4	30.35	771.0	52.3	11.3	57	n.			2		8		s.	0.08	2.		M. de Villemontée, Dir.
Commercy, Normal School	29.44	747.8	30.31	769.8	47.3	8.5	70	nw.			1		5 n	nw.	nw.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.51	698.7	29.99	761.7	63.0	17.2	68	n.			4					0	0		M. Jeanginard, Director.
Gréasque, du Rhone	28.91	734.4	30.03	762.7	62.1	16.7	30	nw.			6		1		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.46	748.2	30.23	767.8	56.8	13.8	69	nw.			4		kn		n.	0.24	6.		M. Ablard, Director.
Guéret, Normal School	28.81	731.7	30.37	771.3	53.6	12	65	nw.			2		1		nw.	0	0	clear	M. Rivoire, Director.
Lamballe, Normal School	30.18	766.5	30.45	773.5	61.5	16.4	66	nnw.			2		2		nnw.	0	0	slightly cl'dy	M. Ollitrault, Director.
Lescar, Normal School	29.82	757.4	30.38	771.6	65.5	18.6	62	w.			1	0	2 k			0.220	5.6	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	30.38	771.6	30.48	774.2	62.6	17.0	52	sw.			1		2		calm	0	0	¼ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.29	743.9	30.37	771.3	51.1	10.6	64	n.			2		10 kn		n.	0.122	3.1	covered	M. André, Director.
Mans, Normal School	30.15	765.8	30.46	773.7	56.5	13.6	50	ne.			3		2		nne.	0	0	slightly cl'dy	M. Piboen, Director.
Marseille, Observatory	29.80	756.9	30.07	763.7	64.9	18.3	28	nw.			8		1		nw.	0	0		M. Stephan, Director.
Montlouis l'instituteur	25.03	635.7	29.87	758.7	52.5	11.4	35	sw.	15.0	6.7			0			0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	30.04	763.1	30.17	766.3	70.5	21.4	37	w.			3		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.54	750.2	30.35	770.8	45.0	7.2	80	wnw.			1		kn			0.04	1.		M. Hasse, Director
Nantes, Observatory	30.31	769.9	30.47	774.0	63.7	17.6	50	nne.			0–2	0	5 k; kn		nw.	0	0		M. Larocque, Director.
Perpignan, Observatory	30.14	765.6	30.25	768.3	69.1	20.6	30	n.	22.4	10.0			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.43	544.2			33.8	1.0		ne.			1		1		w.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.21	741.9	30.27	768.8	60.1	15.6	44	n.			4		0			0	0	clear	M. Tallien.
Puy de Dôme Obs'y, Summit	25.39	645.0			34.7	1.5	85	n.			3		5		n.	0.165	4.2	½ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	30.40	772.2	30.43	773.0	66.2	19.0	100	ene.			1		5		n.	0	0	½ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.25	768.4	30.47	773.8	64.6	18.1	55	nnw.			1		5		nw.	0	0	cloudy	M. Mouillot, Director.
Rodez, Normal School	28.17	715.6	30.33	770.3	58.6	14.8	42	se.			1		0			0.04	1.	clear	M. Serger, Director.
Rouen, Normal School	30.39	771.8	30.43	773.0	56.8	13.8	56	n.			1		2		n.	0	0	slightly cl'dy	M. Brotier.
Saint Maur, Observatory	30.20	768.5	30.43	772.9	55.8	13.2	47	nne.			2		1		n.	0	0		M. Renou, Director.
Toulouse, Observatory	29.68	753.8	30.41	772.4	64.9	18.3	50	nw.			1		1	n.		0	0	clear	M. Baillaud, Director.
Tours	30.25	768.4	30.43	772.8	60.8	16.0	69	ne.			1	1	1	n.	ne.	0	0	slightly cl'dy	
Versailles, Observatory	29.93	760.2	30.42	772.7	57.2	14.0	44	n.			3					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	30.13	765.4	30.43	772.8	55.6	13.1	47	nne.			2		3	nnw.	nnw.	0	0		M. Marié Davy, Director
GERMAN.																			
Bamberg																			Prof. Dr. Hoh.
Berlin	29.91	759.7	30.09	764.3	43.9	6.6	74	n.			5		10			0.421	10.7		Prof. Dr. Arndt.
Breslau	29.41	746.9	29.93	760.3	46.4	8.0	72	wnw.			5		10			0.051	1.3		Royal University Obs'y.
Carlsruhe	29.84	758.0	30.30	769.5	50.0	10.0	76	w.			1		10	nw.		0.094	2.4	raining	Albert Senz.
Cassel	29.42	747.3	30.13	765.4	47.8	8.8	73	wnw.			3		7	n.		0.142	3.6		Dr. H. Möhl.
Frankfort-on-the-Main	29.85	758.4	30.23	767.9	52.5	11.4	63	nnw.			3		10			0.343	8.7		Physical Society.
Friedrichshafen	28.77	730.7	30.22	767.6	52.3	11.3	82	ssw.			4		5	wnw.		0.217	5.5		Wilhelm, Chief Tel.
Hamburg	30.10	764.6	30.20	767.0	50.7	10.4	45	n.			4		3			0.386	9.8		E. Preller.
Kiel	30.19	766.9	30.21	767.3	50.2	10.1	47	n.			2		1			0.299	7.6		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.69	754.1	30.12	765.1	42.1	5.6	97	nw.			4		10	nw.		0.606	15.4	stormy	H. Leppig, Asst.
Magdeburg	29.95	760.8	30.15	765.8	43.9	6.6	84	nw.			1		10 ks		n.	0.783	19.9		Dr. Assmann.
Memel	29.72	755.0	29.77	756.2	40.8	4.9	100	ene.			6		10					raining	Issermann.
Munich	28.30	718.9	30.17	766.4	52.3	11.3	62	nw.			2		9	sw.		0.067	1.7		Central Station.
Neufahrwasser	29.70	754.4	29.72	754.8	44.4	6.9	96	nne.			4		10			0.445	11.3	raining.	A. Lothes.
Neustadt, Palatinate	29.72	754.8	30.24	768.2	48.7	9.3	79	w.			4		10	w.		0.236	6.0		Dicknether.
Stuttgart	29.29	743.9	30.21	767.2	45.5	7.5	82	nw.					10			0.157	4.0		Prof. Dr. Schoder.
Wustrow	30.14	765.5	30.16	766.1	48.7	9.3	52	n.			4	0	8 s			0.059	1.5		Profs. Brandes & Reimer
GREEK.																			
Athens	29.54	750.4			77.5	25.3		sw.			3.0		5			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.80	756.8	29.85	758.2	84.4	29.1	82	wsw.	48.0	21.5			3		w.	0	0	misty	
Deesa	29.23	742.4	29.68	753.9	101.2	38.4	38	wsw.					0			0	0	blue sky	
Bombay	29.83	757.7	29.87	758.6	85.1	29.5	75	wnw.	18.0	8.0			1		w.	0	0	d. clouds	
Poona, Yarrowda	27.95	709.9	29.76	755.8	91.3	32.9	39	w.	31.0	13.8			1	wnw.		0	0	d. clouds	
Bellary	28.29	718.6	29.75	755.6	83.5	28.6	52	s.	10.3	4.6			8	nw.		0	0	gloomy	
Belgaum	27.28	692.8	29.76	756.0	84.0	28.9	62	w.	8.0	3.6			6	ne.		0	0	misty	
Lahore	28.90	734.2	29.01	752.1	103.8	39.9	18	calm	1.2	0.5			0			0	0	blue sky	
Roorkee	28.80	731.4	29.67	753.6	92.6	33.7	32	e.	4.4	2.0			3			0	0		
Agra	29.11	739.3	29.64	752.9	103.1	39.5	21	e.	5.6	2.5			0			0	0		
Nagpur	28.66	727.9	29.68	753.7	91.7	33.2	26	calm	4.9	2.2			5	w.		0.11	2.8	d. clouds	
Jubbulpore	28.41	721.5	29.72	754.9	94.7	34.8	22	nw.	3.9	1.7			9		w.	0	0	overcast	
Lucknow	29.36	745.8	29.73	755.1	94.0	34.4	31	ese.	2.1	0.9			0			0	0	blue sky	
Allahabad	29.42	747.2	29.72	754.9	93.7	34.3	31	ne.	3.1	1.4			0			0	0	blue sky	
Patna	29.61	752.0	29.79	756.6	88.0	31.1	43	ene.	7.9	3.5			0			0	0	blue sky	
Hazaribagh	27.81	706.4	29.86	758.3	69.8	21.0	71	w.	9.0	4.0			8	w.	e.	0.04	1.0	thund'r st'm	
Cuttack	29.68	753.9	29.76	755.9	87.9	31.1	64	wsw.	2.3	1.0			8			0.05	1.3	d. clouds	
Calcutta, Allpore	29.76	756.0	29.79	756.6	84.2	29.0	65	sse.	1.0	0.4			6	w.		0	0	d. clouds	
Dhubri	29.73	755.0	29.85	758.1	77.5	25.3	67	se.	12.0	5.4			0			0.22	5.6	blue sky	
Chittagong	29.75	755.6	29.84	757.9	79.2	26.2	75	ene.	1.6	0.7			4			0	0	blue sky	
Sibsagar	29.53	750.1	29.87	758.7	79.5	26.4	70	ne.	1.9	0.8			5	sw.	w.	0	0	d. clouds	
Jeypore	28.26	717.8	29.65	753.1	96.5	35.8	18	nw.	4.3	1.9			10		nw.	0	0	overcast	
Zanzibar, Africa	29.95	760.7			80.1	26.7	86	sw.	6.1	2.7			9		sse.	0.26	6.6	raining	
ITALIAN.																			
Udine	29.56	750.7	29.96	760.9	53.6	12.0	83	sw.	4.3	1.9			10			0.772	19.6		Prof. Giovanni Clodig.
Milan	29.42	747.3	29.93	760.3	67.6	19.8	14	nw.	21.7	9.7			1	w.		0.031	0.8		Prof. Schiaparelli.
Padua	29.76	755.9	29.87	759.7	59.2	15.1	79	nnw.	15.4	6.9			10	sw.		0.331	8.4		Prof. Dott. Lorenzoni.
Moncalieri	29.06	738.2	29.96	761.0	67.8	19.9	19	e.	9.4	4.2			2	n.		0	0		Prof. P. F. Denza.
Genoa	29.76	755.9	29.95	760.8	64.8	18.2	74	se.	7.4	3.3			8	nw.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.06	712.8	29.99	761.7	64.0	17.8	29	nw.			2		1	nnw.		0.130	3.3		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
ITALIAN.—Continued.																			
Pesaro	29.82	757.3	29.86	758.5	65.8	18.8	71	ne.	10.5	4.7			8	sw		0	0		Prof. Luigi Guidi.
Florence	29.65	753.2	29.90	759.5	70.9	21.6	57	sw.			2		7	sw.		0	0		Prof. Costantino Pitter.
Leghorn	29.80	756.8	29.88	759.0	67.1	19.5	75	s.	1.3	0.6			5	s.		0	0		Prof. P. Monte.
Rome	29.83	757.6	30.00	761.9	71.2	21.8	44	sw.	11.9	5.3			6			0	0		Prof. P. S. Ferrari.
Lecce	29.69	754.2	29.94	760.4	79.3	26.3	46	nnw.	9.4	4.2			1			0	0		Prof. C. de Giorgi.
Cosenza	29.12	739.7	29.99	761.8	72.0	22.2	77	ese.	3.8	1.7			0			0	0		Prof. D. Conti.
Cagliari	29.84	757.8	30.03	762.7	70.5	21.4	40	nw.			4		0			0	0		Prof. A. Pacinotti.
Palermo	29.82	757.4	30.07	763.7	66.6	19.2	65	ne.	5.6	2.5			3			0	0		Prof. G. Cincciatore.
Syracuse	29.96	760.9	30.00	762.0	70.9	21.6	66	nne.	6.3	2.8			4	sw.		0	0		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.50	749.3	30.01	762.3	67.6	19.8	78	e.	2.5	1.1			1	sw.		0	0		Prof. T. Brioschi.
Stelvio	22.13	562.1			38.3	3.5	80	ne.			4		10			0	0	covered	Prof. P. F. Denza.
Valdobbia	22.10	562.8			30.4	— 0.9	51	ne.			6		3			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.80	756.9	29.84	757.9	48.2	9.0	68	e.	0.9	0.4		0	6 s			0	0	fair	K. Ogawa.
Hakodate	29.88	758.9	29.89	759.2	44.2	6.8	84	e.	12.0	5.4			9			0	0	overcast	
Hiroshima, I. M. Obs'y	29.77	756.1	29.79	756.6	59.6	15.3	93	calm	0	0		ck	10 s			0.004	0.1	covered	J. Sogawa.
Kanazawa	29.68	753.9	29.78	756.4	57.0	13.9	96	n.	3.0	1.3			10 n			0.105	2.7	raining	S. Endo.
Kioto	29.58	751.3	29.75	755.6	59.9	15.5	96	wsw.	1.4	0.6			10 n			0.244	6.2	light rain	M. Tojima.
Kochi	29.74	755.4	29.76	755.9	66.0	18.9	90	sw.	3.0	1.3			10 s			0	0	cloudy	K. Kusunose.
Nagasaki, I. M. Obs'y	29.69	754.1	29.89	759.2	58.9	14.9	85	sw.	1.9	0.8		0	1 s			0	0	clear	S. Takehayashi.
Niigata	29.75	755.6	29.78	756.4	55.3	12.9	98	e.	1.3	0.6		10 ck	0			0.060	1.5	overcast	M. Morita.
Nobiru	29.85	758.2	29.87	758.7	50.0	10.0	81	n.	3.6	1.6		0	9 s			0.010	0.2	cloudy	H. Midzushina.
Supporo					46.5	8.1	92	se.	16.8	7.5			10			0	0	covered	
Tokei Obs'y, Yeddo	29.72	754.9	29.79	756.6	53.2	11.8	100	nne.	9.2	4.1			10 n			0.268	6.8	raining	The Staff.
Wakayama	29.71	754.6	29.76	755.9	62.0	16.7	95	calm	0	0		10 ck	0			0.005	0.1	cloudy	Y. Kuwamura.
MAURITIUS.																			
Mauritius Observatory	29.85	758.2	30.04	763.0	78.4	25.8	63	wsw.	4.5	2.0		1 cs	2 k			0	0	clear	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.64	600.4	29.86	758.4	58.1	14.5	53	se.				0	1 s		s.	0	0	foggy	Prof. Vicente Fernandez.
Leon	24.35	618.5	30.04	763.0	55.9	13.3	62	n.			1	1 c	0	sw.		0	0	foggy	Prof. M. Leal.
Mazatlan	29.68	753.8	29.93	760.3	66.0	18.9	92	nne.	0.9	0.4		0	2 n		wnw.			hazy	F. Quijano, C. E.
Mexico, Central Obs'y	23.06	585.7	30.05	763.1	56.7	13.7	57	calm	0	0		7 c	0	w.		0	0		The Staff.
Morelia	24.18	614.2	30.23	767.9	60.8	16.0	83	se.			2	1	1	s.	se.	0	0	clear	M. Tena, M. D.
Pabellon, Aguascalientes	23.92	607.5	29.95	760.6	50.9	10.5	48	w.			1	7 c	0	sw.		0	0	fine	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.38	593.9	30.10	764.5	53.6	12.0	88	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
San Luis Potosi	24.13	612.9	29.99	761.7	64.4	18.0	45	sw.			1	0	0			0	0	clear	G. Barroeta, M. D.
Zacatecas	22.48	571.0	30.04	763.0	53.1	11.7	84					9 cs	0	nw.		0	0	cloudy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.43	772.8	30.43	772.8	52.3	11.3		nnw.			4					0.087	2.2		
Groningen	30.24	768.2	30.30	769.6	54.7	12.0		nnw.			1					0.067	1.7		
Helder	30.34	770.7	30.34	770.7	47.7	8.7		nnw.			4					0	0		
Hellevoetsluis	30.38	771.7	30.38	771.7	52.7	11.5	68	nnw.			2					0.039	1.0		
Utrecht	30.31	769.9	30.36	771.1	53.1	11.7	67	nw.			3		8			0.079	2.0	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	30.12	765.2	30.19	766.8	43.3	6.3	65	ssw.	13	6			3			0	0		
Brono	30.15	765.9	30.19	766.9	41.4	5.2	66	w.	18	8			10			0.016	0.4		
Christiania	30.05	763.2	30.19	766.9	54.9	12.7	42	se.	9	4			4			0	0		
Gjæsvær	30.08	764.1	30.11	764.7	29.1	— 1.6		n.			2		10						
Lodingen	30.07	763.8	30.12	765.0	39.6	4.2	66	ssw.			2		8			0.008	0.2		
PORTUGUESE.																			
Angra, Azores					62.2	16.8	67	sse.	9.4	4.2			3			0	0		Dr. J. A. Sampaio.
Campo Major	29.03	737.3	29.99	761.8	77.0	25.0	27	ene.	26.6	11.9			6			0.043	1.1		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.08	764.1	30.17	766.3	66.2	19.0	52	sw.					7			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.68	753.8	30.03	762.7	71.4	21.9	44	nne.	26.6	11.9			9			0	0		The Staff.
Ponta Delgada, Azores	30.38	771.7	30.45	773.5	64.4	18.0	46	se.	4.3	1.9			4			0	0		
Saint Paul de Loando	29.66	753.3	29.85	758.3	79.2	26.2	93	wsw.	1.3	0.6			1	sse.		0	0		
Serra da Estrella	25.42	645.7	30.11	764.9	54.3	12.4	49	sse.	20.6	9.2			0			0	0		
RUSSIAN.																			
Akmolinski	28.73	729.7	29.76	755.9	70.3	21.3	31	w.	4	2		3 c	0			0.004	0.1		Major K. Lasarew.
Archangel	29.99	761.7	30.01	762.2	34.0	1.1	83	wnw.	13	6			9 k			0	0		Capt. Sselliwerstow.
Astrakhan	30.13	765.2	30.04	763.1	77.4	25.2	30	s.	13	6		0	3 k			0	0		Capt. Wisganow.
Barnaul	29.36	745.8	29.85	758.1	63.1	17.3	34	nw.	2	1			7			0.272	6.9	light clouds	Meteorological Obs'y.
Dorpat	29.80	757.0	30.06	763.4	41.7	5.4	59	e.	13	6			10 n			0	0	rain & snow	Observatory.
Ekaterinburg	28.60	726.5	29.53	750.0	63.7	17.6	35	w.	31	14		ck	7 kn			0	0	hazy	Meteorological Obs'y.
Kasan	29.67	753.5	29.93	760.2	58.6	14.8	29	nnw.	16	7		0	5			0	0		Observatory.
Kertch	29.98	761.4	30.00	761.9	63.1	17.3	87	se.	4	2		0	2 k			0	0		Lagorio & Sastyrex.
Kieff	29.15	740.4	29.75	755.6	78.1	25.6	18	sse.	31	14		0	0			0	0		Observatory.
Lugan	29.70	754.4	29.89	759.3	83.7	28.7	19	wsw.	13	6			6						Meteorological Obs'y
Moscow	29.52	749.7	29.99	761.8	52.3	11.3	38	se.	7.8	3.5			5 ks			0	0		Meteorological Obs'y.
Nikolaiev	29.91	759.7	29.99	761.5	75.2	24.0	35	s.	22	10		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.63	752.6	29.72	754.8	34.9	1.6	80	calm	0	0			0			0	0		Lieut. Iwanow.
Pekin, China	29.53	750.0	29.67	753.6	73.9	23.3	23	calm	0	0		0	0			0	0		Physical Observatory
St. Petersburg	30.14	765.5	30.15	765.9	44.4	6.9	24	ene.	11	5			9			0	0	light clouds	Central Physical Obs'y.
Semipalatinsk	29.23	742.4	29.86	758.4	69.3	20.7	40	calm	0	0		0	0			0	0		Major Lasareu.
Tashkend, Laboratory	28.55	725.1	30.07	763.7	72.7	22.6	50	calm	0	0		0	7			0	0	light clouds	Teich, A. M.
Tiflis	28.70	728.9	30.11	764.8	58.5	14.7	68	calm	0	0			10			0.882	22.4		Physical Observatory
Vladivostock	29.65	753.1	29.72	754.8	41.2	5.1	98	se.	4	2			10 n			0.063	1.6		
Warsaw	29.31	744.4	29.73	755.1	53.2	11.8	80	wsw.	18	8			10 ks						Astronomical Obs'y.
Wilna	29.12	739.7	29.52	749.7	75.9	24.4	47	sse.	2	1			3			0.532	13.5	light clouds	Berg, Assistant.
Yeniseisk	29.61	752.1	29.90	759.4	46.0	7.8	62	w.	9	4			3			0	0		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	30.09	764.3	30.20	767.0	68.0	20.	60	s.	4.0	1.8			0			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.34	770.5	30.39	772.0	66.7	19.3	57	nw.	1.6	0.7		3	2	se.		0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.32	693.8	30.29	769.4	57.4	14.1	56	ne.	13.0	5.8		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.94	709.6	30.09	764.2	75.2	24.0	33	ne.	16.8	7.5		0	0			inap.	inap.	clear	The Staff.
Murcia, Met. Obs'y	29.98	761.6	30.13	765.4	70.3	21.3	59	e.	15.4	6.9		5	5	w.		0	0	covered	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.31	744.4	30.20	767.0	65.7	18.7	49	nne.	22.4	10.0			1			0	0	almost clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	29.97	761.2	30.04	762.9	78.7	25.9	82	e.	6.7	3.0		0	0			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.84	757.9	29.90	759.4	84.5	29.2	72	se.	4.6	2.1		c	1 ks			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.95	758.2	29.95	760.7	71.4	21.9	49	ese.	27.0	12.1			10		e.	0.016	0.4		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.94	760.4	30.03	762.7	78.8	26.0	86	calm	0	0			10 kn		e.	0.126	3.2	overcast	Manuel Maese.
Tuguegarao, Philippine Id's	29.78	756.4	29.91	759.7	80.1	26.7	74	nnw.	7.2	3.2		0	1 ks			0	0	clear	José L. Yrastorza.
SWEDISH.																			
Haparanda	30.14	765.5	30.18	766.5	39.9	4.4	74	w.			2		10			0	0		
Umea	30.17	766.4	30.22	767.7	45.0	7.2	47	nnw.			2		10			0	0		
Hernosand	30.20	767.1	30.25	768.4	45.0	7.2	39	wnw.			2		6			0	0		
Stockholm	29.99	761.8	30.17	766.3	47.1	8.4	27	ne.			4		10			0	0		
Wisby	30.00	761.9	30.06	763.4	44.6	7.0	39	ene.			6		10			0	0		
Sub-series.																			
Upsala	30.08	764.0	30.17	766.2	48.6	9.2	30	nne.	12.3	5.5			8	sw.	nne.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.86	733.1	30.28	769.2	55.0	12.8	44	n.			2					inap.	inap.	clouds	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
TURKISH.																			
Constantinople	.....	.....	29.95	760.8	70.5	21.4	57	sse.	6	2.5	.....	.....	5	.....	sw.	0	0	.....	The Observatory.
Valona	.....	.....	30.07	763.8	72.5	22.5	.....	sw.	.....	.....	1	.....	2	.....	.....	0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.02	762.5	70.9	21.6	77	wnw.	.....	.....	1	0	0	.....	.....	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.80	756.9	29.88	758.9	55	12.8	74	calm	0	0	.....	.....	10 n	.....	.....	0.64	16.3	light rain	J. O. Barnes.
Alpena, Michigan	29.34	745.2	30.00	762.0	47	8.3	100	ne.	4	1.8	.....	.....	fg.	.....	.....	0.55	14.0	dense fog	Jas. J. Fitzgerald.
Atlanta, Georgia	28.96	735.6	30.13	765.3	60.0	15.6	100	e.	7	3.1	.....	.....	fg.	.....	.....	0.22	5.6	dense fog	H. Hall.
Atlantic City, New Jersey	29.95	760.7	29.96	761.0	59.2	15.1	87	w.	12	5.4	.....	4 k	0	w.	.....	0.18	4.6	fair	Jas. M. Watson.
Augusta, Georgia	30.00	762.0	30.18	766.6	66	18.9	84	nw.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	John Healy.
Baltimore, Maryland	29.96	761.0	30.01	762.2	59	15.0	81	calm	0	0	.....	8 cs	hz.	nw.	.....	0.02	0.5	cloudy	Robert Seybolt.
Barnegat, New Jersey	29.93	760.2	29.95	760.7	60.6	15.9	79	w.	13	5.8	.....	4 cs	0	.....	.....	0.25	6.3	fair	Chas. F. Merritt.
Bismarck, Dakota	27.70	703.6	29.48	748.8	52	11.1	93	ne.	15	6.7	.....	.....	10 s	.....	e.	1.42	36.1	cloudy	Cyrus Cramer.
Boise City, Idaho	27.32	693.9	30.16	766.1	43	6.1	76	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	B. E. Light.
Boston, Massachusetts	29.64	752.8	29.80	756.9	49.0	9.4	93	w.	8	3.6	.....	.....	10 s	.....	w	0.42	10.7	cloudy	O. B. Cole.
Brownsville, Texas	29.62	752.3	29.66	753.4	78	25.6	90	s.	16	7.2	.....	hz.	0	.....	.....	0	0	dense haze	M. McCarty.
Buffalo, New York	29.25	742.9	29.99	761.7	51.7	10.9	98	sw.	2	0.9	.....	.....	fg.	.....	.....	0.16	4.1	dense fog	Wm. Finn.
Burlington, Vermont	29.54	750.3	29.83	757.7	51.7	10.9	91	s.	7	3.1	.....	.....	10 n	.....	s.	0.08	2.0	light rain	G. C. Schaeffer.
Cairo, Illinois	29.56	750.8	29.96	761.0	63.6	17.6	96	s.	6	2.7	.....	.....	10 n	.....	s.	3.31	84.1	light rain	W. H. Ray.
Campo, California	27.41	696.2	29.94	760.5	34.5	1.4	82	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.16	689.9	29.82	757.4	44	6.7	93	se.	.....	.....	1	0	0	.....	.....	0.19	4.8	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.04	763.0	30.06	763.5	62	16.7	93	sw.	16	7.2	.....	4 c	0	.....	.....	0	0	fair	J. E. Lanouette.
Cape May, New Jersey	29.95	760.7	29.98	761.5	55	12.8	93	sw.	7	3.1	.....	2 ck	0	.....	.....	0.06	1.5	clear	W. Bolten.
Cedar Keys, Florida	30.10	764.5	30.12	765.0	75	23.9	82	e.	8	3.6	.....	0	5 ks	.....	e.	inap.	inap.	fair	F. W. Mixer.
Champaign, Illinois	28.99	736.3	29.79	756.7	63.2	17.3	90	s.	7	3.1	.....	.....	10 s	.....	sw.	0.16	4.1	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.11	764.8	30.16	766.1	70	21.1	94	calm	0	0	.....	.....	10s;fg	.....	calm	0	0	threatening	J. H. Smith.
Charlotte, N. Carolina	29.27	743.4	30.11	764.8	60.0	15.6	87	nw.	3	1.3	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.28	743.7	30.09	764.3	64.0	17.8	93	s.	4	1.8	.....	.....	10 n	.....	s.	inap.	inap.	light rain	B. L. Goulding.
Cheyenne, Wyoming	23.76	603.5	29.63	752.6	36.5	2.5	65	nw.	30	13.4	.....	0	2 s	.....	n.	0.07	1.8	clear	E. McGovern.
Chicago, Illinois	29.12	739.6	29.82	757.4	66.3	19.1	77	s.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	J. Mitchell.
Chincoteague, Virginia	29.99	761.7	30.01	762.2	63	17.2	90	w.	12	5.4	.....	6 k	0	w.	.....	inap.	inap.	fair	V. P. Temple.
Cincinnati, Ohio	29.38	746.2	30.03	762.7	68.8	20.4	78	s.	4	1.8	.....	.....	10 ks	.....	sw.	0.13	3.3	threatening	R. B. Watkins.
Cleveland, Ohio	29.30	744.2	30.03	762.7	57	13.9	93	ne.	10	4.5	.....	10 c	0	.....	.....	0.14	3.6	cloudy	J. B. Newlin.
Coleman City, Texas	27.97	710.4	29.76	755.9	62	16.7	58	w.	3	1.3	.....	0	6 s	.....	sw.	0	0	fair	L. Dorman.
Columbus, Ohio	29.16	740.7	30.00	762.0	66	18.9	78	sw	6	2.7	.....	.....	10 s	.....	w.	0.08	2.0	threatening	D. Cuthbertson.
Concho, Texas	27.88	708.1	29.78	756.4	61	16.1	72	sw.	6	2.7	.....	0	4 ks	.....	s.	0	0	fair	W. W. McConihe.
Davenport, Iowa	29.02	737.1	29.66	753.4	65	18.3	78	s.	5	2.2	.....	8 ck	0	sw.	.....	0	0	cloudy	R. R. Martin.
Dayton, Washington T'y	28.49	723.6	30.24	768.1	32.4	0.2	83	calm	0	0	.....	0	0	.....	.....	0	0	clear	H. Clifford.
Deadwood, Dakota	25.05	636.3	29.56	750.8	37	2.8	92	nw.	5	2.2	.....	.....	10 n	.....	.....	1.70	43.2	light snow	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	64	17.8	73	sw.	8	3.6	.....	0	5 ks	.....	sw.	1.05	26.7	fair	D. J. Carr.
Delaware Breakwater, Del.	29.96	761.0	29.98	761.5	59	15.0	87	w.	24	10.7	.....	4 ck;c	hz.	sw; w	.....	0.01	0.3	fair	A. Schneider.
Denison, Texas	28.88	733.5	29.67	753.6	62.5	16.9	88	nw.	3	1.3	.....	.....	10 s	.....	.....	0.68	17.3	cloudy	J. McGlone.
Denver, Colorado	24.48	621.8	29.64	752.8	40.0	4.4	76	e.	4	1.8	.....	0	7 ks	.....	n.	0.08	2.0	fair	F. M. Neal.
Des Moines, Iowa	28.70	729.0	29.59	751.6	59	15.0	87	s.	6	2.7	.....	4 c	3 ks	sw.	.....	0.38	9.7	fair	F. W. Conrad.
Detroit, Michigan	29.26	743.2	29.96	761.0	61.0	16.1	87	se.	2	0.9	.....	hz.	0	.....	.....	0.06	1.5	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.10	688.3	29.64	752.8	43	6.1	83	nw.	17	7.6	.....	0	0	.....	.....	0	0	clear	E. A. Thomas.
Dubuque, Iowa	28.97	735.8	29.67	753.6	65.5	18.6	73	se.	7	3.1	.....	8 c	2 s	s.	calm	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.14	740.1	29.84	757.9	41	5.0	100	ne.	22	9.8	.....	.....	fg	.....	.....	1.77	45.0	dense fog	N. B. Conger.
Eagle Pass, Texas	28.95	735.3	29.75	755.6	70.1	21.2	53	se.	16	7.2	.....	0	0	.....	.....	0	0	clear	F. Belford.
Eagle Rock, Idaho	25.29	642.4	29.97	761.2	35	1.7	72	w.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. M. Clifford.
Eastport, Maine	29.67	753.6	29.74	755.4	44	6.7	80	s.	6	2.7	.....	.....	10 s	.....	s.	0	0	cloudy	J. H. Melton.
El Paso, Texas	26.12	663.4	29.76	755.9	45	7.2	71	nw.	12	5.4	.....	0	0	.....	.....	0.06	1.5	clear	J. F. Marshall.
Erie, Pennsylvania	29.28	743.7	30.00	762.0	61	16.1	87	s.	1	0.4	.....	.....	fg	.....	.....	0.33	8.4	dense fog	R. H. Paxton.
Escanaba, Michigan	29.26	743.2	29.92	760.0	49	9.4	100	ne.	7	3.1	.....	.....	10 n	.....	ne.	0.31	7.9	thnd'er st'rm	C. Dill.
Fort Apache, Arizona	24.94	633.5	29.76	755.9	42	5.6	76	e.	3	1.3	.....	0	0	.....	.....	0.05	1.3	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.11	688.0	29.95	760.7	43	6.1	93	w.	12	5.4	.....	.....	10 s	.....	w.	0.22	5.6	cloudy	B. O. Lenoir.
Fort Bennett, Dakota	27.82	706.6	29.38	746.2	48.0	8.9	93	w.	13	5.8	.....	.....	10 s	.....	w.	0.04	1.0	cloudy	A. Pritchard.
Fort Benton, Montana	27.20	690.9	29.99	761.7	44	6.7	76	nw.	20	8.9	.....	.....	10 s	.....	nw.	0	0	cloudy	G. W. Davis.
Fort Buford, Dakota	27.68	703.1	29.66	753.4	45	7.2	100	n.	9	4.0	.....	.....	10 n	.....	calm	0.20	5.1	light rain	A. H. Bell.
Fort Custer, Montana	26.66	677.2	29.76	755.9	42	5.6	100	nw.	6	2.7	.....	.....	10 n	.....	calm	1.24	31.5	light rain	V. Verge.
Fort Davis, Texas	24.97	634.2	29.69	754.1	47	8.3	54	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. Williams.
Fort Elliott, Texas	26.99	685.5	29.69	754.1	43	6.1	53	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	W. J. Cundall.
Fort Gibson, Indian T'y	29.12	739.6	29.68	753.9	64.0	17.8	84	sw.	8	3.6	.....	.....	10 s	.....	sw.	0.64	16.3	cloudy	J. B. Campbell.
Fort Grant, Arizona	25.17	639.3	29.78	756.4	39	3.9	36	se.	2	0.9	.....	0	0	.....	.....	0.21	5.3	clear	T. J. Macgowan.
Fort Keogh, Montana	27.25	692.1	29.70	754.4	42	5.6	82	nw.	20	8.9	.....	.....	10 s	.....	nw	1.30	33.0	cloudy	W. B. Stockman.
Fort Macon, North Carolina	30.13	765.3	30.14	765.5	66	18.9	100	s.	6	2.7	.....	.....	fg.	.....	calm	0	0	dense fog	L. Leonardy.
Fort McKavett, Texas	27.58	700.5	29.82	757.4	62	16.7	73	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. E. Thatcher.
Fort Missoula, Montana	26.81	681.0	30.11	764.8	37	2.8	82	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Fort St. Michaels, Alaska	30.40	772.1	30.44	773.2	19	— 7.2	100	sw.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	A. P. Leavitt.
Fort Shaw, Montana	26.41	670.8	30.01	762.2	39	3.9	73	nw.	19	8.5	.....	0	7 k	.....	nw.	0	0	fair	A. L. Mathews.
Fort Sill, Indian Territory	28.50	723.9	29.72	754.9	62.5	16.9	69	calm	0	0	.....	.....	10 s	.....	w.	0	0	cloudy	T. Cleary.
Fort Stevenson, Dakota	27.70	703.6	29.53	750.0	46	7.8	100	ne.	22	9.8	.....	.....	10 n	.....	ne.	0.27	6.9	light rain	W. Burrows
Fort Verde, Arizona	.....	.....	.....	.....	43.1	6.2	53	sw.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.33	618.0	.....	.....	37.1	2.8	100	se.	2	0.9	.....	.....	8 s;fg	.....	.....	0.69	17.5	cloudy	T. M. Ambler.
Fredericksburg, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	H. S. Miles.
Galveston, Texas	29.73	755.1	29.77	756.1	78	25.6	86	se.	16	7.2	.....	0	hz.	.....	.....	0	0	clear	E. O'C. MacInerney.
Grand Haven, Michigan	29.23	742.4	29.89	759.2	62.0	16.7	81	e.	6	2.7	.....	.....	10 s	.....	.....	0.13	3.3	cloudy	W. A. Reid.
Hatteras, North Carolina	30.12	765.0	30.14	765.5	61	16.1	100	nw.	2	0.9	.....	9 k	fg.	sw.	.....	0	0	cloudy	R. M. Crawford.
Helena, Montana	25.82	655.8	29.99	761.7	42	5.6	62	w.	12	5.4	.....	0	6 s	.....	w.	inap	inap.	fair	S. Wheaton.
Henrietta, Texas	28.71	729.2	29.69	754.1	65.0	18.3	73	se.	2	0.9	.....	.....	10 s	.....	.....	0.40	10.2	cloudy	J. W. Byram
Huron, Dakota	28 10	713.7	29.45	748.0	52.7	11.5	93	w.	2	0.9	.....	.....	10 ks	.....	w.	0.13	3.3	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.15	740.4	29.94	760.5	65.5	18.6	80	s.	6	2.7	.....	.....	10 n	.....	s.	0.49	12.4	light rain	O. Schutze
Indianola, Texas	29.69	754.1	29.72	754.9	78.4	25.8	91	s.	20	8.9	.....	0	5 k	.....	s.	0	0	fair	I. A. Reed.
Jacksboro, Texas	28.55	725.2	29.70	754.4	61	16.1	84	e.	4	1.8	.....	.....	10 s	.....	s.	0.16	4.1	cloudy	J. P. Sherry.
Jacksonville, Florida	30.09	764.3	30.13	765.3	76	24.4	85	e.	3	1.3	.....	2 k	0	e.	.....	0.21	5.3	clear	J. W. Smith.
Keokuk, Iowa	29.01	736.8	29.66	753.4	63.0	17.2	84	se.	14	6.3	.....	0	4 s	.....	se.	0.20	5.1	fair	F. Z. Gosewisch
Key West, Florida	30.02	762.5	30.04	763.0	82.0	27.8	72	se.	12	5.4	.....	1 cs	3 k	.....	se.	0	0	fair	L. M. Melbourne.
Kittyhawk, North Carolina	30.11	764.8	30.13	765.3	65	18.3	93	w.	12	5.4	.....	0	6 k	.....	w.	0	0	fair	E. A. Beals.
Knoxville, Tennessee	29.08	738.6	30.10	764.5	64.3	17.9	92	se.	4	1.8	.....	0	6 s	.....	sw.	0	0	fair	J. A. Cody.
La Crosse, Wisconsin	28.88	733.5	29.64	752.8	67	19.4	63	se.	11	4.9	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	S. C. Emery.
La Mesilla, New Mexico	25.95	659.1	29.71	754.6	41.0	5.0	76	calm	0	0	.....	0	0	.....	.....	0.05	1.3	clear	N. D. Lane.
Leavenworth, Kansas	28.68	728.5	29.56	750.8	63	17.2	78	s.	8	3.6	.....	3 cs	0	sw.	.....	0	0	clear	A. W. Browne.
Lewiston, Idaho	29.40	746.7	30.24	768.1	41	5.0	65	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. M. Burlew.
Little Rock, Arkansas	29.51	749.5	29.82	757.4	65	18.3	100	calm	0	0	.....	.....	10 n	.....	calm	1.57	39.9	thund'r st'rm	W. U. Simmons.
Los Angeles, California	29.63	752.6	30.03	762.7	51.4	10.8	86	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.46	748.3	30.01	762.2	66	18.9	90	sw.	3	1.3	.....	.....	10 n	.....	.....	0.48	12.2	heavy rain	H. C. Smyth.
Lynchburg, Virginia	29.41	747.0	30.09	764.3	56.0	13.3	86	sw.	4	1.8	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	W. R. Bushby.
Madison, Wisconsin	28.76	730.5	29.76	755.9	63	17.2	90	se.	12	5.4	.....	5 cs	4 s	se.	se.	0	0	cloudy	C. A. Shaw.
Marquette, Michigan	29.24	742.7	29.96	761.0	42	5.6	93	ne.	3	1.3	.....	.....	fg.	.....	.....	0.06	1.5	dense fog	J. Gilligan.
Memphis, Tennessee	29.55	750.6	29.88	758.9	75	23.9	85	s.	8	3.6	.....	.....	10 s	.....	s.	1.12	28.4	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.06	738.1	29.80	756.9	48	8.9	100	e.	6	2.7	.....	.....	fg	.....	.....	0.07	1.8	dense fog	W. Line.
Mobile, Alabama	29.97	761.2	30.01	762.2	77	25.0	85	se.	6	2.7	.....	2 k	0	s.	.....	0	0	clear	J. D. Paxton.
Montgomery, Alabama	29.83	757.7	30.06	763.5	72	22.2	94	se.	4	1.8	.....	.....	10 ks	.....	se.	1.08	27.4	cloudy	J. B. McLaughlin.

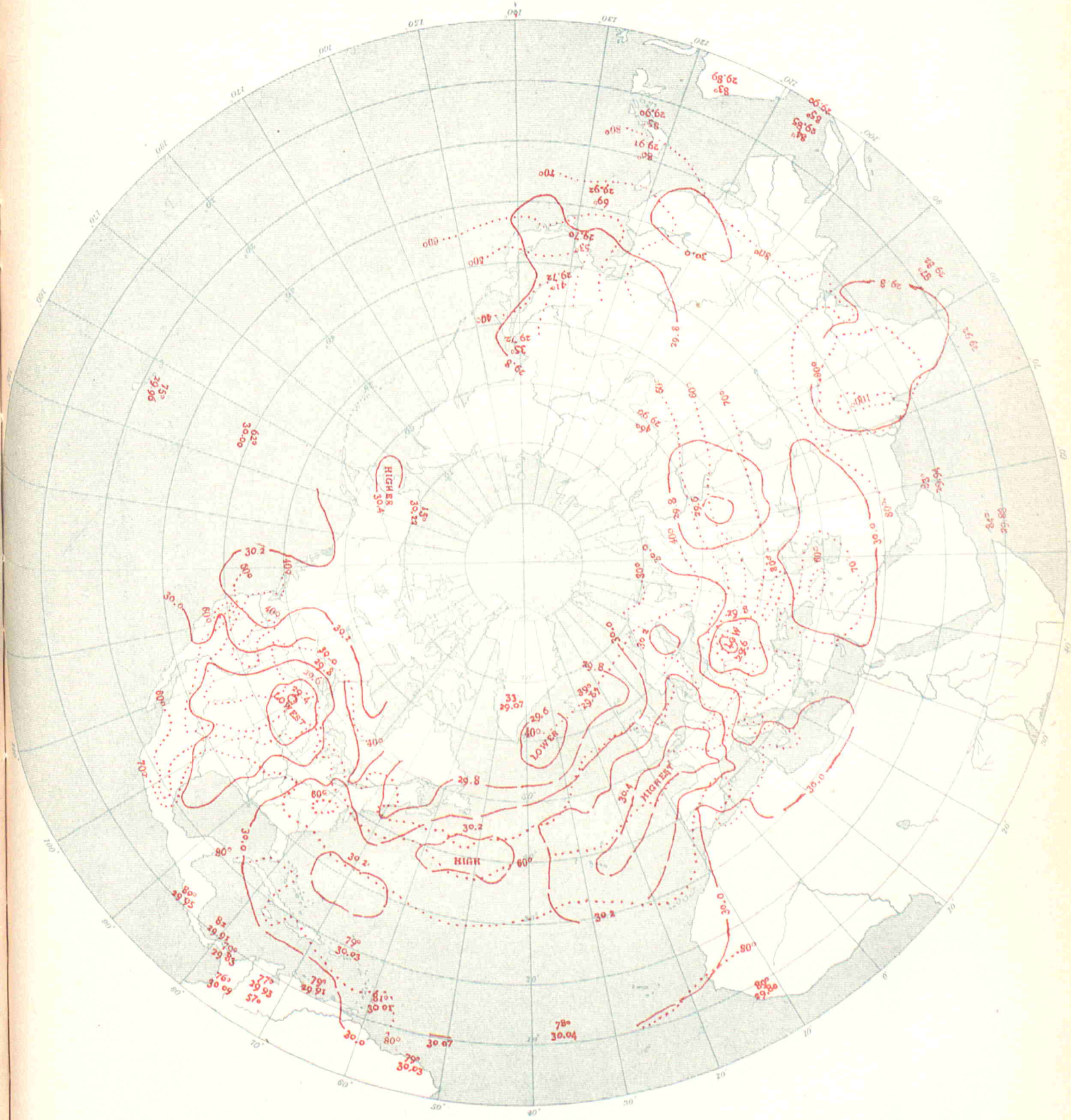
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Moorhead, Minnesota	28.56	725.4	29.54	750.3	53	11.7	93	se.	28	12.5			10 s		se.	1.57	39.9	cloudy	H. Bessant.
Morgantown, W. Virginia	29.05	737.9	30.06	763.5	64.0	17.8	90	calm	0	0		0	6 s			inap.	inap.	fair	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.50	596.9	29.68	753.9	31.0	— 0.6	86	nw	52	23.2			10s;sk		nw.	0	0	cloudy	J. G. Linsley.
Nashville, Tennessee	29.45	748.0	29.98	761.5	71.0	21.7	83	se.	4	1.8			10 ks		s.	0	0	cloudy	L. A. Jesunofsky.
New Haven, Connecticut	29.74	755.4	29.86	758.4	54	12.2	86	sw.	5	2.2		7 cs	sk.	w.		0.58	14.7	clearing	J. H. Sherman.
New London, Connecticut	29.81	757.2	29.86	758.4	55	12.8	74	nw.	8	3.6		7 cs	o	n.		0.42	10.7	fair	J. G. Lynch.
New Orleans, Louisiana	29.88	758.9	29.94	760.5	78.0	25.6	88	s.	12	5.4		0	6 s		s.	0.02	0.5	fair	L. Dunne.
Newport, Rhode Island	29.75	755.6	29.80	756.9	52.0	11.1	86	w.	9	4.0			10 s		w.	0.30	7.6	cloudy	W. McGillivray.
New River, N. Carolina																			C. C. Corbin.
New Shoreham, Rhode I'd.	29.79	756.7	29.82	757.4	50.0	10.0	93	w.	24	10.7			fg.			0.44	11.2	dense fog	W. Davis.
New York, New York	29.74	755.4	29.92	760.0	53	11.7	86	w.	10	4.5		3 cs	o			0.15	3.8	clear	E. B. Garriott.
Norfolk, Virginia	30.03	762.7	30.06	763.5	66	18.9	90	sw.	8	3.6		2 cs	o	w.		0	0	clear	J. T. Elker.
North Platte, Nebraska	26.70	678.2	29.57	751.1	44.6	7.0	83	nw.	12	5.4			10 s			0.25	6.3	cloudy	E. F. Brady.
Olympia, Washington T'y	30.31	769.9	30.35	770.9	39.0	3.9	89	nw.	2	0.9		10 ck	o	w.		inap.	inap	cloudy	J. Dascomb.
Omaha, Nebraska	28.38	720.8	29.54	750.3	58.9	14.9	87	se.	8	3.6		0	8 ks		se.	0.47	11.9	cloudy	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.21	767.3	30.22	767.6	14.8	— 9.6	98	nne.	10	4.5			10 n			0.14	3.6	light snow	P. H. Ray.
Oswego, New York	29.62	752.3	29.95	760.7	48.0	8.9	89	w.	8	3.6			10 s			0.64	16.3	cloudy	S. W. Beall.
Palestine, Texas	29.19	741.4	29.74	755.4	76.0	24.4	90	s.	16	7.2		10 cs	o	s.		0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.00	762.0	30.03	762.7	77.0	25.0	90	se.	12	5.4		0	2 ks		se.	0	0	clear	M. McGauran.
Philadelphia, Pa.	29.89	759.2	29.99	761.7	57	13.9	80	w.	7	3.1		0	3 s;hz		n.	0.12	3.0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.46	443.5	29.52	749.8	10	—12.2	100	ne.	25	11.2		0	4 s			1.55	39.4	fair	C. N. Kitchel.
Pioche, Nevada	24.02	610.1	29.94	760.5	39	3.9	42	n.	13	5.8		0	o			0	0	clear	
Pittsburg, Pennsylvania	29.22	742.2	30.02	762.5	56.6	13.7	90	calm	0	0			fg.			0.22	5.6	dense fog	J. H. Bryce.
Poplar River, Montana	27.58	700.5						se.			1		10 s		calm	0.83	21.1	cloudy	U. D. Maxwell.
Port Eads, Louisiana	29.96	761.0	29.97	761.2	76.5	24.7	94	se.	14	6.3		hz.	4 k		se.	0	0	fair	H. G. Christian.
Port Huron, Michigan	29.28	743.7	29.96	761.0	52.4	11.3	100	calm	0	0			fg.			0.16	4.1	dense fog	W. O. Bailey.
Portland, Maine	29.70	754.4	29.76	755.9	51.0	10.6	72	w.	4	1.8			10n;fg		c; w	0.08	2.0	light rain	D. C. Murphy.
Portland, Oregon	30.26	768.6	30.33	770.4	39.2	4.0	82	calm	0	0		0	o			0	0	clear	M. L. Hearne.
Portsmouth, N. Carolina					66	18.9	90	nw.	6	2.7			fg.		calm	0	0	dense fog	F. P. Chaffee.
Prescott, Arizona	24.69	627.1	29.79	756.7	36	2.2	66	s.	4	1.8		0	o			0	0	clear	J. McN. Wright.
Provincetown, Mass.	29.75	755.6	29.78	756.4	48	8.9	100	sw.	6	2.7			10 s		sw.	0.59	15.0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.05	763.3	30.06	763.5	75	23.9	85	e.	8	3.6		1 ck	o	calm		0.75	19.0	clear	W. J. Evans.
Red Bluff, California	29.72	754.9	30.09	764.3	63.0	17.2	26	n.	16	7.2		0	o			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.42	747.3	29.66	753.4	76	24.4	82	s.	11	4.9		0	o			0	0	clear	P. M. Wilson.
Rochester, New York	29.30	744.2	29.96	761.0	54	12.2	86	nw.	7	3.1		2 cs	3 s;fg	nw.	nw.	0.18	4.6	fair	F. Gillam.
Roseburg, Oregon	29.78	756.4	30.33	770.4	39	3.9	82	calm	0	0		0	o			0	0	clear	J. J. Nanry.
Sacramento, California	29.92	760.0	30.00	762.0	63.0	17.2	47	n.	11	4.9		0	o			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.23	742.4	29.82	757.4	62.2	16.8	100	s.	14	6.3			10 n			0.71	18.0	light rain	J. H. Webber.
St. Paul, Minnesota	28.72	729.5	29.57	751.1	61.0	16.1	84	e.	9	4.0			10 s		e.	0.40	10.2	cloudy	P. F. Lyons.
St. Vincent, Minnesota	28.80	731.5	29.66	753.4	47	8.3	93	ne.	13	5.8			10 n		calm	0.83	21.1	light rain	G. Kingsbury.
Salt Lake City, Utah	25.61	650.5	29.93	760.2	46	7.8	56	calm	0	0		6 k	o	w.		inap.	inap.	fair	J. Craig.
San Antonio, Texas	28.97	735.8	29.67	753.6	76.0	24.4	85	e.	4	1.8			10 s		se.	0	0	cloudy	E. Lane.
San Diego, California	29.91	759.7	29.98	761.5	51.6	10.9	88	e.	2	0.9		0	o			0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.34	745.2	30.01	762.2	63	17.2	84	n.	13	5.8			10 s			0.15	3.8	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.88	758.9	29.92	760.0	55.0	12.8	86	w.	17	7.6		1 ck	hz.	w.	calm	0.15	3.8	clear	B. A. Blundon.
San Francisco, California	29.96	761.0	30.02	762.5	55	12.8	72	sw.	3	1.3		0	o			0	0	clear	N. Gorom.
Santa Fé, New Mexico	22.99	583.9	29.60	751.8	38	3.3	66	calm	0	0		4 c	o	nw.		0.08	2.0	fair	H. U. Jones.
Savannah, Georgia	30.08	764.0	30.16	766.1	74.5	23.6	83	e.	4	1.8		0	8 ks		e.	0.01	0.3	cloudy	H. W. Ford.
Shreveport, Louisiana	29.51	749.5	29.75	755.6	76	24.4	82	s.	12	5.4			10 s		s.	0	0	cloudy	E. N. Meekins.
Silver City, New Mexico	24.13	612.9	29.68	753.9	37	2.8	53	nw.	8	3.6		3 k	o	nw.		0.33	8.4	clear	J. B. Wallace.
Sitka, Alaska	30.13	765.3	30.19	766.8	39.1	3.9	79	se.	8	3.6			10 s		se.	0.64	16.3	cloudy	J. J. McLean.
Smithville, North Carolina	30.12	765.0	30.16	766.1	68	20.0	93	nw.	5	2.2			10 s			0	0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.15	715.0	30.20	767.1	36.5	2.5	84	s.	1	0.4		0	o			0	0	clear	D. Moore.
Springfield, Illinois	29.12	739.6	29.79	756.7	61	16.1	87	s.	12	5.4			10 s		w.	0.29	7.4	cloudy	T. B. Jennings.
Springfield, Massachusetts	29.72	754.9	29.85	758.2	55.0	12.8	80	se.	2	0.9			10 s		sw.	0.43	10.9	cloudy	T. S. Outram.
Springfield, Mo.	28.37	720.6	29.85	758.2	62	16.7	84	s.	10	4.5			10 s			1.86	47.2	cloudy	J. B. Marbury.
Starkville, Miss.	29.51	749.5			74.2	23.4	90	se.	12	5.4			10 ks		se.	0	0	cloudy	M. J. Wright.
Stockton, Texas	26.80	680.7	29.81	757.2	51.0	10.6	61	ne.	8	3.6		0	o			0	0	clear	J. O'Dowd.
Thatcher's Island, Mass.	29.80	756.9	29.85	758.2	49.9	9.9	81	nw.	5	2.2		0	hz.			0	0	clear	F. R. Day.
Toledo, Ohio	29.31	744.5	29.99	761.7	60	15.6	87	e.	2	0.9			10s;sk		sw.	0.04	1.0	threatening	A. Buell.
Tucson, Arizona	27.49	698.2	29.83	757.7	49	9.4	71	se.	3	1.3		0	o			0.01	0.3	clear	J. L. Whiteside.
Umatilla, Oregon	29.96	761.0	30.33	770.4	36.5	2.5	71	s.	2	0.9		0	o			0	0	clear	J. Daly.
Uvalde, Texas	28.73	729.7	29.68	753.9	74	23.3	46	n.	8	3.6			10 ks		n.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.58	751.3	29.83	757.7	75	23.9	82	se.	8	3.6		4 c;hz	o			inap.	inap.	fair	H. T. Brisbane.
Visalia, California																			W. L. Seward.
Washington, D. C.	29.91	759.7	30.02	762.5	60.9	16.1	81	sw.	1	0.4		4 cs	o	sw.		inap.	inap.	fair	B. M. Purssell.
West Las Animas, Colorado	25.80	655.3	29.66	753.4	42	5.6	76	w.	6	2.7		4 ck	o	nw.		0	0	fair	J. Grover.
Williamsport, Pa.	29.38	746.2	29.98	761.5	50.7	10.4	86	sw.	1	0.4		5 cs	5 s	w.		0.15	3.8	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.08	764.0	30.13	765.3	68	20.0	90	s.	1	0.4			10 s			0	0	cloudy	A. T. Sherwood.
Winnemucca, Nevada	25.75	654.0	30.10	764.5	32	0.0	52	sw.	1	0.4		0	o			0	0	clear	J. R. Williams.
Yankton, Dakota	28.20	716.3	29.48	748.8	53	11.7	72	calm	0	0		0	o			0.20	5.1	clear	J. H. Atfield.
Yuma, Arizona	29.72	754.9	29.87	758.7	55.6	13.1	91	calm	0	0		0	fg.			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.02	559.3			56.5	13.6	75	ne.	1	0.4			9 ks		s.	0	0	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W. I.	30.00	762.0	30.01	762.2	81	27.2	87	e.				5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	30.06	763.5	30.09	764.3	76	24.4	95	se.	3	1.3			10 n		calm	0.70	17.8	raining	J. I. Plume.
Havana, Cuba, W. I.	30.01	762.2	30.06	763.5	80	26.7	79	se.	1.2	0.5		0	o			0	0	clear	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.02	762.5	30.03	762.7	77.3	25.2	83	se.	1	0.4			10 n		e.	0.02	0.5	light rain	Robert Johnston.
Magua, San Domingo, W. I.					72	22.2		ne.			4	0	5 ck		e.	0.10	2.5		S. M. Pike.
Navassa, W. I.																			F. M. Everett.
Paramaribo, S. A.	30.02	762.5	30.03	762.7	79	26.1	87	e.			1		10 n	e.	e.	0.720	18.3	raining	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.47	748.5	29.93	760.2	77	25.0	89	s.			1	7 ck	2 k	calm	s.	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							93	ne.			1	0	2 k		ne.	0	0	clear	Earl Flint.
Santiago de Cuba, W. I.	30.00	762.0	30.02	762.5	78	25.6	69	calm	0	0		0	2 ks			0.11	2.8	fair	Robert Mason.
York Factory, B. A.	30.30	769.6	30.35	770.9	32.0	0.0	94	se.	13	5.8		4 k	6 s	se.	se.	0	0	cloudy	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Alert, S. 12° 50′ E. 47° 03′	30.00	762.0	77	25.0	90	nnw.			2-3		8							showery.
H. M. S. Alexandra, N. 38° 49′ E. 19° 46′	29.97	761.2	68	20.0	84	nw.			2		2					1	nw.	d. clouds.
H. M. S. Amethyst, Funchal, Maderia Island	30.13	765.3	65	18.3	92	sw.			3		2	wnw.						d. clouds.
H. M. S. S. S. Champion, S. 7° 00′ W. 104° 05′			77	25.0	90	ese.			1		2	calm						d. clouds.
H. M. S. Cleopatra, N. 4° 07′, E. 105° 37′	29.85	758.2	83.5	28.6	83	calm			0		1							blue sky.
H. M. S. Comus, N. 5° 08′, E. 114° 41′	29.89	759.2	82.5	28.1	91	calm			0		3	wsw.						d. clouds.
H. M. S. Coquette, Alexandria, Egypt	29.98	761.5	70	21.1		wnw.			1		0							blue sky.
H. M. S. Dido, N. 11° 05′, W. 62° 08′	30.02	762.5	78	25.6		e.			2		0					2	e.	misty.
H. M. S. Druid, N. 17° 24′, W. 83° 57′	29.96	761.0	81	27.2	84	ese.			3-4		3	ese.				2	ese.	d. clouds.
H. M. S. Dwart, S. 32° 34′, W. 58° 05′	30.08	764.0	48.3	9.1	90	nnw.			2		0					2	nnw.	blue sky.
H. M. S. Eclipse, S 12° 00′, E. 44° 15′	30.01	762.2	80	26.7		ese.			1-2		9							raining.
H. M. S. Emerald, S. 49° 35′, W. 174° 20′	29.34	745.2	53	11.7	100	n.			2		2	nne.				2	nne.	d. clouds.
H. M. S. Euryalus, Trincomalee, Ceylon	29.82	757.4	87	30.6	84	nne.			2		2	calm						d. clouds.
H. M. S. Fantome, N. 10° 52′, W. 67° 59′	29.91	759.7	79	26.1		e.			2		9	e.				2	e.	misty.
H. M. S. Flying Fish, N. 32° 44′, E. 129° 52′	29.83	757.7	63	17.2	94	w.			1		7							misty.
H. M. S. Fawn, N. 11° 31′, E. 54° 07′	29.88	758.9	83.5	28.6	77	se.			2		5	se.				1	s.	d. clouds.
H. M. S. Gannet, S. 27° 03′, W. 70° 51′	29.99	761.7	57.5	14.2	84	se.			1		10							gloomy.
H. M. S. Garnet, Colonia, Uruguay	30.04	763.0	53	11.7	79	w.			6		8							squally.
H. M. S. Griffon, N. 38° 56′, W. 64° 58′	30.10	764.5	60	15.6	76	s.			6		10					7	ssw.	d. clouds.
H. M. S. Inconstant, Simon's Bay, Cape Colony	30.25	768.3	67	19.4	74	sse.			2		2	sse.						d. clouds.
H. M. S. Iron Duke, N. 28° 17′, E. 129° 18′	29.92	760.0	69	20.6	95	nw.			1		4	nw.						d. clouds.
H. M. S. Kingfisher, S. 20° 43′ W. 73° 58′	29.98	761.5	63	17.2		sse.			3-4		9	calm				1	s.	d. clouds.
H. M. S. Lark, S. 8° 14′, E. 156° 30′	29.87	758.7	77.3	25.2		e.			2		10					1	e.	heavy rain.
H. M. S. Magpie, N. 34° 56′, E. 139° 52′	29.75	755.6	64.7	18.2	96	sw.			1		10							raining.
H. M. S. Northampton, Bermuda, W. I.	30.19	766.8	67	19.4	79	e.			3		4	ese.						d. clouds.
H. M. S. Orontes, N 19° 35′ W. 74° 45′	30.28?	769.1?	79.5	26.4	88	ne.			3		1					3	ne.	blue sky.
H. M. S. Pegasus, N. 1° 17′, E. 103° 51′	29.90	759.4	84.5	29.2	89	e.			2		3					2	e.	d. clouds.
H. M. S. Phoenix, N. 17° 41′, W. 75° 53′	30.31?	769.9?	80	26.7	91	e.			3-5		7					3	e.	d. clouds.
H. M. S. Rambler, S. 10° 30′, E. 13° 05′	29.86	758.4	80	26.7	95	wsw.			1		0							blue sky.
H. M. S. Rocket, N. 48° 27′ W. 123° 27′	30.28	769.1	43	6.1	91	calm			0		2							d. clouds.
H. M. S. Sylvia, N. 43° 43′, W. 12° 52′	30.38	771.6	59.5	15.3	70	ene.			5		2	ese.				3	ese.	d. clouds.
H. M. S. Tenedos, N. 44° 40′ W. 63° 35′	29.88	758.9	47	8.3	77	sw.			1		10							overcast.
H. M. S. Triumph, Caldera, Chili	29.99	761.7	56	13.3	93	calm			0		8	calm						d. clouds.
H. M. S. Tyne, N. 35° 12′, E. 18° 20′	30.07	763.8	67	19.4	84	wnw.					4	nw.				1	wnw.	d. clouds.
H. M. S. Woodlark, N. 20° 45′ E. 59° 29′	29.94	760.5	82.5	28.1	74	ssw.			4-5		0					3	sw.	misty.
PORTUGUESE NAVAL.																		
Rio Lima, Porto Praya, Cape Verd Island	30.07	763.8	77.0	25.0	87	ene.			2		3					1		d. clouds.
Tamega, Macao, China	29.97	761.2	84.2	29.0	81	s.			3		3		sse.					d. clouds.
SWEDISH NAVAL.																		
Balder, N. 49° 16′ W. 3° 50′	30.44	773.2	57.2	14.0	78	wnw.			1		5							
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	30.01	762.2	77	25.0	91	se.	12	5.4			5		se.	0	0			fair.
Naval Hospital, Portsmouth, N. H.	29.81	757.2	48	8.9	92	nw.	2	0.9			10		nw.	0.4	10.			cloudy.
Naval Hospital, Yokohama, Japan	29.67	753.6	56.5	13.6	94	s.			1		10		w.	0.30	7.6			raining.
Adams, N. 33° 23′ W. 118° 53′	29.74	755.4	59	15.0	94	nnw.			0-1		8		nnw.	0	0	long	nnw.	fair.
Alaska, Payta, Peru	29.94	760.5	63	17.2	89	se.			1		5			0	0	sm'h		fair.
Alert, Kobe, Japan*	29.64	752.8	63	17.2	94	calm			0		10		calm	0	0	sm'h		misty.
Alliance, Hampton Roads, Va	30.07	763.8	62	16.7	94	wsw.			1		5			0	0	sm'h		fair.
Ashuelot, Kobe, Japan	29.73	755.1	63	17.2	94	calm			0		10		calm					drizzling.
Brooklyn, Montevideo, Uruguay	30.01	762.2	52	11.1	100	nw.	13	5.8			10		nw.	0.04	1.0	mod.	nw.	cloudy.
Colorado, New York, N. Y.	29.91	759.7	54	12.2	100	wsw.	10	4.5			5		nw.	0.06	1.5			clearing.
Enterprise, Hampton Roads, Va*	30.10	764.5	61	16.1	94	sw.			3		5		nw.					hazy.
Essex, S. 30° 46′, W. 45° 42′	30.20	767.1	63	17.2	72	n.			3		2		sw.			long	sw.	cloudy.
Franklin, Norfolk, Va	30.11	764.8	63	17.2	94	sw.	7	3.1			5		w.	0	0			fair.
Galena, Port Mahon, Minorca Island	30.26	768.6	66	18.9	84	nne.			2-3		0					sm'h		clear.
Independence, Mare Island, Cal	29.91	759.7	57	13.9	81	nw.			2		0			0	0			clear.
Irquois, Mare Island, Cal	29.99	761.7	63	17.2	57	calm			0		0							clear.
Kearsage, Hampton Roads, Va	30.12	765.0	61	16.1	?	wsw.			2		2		sw.			sm'h		fair.
Lackawanna, Callao, Peru	29.97	761.2	61	16.1	94	n.			1		10		n.	0	0			foggy.
Lancaster, Port Mahon, Minorca Island*	30.15	765.8	67	19.4	74	nne.			4		0			0	0			clear.
Marion, S. 26° 02′, W. 35° 32′	30.15	765.8	70	21.1	80	s.			4		5		s.	0	0	long	sw.	fair.
Michigan, Erie, Pa	29.93	760.2	60	15.6	100	s.			2		10		s.					cloudy.
Minnesota, Newport, R. I.	29.79	756.7	54	12.2	93	nw.	3	1.3			10		nw.					overcast.
Monocacy, N. 33° 46′, E. 132° 24′	29.82	757.4	60	15.6	94	w.			2		5		calm			sm'h		fair.
New Hampshire, Newport, R. I.	29.78	756.4	53	11.7	93	nw.			2		10		nw.			sm'h		cloudy.
Nipsic, Port Mahon, Minorca Island	30.21	767.3	67	19.4	48	nne.			4		0					sm'h		clear.
Onward, Callao, Peru†	30.07	763.8	61	16.1	94	n.			1		10		w.			long	w.	cloudy.
Palos, Kobe, Japan	29.77	756.1	60	15.6	100	calm			0		10		calm					drizzling.
Passaic, Washington, D. C.	30.05	763.3	59	15.0	100	sw.			1		2		nw.					fair.
Pensacola, Callao, Peru	30.00	762.0	62	16.7	88	n.			1		10		s.	0	0	sm'h		cloudy.
Portsmouth, Plymouth, Eng.	30.41	772.4	55	12.8	100	sw.			2		10		w.			sm'h		fair.
Powhatan, Hampton Roads, Va	30.08	764.0	62	16.7	94	wsw.			2		5							fair.
Quinnebaug, Port Mahon, Minorca Island	30.21	767.3	67	19.4	55	ne.			4		2		ne.			sm'h		fair.
Ranger, Mazatlan, Mexico*	29.87	758.7	70	21.1	95	w.			2		5		calm	0	0	long	sw.	hazy.
Richmond, Kobe, Japan*	29.70	754.4	63	17.2	100	calm			0		10			0.22	5.6			light rain.
Saratoga, Plymouth, Eng.	30.43	772.9	54	12.2	80	sw.			1-2		8		sw.	0	0	sm'h		cloudy.
Shenandoah, New York, N. Y*	29.97	761.2	56	13.3	87	wnw.			3-4		8							fair.
St. Louis, League Island, Pa	30.23	767.8	60	15.6	76	w.	6	2.7			2		w.	0.20	5.1			fair.
Swatara, N. 37° 05′ E. 125° 44′*	29.60	751.8	53	11.7	86	s.			5		8		s.			long	sw.	fair.
Tennessee, Fort Monroe, Va	30.13	765.3	62	16.7	94	sw.	2	0.9			5			0	0			hazy.
Vandalia, Hampton Roads, Va*	30.05	763.3	62	16.7	94	sw.			2		5		w.	0	0			fair.
Wabash, Boston, Mass.	29.79	759.7	53	11.7	86	nw.	2	0.9			10		nw.	0.53	13.5			cloudy.
Wachusetts, Fort Wrangle, Alaska	30.16	766.1	37	2.8	100	sw.			1		10		sw.			sm'h		cloudy.
Wyoming, Port Royal, S. C.	30.18	766.6	72	22.2	95	e.	5	2.2			10		se.	0	0			overcast.
Yantic, Norfolk, Va*	30.06	763.5	61	16.1	94	sw.			2		8							cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 51° 15′, W. 34° 05′*	29.89	759.2	49	9.4	85	wsw.			6		5		wsw.	2 h'r	2 h'r	5	wsw.	raining.
S. S. Prussian, Liverpool, Eng*	30.16	766.1	58	14.4		ssw.			2		8		s.	1 h'r	1 h'r			cloudy.
S. S. Scandinavian, N. 42° 25′, W. 60° 35′*	29.94	760.5	46	7.8		s.			4		9		ssw.	0	0	sm'h		d. clouds.
S. S. Waldensian, N. 48° 50′, W. 31° 13′*	30.29	769.4	50	10.0		wsw.			6		10		wsw.	0	0	hv'y	wsw.	overcast.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, N. 43° 04′ W. 42° 25′	30.18	766.6	55	12.8	73	w.			2		2		w.			sm'h	w.	clear.
S. S. Indiana, Liverpool, Eng†	30.44	773.1	55	12.8	73	s.			2		10		sw.	light	light			cloudy.
S. S. Lord Clive, N. 42° 02′, W. 56° 15′	30.00	762.0				s.			1		7		w.	0	0	sm'h		cloudy.
S. S. Ohio, Delaware River†	30.40	772.1	45	7.2	92	nne.			1		2							clear
ANCHOR LINE.																		
S. S. Devonia, N. 42° 00′, W. 55°, 40′†	30.25	768.3	48	8.9		se.			1		2		se.			sm'h		clear.
S. S. Elysia, N. 51° 02′, W. 20° 48′ †	30.30	769.6	59	15.0		wsw.			1		3		sw.	5 h'r	5 h'r	mod.	sw.	clear.
S. S. Utopia, Cadiz, Spain†	30.15	765.8	72	22.2	60	ese.			6		10		ese.	2 h'r	2 h'r			overcast.
ATLAS LINE.																		
S. S. Ailsa, N. 10° 00′, W. 77° 50′†	29.86	758.4	80	26.7	82	ne.			3		5?		ne.	0	0	long	ne.	overcast?
Antillas, N. 28° 15′, W. 70° 15′*†	30.30	769.6																fine.
S. S. Athos, Jacmel, Hayti, W. I.	29.42	747.3				calm			0									
S. S. Claribel, N. 18° 33′, W. 72° 20′*†	30.14	765.5	80	26.7	82	ese.			3		4		se.	2 h'r	2 h'r	sm'h		fine.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 37° 43′, W. 5° 53′	30.25	768.3	63.5	17.5	60	nnw.			4		1							blue sky.
British Merchant, S. 31° 02′ E. 33° 15′	30.14	765.5	69.5	20.8	71	sw.			4–5		3							d. clouds.
Bk. Commewyne, N. 55° 14′, W. 10° 10′	30.05	763.3	51	10.6	78	wnw.			4		3							d. clouds.
Bk. Coppename, N. 43° 40′, W. 17° 40′	30.47	773.9	60.5	15.8	58	calm			0		0							blue sky.
Earnock, N. 33° 25′, W. 38° 30′	30.18	766.6	68.5	20.3	97	se.			4		3							blue sky.
Glencairn, S. 26° 10′, E. 61° 00′	30.00	762.0	72	22.2	80	ssw.			2		3							d. clouds.
S. S. Gordon Castle, N. 32° 13′, E. 127° 05′	29.90	759.4	60	15.6	88	nw.			2		3							d. clouds.
Bkt. Hope, N. 10° 35′, W. 38° 15′	30.04	763.0	77.5	25.3	78	ne.			4		10							overcast.
Minho, S. 1° 25′, W. 31° 19′	29.98	761.5	81.9	27.7	87	se.			2		7							misty.
CROMWELL LINE.																		
S. S. Hudson, N. 40° 40′, W. 74° 00′†	30.24	768.1	56	13.3		w.			2		4		sw.	8 h'r	8 h'r	mod.	e.	fair.
CUNARD LINE.																		
S. S. Marathon, N. 51° 20′, W. 11° 00′	30.40	772.1	52	11.1		wsw.			6		10		wsw.	0	0	mod.	w.	misty.
S. S. Parthia, N. 46° 32′, W. 40° 41′†	30.18	766.6				s.			6		5?		w.	4 h'r	4 h'r	con.	sw.	cloudy ?
S. S. Scythia, N. 50° 19′, W. 21° 46′	30.19	766.8	57.5	14.2	?	sw.			1		6?		sw.	0	0	mod.	sw.	clear.?
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. France, N. 45° 25′, W. 37° 22′†	30.22	767.7	50.0	10.0		wnw.			2				wnw.	rain	rain	sm'h	w.	covered.
S. S. St. Germain, N. 48° 03′, W. 21° 44′	30.45	773.4	57.2	14.0		s.			5				s.	rain	rain	h'vy	s.	covered.
S. S. Ville de Marseilles, Gibraltar, Mediterranean*†	29.80	756.9	68	20.0		e.			6		6		e.	0	0			cloudy.
GUION LINE.																		
S. S. Wisconsin, N. 50° 30′ W. 23° 30′*†	30.20	767.1	54	12.2		ssw.			2		2		w.	2 h'r	2 h'r	mod.	sw.	fair.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 40° 42′, W. 74° 01′*†	29.91	759.7				w.			2		4		nw.	2 h'r	2 h'r			fine.
S. S. Lessing, N. 49° 22′, W. 22° 27′	30.18	766.5	65	18.3		wsw.			3		10			0	0	sm'h	wsw.	covered.
S. S. Silesia, Hamburg, Germany†	30.24	768.1	56	13.3		n.			5–6		5		n.	0	0			d. clouds.
JOHNSTON LINE.																		
S. S. Thanemore, N. 46° 06′, W. 27° 37′	30.20	767.1				sw.			3		10		sw.	0	0		sw.	
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, Buenos Ayres*†	30.13	765.3	56	13.3		sw.			2		8		wsw.	0	0			cloudy.
LEYLAND LINE.																		
S. S. Iberian, N. 50° 15′. W. 26° 41′	30.09	764.3				ssw.			1		2		sw.	2 h'r	2 h'r		sw.	clear.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenapp, S. 0° 16′, W. 46° 56′ *†	29.88	758.9				calm			0		8		calm	2 h'r	2 h'r	sm'h		
NATIONAL LINE.																		
S. S. Canada, N. 47° 36′, W. 30° 34′†	30.20	767.1	54	12.2		sw.			2		8		wsw.	4 h'r	4 h'r	high	w.	fine.
S. S. Denmark, London, Eng	30.39	771.9	57	13.9		ese.			2		10			½ h'r	½ h'r			hazy.
S. S. England, N. 41° 04′ W. 55° 30′	30.26	768.6				w.			4		5?		w.	0	0	mod.	w.	cloudy ?
S. S. Erin, N. 41° 52′, W. 61° 02′	30.03	762.7	53	11.7		s.			5		10		sse.	1 h'r	1 h'r	sm'h		fine.
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, Vera Cruz, Mexico*†	29.81	757.2	77	25.0	86	ssw.			2		10		ne.	0	0	small	ne.	misty.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N. 42° 47′, W. 48° 09′*†	30.32	770.1	60	15.6		wsw.			2								w.	fair.
S. S. Maas, N. 49° 45′, W. 12° 48′*†	30.40	772.1	56	13.3		sw.			1									hazy.
S. S. Olbers, N. 35° 53′, W. 15° 00′*†	30.20	767.1	65.5	18.6		nne.			6							high	ne.	cloudy.
NORTH GERMAN LLOYD.																		
S. S. Elbe, Bremerhaven, Germany	30.30	769.5	51.8	11.0	94	wnw.			5–6		8		wnw.	0	0			covered.
S. S. Graf Bismarck, Santos, Brazil	30.28	769.1	62.6	17.0		calm			0		6		ene.	5 h'r	5 h'r			fair.
S. S. Habsburg, N. 44° 08′, W. 43° 00′	30.18	766.6	49.1	9.5		nnw.			1		8		nw.	0	0	long	nw.	fair.
S. S. Hermann, N. 49° 56′ W. 5° 08′†	30.20	767.1	54.5	12.5		sw.			2		2		n.	0	0	mod.	sw.	fair.
S. S. Hohenzollern, N. 47° 54′, W. 24° 12′*	30.24	768.1	55.4	13.0		sw.			2		10		w.	rain	rain	long	w.	
S. S. Kronprinz F. Wilhelm, N. 47° 32′, W. 31° 06′	30.18	766.6	55.4	13.0		calm			0		10			0	0			cloudy.
S. S. Lepzig, N. 41° 33′. W. 52° 50′	30.24	768.1	68.0?	20.0?	60	nw.			1–2		1		e.	0	0	sm'h		clear.
S. S. Main, N. 40° 28′, W. 73° 22′	29.92	760.0	50.0	10.0		w.			3–4		8		wsw.	0	0	mod	w.	overcast.
S. S. Mosel, N. 41° 44′, W. 55° 17′	30.25	768.3	59	15.0		ene.			1		6		ene.	0	0	sm'h		cloudy.
S. S. Neckar, N. 43° 36′, W. 44° 39′	30.20	767.1	50.0	10.0		w.			1–2		3		w.	squ'ls	squ'ls	sm'h	w.	fair.
S. S. Oder, N. 50° 13′, W. 3° 16′	30.46	773.7	53.6	12.0		sw.			2		3		wsw.	0	0	sm'h	w.	clear.
S. S. Ohio, Bremerhaven, Germany	30.26	768.6				nne.			6		5		nne.	9 h'r	9 h'r			fair.
S. S. Rhein, N. 49° 25′ W. 20° 01′	30.19	766.8				wsw.			3		10		wsw.	0	0	mod.	w.	foggy.
S. S. Salier, N. 48° 23′ W. 32° 42′	30.16	766.1	47.3	8.5		wsw.			6		8		wsw.	4 h'r	4 h'r	cross	wsw.	cloudy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, N. 35° 28′ E. 150° 10′†	30.14	765.5	70	21.1	75	ssw.			5		8		sw.	0	0	r'gh	sw.	cloudy.
S. S. Gaelic, N. 37° 59′, W. 156° 07′†	30.00	762.0	62	16.7	88	se.			5		10		se.			h'vy	se.	overcast.
S. S. Oceanic, Yokohama, Japan*	29.77	756.1	62	16.7	83	calm			0		10		var.					rainy.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga.†	30.21	767.3				sse.			1		8?		sse.					clear.?
S. S. Seminole, Boston, Mass†	29.77	756.1	68	20.0	69	wnw.			5		8		nnw.	3 h'r	3 h'r			cloudy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, N. 56° 31′, W. 132° 29′*†	30.20	767.1	37	2.8	100	se.			1		2?		e.					cloudy ?
S. S. Oregon, San Francisco, Calif	30.03	762.7	55	12.8	87	calm			0		0							hazy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Pedro Bay, Cal†	29.92	760.0	58	14.4	94	ene.			1		10		e.			sm'h		cloudy.
S. S. State of California, N. 42° 00′, W. 124° 40′†	30.31	769.9	49	9.4	78	nne.			3		2		nw.			sm'h	w.	clear.
S. S. Victoria, N. 49° 10′, W. 123° 56′†	30.22	767.5	38	3.3	81	calm			0		0			0	0	sm'h		clear.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, N. 21° 14′, W. 157° 37′	29.96	761.0	75	23.9	81	sw.			2		2		e.	0	0	sm'h		clear.
S. S. City of New York, Sydney, N. S. W.†	30.16	766.1	63	17.2	78	se.			2		8		se.	0	0			overcast.
S. S. City of Rio de Janeiro, Acapulo, Mexico*†	30.05	763.3	75	23.9	81	calm			0		5			0	0	sm'h		fair.
S. S. City of Sydney, N. 36° 40′, W. 124° 49′†	30.09	764.3	53	11.7	80	nw.			6		8		nnw.	0	0	h'vy	nw.	cloudy.
S. S. City of Tokio, Hong Kong, China†	29.99	761.7	79	26.1	82	calm			0		2		e.	0	0			fair.
S. S. Colima, N. 23° 03′, W. 107° 45′†	29.90	759.4	67	19.4	89	ne.			3		3		ene.	0	0	small	w.	fair.
S. S. Colon, Aspinwall, Panama†	29.91	759.7	82	27.8		ne.			3		10		ne.	0	0	mod.	ne.	covered.
S. S. Granada, Panama, Panama†	29.83	757.7	79	26.1	91	calm			0		5?		nw.	0	0			cloudy ?
S. S. South Carolina, Punta Arenas, Costa Rica, W.I.†	29.95	760.7	80	26.7	91	e.			1		5		ne.	0	0	light	sw.	fair.
S. S. Zelandia, Sydney, N. S. W.	30.16	766.1	59	15.0	70	calm			0		0							fine.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	Upper. 0-10	Lower. 0-10	Upper. From.	Lower. From.	Inch.	Mill.			
Quebec Steamship Company.																		
S. S. Bermuda, St. Pierre, W. I†	30.06	763.5	61?	16.1?	.....	e.	.....	.....	1	.....	6	.....	ene.	sh'rs	sh'rs	g'tl	se.	fine.
Red Star Line.																		
S. S. Belgenland, N. 49° 08', W. 68° 04'†	29.94	760.5	54	12.2	93	sw.	.....	.....	5	.....	1	.....	sw.	6 h'r	6 h'r	mod.	sw.	heavy rain.
S. S. Nederland, N. 50° 38', W. 0° 04'†	30.58	776.7	52	11.1	.....	wsw.	.....	.....	3	.....	5	.....	w.	o	o	.....	.....	fair.
S. S. Rhynland, N. 49° 34', W. 8° 30'	30.40	772.1	56	13.3	74	sw.	.....	.....	4	.....	0	.....	.....	o	o	light	wsw.	clear.
S. S. Switzerland, N. 39° 35' W. 58° 07'†	30.22	767.6	.....	.....	.....	sw.	.....	.....	2	.....	10	.....	sw.	o	o	sm'h	.....	cloudy.
S. S. Vaderland. Jersey City, N. J.	29.77	756.1	56	13.3	93	wnw.	.....	.....	1	.....	0	.....	.....	6 h'r	6 h'r	.....	.....	clear.
S. S. Waesland, N 43° 05', W. 39° 08'	30.18	766.6	52	11.1	.....	nw.	.....	.....	4	.....	10	.....	nnw.	o	o	long	wnw	cloudy.
Rotterdam Line.																		
S. S. W. A. Scholten, Rotterdam, Holland	30.21	767.3	53.2	11.8	97	nnw.	.....	.....	3	.....	9	.....	nnw.	2 h'r	2 h'r	.....	.....	
State Line.																		
S. S. State of Florida, N. 41° 35', W. 61° 28'	30.06	763.5	54	12.2	.....	s.	.....	.....	4	.....	9	.....	sw.	o	o	sm'h	s.	cloudy.
S. S State of Indiana, N. 53° 06', W. 24° 26'†	29.89	759.2	53	11.7	.....	s.	.....	.....	3	.....	2	.....	sw.	o	o	mod.	sw.	fair.
Thingvalla Line.																		
S. S. Thingvalla, N. 41° 06', W. 59° 51'†	30.32	770.1	59.0	15.0	.....	ssw.	.....	.....	2	.....	6	.....	ssw.	o	o	sm'h	ssw.	covered.
Warren Line.																		
S. S. Iowa, N. 42° 39' W. 58° 42'*†	30.25	768.3	41	5.0	.....	ssw	.....	.....	2	.....	8	.....	ssw.	o	o	sm'h	.....	cloudy.
White Cross Line.																		
S. S. Plantyn, Antwerp, Belgium	30.31	769.9	.....	.....	.....	.....	.....	.....	.....	.....	5	.....	nw.	o	o	.....	.....	fine.
White Star Line.																		
S. S. Baltic, N. 41° 40' W. 52° 07'†	30.33	770.4	49	9.4	71	s.	.....	.....	2	.....	2	.....	wnw.	c	o	sm'h	.....	d. clouds.
S. S. Britannic, N. 41° 58', W. 50° 18'†	30.21	767.3	52	11.1	72	nne.	.....	.....	3	.....	0	.....	.....	o	o	.....	.....	blue sky.
S. S. Celtic, Liverpool, Engt	30.33	770.4	57	13.9	57	sw.	.....	.....	3	.....	10	.....	.....	12 h'r	12 h'r	sm'h	.....	drizzling
S. S. Germanic, N. 46° 32', W. 39° 14'†	30.17	766 3	47	8.3	.....	nw.	.....	.....	5	.....	6	.....	nw.	.....	.....	high	nnw.	d. clouds.
Wilson Line.																		
S. S. Romano, N. 40° 31', W. 51° 35'*†	30.12	765.0	51	10.6	.....	calm	.....	.....	0	.....	.....	.....	.....	o	o	sm'h	sse.	clear.
Miscellaneous.																		
Schr. Abbie Clifford, Barbadoes, W. I*†	30.05	763.3	79	26.1	.....	e.	.....	.....	2	.....	5	.....	.....	o	o	.....	.....	
Sch. Addie Fuller, Newport News, Va†	30.12	765.0	64	17.8	83	ese.	.....	.....	3	2 c	0	.....	.....	o	o	.....	.....	clear.
Bk. Adelaide, S. 19° 17', W. 34° 31'*†	30.12	765.0	78	25.6	.....	s.	.....	.....	6	.....	9	.....	sse.	8 h'r	8 h'r	rg'h	s.	covered.
Schr. Ajax, Brazos, Texas†	29.76	755.9	.....	.....	.....	se.	.....	.....	3	.....	5	.....	.....	o	o	.....	.....	hazy.
Bk. Alpha, Santiago de Cuba, W. I.†	29.96	761.0	80	26.7	.....	nne.	.....	.....	1	.....	1	.....	ne.	1 h'r	1 h'r	.....	.....	clear.
Sch'r Annie R. Lewis, Aransas Pass, Texas†	29.75	755.6	76	24.4	.....	sse.	.....	.....	7	.....	10	.....	sse.	o	o	hv'y	sse.	misty.
Bk. Annie Thorman, N. 35° 06', W. 51° 40'	30.15	765.9	62.1	16.7	66	sse	.....	.....	4	.....	0	s.	.....	o	o	mod.	e.	clear.
Bk. Antioch, S. 40° 35' E. 96° 05'*†	30.14	765.5	56	13.3	.....	sw.	.....	.....	7	.....	3	.....	sw.	o	o	r'gh	sw.	cloudy.
S. S. Antonio Lopez, Vera Cruz, Mexico*	29.74	755.4	75	23.9	85	s.	.....	.....	2	.....	0	.....	.....	o	o	sm'h	.....	hazy.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.36	771.1	75	23.9	.....	wnw.	.....	.....	3	.....	0	.....	.....	o	o	.....	.....	fine.
Schr. Annie M. Smull, S. 17° 40', E. 105° 25'*†	30.05	763.3	82	27.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	o	o	.....	.....	
S. S Compton, Mouth Mississippi River†	29.99	761.7	.....	.....	.....	ese.	.....	.....	6	.....	8	.....	se.	o	o	.....	.....	cloudy.
Schr. Edith R. Seward, Port Antonio, Jamaica, W.I*†	30.17	766.3	83	28.3	.....	e.	.....	.....	2	.....	3	.....	ene.	o	o	.....	.....	fair.
S. E. J. Spicer, N. 50° 12', W. 2° 30'†	30.42	772.7	.....	.....	.....	s.	.....	.....	3	.....	5	.....	nne.	o	o	sm'h	.....	
S. Enoch Train, Off Halifax, N. S.*	30.01	762.2	.....	.....	.....	s.	.....	.....	4	.....	10	.....	sw.	o	o	sm'h	.....	foggy.
Bk. Freya, Dublin, Ireland	.....	.....	56	13.3	.....	ssw.	.....	.....	6	.....	8	.....	sw.	1 h'r	1 h'r	.....	.....	fair.
S. Grecian, S. 21° 20', E. 98° 52'*†	30.30	769.6	57	13.9	.....	sse.	.....	.....	6	.....	10	.....	se.	o	o	long	sw.	
Bk Hattie G. McFarland, Boston, Mass*†	29.78	756.4	56	13.3	.....	nw.	.....	.....	3	.....	10	.....	nw.	3 h'r	3 h'r	.....	.....	cloudy.
Schr. Henry Denison, N. 31° 23', W. 75° 33'†	30.20	767.1	.....	.....	.....	ese.	.....	.....	3	.....	2	.....	se.	o	o	light	se.	fine.
Bk. Horace Scudder, Smithville, N. C.†	30.02	762.5	70	21.1	.....	sw.	.....	.....	1	.....	.....	.....	.....	o	o	.....	.....	cloudy.
Bk. Johanne, N 39° 20', W. 38° 30'*†	30.07	763.8	65	18.3	.....	s.	.....	.....	5	.....	5	.....	s.	light	light	mod.	s.	hazy.
Schr. John L. Thomas, Albuquerque Cays, C. A*†	29.98	761.5	.....	.....	.....	ene.	.....	.....	1	.....	2	.....	e.	o	o	.....	.....	clear.
Bkt. Josephine, Guanatamo, W. I.*†	30.13	765.3	83	28.3	60	ene.	.....	.....	3	.....	0	.....	.....	o	o	.....	.....	clear.
Julia H., Havana, Cuba, W. I†	30.06	762.5	77.3	25.2	86	e.	.....	.....	2	.....	1k;ks	.....	.....	.....	.....	.....	.....	blue sky.
Bk. Kate Cann, N. 43° 57', W. 38° 33'*†	30.14	765.5	.....	.....	.....	ne.	.....	.....	3	.....	3	.....	ne.	8 h'r	8 h'r	mod.	nw.	fine.
Bkt. Kryolith, N. 56° 32', W. 34° 11'*†	29.52	749.8	.....	.....	.....	ssw.	.....	.....	7	.....	5	.....	sw.	o	o	rg'h	sw.	threatening
S. S. Lamperts, N. 31° 29', E. 32° 09'*	29.98	761.5	68.0	20.0	84	ne.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
Light House Tender, Laurel, Appalachicola Bay, Fla†	30.09	764.3	79	26.1	.....	se.	.....	.....	4	.....	9	.....	se.	o	o	.....	.....	cloudy.
S. S. Malabar, N. 8° 34', E. 73° 51'*†	29.92	760.0	.....	.....	.....	var.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	
Bg. Medina, Key Francis, Fla.†	30.11	764.8	.....	.....	.....	sse.	.....	.....	1	.....	8	.....	se.	.....	.....	.....	.....	fine.
S. S. Nebo, N. 9° 38', W. 50° 47'†*	29.97	761.2	.....	.....	.....	nne.	.....	.....	2	.....	2	.....	nne.	o	o	mod.	nne.	clear.
S. Paramita, S. 3° 45', W. 32° 14'†	29.80	756 9	82	27.8	.....	se.	.....	.....	2	.....	6	.....	n; e.	h'vy	h'vy	long	se.	cloudy.
Bk. Peppina, Bordeaux, France†	30.27	768.8	69	20.6	52	n.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	clear.
Bg. Potomac, N. 28° 40', W. 67° 58'*†	30.20	767.1	.....	.....	.....	ne.	.....	.....	3	.....	.....	.....	n.	.....	.....	r'gh	n.	squally.
Bk. Princessen, N. 38° 40' W. 70° 42'†	29.97	761.3	58	14.4	.....	wsw.	.....	.....	4	.....	10	.....	w.	7 h'r	7 h'r	sm'h	ene.	light rain.
Bk. Rosebud, N. 42° 48', W. 14° 50'*†	30.28	769.1	68	20.0	41	ne.	.....	.....	5	.....	0	.....	.....	o	o	mod.	ne.	fine.
S. Salisbury, S. 41° 08', W. 7° 06'*	29.94	760.5	59.0	15.0	91	nnw.	.....	.....	6-7	.....	8	.....	nnw.	½ h'r	½ h'r	h'vy	nnw.	cloudy.
Bk. Stella, S. 15° 33', W. 96° 25'*	29.95	760.7	71.2	21.8	91	ese.	.....	.....	4	1 c	.....	.....	se.	o	o	sm'h	se.	clear.
Bk. Truro, N. 39° 50' W. 49° 25'*†	30.19	766.8	.....	.....	.....	n.	.....	.....	2	.....	2	.....	n.	o	o	sm'h	.....	clear.
U. S. F. C. S. FishHawk, Quantico, Va.†	30.17	766.3	61	16.1	88	s.	.....	.....	1	.....	5	.....	calm	o	o	.....	.....	fair.
Yacht Vega, N. 25° 39' W. 60° 46'*†	30.30	769.6	74	23.3	.....	ne.	.....	.....	3	.....	.....	.....	ne.	o	o	long	ne.	
S. S. Victoria J. Peed, Salamanca Id, U. S. C.*†	29.10	739.1	.....	.....	.....	ne.	.....	.....	8	.....	7	.....	.....	.....	.....	.....	.....	
S. Washington, N. 50° 05', W 2° 44'*†	30.35	770.9	.....	.....	.....	sse.	.....	.....	2	.....	5	.....	.....	o	o	sm'h	.....	fair.
Bg. Wauburn, N. 29° 40' W. 69° 09'*†	30.20	767.1	.....	.....	.....	ne.	.....	.....	2	.....	1	.....	ne.	o	o	cross	var.	
Bk. Wm. Wilcox, N. 39° 25', W. 62° 50'*†	30.19	766.8	61	16.1	.....	ne.	.....	.....	3	.....	8	.....	sw.	o	o	sm'h	.....	cloudy.
S. Wm. Woodbury, N. 37° 23', W. 74° 19'*†	29.85	758.2	62	16.7	88	w.	.....	.....	4	.....	.....	.....	w.	.....	.....	sm'h	sw.	

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 10, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.07	763.8	69.4	20.8	78	ene.			5		0			0	0	clear	Moiroud
Algiers			30.22	767.7	66.2	19.0	59	nw.			1		0			0	0	clear	Nicolas.
La Galle			30.16	766.1	66.6	19.2	70	n.			3		4			0	0	cloudy	Fonfrède.
Tunis			30.13	765.3															Jacques.
Saida			30.13	765.2															Dumas.
Tebessa			30.18	766.6	57.9	14.4	92	ne.			2		0			0	0	clear	Derché.
Geriville					83.5	28.6	11	se.			2		8			0	0	very cloudy	Louchamp.
Laghouat			30.12	765.0	83.5	28.6	60	w.			1		0			0	0	clear	Abraham.
Biskra			30.18	766.6	93.6	34.2	22	nnw.			1		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.98	761.5	30.07	763.8	58.6	14.8	56	nne.	20	8.9			2			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.67	753.5	30.21	767.4	59.7	15.4	49	ne.			3		6			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.43	747.5	30.22	767.5	44.4	6.9	55	nw.	11.2	5.0			10			0.016	0.4		Dr. Wierzbiski.
Eperies	29.22	742.2	30.11	764.9	48.9	9.4	79	n.			5		10 s		s.	0.004	0.1		Julius Mikolik.
Gratz	28.98	736.2	30.24	768.0	57.9	14.4	55	n.			4		3			0	0		Andreas Rospini.
Hermannstadt	28.52	724.4	29.93	760.1	60.8	16.0	70	n.			2		10			0.378	9.6		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.98	736.0	30.35	770.8	48.7	9.3	82	w.			2		8			0.028	0.7	gloomy	The Staff.
Lemberg	29.04	737.7	30.05	763.2	46.8	8.2	69	nw.			3		10			0.012	0.3		Dr. T. Stanecki.
Pola	30.02	762.5	30.13	765.3	60.6	15.9	51	e.			5		1			0.965	24.5		I. R. Hydrographic Office.
Szathmar	29.58	751.2	30.03	762.7	52.9	11.6	56	nw.			4		10			0	0		Joseph Midlinszky, S. J.
Szegedin																			Karl Stancel.
Trieste	30.06	763.6	30.17	766.2	65.1	18.4	40	ne.			2		2			0	0		Rieder.
Vienna	29.55	750.6	30.27	768.9	55.0	12.8	34	nw.			3		2			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.15	765.8	30.25	768.3	51.2	10.7	64	s.	13	5.8			7			0.010	0.3	showery	W. Boswell
Armagh, Observatory	30.14	765.5	30.37	771.4	57.0	13.9	62	sw.	8	3.6			2					d. clouds	S. Call.
Bidston, Liverpool Obs'y			30.38	771.6	55.1	12.8	62	wnw.	9	4.0			1					blue sky	John Hartnup.
Bolton, Sharples	29.81	757.2	30.35	770.9	54.9	12.7	65	w.	6	2.7			6					d. clouds	Thomas Mackereth. [A.S.
Bradford, Yorkshire	29.92	760.0	30.32	770.1	57.0	13.9	51	sw.			1		5			0	0	d. clouds	J. McLandsborough, F. R
Bridgetown, Barbadoes	29.95	760.7	29.98	761.5	83.0	28.3	56	ne.			2		3					d. clouds	Corpl. J. Surgenor, A. H.C.
Cardington			30.34	770.6	65.0	18.3	52	nw.			1.0		0					blue sky	John McLaren.
Chatham, School M. E.	30.23	767.8	30.36	771.1	58.6	14.8	79	sw.			1		8			blank	blank	d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	30.23	767.8	30.46	773.7	58.2	14.6	85	w.			2		10					foggy	The Staff.
Fort Napier, Natal	27.74	704.6	29.96	761.0	61.2	16.2	64	calm			0		0					blue sky	Pvt. E. K. Annis, A.H.C.
Free Town, Sierra Leone	29.58	751.3	29.81	757.2	88.0	31.1	55	nw.			1		3					d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	30.04	763.0	30.09	764.3	66.3	19.1	73	e.			7		7					d. clouds	Cpl. O. Baldwin.
Glasgow, Observatory	30.11	764.8	30.32	770.1	53.9	12.2	55	wsw.			5		8 k					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.19	766.8	30.36	771.1	62.4	16.9	68	wnw.			1		4					d. clouds	The Staff.
Guernsey	30.17	766.3	30.47	773.9	57.0	13.9	87	w.			1		10					drizzling	A. Collenette, F. M. S.
Kew, Observatory	30.34	770.6	30.37	771.4	61.1	16.2	66	nw.	8	3.6			5					d. clouds	The Staff.
Leicester, Museum	30.08	764.0	30.34	770.6	61.0	16.1	68	nw			1		0					blue sky	J. C. Smith.
Malta, Mediterranean	29.89	759.2	29.97	761.2	68.8	20.4	62	nw.			3		1					blue sky	I. H. Whysall.
Nassau, Bahamas	30.10	764.5	30.14	765.5	80.8	27.1	82	se.			2		5					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.85	758.2	30.38	771.6	59.0	15.0	53	nw.			2		1					d. clouds	John Mac Email.
Oxford, Radcliffe Obs'y	30.14	765.5	30.37	771.4	61.7	16.5	61	wnw.			3		4					d. clouds	The Staff.
Plymouth	30.35	770.9	30.43	772.9	60.7	15.9	82	w.			2		10					overcast	John Merrifield.
Sandwick Manse, Orkneys			30.14	765.5	50.8	10.4	78	sw.	25	11.2			8					d. clouds	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.74	755.4	29.80	756.9	74.4	23.6	50	calm			0		7					d. clouds	W. H. Lyne.
Sheffield	30.07	763.8	30.35	770.9	61.9	16.6	70	ne.			1		1			0	0	blue sky	W. F. Cooper.
Silloth Rectory	30.32	770.1	30.35	770.9	55.5	13.1	67	wsw.			3		4			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.38	771.6	54.3	12.4	55	w.	11	4.9			7					d. clouds	J. New.
Stratfield Turgiss	30.17	766.3	30.39	771.9	60.0	15.6	78	w.			3		7					d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	30.42	772.7	30.44	773.2	62	16.7	83	nw.			4		10					gloomy	W. Newcombe.
Valencia, Observatory	30.37	771.4	30.40	772.1	57.5	14.2	90	wsw.	18	8.0			8					misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.69	754.1	29.73	755.1	35	1.7	92	nnw.	17	7.6			10 n		calm	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.82	757.4	29.88	758.9	40	4.4	73	n.	10	4.5			10 ks		n.	0	0	cloudy	G. A. Blair.
Father Point, Quebec*	29.98	761.5	30.00	762.0	37	2.8	89	e.	18	8.0			10 k		e.	0.02	0.5	threatening	J. McWilliams.
Fort Garry, Manitoba*	29.04	737.6	29.86	758.4	46	7.8	93	n.	16	7.2		5 k	5 n	n.	n.	0.070	1.8	cloudy	James Stewart.
Halifax, N. S*	29.60	751.8	29.73	755.1	39	3.9	82	nw.	18	8.0		8 k	0	nw.		0.088	2.2	cloudy	A. Allison.
Kingston, Ontario*	29.66	753.4	30.00	762.0	46	7.8	60	ne.	8	3.6		10 ck	2 s	w.		0	0	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.80	756.9	30.01	762.2	47	8.3	44	n.	10	4.5		0	0			0	0	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.31	744.5	30.01	762.2	44	6.7	60	ne.	11	4.9		5 k	5 ks	nw.	nw.	0	0	cloudy	Rev. R. Mosley.
Port Dover, Ontario	29.19	741.4	29.88	758.9	51	10.6	79	ne.	12	5.4			10 ks		e.	0	0	cloudy	H. Morgan.
Port Stanley, Ontario	29.20	741.7	29.83	757.7	53	11.7	69	e.	12	5.4			10 n		w.	0.06	1.5	cloudy	M. Payne.
Quebec, Quebec*	29.66	753.4	29.99	761.7	41	5.0	82	calm			0	2	2 s			0	0	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.50	749.3	29.97	761.2	39	3.9	57	n.	3	1.3		3 c	0	w.		0	0	fair	W. H. McIntyre.
Saugeen, Ontario*	29.19	741.4	29.90	759.4	49	9.4	66	ne.	8	3.6			10 ks			inap.	inap.	cloudy	
St. Andrews, N. B	29.80	756.9	29.85	758.2	44	6.7	62	n.	5	2.2		0	0			0	0	clear	
Sydney, C. B*	29.43	747.5	29.50	749.3	33	0.6	92	n.	13	5.8			10 n			0.80	20.3	light snow	T. C. Hill, C. E.
Toronto, Ontario*	29.57	751.1	29.95	760.7	49	9.4	46	e.	21	9.4		8 ck	2 s	w.	w.	0	0	cloudy	Magnetic Observatory.
Yarmouth, N. S*	29.76	755.9	29.83	757.7	43	6.1	80	n.	4	1.8		2 c8	0	w.		0	0	fair	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.88	758.9	30.14	765.5	35	1.7	100	e.	5	2.2			10 n			0	0		John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.08	764.0	30.11	764.8	67.5	19.7	85	wsw.	9.0	4.0		0	1 s			0	0	clear	John Duthie.
Cape Town, C. G. H. Obs'y	30.13	765.3	30.17	766.3	72.1	22.3	69	sse.	15	6.7		0	0			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observer.
Chinese (*Sub-series*).																			
Hankow	29.83	757.7	30.10	764.5	72.5	22.5	73	s.			1		0			0	0		N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.94	760.4	29.96	761.0	65.3	18.5	86	se.	5.1	2.3		0	0			0	0	clear	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	30.10	764.4	30.14	765.6	48.4	9.1	68	sw.	10.1	4.5			10					raining	Oversergent Fischer.
Fanöe	30.09	764.2	30.11	764.7	49.5	9.7	83	nw.			6		7						Overloerer Lauridsen.
Godthaab, Greenland	29.95	760.8	30.00	761.9	29.8	— 1.2	86	w.			2		10			0	0		S. Kleinschmidt.
Stykkisholm, Iceland	29.65	753.0	29.69	754.1	38.5	3.6	80	ne.			7		5						A. O. Thorlacius.
Thorshavn	29.80	756.9	29.84	757.8	46.8	8.2	82	w.	23.5	10.5			5						Overloerer Bergh.
Vestervig	29.97	761.2	30.06	763.5	49.3	9.6	87	nw.			2		10					hazy	Loearer Oesterbol.
French.																			
Agen, Normal School	29.76	755.9	30.40	772.2	67.3	19.6	34	n.			1	0	0			0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.95	760.6	30.50	774.6	58.0	14.8	56	sw.			1	cs	0	n.		0	0		M. Nicot, Director.
Arras, Engineer School	30.13	765.4	30.40	772.1	54.0	12.2	86	nw.			9		10 kn		nw.	0	0	covered	M. Féréon, Command't.
Avignon, Normal School	29.97	761.2	30.05	763.2	66.9	19.4	45	n.			4		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.88	759.0	30.44	773.1	61.0	16.1	41	s.			1		8			0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	30.18	766.6	30.45	773.4	60.3	15.7	51	nw.			2		10			0	0	covered	M. Frère Eugène Mari.
Besançon, Normal School	29.47	748.4	30.36	771.1	56.8	13.8	84	ne.			1		10 n		ne.	0	0	covered	M. Gobin, Director.
Bordeaux, Observatory	30.15	765.9	30.41	772.5	65.5	18.6	43	n.			1		0			0	0	clear	M. Rayet, Director.
Bourges, Normal School	29.62	752.4	30.45	773.3	64.0	17.8	36	w.			1	c	0	w.		0	0		M. Postel, Director.
Brest, Naval Observatory	30.25	768.4	30.50	774.6	65.8	18.8	67	sw.			1		3		sw.	0	0		M. de Kermaree, Dir.
Caen, Normal School	30.41	772.4	30.45	773.3	66.6	19.2	50	w.			1		5		w.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	30.08	763.9	30.40	772.1	60.8	16.0	55	sw.			2		8			0	0	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.87	758.8	30.39	771.8	60.1	15.6	38	nnw.			1		10			0	0	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	29.07	738.3	30.43	772.8	60.1	15.6	71	n.			1		0			0	0	clear	M. Allnard, Director.
Cluny, Normal School	29.57	751.1	30.41	772.5	60.4	15.8	36	ne.			2		0			0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.56	750.8	30.44	773.1	58.6	14.9	48	nnw.			1		5 k	nnw.	nnw.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.67	702.8	30.16	766.1	63.9	17.7	30	e.			3	2 c	0	ne.		0	0		M. Jeangirard, Director.
Gréasque, du Rhone	29.08	738.5	30.17	766.4	69.6	20.9	32	s.			2		1		s.	0	0		M. Kina, Director.
Grenoble, Normal School	29.55	750.6	30.32	770.0	61.9	16.0	49	n.			2	0	2 s			0.31	8.	clear	M. Ablard, Director.
Guéret, Normal School	28.82	732.0	30.44	773.2	60.8	16	41	e.			1		1		e.	0	0	clear	M. Rivoire, Director.
Lamballe, Normal School	30.21	767.2	30.47	774.0	70.9	21.6	45	nw.			2		5		nw.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.82	757.5	30.39	771.8	67.3	19.6	34	e.			3	0	0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.41	772.5	30.52	775.1	65.8	18.8	54	sw.			1		0			0	0	clear	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.34	745.2	30.41	772.3	59.0	15.0	36	nnw.			2	0	0			0	0	clear	M. André, Director.
Mans, Normal School	30.16	766.1	30.47	773.9	56.3	13.5	40	n.			1		0			0	0	clear	M. Piboen, Director.
Marseille, Observatory	29.93	760.2	30.19	766.9	70.0	21.1	46	wnw.			1		1			0	0		M. Stephan, Director.
Montlouis l'instituteur	25.12	637.9	29.96	760.9	57.2	14.0	31	wsw.	20.6	9.2			0			0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	30.10	764.5	30.22	767.7	74.1	23.4	35	nne.			3		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.60	751.8	30.39	771.8	57.2	14.0	48	wsw.			1		kn			0	0		M. Hasse, Director
Nantes, Observatory	30.35	770.8	30.51	774.9	70.7	21.5	40	ne.			0–2		0			0	0	clear	M. Larocque, Director.
Perpignan, Observatory	30.16	766.1	30.27	768.8	74.7	23.7	12	n.	26.2	11.7			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.52	546.6			39.2	4.0		ne.			1		1		w.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.24	742.6	30.32	770.0	54.0	12.2	74	n.			1		c			0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.48	647.2			39.4	4.1	43	ne.			3		0			0	0	clear	M. Allnard, Director.
Rochefort, Naval Obs'y	30.44	773.2	30.47	774.0	69.4	20.8	100	ene.			1		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.22	767.6	30.43	773.0	71.4	21.9	45	n.			1		0			0	0	clear	M. Mouillot, Director.
Rodez, Normal School	28.21	716.6	30.34	770.5	63.3	17.4	25	se.			1		0			0	0	clear	M. Serger, Director.
Rouen, Normal School	30.40	772.1	30.45	773.3	58.6	14.8	82	sw.			1		5		n.	0	0	cloudy	M. Brotier.
Saint Maur, Observatory	30.27	768.9	30.44	773.1	62.8	17.1	49	wnw.			1		10		n.	0	0		M. Renou, Director.
Toulouse, Observatory	29.69	754.2	30.43	772.8	68.7	20.4	44	n.			1		1	w.		0	0	clear	M. Baillaud, Director.
Tours	30.27	768.8	30.64	778.3	66.2	19.0	41	sw.			1		0			0	0	clear	
Versailles, Observatory	29.95	760.6	30.44	773.1	61.5	16.4	77	w.			2					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	30.15	765.9	30.45	773.3	62.8	17.1	47	wnw.			1		10		nw.	0	0		M. Marié Davy, Director
German.																			
Bamberg																			
Berlin	30.05	763.3	30.23	767.9	51.1	10.6	68	sw.			1		10					raining	Prof. Dr. Hoh.
Breslau	29.71	754.7	30.25	768.3	52.5	11.4	38	nnw.			4		7			0	0		Prof. Dr. Arndt.
Carlsruhe	29.95	760.6	30.39	771.9	58.3	14.0	54	sw.			3		10			0	0		Royal University Obs'y.
Cassel	29.50	749.4	30.22	767.5	52.2	11.2	84	ssw.			2		10	sw.		0.055	1.4		Albert Senz.
Frankfort-on-the-Main	29.97	761.3	30.34	770.6	61.2	16.2	51	s.			2		10			0	0		Dr. H. Möhl.
Friedrichshafen	28.96	735.5	30.41	772.4	53.2	11.8	82	sw.			3		2	sw.		0	0		Physical Society.
Hamburg	30.10	764.5	30.19	766.9	40.4	8.0	94	sw.			5		10			0.154	3.9	raining	Wilhelm, Chief Tel.
Kiel	30.12	765.0	30.13	765.4	47.5	8.6	91	s.			4		10			0.098	2.5		E. Preller.
Leipsic, Astrom'l Obs'y	29.87	758.6	30.29	769.4	52.9	11.6	59	sw.			4		10	w.		0.634	16.1	light rain	Prof. Dr. G. Karsten.
Magdeburg	30.08	764.1	30.28	769.0	50.5	10.3	71	w.			2		10 ks		wnw.			raining	H. Leppig, Asst.
Memel	30.01	762.2	30.06	763.4	44.8	7.1	70	n.			5		9 ks						Dr. Assmann.
Munich	28.54	725.0	30.43	773.0	54.1	12.3	38	nw.			1		6		w.	0.043	1.1		Issermann.
Neufahrwasser	30.16	766.0	30.17	766.4	46.9	8.3	65	n.			4		5			0.106	2.7		Central Station.
Neustadt, Palatinate	29.82	757.4	30.35	770.9	58.6	14.8	49	w.			2		10	w.		0	0		A. Lothes.
Stuttgart	29.41	747.0	30.30	769.7	59.0	15.0	53	nw.					8	w.		0	0		Dicknether.
Wustrow	30.15	765.8	30.17	766.4	45.1	7.3	88	s.			4		10			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.47	748.5			75.2	24.0		sw.			1.5		8			0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.73	755.2	29.78	756.4	84.9	29.4	77	wsw.	39.0	17.4			3			0	0	misty	
Deesa	29.20	741.6	29.65	753.0	103.7	39.8	30	w.	16.1	7.2			0			0	0	blue sky	
Bombay	29.79	756.7	29.83	757.6	86.6	30.3	70	w.	15.0	0.7			1	wnw.		0	0	d. clouds	
Poona, Yarrowda	27.93	709.4	29.73	755.1	93.3	34.1	26	w.	24.0	10.7			0			0	0	blue sky	
Bellary	28.24	717.4	29.66	753.4	95.5	35.3	31	se.	5.8	2.6			6			0	0	d. clouds	
Belgaum	27.24	691.9	29.72	755.0	85.8	29.9	64	sw.	12.0	5.4			3	ne.		0	0	misty	
Lahore	28.85	732.8	29.55	750.6	102.3	39.1	15	w.	1.8	0.8			0			0	0	blue sky	
Roorkee	28.78	731.0	29.68	753.8	78.2	25.7	60	se.	3.7	1.6			8			0	0		
Agra	29.08	738.5	29.62	752.4	94.1	34.5	36	se.	5.8	2.6			0			0.11	2.8		
Nagpur	28.58	725.8	29.57	751.0	101.9	38.8	16	nne.	4.4	2.0			8		nw.	0	0	d. clouds	
Jubbulpore	28.38	720.7	29.70	754.5	89.0	31.7	26	s.	3.0	1.3			0			0.01	0.3	blue sky	
Lucknow	29.36	745.8	29.74	755.4	70.2	24.6	71	ene.	3.1	1.4			2	e.		1.16	29.5	d. clouds	
Allahabad	29.40	746.8	29.71	754.7	82.5	28.1	46	ne.	3.8	1.7			0			0	0	blue sky	
Patna	29.59	751.6	29.78	759.4	73.9	23.3	93	ne.	6.7	3.0			10	ne.	ne.	0.29	7.4	raining	
Hazaribagh	27.72	704.0	29.70	754.3	83.8	28.8	33	s.	7.2	3.2			10		n.	0	0		
Cuttack	29.66	753.4	29.74	755.5	80.1	30.1	70	ssw.	2.3	1.0			10			0	0	overcast	
Calcutta, Alipore	29.75	755.6	29.77	759.1	79.5	26.4	58	sse.	5.0	2.2			2			0	0	d. clouds	
Dhubri	29.68	753.8	29.79	756.8	81.5	27.5	61	ene.	8.7	3.9			1			0	0	d. clouds	
Chittagong	29.70	754.3	29.79	756.6	83.3	28.5	68	calm	1.5	0.7			4			0	0	blue sky	
Sibsagar	29.51	749.7	29.84	758.0	81.2	27.3	75	ene.	2.0	0.9			2			0	0	blue sky	
Jeypore	28.24	717.3	29.62	752.5	99.7	37.6	19	nw.	11.2	5.0			2		w.	0	0	blue sky	
Zanzibar, Africa	29.94	760.5			83.5	28.6	63	sse.	7.3	3.3			3			0.25	6.3	d. clouds	
Italian.																			
Udine	29.74	755.5	30.15	765.7	66.0	18.9	47	e.	0.7	0.3			1			1.787	45.4		Prof. Giovanni Clodig.
Milan	29.67	753.6	30.18	766.6	67.1	19.5	38	sw.	4.9	2.2			0			0	0		Prof. Schiaparelli.
Padua	30.07	763.7	30.18	766.5	64.2	17.9	42	ese.	4.3	1.9			0			0.091	2.3		Prof. Dott. Lorenzoni.
Moncalieri	29.28	743.7	30.18	766.5	65.8	18.8	31	e.	3.8	1.7			0			0	0		Prof. P. F. Denza.
Genoa	29.95	760.8	30.15	765.7	69.4	20.8	31	nw.	3.8	1.7			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.28	718.3	30.21	767.2	61.9	16.6	27	n.			4		0			0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
ITALIAN.—Continued.																			
Pesaro	30.16	766.0	30.21	767.2	59.4	15.2	60	nne.	15.4	6.9			0			0.374	9.5		Prof. Luigi Guldi.
Florence	29.90	759.5	30.15	765.8	64.8	18.2	31	ne.			2		2			0	0		Prof. Costantino Pitter.
Leghorn	29.98	761.6	30.07	763.8	65.8	18.8	34	nw.	2.5	1.1			0			0	0		Prof. P. Monte.
Rome	29.76	756.0	29.93	760.3	65.7	18.7	48	n.	43.4	19.4			1			0.043	1.0		Prof. P. S. Ferrari.
Lecce	29.55	750.6	29.80	756.8	66.0	18.9	71	wnw.	24.8	11.1			9	nw.		0.012	0.3		Prof. C. de Giorgi.
Cosenza	28.98	736.2	29.85	758.3	67.3	19.6	76	wnw.	4.3	1.9			10	nw.		0.343	8.7		Prof. D. Conti.
Cagliari	29.86	758.5	30.06	763.4	70.9	21.6	37	nw.			4		1	n.		0	0		Prof. A. Pacinotti.
Palermo	29.74	755.3	29.98	761.6	58.6	14.8	76	nw.	22.4	10.0			10			0.031	0.8		Prof. G. Ciacciatore.
Syracuse	29.78	756.3	29.82	757.4	72.7	22.6	31	wnw.	18.1	8.1			5	wnw.		0	0		Prof. Vincenzo Gulliano.
Sub-series.																			
Naples, S. R	29.37	745.9	29.88	759.0	64.4	18.0	56	ne.	6.9	3.1			8	ne.		0.138	3.5		Prof. T. Brioschi.
Stelvio	22.32	567.0			32.2	0.1	43	ne.			2		0			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.39	568.6			42.1	5.6	49	e.			2		0			0	0	clear	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.79	756.6	29.83	757.7	48.5	9.2	86	calm	0	0		3 ck	0			0.146	3.7	fair	K. Ogawa.
Hakodate	29.83	757.7	29.84	757.9	46.0	7.8	73	e.	12.0	5.4			9			0.020	0.5	overcast	
Hiroshima, I. M. Obs'y	29.85	758.2	29.86	758.4	61.0	16.1	89	calm	0	0		0	0			0	0	clear	J. Sogawa.
Kanazawa	29.77	756.1	29.87	758.7	58.9	14.9	73	sse.	4.8	2.1		0	0			0	0	clear	S. Endo.
Kioto	29.71	754.6	29.88	758.9	60.9	16.1	79	ne.	2.6	1.2		0	0			0	0	clear	M. Tojima.
Kochi	29.90	759.4	29.92	759.9	63.7	17.6	80	w.	3.9	1.7		0	0			0	0	clear	K. Kusunose.
Nagasaki, I. M. Obs'y	29.79	756.6	29.99	761.7	60.5	15.8	91	calm	0	0		0	0			0	0	clear	S. Takehayashi.
Niigata	29.81	757.2	29.85	758.2	58.1	14.5	84	sw.	4.1	1.8		4 ck	0	sw.		0.005	0.1	fair	M. Morita.
Nobiru	29.85	758.2	29.87	758.7	50.2	10.1	87	sse.	6.3	2.8		0	0			0	0	clear	H. Midzushina.
Supporo					46.4	8.0	65	e.	24.0	10.7			10			0	0	covered	
Tokei Obs'y, Yeddo	29.81	757.2	29.88	758.9	58.7	14.8	96	ese.	5.4	2.4			10 n			0.005	0.1	light rain	The Staff.
Wakayama	29.84	757.9	29.89	759.2	63.0	17.2	81	calm	0	0		1 ck	0	w.		0	0	clear	Y. Kuwamura.
MAURITIUS.																			
Mauritius Observatory	29.90	759.4	30.09	764.3	77.4	25.2	58	e.	12.5	5.6		1 cs	0			0	0	clear	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.66	600.7	29.87	758.9	57.4	14.1	53	calm	0	0		0	0			0	0	foggy	Prof. Vicente Fernandez.
Leon	24.36	618.7	30.05	763.3	55.4	13.0	63	nnw.			1	0	0			0	0	dense fog	Prof. M. Leal.
Mazatlan	29.63	752.6	29.89	759.1	67.0	19.4	87	nw.	0.9	0.4		1 cs	1 s	w.	n.			clear	F. Quijano, C. E.
Mexico, Central Obs'y	23.06	585.7	30.04	763.1	57.2	14.0	52	calm	0	0		0	0			inap.	inap.	foggy	The Staff.
Morelia	24.21	615.0	30.27	768.9	61.0	16.1	84	se.			3	3	2	s.	s.	0	0	½ clouded	M. Tena, M. D.
Pabellon, Aguascalientes	23.93	607.8	29.96	760.9	51.8	11.0	39	calm			0	1 cs	0			0	0	fine	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.34	592.9	30.01	762.2	58.1	14.5	68	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
San Luis Potosi	24.15	613.4	30.01	762.3	62.4	16.9	49	wsw.			1	1	0	w.		0	0	foggy	G. Barroeta, M. D.
Zacatecas	22.50	571.4	30.05	763.3	55.5	13.0	63					0	0			0	0	fine	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.36	771.1	30.36	771.1	54.3	12.4		w.			4					0	0		
Groningen	30.14	765.5	30.23	767.9	51.4	10.8		nw.			4					0.075	1.9		
Helder	30.26	768.6	30.26	768.6	50.4	10.2		nw.			4					0	0		
Hellevoetsluis	30.32	770.2	30.32	770.2	53.1	11.7	89	w.			3					0	0		
Utrecht	30.26	768.5	30.30	769.7	53.1	11.7	94	wsw.			2		8			0.008	0.2	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	30.05	763.2	30.11	764.8	42.3	5.7	64	w.	7	3			8			0.055	1.4		
Brono	29.92	759.9	29.96	760.9	52.2	11.2	54	sw.	18	8			5			0	0		
Christiania	29.92	759.9	30.07	763.7	49.6	9.8	63	sw.	13	6			10			0.012	0.3		
Gjæsvær	30.16	766.1	30.19	766.7	41.0	5.0		calm			0		10						
Lodingen	30.00	762.1	30.05	763.3	41.2	5.1	43	sw.			1		0			0	0		
PORTUGUESE.																			
Angra, Azores					61.9	16.6	58	se.	11.2	5.0			4			0	0		Dr. J. A. Sampaio.
Campo Major	29.05	737.9	30.02	762.5	74.3	23.5	32	ene.	8.7	3.9			1			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	29.90	759.4	29.99	761.7	65.8	18.8	67	calm					9			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.70	754.4	30.05	763.3	73.4	23.0	43	e.	7.4	3.3			1			0	0		The Staff.
Ponta Delgada, Azores	30.28	769.2	30.35	771.0	63.7	17.6	50	n.	11.9	5.3			4			0	0		
Saint Paul de Loando	29.68	753.8	29.88	758.9	78.8	26.0	94	nw.	0.7	0.3			4	nnw.		0	0		
Serra da Estrella	25.40	645.2	30.06	763.5	57.6	14.2	38	sse.	28.0	12.5			0			0	0		
RUSSIAN.																			
Akmolinski	28.70	729.0	29.74	755.4	65.8	18.8	39	nw.	22	10		3 c	0			0	0		Major K. Lasarew.
Archangel	30.16	766.0	30.18	766.5	34.0	1.1	77	nw.	18	8			10			0	0		Capt. Sselliwerstow.
Astrakhan	30.07	763.7	29.98	761.6	78.4	25.8	31	w.	7	3		0	1 k			0.031	0.8		Capt. Wisganow.
Barnaul	29.09	738.8	29.56	750.9	67.6	19.8	41	w.	18	8			10			0	0		Meteorological Obs'y.
Dorpat	29.69	754.1	29.94	760.4	44.8	7.1	62	ne.	11	5			10 k			0	0		Observatory.
Ekaterinburg	28.95	735.2	29.91	759.8	40.4	8.0	21	w.	22	10		1 c	0			0.020	0.5	light clouds	Meteorological Obs'y.
Kasan	29.59	751.6	29.86	758.5	51.6	10.9	52	e.	13	6		0	8			0.217	5.5		Observatory.
Kertch	29.89	759.3	29.91	759.8	61.3	16.3	81	sse.	9	4		0	0			0	0		Lagorio & Sastyrez.
Kieff	29.19	741.4	29.82	757.4	54.9	12.7	60	w.	16	7			10ks;n			0	0		Observatory.
Lugan	29.65	753.0	29.84	758.0	81.1	27.3	25	ssw.	13	6			8			0	0		Meteorological Obs'y
Moscow	29.07	738.4	29.51	749.6	74.7	23.7	32	nnw.	7.8	3.5			7 ks						Meteorological Obs'y.
Nikolaiev	29.87	758.6	29.94	760.4	71.4	21.9	49	sw.	18	8		6 cs	0			0	0	light clouds.	Capt. Kurdakow.
Nikolaievsk, on the Amoor.	29.56	750.9	29.65	753.1	35.2	1.8	93	ne.	9	4			10			0	0		Lieut. Iwanow.
Pekin, China	29.58	751.3	29.72	754.9	74.3	23.5	28	sw.	9	4		2 cs	0			0	0		Physical Observatory
St. Petersburg	29.94	760.5	29.96	760.9	45.7	7.6	31	ene.	16	7		c	9 kn			0	0		Central Physical Obs'y.
Semipalatinsk	29.13	739.8	29.74	755.5	77.0	25.0	31	sw.	20	9		0	3 k			0	0		Major Lasareu.
Tashkend, Laboratory	28.45	722.6	29.96	761.0	73.9	23.3	52	calm	0	0			10			0	0	light clouds	Teich, A. M.
Tiflis	28.58	725.8	29.97	761.3	64.6	18.1	58	ne.	7	3			10 ks			0.669	17.0		Physical Observatory
Vladivostock	29.66	753.3	29.72	755.0	39.9	4.4	100	e.	7	3			10 n			0	0		
Warsaw	29.64	752.9	30.07	763.8	47.5	8.6	50	nw.	18	8			10 ks						Astronomical Obs'y.
Wilna	29.43	747.4	29.85	758.3	40.6	4.8	86	nnw.	7	3			10			0.134	3.4	heavy clouds	Berg, Assistant.
Yeniseisk	29.12	739.7	29.37	746.7	61.2	16.2	56	ssw.	11	5			10			0	0		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	30.15	765.8	30.25	768.4	70.2	21.2	56	s.	2.9	1.3			0			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.32	770.1	30.38	771.6	72.3	22.4	43	e.	0.7	0.3		0	0			0	0	clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.36	694.9	30.28	769.0	65.7	18.7	37	ne.	12.5	5.6			0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.79	710.5	30.11	764.8	78.8	26.0	30	e.	12.5	5.6		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	30.09	764.3	30.24	768.1	70.3	21.3	55	ese.	8.7	3.9		0	0			0	0	clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.21	741.9	30.08	763.9	74.8	23.8	33	ne.	12.5	5.6			1			0	0	almost clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	29.95	760.6	30.01	762.3	79.3	26.3	80	ese.	4.7	2.1		4 c	3 k;s	wnw.	se.	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.86	758.4	29.91	759.8	85.1	29.5	67	se.	4.6	2.1		0	1 ks			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.89	759.2	29.99	761.7	71.4	21.9	41	se.	41.6	18.6		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.98	761.4	30.07	763.7	78.8	26.0	86	calm	0	0		2 cs	1 k	e.	e.	0	0	clear	Manuel Maese.
Tugnegarao, Philippine Id's	29.79	756.7	29.92	760.0	82.4	28.0	76	nw.	5.8	2.6		0	1 k		nnw.	0	0	clear	José L. Yrastorza.
SWEDISH.																			
Haparanda	30.18	766.5	30.22	767.5	41.7	5.4	43	s.			2		5			0	0		
Umea	30.13	765.2	30.18	766.5	42.8	6.0	45	sw.			4		1			0	0		
Hernosand	30.14	765.6	30.19	766.9	45.7	7.6	46	sw.			2		5			0	0		
Stockholm	29.93	760.3	30.11	764.8	48.9	9.4	33	ne.			4		4			0	0		
Wisby	30.03	762.7	30.09	764.2	43.2	6.2	71	n.			2		3			0	0		
Sub-series.																			
Upsala	30.02	762.5	30.11	764.7	48.2	9.0	36	ne.	8.5	3.8			8	s.	n.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.94	735.0	30.35	771.0	57.4	14.1	49	nne.			3					0	0	clear	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec.	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
TURKISH.																			
Constantinople			29.85	758.1	78.6	25.9	37	se.	4	2.0			2		sw.	0	0		The Observatory.
Valona			29.89	759.3	70.7	21.5		sw.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.97	761.1	74.1	23.4	55	nw.			1	0	0			0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.90	759.4	29.98	761.5	54.3	12.4	44	n.	5	2.2		5 k	0	nw.		0.03	0.8	fair	J. O. Barnes.
Alpena, Michigan	29.26	743.2	29.92	760.0	42	5.6	74	e.	22	9.8			10 s		e.	0	0	cloudy	Jas. J. Fitzgerald.
Atlanta, Georgia	28.80	731.5	29.97	761.2	72.0	22.2	84	sw.	5	2.2			10 s		calm	0	0	cloudy	H. Hall.
Atlantic City, New Jersey	29.88	758.9	29.89	759.2	54.8	12.7	95	n.	4	1.8			10 n			0.98	24.9	light rain	Jas. M. Watson.
Augusta, Georgia	29.80	756.9	29.99	761.7	71	21.7	90	s.	2	0.9		1 cs	0			0	0	clear	John Healy.
Baltimore, Maryland	29.88	758.9	29.92	760.0	65	18.3	84	calm	0	0			10 s		se.	0.16	4.1	cloudy	Robert Seyboth.
Barnegat, New Jersey	29.88	758.9	29.90	759.4	54.0	12.2	96	se.	5	2.2			10 s		e.	0.87	22.1	cloudy	Chas. F. Merritt.
Bismarck, Dakota	27.91	708.9	29.69	754.1	50	10.0	93	nw.	12	5.4			10 n			0.19	4.8	light rain	Cyrus Cramer.
Boise City, Idaho	27.25	692.1	30.09	764.3	47	8.3	71	n.	2	0.9		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.81	757.2	29.97	761.2	54.0	12.2	43	e.	5	2.2		0	0			0	0	clear	O. B. Cole.
Brownsville, Texas	29.74	755.4	29.78	756.4	79	26.1	91	calm	0	0		4 c	5 s		s.	0	0	cloudy	M. McCarty.
Buffalo, New York	29.15	740.4	29.89	759.2	48.8	9.3	65	ne.	12	5.4		2 ck	8 s	w.	w.	inap.	inap.	cloudy	Wm. Finn.
Burlington, Vermont	29.71	754.6	30.00	762.0	43.7	6.5	69	n.	6	2.7		7 ck	0	w.		inap.	inap.	fair	G. C. Schaeffer.
Cairo, Illinois	29.38	746.2	29.78	756.4	64.6	18.1	91	w.	7	3.1			10 s		w.	1.17	29.7	threatening	W. H. Ray.
Campo, California	27.47	697.7	30.00	762.0	34.8	1.6	82	s.	4	1.8		0	0			0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.25	692.1	29.92	760.0	43.5	6.4	94	calm			0	0	0			0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	29.85	758.2	29.87	758.7	70	21.1	84	w.	7	3.1		3 ck;c	0	sw.		0	0	clear	J. E. Lanouette.
Cape May, New Jersey	29.86	758.4	29.89	759.2	60	15.6	87	n.	12	5.4			10 s		nw.	0.97	24.6	cloudy	W. Bolten.
Cedar Keys, Florida	30.01	762.2	30.03	762.7	78	25.5	82	s.	9	4.0			10 ks		s.	0.01	0.3	cloudy	F. W. Mixer.
Champaign, Illinois	28.83	732.3	29.63	752.6	62.0	16.7	93	s.	8	3.6			10 n		s.	0.04	1.0	light rain	L. A. Welsh.
Charleston, S. Carolina	29.94	760.5	29.99	761.7	76	24.4	90	sw.	8	3.6		0	9 s		sw.	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.08	738.6	29.92	760.0	69.0	20.6	90	sw.	5	2.2			10 s		sw.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.09	738.9	29.90	759.4	69.0	20.6	93	s.	2	0.9		2 cs	7 s	calm	s.	0.14	3.6	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.04	610.6	29.90	759.4	33.7	0.9	72	nw.	12	5.4		0	0			0.01	0.3	clear	E. McGovern.
Chicago, Illinois	28.93	734.8	29.63	752.6	62.0	16.7	90	s.	4	1.8			10n;fg		s.	0.14	3.6	light rain	J. Mitchell.
Chincoteague, Virginia	29.83	757.7	29.85	758.2	59	15.0	87.	n.	17	7.6			10 ks		w.	0	0	cloudy	V. P. Temple.
Cincinnati, Ohio	29.14	740.1	29.79	756.7	66.5	19.2	83	se.	10	4.5			10 s		s.	0.42	10.7	cloudy	R. B. Watkins.
Cleveland, Ohio	29.06	738.1	29.79	756.7	60	15.6	93	se.	11	4.9			10 s			0.05	1.3	threatening	J. B. Newlin.
Coleman City, Texas	28.05	712.5	29.84	757.9	60	15.6	41	nw.	8	3.6		6 k	0	w.		0	0	fair	L. Dorman.
Columbus, Ohio	28.90	734.0	29.74	755.4	61	16.1	93	se.	12	5.4			10 n		s.	0.26	6.6	light rain	D. Cuthbertson.
Concho, Texas	27.94	709.7	29.84	757.8	59	15.0	30	sw.	6	2.7		0	0			0	0	clear	W. W. McConihe.
Davenport, Iowa	28.96	735.6	29.60	751.8	64	17.8	84	sw.	5	2.2		2 ck	hz.	w.	calm	0	0	clear	R. R. Martin.
Dayton, Washington T'y	28.32	719.3	30.07	763.8	47	8.3	83	sw.	1	0.4		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.30	642.6	29.81	757.2	36.5	2.5	100	s.	4	1.8			10 n			0.95	24.1	light rain	G. W. Scott.
Decatur, Texas					60	15.6	54	ne.	4	1.8		3 k	3 s	sw.		0	0	fair	D. J. Carr.
Delaware Breakwater, Del.	29.86	758.4	29.88	758.9	55	12.8	100	n.	14	6.3		10 k	fg.	n.		0.25	6.3	cloudy	A. Schneider.
Denison, Texas	29.05	737.9	29.84	757.9	58.0	14.4	86	calm	0	0		0	0			0.02	0.5	clear	J. McGlone.
Denver, Colorado	24.75	628.6	29.91	759.7	43.5	6.4	81	s.	3	1.3		0	4 s		nw.	0.13	3.3	fair	F. M. Neal.
Des Moines, Iowa	28.74	730.0	29.63	752.6	55	12.8	80	w	8	3.6		10 cs	0	w.		0.38	9.7	cloudy	F. W. Conrad.
Detroit, Michigan	29.07	738.4	29.77	756.1	56.0	13.3	100	ne.	5	2.2			10s;fg		calm	inap.	inap.	light fog	C. F. R. Wappenhans.
Dodge City, Kansas	27.31	693.7	29.86	758.4	45.2	7.3	73	nw.	18	8.0			10 s		nw.	0	0	cloudy	E. A. Thomas.
Dubuque, Iowa	28.87	733.3	29.57	751.1	64.2	17.9	90	s.	2	0.9		5 c	4 k	w.	sw.	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.10	739.1	29.80	756.9	39	3.9	89	ne.	25	11.2			10 s		ne.	2.21	56.1	cloudy	N. B. Conger.
Eagle Pass, Texas	29.12	739.6	29.92	760.0	59.0	15.0	60	calm	0	0		0	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.39	644.9	30.07	763.8	32	0.0	81	w.	3	1.3		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.81	757.2	29.88	758.9	44.5	6.9	68	n.	10	4.5		0	0			0	0	clear	J. H. Melton.
El Paso, Texas	26.29	667.8	29.83	757.7	52	11.1	43	nw.	8	3.6		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.11	739.4	29.83	757.7	60	15.6	87	e.	4	1.8			10 s			0.05	1.3	cloudy	R. H. Paxton.
Escanaba, Michigan	29.20	741.7	29.86	758.4	43	6.1	83	ne.	14	6.3			10 n		ne.	0.29	7.4	light rain	C. Dill.
Fort Apache, Arizona	25.04	636.0	29.86	758.4	40	4.4	67	e.	4	1.8		0	0			0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.29	693.2	30.13	765.3	36	2.2	82	sw.	12	5.4		0	0			0	0	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.05	712.5	29.61	752.1	48.0	8.9	86	nw.	27	12.1		5 c	4 s	nw.	nw.	0.03	0.8	cloudy	A. Pritchard.
Fort Benton, Montana	27.33	694.2	30.12	765.0	32	0.0	62	se.	1	0.4		0	0			0	0	clear	G. W. Davis.
Fort Buford, Dakota	27.90	708.6	29.88	758.9	44	6.7	100	nw.	25	11.2			10 n		nw.	0.28	7.1	light rain	A. H. Bell.
Fort Custer, Montana	26.96	684.8	30.06	763.5	39	3.9	82	w.	4	1.8		0	2 s		calm	0.03	0.8	clear	V. Verge.
Fort Davis, Texas	25.13	638.3	29.85	758.2	57	13.9	62	sw.	12	5.4		0	0			0	0	clear	J. Williams.
Fort Elliott, Texas	27.15	689.6	29.85	758.2	48	8.9	52	nw.	12	5.4		8 k	0	nw.		0	0	cloudy	W. J. Cundall.
Fort Gibson, Indian T'y	29.27	743.4	29.83	757.7	58.8	14.7	87	calm	0	0		0	0			inap.	inap.	clear	J. B. Campbell.
Fort Grant, Arizona	25.30	642.6	29.91	759.7	46	7.8	22	sw.	4	1.8		0	0			0	0	clear	T. J. Macgowan.
Fort Keogh, Montana	27.53	699.2	29.98	761.5	42	5.6	82	nw.	19	8.5		0	8 s		nw.	0.11	2.8	cloudy	W. B. Stockman.
Fort Macon, North Carolina	29.96	761.0	29.97	761.2	69	20.6	100	sw.	8	3.6		0	fg.		calm	0	0	clear	L. Leonardy.
Fort McKavett, Texas	27.65	702.3	29.89	759.2	62	16.7	72	sw.	7	3.1		0	0			0	0	clear	J. E. Thatcher.
Fort Missoula, Montana	26.86	682.2	30.16	766.1	30	— 1.1	88	sw.	1	0.4		0	0			0	0	clear	J. H. Jones.
Fort St. Michaels, Alaska	30.45	773.4	30.48	774.2	25	— 3.9	100	s.	10	4.5			10 s			inap.	inap.	cloudy	A. P. Lenyitt.
Fort Shaw, Montana	26.49	672.8	30.09	764.3	29	— 1.7	88	w.	2	0.9		0	0			0.01	0.3	clear	A. L. Mathews.
Fort Sill, Indian Territory	28.67	728.2	29.89	759.2	55.8	13.2	75	calm	0	0		0	8 s		w.	0	0	cloudy	T. Cleary.
Fort Stevenson, Dakota	27.88	708.1	29.71	754.6	50	10.0	100	n.	12	5.4			10 n		e.	1.15	29.2	light rain	W. Burrows.
Fort Verde, Arizona					45.6	7.6	56	w.			1	0	0			0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.58	624.3			31.2	— 0.4	87	sw.	4	1.8		0	1 k			0.16	4.1	clear	T. M. Ambler.
Fredericksburg, Texas																			H. S. Miles.
Galveston, Texas	29.79	756.7	29.84	757.9	77	25.0	95	sw.	11	4.9		0	5 ks			0.06	1.5	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.03	737.3	29.69	754.1	55.0	12.8	86	e.	10	4.5			10 n		e.	0.11	2.8	light rain	W. A. Reid.
Hatteras, North Carolina	29.92	760.0	29.94	760.5	68	20.0	93	sw.	18	8.0		3 c	hz.	w.		0	0	clear	R. M. Crawford.
Helena, Montana	25.90	657.8	30.08	764.0	34	1.1	65	calm	0	0		0	0			0	0	clear	S. Wheaton.
Henrietta, Texas	28.91	734.3	29.89	759.2	62.0	16.7	72	ne.	7	3.1		0	4 n			0.04	1.0	heavy rain	J. W. Byram.
Huron, Dakota	28.19	716.0	29.54	750.3	51.9	11.1	100	nw.	11	4.9			10 n			0.02	0.5	light rain	S. W. Glenn.
Indianapolis, Indiana	28.91	734.3	29.70	754.4	65	18.3	84	s.	7	3.1			10 ks		sw.	0.09	2.3	cloudy	O. Schutze
Indianola, Texas	29.80	756.9	29.84	757.9	78.3	25.7	91	sw.	10	4.5		0	fg.			0	0	clear	I. A. Reed.
Jacksboro, Texas	28.69	728.7	29.84	757.9	63	17.2	90	e.	2	0.9		6 cs	0	s.		0	0	fair	J. P. Sherry.
Jacksonville, Florida	29.98	761.5	30.02	762.5	80	26.7	79	sw.	15	6.7		2 cs	0			0	0	clear	J. W. Smith.
Keokuk, Iowa	28.98	736.1	29.62	752.3	64.0	17.8	78	sw.	6	2.7		0	0			0.04	1.0	clear	F. Z. Gosewisch
Key West, Florida	30.01	762.2	30.03	762.7	82.0	27.8	67	se.	11	4.9		3 cs	2 k		se.	0	0	fair	L. M. Melbourne.
Kittyhawk, North Carolina	29.89	759.2	29.91	759.7	71	21.7	84	sw.	17	7.6		4 c	0			0	0	fair	E. A. Beals.
Knoxville, Tennessee	28.89	733.8	29.91	759.7	69.6	20.9	86	sw.	5	2.2		2 c	7 ks		sw.	0	0	cloudy	J. A. Cody.
La Crosse, Wisconsin	28.80	731.5	29.56	750.8	64	17.8	78	s.	5	2.2			10 s		s.	0	0	cloudy	S. C. Emery.
La Mesilla, New Mexico	26.09	762.7	29.85	758.2	44.2	6.8	65	calm	0	0		0	0			0	0	clear	N. D. Lane.
Leavenworth, Kansas	28.87	733.3	29.75	755.6	55	12.8	74	nw.	4	1.8		8 k	0	nw.		0	0	cloudy	A. W. Browne.
Lewiston, Idaho	29.29	744.0	30.13	765.3	49.5	9.7	68	ne.	1	0.4		0	8 s			0	0	cloudy	J. M. Burlew.
Little Rock, Arkansas	29.50	749.3	29.81	757.2	63	17.2	100	w.	4	1.8			10 s		calm	5.35	135.9	cloudy	W. U. Simmons.
Los Angeles, California	29.67	753.6	30.07	763.8	49.4	9.7	93	ne.	4	1.8			fg.		calm	0	0	dense fog	E. F. Kubel.
Louisville, Kentucky	29.18	741.2	29.73	755.1	67	19.4	90	se.	3	1.3			10 ks		sw.	0.92	23.4	threatening	H. C. Smyth.
Lynchburg, Virginia	29.20	741.7	29.88	758.9	71.0	21.7	76	sw.	1	0.4		2 ck	4 s			0	0	fair	W. R. Bushby.
Madison, Wisconsin	28.60	726.4	29.60	751.8	61	16.1	93	se.	4	1.8			10 s		sw.	0.09	2.3	cloudy	C. A. Shaw.
Marquette, Michigan	29.19	741.4	29.91	759.7	40	4.4	82	e	13	5.8			10 n		calm	0.04	1.0	light rain	J. Gilligan.
Memphis, Tennessee	29.49	749.0	29.82	757.4	65	18.3	93	w.	5	2.2			10 s		w.	3.60	91.4	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	28.88	733.5	29.62	752.3	48	8.9	100	ne.	9	4.0			10n;fog			0.14	3.6	light rain	W. Lhue.
Mobile, Alabama	29.91	759.7	29.95	760.7	78	25.6	76	s.	11	4.9			10 s		s.	0	0	cloudy	J. D. Paxton.
Montgomery, Alabama	29.72	754.9	29.95	760.7	74	23.3	90	s.	4	1.8			10 s		s.	0	0	cloudy	J. B. McLaughlin.

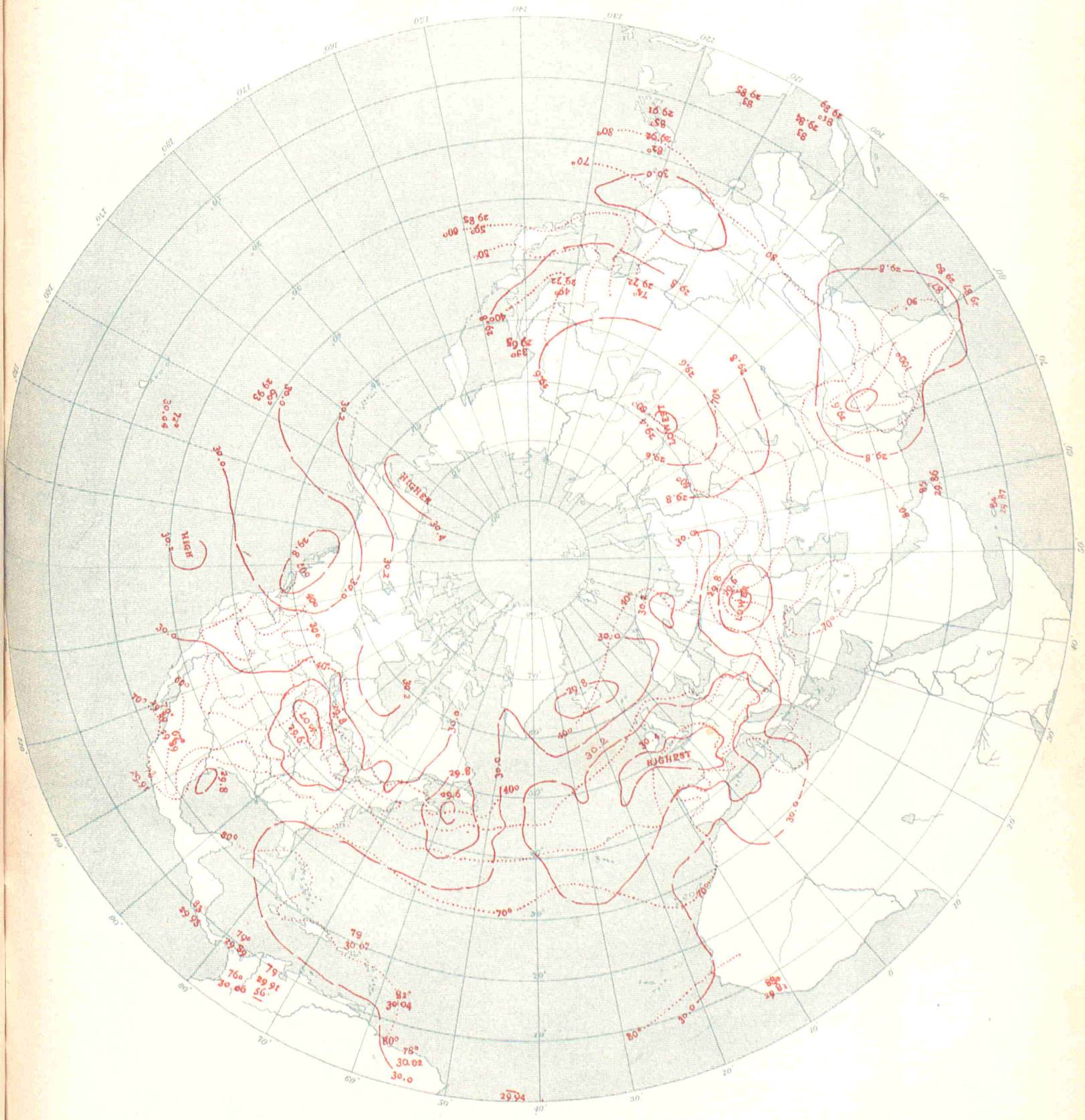
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS
UNITED STATES.—Cont'd.																			
Moorhead, Minnesota	28.64	727.4	29.62	752.3	48	8.9	100	ne.	8	3.6	.....	.....	10 n	.....	ne.	0.67	17.0	light rain	H. Bessant.
Morgantown, W. Virginia	28.87	733.3	29.88	758.9	61.0	16.1	87	calm	0	0	.....	.....	10 n	.....	.....	0.28	7.1	light rain	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.59	599.2	29.77	756.1	21.0	— 6.1	84	nw.	47	21.0	.....	4 cs	1 s	nw.	nw.	0	0	fair	J. G. Linsley
Nashville, Tennessee	29.27	743.4	29.80	756.9	65.0	18.3	93	se.	11	4.9	.....	.....	10 n	.....	sw.	2.33	59.2	thnd'r str'm	L. A. Jesunofsky.
New Haven, Connecticut	29.83	757.7	29.95	760.7	57	13.9	40	e.	7	3.1	.....	8 cs	sk.	w.	.....	0	0	cloudy	J. H. Sherman.
New London, Connecticut	29.89	759.2	29.94	760.5	56	13.3	57	ne.	9	4.0	.....	5 c	0	sw.	.....	0	0	fair	J. G. Lynch.
New Orleans, Louisiana	29.83	757.7	29.88	758.9	78.0	25.6	88	se.	10	4.5	.....	7 c	sk.	w.	.....	0	0	fair	L. Dunne.
Newport, Rhode Island	29.90	759.4	29.95	760.7	54.5	12.5	43	ne.	6	2.7	.....	6 c	0	calm	.....	0	0	fair	W. McGillivray.
New River, N. Carolina	.....	.....	.....	.....	76	24.4	82	sw.	.....	.....	1	0	0	.....	.....	0	0	clear	C. C. Corbin.
New Shoreham, Rhode I'd.	29.91	759.7	29.94	760.5	48.8	9.3	77	ne.	12	5.4	.....	4 c	0	w.	.....	0	0	fair	W. Davis.
New York, New York	29.77	756.1	29.95	760.7	58	14.4	53	ne.	14	6.3	.....	0	9 s	.....	.....	0.20	5.1	cloudy	E. B. Garriott.
Norfolk, Virginia	29.84	757.9	29.86	758.4	76	24.4	74	nw.	7	3.1	.....	3 c	0	nw.	.....	0	0	clear	J. T. Elker.
North Platte, Nebraska	26.94	684.3	29.80	756.9	45.6	7.6	83	nw.	18	8.0	.....	0	8 s	.....	.....	0.03	0.8	cloudy	E. F. Brady.
Olympia, Washington T'y	29.85	758.2	29.89	759.2	53.5	11.9	86	s.	10	4.5	.....	.....	10 n	.....	s.	0.16	4.1	light rain	J. Dascomb.
Omaha, Nebraska	28.52	724.4	29.68	753.9	54.1	12.3	74	w.	8	3.6	.....	.....	10 s	.....	nw.	0	0	cloudy	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.40	772.1	30.42	772.7	14.5	— 9.7	100	sw.	2	0.9	.....	.....	10 s	.. ..	e.	0.02	0.5	cloudy	P. H. Ray.
Oswego, New York	29.64	752.8	29.97	761.2	46.0	7.8	72	ne.	7	3.1	.....	6 ck	0	w	.....	0	0	fair	S. W. Beall.
Palestine, Texas	29.30	744.2	29.85	758.2	66.0	18.9	97	n.	4	1.8	.....	.....	fg.	.....	.....	0.10	2.5	dense fog	L. M. Pindell.
Pensacola, Florida	29.93	760.2	29.96	761.0	77.4	25.2	90	s.	14	6.3	.....	.....	10 s	.....	s.	0	0	cloudy	M. McGauran.
Philadelphia, Pa	29.81	757.2	29.91	759.7	63	17.2	84	ne.	11	4.9	.....	.....	10 s	.....	ne.	1.21	30.7	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.62	447.5	29.68	753.9	7	—13.9	100	nw.	12	5.4	.....	.....	fg.	.....	nw.	1.95	49.5	dense fog	L. M. Dey.
Pioche, Nevada	24.13	612.9	30.05	763.3	42	5.6	35	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.04	737.6	29.84	757.9	61.0	16.1	90	s.	4	1.8	.....	.....	10 s	.....	.....	0.59	15.0	cloudy	J. H. Bryce.
Poplar River, Montana	27.81	706.4	.....	.....	.....	.....	.....	nw.	.....	.....	6	.....	10 n	.....	calm	1.32	33.5	heavy rain	U. D. Maxwell.
Port Eads, Louisiana	29.93	760.2	29.94	760.5	77.4	25.2	86	se.	14	6.3	.....	0	0	.....	.....	0	0	clear	H. G. Christian.
Port Huron, Michigan	29.10	739.1	29.78	756.4	54.7	12.6	78	e.	8	3.6	.....	.....	10 s	.....	e.	0.06	1.5	cloudy	W. O. Bailey.
Portland, Maine	29.88	758.9	29.93	760.2	51.0	10.6	47	nw.	9	4.0	.....	0	0	.....	.....	inap.	inap.	clear	D. C. Murphy.
Portland, Oregon	29.93	760.2	30.00	762.0	52.0	11.1	93	s.	5	2.2	.....	.....	10 s	.....	sw.	0.10	2.5	cloudy	M. L. Hearne.
Portsmouth, N. Carolina	.....	.....	.....	.....	72	22.2	90	sw.	16	7.2	.....	6 c	0	s.	.....	0	0	fair	F. P. Chaffee.
Prescott, Arizona	24.83	630.7	29.93	760.2	36	2.2	53	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. McN. Wright.
Provincetown, Mass	29.92	760.0	29.95	760.7	48	8.9	71	n.	10	4.5	.....	0	3 s	.....	.....	0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.01	762.2	30.02	762.5	78.5	25.8	79	se.	11	4.9	.....	3 c	0 ks	calm	se.	0.36	9.1	cloudy	W. J. Evans.
Red Bluff, California	29.65	753.1	30.02	762.5	61.6	16.4	45	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.58	751.3	29.82	757.4	77	25.0	90	se.	2	0.9	.....	3 c	0	calm	.....	0	0	clear	P. M. Wilson.
Rochester, New York	29.27	743.4	29.93	760.2	46	7.8	68	e.	13	5.8	.....	10 cs	0	w.	.....	0	0	cloudy	F. Gillam.
Roseburg, Oregon	29.54	750.3	30.09	764.3	48.6	9.2	87	s.	2	0.9	.....	5 k	0	sw.	.....	0	0	fair	J. J. Nanry.
Sacramento, California	29.91	759.7	29.99	761.7	60.4	15.8	75	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.11	739.4	29.70	754.4	62.0	16.7	93	sw.	8	3.6	.....	hz.	0	.....	.....	0.01	0.3	clear	J. H. Webber.
St. Paul, Minnesota	28.69	728.7	29.54	750.3	59.5	15.3	85	e.	7	3.1	.....	.....	10 s	.....	e.	0.43	10.9	cloudy	P. F. Lyons.
St. Vincent, Minnesota	28.92	734.6	29.78	756.4	47	8.3	68	ne.	12	5.4	.....	.....	10 s	.....	e.	0.36	9.1	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.77	654.5	30.09	764.3	40	4.4	40	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.17	740.9	29.87	758.7	62	16.7	87	calm	0	0	.....	.....	10 s	.....	se.	0	0	cloudy	E. Lane.
San Diego, California	29.92	760.0	29.99	761.7	51.6	10.9	88	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.09	738.9	29.76	755.9	61	16.1	87	s.	10	4.5	.....	.....	10 n	.....	.....	0.16	4.1	light rain	M. H. Perry.
Sandy Hook, New Jersey	29.90	759.4	29.94	760.5	55.0	12.8	74	e.	25	11.2	.....	3 k	hz.	e.	calm	0.38	9.7	clear	B. A. Blundon.
San Francisco, California	29.96	761.0	30.03	762.7	57	13.9	74	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.20	589.3	29.81	757.2	33.4	0.8	74	ne.	8	3.6	.....	0	0	.....	.....	0.03	0.8	clear	H. U. Jones.
Savannah, Georgia	29.91	759.7	30.00	762.0	78	25.6	82	sw.	5	2.2	.....	.....	10 ks	.....	sw.	0	0	cloudy	H. W. Ford.
Shreveport, Louisiana	29.61	752.1	29.85	758.2	67	19.4	90	calm	0	0	.....	.....	10 s	.....	.....	0.41	10.4	cloudy	E. N. Meekins.
Silver City, New Mexico	24.32	617.7	29.87	758.7	42	5.6	35	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. B. Wallace.
Sitka, Alaska	29.73	755.1	29.79	756.7	33.5	0.8	85	n.	2	0.9	.....	3 c	0	nw.	.....	0	0	clear	J. J. McLean.
Smithville, North Carolina	29.94	760.5	29.98	761.5	72	22.2	90	w.	10	4.5	.....	0	5 k	.....	sw.	0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	28.08	713.2	30.13	765.3	45	7.2	76	s.	1	0.4	.....	.....	10 s	.....	sw.	0	0	cloudy	D. Moore.
Springfield, Illinois	28.99	736.3	29.66	753.4	65	18.3	87	sw.	8	3.6	.....	3 ck	4 k; s	sw.	sw.	0.12	3.0	fair	T. B. Jennings.
Springfield, Massachusetts	29.83	757.7	29.96	761.0	58.4	14.7	42	ne.	3	1.3	.....	0	hz.	.....	.....	0	0	clear	T. S. Outram.
Springfield, Mo	28.36	720.3	29.84	757.9	57	13.9	83	w.	6	2.7	.....	0	fg.	.....	.....	0.03	0.8	clear	J. B. Marbury.
Starkville, Miss	29.39	746.5	.....	.....	74	23.3	90	se.	10	4.5	.....	.....	10 ks	.....	se.	0.37	9.4	cloudy	M. J. Wright.
Stockton, Texas	26.94	684.3	29.95	760.7	59.0	15.0	45	s.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Thatcher's Island, Mass	29.91	759.7	29.96	761.0	48.5	9.2	77	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	F. R. Day.
Toledo, Ohio	29.05	737.9	29.73	755.1	57	13.9	86	ne.	4	1.8	.....	.....	10n; fg	.....	.....	inap.	inap.	light rain	A. Buell.
Tucson, Arizona	27.59	700.8	29.93	760.2	51	10.6	61	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.73	755.1	30.10	764.5	51	10.6	72	s.	2	0.9	.....	2 ck	2 s	.....	.....	0	0	fair	J. Daly.
Uvalde, Texas	28.92	734.6	29.87	758.7	54	12.2	66	calm	0	0	.....	0	0	.....	.....	0	0	clear	E. C. Imlay.
Vicksburg, Mississippi	29.60	751.8	29.85	758.2	75	23.9	82	sw.	6	2.7	.....	0	8 s	.....	sw.	0.03	0.8	cloudy	H. T. Brisbane.
Visalia, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. L. Seward.
Washington, D. C.	29.78	756.4	29.89	759.2	63.5	17.5	89	ne.	6	2.7	.....	3 ck	6 k	.....	ne.	0.13	3.3	cloudy	B. M. Purssell.
West Las Animas, Colorado	26.08	662.4	29.94	760.5	45	7.2	63	nw.	10	4.5	.....	0	8 s	.....	w.	0.28	7.1	cloudy	J. Grover.
Williamsport, Pa	29.32	744.7	29.92	760.0	58.5	14.7	66	ne.	2	0.9	.....	.....	10 ks	.....	.....	0.48	12.2	cloudy	B. F. Hough.
Wilmington, N. Carolina	29.91	759.7	29.96	761.0	73	22.8	90	w.	10	4.5	.....	9k	0	sw.	.....	0	0	cloudy	A. T. Sherwood.
Winnemucca, Nevada	25.74	653.8	30.09	764.3	36	2.2	58	ne.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Yankton, Dakota	28.31	719.1	29.59	751.6	51	10.6	80	nw.	14	6.3	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	J. H. Atfield.
Yuma, Arizona	29.77	756.1	29.92	760.0	59.1	15.1	70	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.03	559.6	.....	.....	55.5	13.1	77	w.	1	0.4	.....	3 k	2 s	.....	.....	0.02	0.5	fair	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.03	762.7	30.04	763.0	82	27.8	82	e.	.....	.....	.....	5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	30.03	762.7	30.06	763.5	76	24.4	95	s.	4	1.8	.....	.....	10 n	.....	s.	1.95	49.5	rainy	J. I. Plume.
Havana, Cuba, W. I.	29.99	761.7	30.04	763.0	81	27.2	79	se.	1.2	0.5	.....	5 cs	2 ks	calm	calm	0	0	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.02	762.5	30.03	762.7	80.1	26.7	63	calm	0	0	.....	0	1 s	.....	e.	0	0	.....	Robert Johnston.
Magua, San Domingo, W. I	.....	.....	.....	.....	76	24.4	.....	ne.	.....	.....	3	0	0	.....	.....	0	0	.....	S. M. Pike.
Navassa, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. M. Everett.
Paramaribo, S. A.	30.02	762.5	30.02	762.5	78	25.6	91	e.	.....	.....	2	.....	10 n	e.	e.	0.900	22.9	rainy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.45	748.0	29.91	759.7	79	26.1	85	n.	.....	.....	2	5 ck	4 k	calm	n.	1.13	28.7	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	93	e.	.....	.....	1	c	1 k	.....	e.	0	0	clear	Earl Flint.
Santiago de Cuba, W. I.	30.00	762.0	30.02	762.5	79	26.1	82	n.	24	10.7	.....	1 ck	0	.....	.....	0	0	fair	Robert Mason.
York Factory, B. A.	30.34	770.6	30.39	771.9	31.0	— 0.6	95	se.	14	6.3	.....	2 k	1 s	se.	se.	0	0	fair	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Alert, S. 13° 08′, E. 45° 29′	29.94	760.5	83	28.3	70	sse.			2		4							d. clouds.
H. M. S. Alexandra, Corfu, Ionian Island	29.83	757.7	70	21.1	75	se.			3		8	sse.						d. clouds.
H. M. S. Amethyst, N. 31° 05′, W. 17° 39′	29.99	761.7	66	18.9	94	nw.			4		4	nnw.				3	wnw.	d. clouds.
H. M. S. Champion, S. 6° 25′, W. 105° 30′			77	25.0	90	ne.			3		10	calm				2	nne.	drizzling.
H. M. S. Cleopatra, N. 4° 38′, E. 106° 04′	29.84	757.9	82.5	28.1	91	calm			0		2							d. clouds.
H. M. S. Comus, N. 4° 30′ W. 112° 21′	29.85	758.2	82.5	28.1	91	calm			0		3	sw.						d. clouds.
H. M. S. Coquette, Alexandria, Egypt	29.92	760.0	75	23.9		wnw.			3		3	w.						d. clouds.
H. M. S. Dido, N. 10° 40′, W. 61° 30′	29.97	761.2	79	26.1		ese.			3		2							misty.
H. M. S. Druid, N. 17° 20′, W. 83° 57′	29.95	760.7	81	27.2	87	ese.			3-4		1	ese.				2-3	se.	blue sky.
H. M. S. Dwarf, S. 32° 34′, W. 58° 05′	30.20	767.1	43.3	6.3	94	calm			0		0							blue sky.
H. M. S. Eclipse, S. 12° 20′, E. 44° 33′	29.95	761.0	83	28.3		sse.			2		2							d. clouds.
H. M. S. Emerald, S. 51° 00′, W. 171° 20′	29.02	737.1	53	11.7	?	n.			5-6		10	nnw.				0	nnw.	showery.
H. M. S. Euryalus, Trincomalee, Ceylon	29.80	756.9	87	30.6	79	e.			1-2		4	calm						d. clouds.
H. M. S. Fantome, Puerto Cabello, S. A.	29.98	761.5	78	25.6		calm			0		10	n.						misty.
H. M. S. Flying Fish, N. 32° 44′, E. 129° 52′	29.96	761.0	65	18.3	94	calm			0		4							d. clouds.
H. M. S. Fawn, N. 11° 50′, E. 54° 59′	29.87	758.7	83.5	28.6	79	s.			1-2		3					1	s.	d. clouds.
H. M. S. Gannet, S. 27° 03′, W. 70° 51′	29.93	760.2	57	13.9	81	e.			2		10							gloomy.
H. M. S. Griffon, N. 41° 27′ W. 64° 17′	29.94	760.5	61	16.1	70	nnw.			2-3		6					4	ssw.	d. clouds.
H. M. S. Inconstant, Simon's Bay, Cape Colony	30.09	764.3	67	19.4	97	e.			1		6							d. clouds.
H. M. S. Iron Duke, N. 28° 17′ E. 129° 18′	30.00	762.0	65	18.3	94	e.			1		2							d. clouds.
H. M. S. Kingfisher, S. 19° 20′, W. 74° 30′	30.04	763.0	63	17.2		se.			2-3		8	calm				1	s.	d clouds.
H. M. S. Lark, S. 8° 14′, E. 156° 30′	29.89	759.2	78.3	25.7		ene.			2		10					1	nw.	raining.
H. M. S. Magpie, N. 34° 56′, E. 139° 52′	29.86	758.4	61.7	16.5	87	e.			1		7							d. clouds.
H. M. S. Northampton, Bermuda, W. I.	30.01	762.2	71	21.7	95	wsw.			3		10	wsw.						d. clouds.
H. M. S. Pegasus, N. 1° 17′, E. 103° 51′	29.89	759.2	80.5	26.9	93	n.			1		2							d. clouds.
H. M. S. Rambler, S. 8° 42′, E. 13° 06′	29.89	759.2	79	26.1	95	ssw.			1		1							blue sky.
H. M. S. Rocket, N. 48° 27′, W. 123° 27′	29.73	755.1	49	9.4	?	w.			1		9							raining.
H. M. S. Sylvia, N. 40° 27′ E. 14° 24′	30.07	763.8	60.5	15.8	82	ne.			6		4	ene.				0	ne	misty.
H. M. S. Tenedos, N. 44° 40′ W. 63° 35′	29.82	757.4	39.5	4.2	77	nnw.			4-5		9							squally.
H. M. S. Triumph, Caldera, Chili	29.96	761.0	57	13.9	87	ne.			1		10	calm						d. clouds.
H. M. S. Woodlark, Ras-al-Had, Arabia	29.76	755.9	84.5	29.2	87	ssw.			1		0					2	sw.	misty.
PORTUGUESE NAVAL.																		
Rio Lima, Porto Praya, Cape Verd Islands	30.06	763.6	76.6	24.8	89	ene.			2		2					2		d. clouds.
Tamega, Macao, China	29.93	760.2	83.3	28.5	81	sse.			4		3		se.					d. clouds.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla.	29.91	759.7	78	25.6	69	s.	16	7.2			8		sw.	0	0			fair.
N. Yard, Portsmouth, N. H.	29.95	760.7	49	9.4	50	nw.	3	1.3			0			0	0			clear.
Naval Hospital, Yokohama, Japan	29.70	754.4	60.5	15.8	88	n.			1		10		n.	0.16	4.1			gloomy.
Adams, N. 34° 48′, W. 120° 59′	29.78	756.4	56	13.3	94	nw.			2-3		0			0	0	long	nw.	hazy.
Alaska, Payta, Peru	29.91	759.7	64	17.8	89	se.			1		0			0	0	sm'h		clear.
Alert, Kobe, Japan*	29.75	755.6	68	20.0	70	sw.			1		2		sw.	0	0	sm'h		fair.
Alliance, Hampton Roads, Va.	29.90	759.4	70	21.1	90	w.			2		5			0	0	sm'h		fair.
Ashuelot, Kobe, Japan	29.85	758.2	65	18.3	94	w.			2		2		calm					fair.
Brooklyn, Montevideo, Uruguay	30.19	766.8	56	13.3	87	s	8	3.6			5?		s.	0	0	mod.		cloudy?
Colorado, New York, N. Y.	29.92	760.0	59	15.0	54	ne.	3	1.3			10		calm	0.12	3.0			hazy.
Enterprise, Hampton Roads, Va*	29.85	758.2	71	21.7	80	w.			2		2		nw.					clear.
Essex, S. 32° 23′, W. 47° 07′	29.97	761.2	64	17.8	58	w.			4		8		w.			mod.	w.	fair.
Franklin, Norfolk, Va.	29.96	761.0	75	23.9	77	wsw.	8	3.6			5		calm	0	0			fair.
Galena, Port Mahon, Minorca Island	30.26	768.6	64	17.8	73	ne.			2-3		0					sm'h		clear.
Independence, Mare Island, Cal.	29.89	759.2	55	12.8		sw.			1		0			0	0			clear.
Iroquois, Mare Island, Cal.	29.99	761.7	62	16.7	77	calm			0		0							clear.
Kearsarge, Hampton Roads, Va†	29.87	758.7	69	20.6	100	w.			3		2					sm'h		fair.
Lackawana, Callao, Peru†	29.96	761.0	62	16.7	88	calm			0		10		n.	0	0			cloudy.
Lancaster, Port Mahon, Minorca Island*	30.22	767.6	65	18.3	94	nne.			4		0			0	0			clear.
Marion, S. 26° 20′, W. 36° 46′	30.18	766.6	70	21.1	75	calm			0		8		calm			long	ssw.	cloudy.
Michigan, Erie, Pa.	29.77	756.1	51	10.6	100	se.			3		10		se.					cloudy.
Minnesota, Newport, R. I.	29.96	761.0	55	12.8	50	ene.	5	2.2			5		nw.					
Monocacy, N. 33° 49′ E. 130° 09′	29.94	760.5	66	18.9	84	sw.			3		2		sw.			sm'h		fair.
New Hampshire, Newport, R. I.	29.91	759.7	52	11.1	93	ne.			3		5					sm'h		fair.
Nipsic, Port Mahon, Minorca Island	30.27	768.8	64	17.8	48	n.			3		0					sm'h		clear.
Onward, Callao, Peru†	30.10	764.5	61	16.1	94	e.			1		10		n.			long	w.	misty.
Palos, Kobe, Japan	29.90	759.4	66	18.9	74	wsw.			1		2		wsw.					fair.
Passaic, Washington, D. C.	29.92	760.0	63	17.2	94	e.			1		8							cloudy.
Pensacola, Callao, Peru	30.02	762.5	61	16.1	100	n.	2	0.9			10					sm'h		drizzling.
Portsmouth, Plymouth, Eng.	30.41	772.4	57	13.9	100	w.			3		10		w.			sm'h		overcast.
Powhatan, Hampton Roads, Va.	29.69	754.1	74	23.3	81	w.			2		2							fair.
Quinnebaug, Port Mahon, Minorca Island	30.25	768.3	64	17.8	58	ne.			4		0					sm'h		clear.
Ranger, Mazatlan, Mexico*	29.82	757.4	70	21.1	80	calm			0		2		calm	0	0	sm'h		hazy.
Richmond, Kobe, Japan*	29.80	756.9	69	20.6	90	calm			0		0			0	0			clear.
Saratoga, Plymouth, Eng.	30.41	772.4	59	15.0	88	w.			1-2		8		w.	0	0	sm'h		cloudy.
Shenandoah, New York, N. Y*	29.98	761.5	59	15.0	59	ne.			2		10							cloudy.
St. Louis, League Island, Pa.	30.11	764.8	61	16.1	94	nne.	5	2.2			10		n.	1.30	33.0			drizzling.
Swatara, N. 37° 05′, E. 125° 44′*	29.69	754.1	52	11.1	86	calm			0		10					sm'h		foggy.
Tennessee, Fort Monroe, Va.	29.90	759.4	70	21.1	90	wnw.	8	3.6			5			0	0			hazy.
Vandalia, Hampton Roads, Va*	29.87	758.7	69	20.6	90	nnw.			2		5		w.					fair.
Wabash, Boston, Mass.	29.96	761.0	53	11.7	80	calm	0	0			2		n.	0	0			fair.
Wachusetts, Fort Wrangle, Alaska	29.66	753.4	38	3.3	90	sw.			1		8					sm'h		cloudy.
Wyoming, Port Royal, S. C.	30.01	762.2	75	23.9	95	sw.	9	4.0			10		sw.	0	0			overcast.
Yantic, Hampton Roads, Va*†	29.85	758.2	69	20.6	95	w.			2		2							fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 49° 00′, W. 39° 00′*	30.27	768.8	47	8.3	77	wsw.			3		3		w.	0	0	2	w.	drizzling.
S. S. Prussian, N. 51° 50′, W. 7° 26′*	30.27	768.8	56	13.3		sw.			4		10		w.	8 h'r	8 h'r	sm'h	nne.	foggy
S. S. Scandinavian, N. 42° 46′, W. 55° 00′*	29.69	754.1	44	6.7		wsw.			6		10		wsw.	12 h'r	12 h'r	con.	var.	misty.
S. S. Waldensian, N. 47° 18′, W. 36° 21′*	30.38	771.6	52	11.1		nne.			3		2		nw.	6 h'r	6 h'r	short	nw.	clear.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, N. 40° 42′, W. 48° 36′	29.93	760.2	58	14.4	87	se.			6		8		se.			mod.	s.	cloudy.
S. S. Indiana, Liverpool, Eng†	30.54	775.7	61	16.1	94	n.			2		2		nw.	0	0			fair.
S. S. Lord Clive, N. 41° 28′, W. 66° 28′*	29 47	748.5				wnw.			4		9		wnw.	7 h'r	7 h'r	high	sw.	cloudy.
S. S. Ohio, Philadelphia, Pa.†	29.89	759.2	59	15.0	94	nw.			2		9		nw.					overcast.
ANCHOR LINE.																		
S. S. Devonia, N. 43° 06′, W. 48° 30′†	30.01	762.2	46	7.8		sse.			4		10		sw.			mod.	sse.	cloudy.
S. S. Elysia, N. 51° 16′, W. 15° 03′†	30.47	773.9	62	16.7		wsw.			1		6		wnw.	0	0	sm'h		cloudy.
S. S. Utopia, Cadiz, Spain†	30.18	766.6	77	25.0	69	ese.			8		0			3 h'r	3 h'r			clear.
ATLAS LINE.																		
S. S. Atlas, Colon, U. S. C.†	29.90	759.4	84	28.9	83	ne.			1		10		ne.	8 h'r	8 h'r	mod.	ne.	hazy.
S. S. Antillas, N. 24° 48′ W. 68° 36′*†	30.25	768.3																fine.
S. S. Claribel, N. 18° 33′, W. 72° 20′*†	30.14	765.5	81	27.2	82	e.			2		4		calm	0	0	sm'h		fine.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S 38° 29′, W. 2° 22′	30.01	762.2	59.9	15.5	91	wnw.			6		6							d. clouds.
British Merchant, S. 31° 31′, E. 32° 17′	30.12	765.0	73.5	23.1	71	wnw.			3		3							misty.
Bk Commowyne, N. 54° 33′. W 10° 21′	30.30	769.6	54	12.2	86	sw.			4		5							d. clouds.
Bk Coppename, N. 41° 50′, W. 18° 48′	30.29	769.4	60	15.6	71	ne.			5		7							d. clouds.
S. S. Earnock, N. 35° 10′ W. 37° 07′	30.20	767.1	70	21.1	97	sse.			4		9							d. clouds.
Glencairn, S. 26° 08′, E. 60° 00′	30.08	764.0	74	23.3	81	nw.; nnw.]			3		7							d. clouds.
Bkt. Hope, N. 12° 22′ W. 39° 10′	30.03	762.7	76.2	24.6	81	ene.			4		4							d. clouds.
S. S. Minho. S. 5° 12′, W. 33° 37′	30.00	762.0	83.1	28.4	79	calm			0		5							d. clouds.
CUNARD LINE.																		
S. S. Marathon, N. 52° 46′, W. 5° 12′	30.39	771.9	58	14.4		e.			1		1		wsw.	0	0	sm'h		clear.
S. S. Parthia, N. 44° 06′ W. 46° 40′†	30.00	762.0				w.			4		4		n.	0	0	long	w.	clear.
S. S. Scythia, N. 48° 59′, W. 29° 20′	30.19	766.8	53	11.7	100	n.			4		10		n.	6 h'r	6 h'r		w.	raining.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. France. N. 47° 07′, W. 30° 06′†	30.19	766.7	59.0	15.0		ssw.			5				s.	0	0	sm'h	s.	clear.
S. S. St. Germain, N. 46° 40′ W. 27° 42′	30.44	773.2	55.4	13.0		s.			5				s.	0	0	sm'h	s.	clear.
S. S. Ville de Marseilles, Cadiz, Spain *†	29.90	759.4	69	20.6		e.			7		0			0	0			clear.
GUION LINE.																		
S. S. Arizona, N. 40° 31′, W. 67° 48′	29.91	759.7	44	6.7		ne.			2		10		wnw.	0	0	sm'h		overcast.
S. S. Wisconsin, N. 49° 10′, W. 30° 45′*†	30.20	767.1	52	11.1		ne.			3		10		nne.	9 h'r	9 h'r	mod.	nw.	drizzling.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S Bohemia, N. 40° 42′, W. 74° 01′*†	29.97	761.2				nne.			1		5		n.	rain	rain			fine.
S. S. Lessing, N. 48° 10′, W. 28° 59′	30.20	767.0	64	17.8		sw.			4		10			rain	rain	mod.	wsw.	misty.
S. S. Silesia, Hamburg, Germany†	30.16	766.1	46	7.8		sw.			5		10			4 h'r	4 h'r			raining.
JOHNSTON LINE.																		
S. S. Thanemore, N. 44° 48′ W. 33° 03′	30.18	766.6				s.			5		8		wsw.	1 h'r	1 h'r		nw.	hazy
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, Buenos Ayres, S. A.*†	30.31	769.9	56	13.3		wnw.			1		0			0	0			clear.
LEYLAND LINE.																		
S. S. Iberian, N. 50° 56′, W. 18° 57′	30.53	775.4				wsw.			1									clear.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenapp, N. 0° 22′ W. 44° 07′*†	29.94	760.5				se.			2		3		e.	0	0	light	se.	fine.
NATIONAL LINE.																		
S. S. Canada, N. 45° 49′, W. 36° 16′†	30.28	769.1	54	12.2		ne.			3		6		n.	7 h'r	7 h'r	mod.	sw.	fine.
S. S. Denmark, London, England	30.35	770.9	65	18.3		wnw.			3		5		w.	0	0			fine.
S. S. England, N. 41° 22′ W. 50° 00′	29.83	757.7				sse.			6		8		sse.	0	0	high	sse.	cloudy.
S. S. Erin, N. 40° 40′, W. 66° 24′	29.85	758.2	39	3.9		nnw.			3		10		nw.	6 h'r	6 h'r	long	w.	fine.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S City of Alexandria, Vera Cruz*†	29.81	757.2	77	25.0	82	nne.			3		10		n.	0	0	long	n.	misty.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N. 41° 45′, W. 53° 05′*†	29.87	758.7	58	14.4		ssw.			6							high	sw.	stormy.
S. S. Mass, N. 49° 24′, W. 18° 20′*†	30.42	772.7	62	16.7		wsw.			1								w.	foggy.
S. S. Olbers, N. 38° 20′ W 13° 56′*†	30.10	764.5	64	17.8		ne.			4								nne.	fine.
NORTH GERMAN LLOYD																		
S. S. Elbe, Bremerhaven, Germany	30.28	769.1	47.3	8.5	93	w.			5–6		10		w.	4 h'r	4 h'r			drizzling.
S. S. Graf Bismarck, Santos Brazil	30.19	766.8	64.4	18.0		n.			2		5		s.;w.	2 h'r	2 h'r			fair.
S. S. Habsburg, N. 46° 51′, W. 37° 07′	30.27	768.8	51.8	11.0		nne.			2–3		5		nne.	0	0	mod.	nne.	fair.
S. S. Hermann, N. 51° 25′, E. 1° 52′†	30.22	767.6	55.4	13.0		wsw.			3		3		ne.	0	0	mod.	sw.	fair.
S. S. Hohenzollern, N. 46° 25′, W. 29° 58′*	30.28	769.1	58.1	14.5		wsw.			4		8		w.	0	0	long	w.	fair.
S S. Kronprinz F. Wilhelm, N. 49° 00′, W. 24° 30′	30.32	770.1	55.4	13.0		ssw.			4		7		ssw.	0	0	3	ssw.	fair.
S. S. Leipzig, N. 40° 53′ W 57° 42′	29.71	754.6	65.0	18.3	83	nw.			6		2		nw.	4 h'r	4 h'r	r'gh	w.	clear.
S. S. Main, New York, N. Y	29.86	758.4				ese.			3		9		e.	light	light			covered.
S. S. Mosel, N. 43° 07′, W. 47° 42′	30.12	765.0	48	8.9		ese.			4		7		e.	0	0	sm'h		cloudy.
S. S. Neckar, N. 41° 17′, W. 50° 35′	29.86	758.4	57.2	14.0		sse.			6		10		sse.	2 h'r	2 h'r	hv'y	s.	heavy rain.
S. S. Oder, N. 52° 45′, E. 3° 28′	30.29	769.4	51.8	11.0		nnw.			3		5		nw.	0	0	sm'h	nw.	fair.
S. S. Ohio, Bremerhaven, Germany	30.22	767.6				sw.			6		10			6½h'r	6½h'r			drizzling.
S. S. Rhein, N. 48° 20′, W. 27° 06′	30.14	765 5				sw.			6		7		sw.	0	0	mod.	w.	fair.
S. S. Salier, N. 46° 45′, W. 38° 31′	30.30	769.6	45.5	7.5		nw.			3		5?		nw.	1 h'r	1 h'r	r'gh	wnw.	cloudy?
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic N 35° 10′, E. 146° 56′†	29.85	758.2	69	20.6	84	w.			5		5		nw.	0	0	r'gh	sw.	fair.
S. S. Gaelic, N. 37° 55′, W. 160° 15′†	29.93	760.2	60	15.6	100	e.			6		10		se.			high	se.	overcast.
S. S. Oceanic, Yokohama, Japan*	29.72	754.9	63	17.2	83	ne.			3		8		var.					cloudy.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga†	30.05	763.3				ssw.			1		8?		ssw.					clear?
S. S. Seminole, Boston, Mass†	29.92	760.0	62	16.7	77	ese.			1		2		sw.	0	0			clear.
OREGON IMPROVEMENT COMPANY.																		
S. S. Willametta, N. 39° 00′, W. 124° 00′†	30.11	764.8	50	10.0	78	nnw.			5		0			0	0	mod.	nnw.	hazy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, N. 58° 21′, W. 135° 07′*†	29.94	760.5	41	5.0	100	nw.			4		3?		nw.					cloudy?
S. S. Oregon, San Francisco, Cal.†	30.05	763.3	55	12.8	93	calm			0		0							clear.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 34° 34′ W. 120° 39′†	29.93	760.2	51	10.6	93	w.			1		0					mod.	w.	hazy.
S. S. Dakota, San Francisco, Cal.†	30.05	763.3	56	13.3	75	calm			0		0					sm'h		clear.
S. S. State of California, N. 38° 00′, W. 123° 10′†	30.00	762.0	49	9.4	85	nw.			4		0					sm'h	w.	clear.
S. S. Victoria, N. 49° 10′, W. 123° 50′†	29.67	753 5	51	10.6	86	calm			0		8			14 h'r	14 h'r	sm'h		fair.
PACIFIC MAIL STEAMSHIP CO.																		
S. S. Australia. N. 24° 18′, W. 152° 55′	30.04	763.0	72	22.2	76	ese.			4		5		ne.	0	0	mod.	ene.	fine.
S. S. City of New York, Sydney, N. S. W†	30.25	768.3	65	18.3	84	ne.			1		0?			0	0			overcast?
S. S. City of Rio de Janeiro, N 16° 02′, W. 100° 35′ *†	30.11	764.8	78	25.6	82	nw.			1		10		w.	0	0	sm'h	wsw.	hazy.
S. S. City of Sydney, N. 34° 00′, W. 130° 11′†	30.23	767.8	56	13.3	81	nnw.			5		8		n.	0	0	mod.	nnw.	cloudy.
S. S. City of Tokio, Hong Kong, China†	29.98	761.5	78	25.6	82	calm			0		2		w.	0	0			fair.
S. S. Colima, N. 21° 55′, W. 106° 08′†	29.89	759.2	70	21.1	90	sw.			2		6		sw.	0	0	small	w.	fair.
S. S. Colon, Aspinwall, Panama†	29.90	759.4	81	27.2		calm			0		10		ne.	1 h'r	1 h'r	mod.	ne.	covered.
S. S. Grenada, Panama, Panama†	29.89	759.2	79	26.1	91	n.			1		8		nw.	2 h'r	2 h'r			cloudy.
S. S. South Carolina, Sal St Puedes, Costa Rica, C.A.†	29.93	760.2	82	27.8	87	s.			2		8		se.	3 h'r	3 h'r	r'gh	sw.	fair.
S. S. Zelandia, Sydney, N. S. W.	30.29	769.4	62	16.7	94	sw.			2		0							clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
QUEBEC S. S. COMPANY.																		
S. S. Bermuda, Roseau, Dominica, W. I.†	30.11	764.8	64?	17.8?		ese.			3		7		ese.	0	0	long	ese.	fine.
RED STAR LINE.																		
S. S. Belgenland, N. 40° 07′, W. 60° 00′†	29.87	758.7	67	19.4	94	sw.			2		9		sw.	10 h'r	10 h'r	cross	wsw.	fine.
S. S. Nederland, N. 49° 41′, W. 60 36′*†	30.46	773.7	56	13.3		w.			2		10		w.	0	0	long	w.	hazy.
S. S. Rhynland, Isle of Wight, Eng	30.44	773.2	57	13.9	81	wsw.			4		5		nw.	0	0	light	w.	hazy.
S. S. Switzerland, N. 39° 31′, W. 62° 33′†	29.84	757.9				wsw.			4		8		wsw.	4 h'r	4 h'r	cross	wsw.	cloudy.
S. S. Vaderland, Jersey City, N. J	29.82	757.4	57	13.9	75	e.			2		10			3 h'r	3 h'r			hazy.
S. S. Waesland, N. 40° 50′, W. 45° 11′	30.13	765.3	58	14.4		s.			4		5		sw	rain	rain	sm'h	s.	fair.
ROTTERDAM LINE.																		
S. S. W. A. Scholten, Rotterdam, Holland	30.45	773.4	54	12.2	93	nw.			3		10		wnw.	0	0			
STATE LINE.																		
S. S. State of Florida, N. 40° 55′, W. 67° 55′	30.08	764.0	44	6.7		wnw.			2		8		sw.	8 h'r	8 h'r	sm'h	sw.	cloudy.
S. S. State of Indiana, N. 51° 10′ W. 30° 55′†	30.09	764.3	48	8.9		var.			2		5			8 h'r	8 h'r	sm'h		fine.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 42° 27′, W. 54° 17′†	29.77	756.1	57.2	14.0		wsw.			4		10		wsw.	4 h'r	4 h'r	h'vy	wsw.	covered.
WARREN LINE.																		
S. S. Iowa, N. 42° 33′, W. 65° 16′*†	29.90	761.0	37	2.8		w.			3		3		w.	7 h'r	7 h'r	mod.	s.	clear.
WHITE STAR LINE.																		
S. S. Baltic, N. 43° 29′ W. 44° 55′†	30.22	767.6	54	12.2	73	s.			3		3		s.	0	0	2	sw.	d. clouds.
S. S. Britannic, N. 44° 47′, W. 42° 43′†	30.22	767.6	51	10.6	64	s.			2		2		sw.	0	0	sm'h		d. clouds.
S. S. Celtic, Liverpool, England†	30.45	773.4	64	17.8	43	w.			2		0			0	0	sm'h		fine.
S. S. Germanic, N. 44° 10′, W. 46° 46′†	30.19	766.8	46	7.8		s.			2		5		ssw.			long	ssw.	d. clouds.
WILSON LINE.																		
S. S. Romano, N. 41° 35′, W. 46° 00′*†	30.00	762.0	52	11.1		sse.								0	0	mod.	var.	clear.
MISCELLANEOUS.																		
Schr. Abbe Clifford, Barbadoes, W. I*†	30.02	762.5	80	26.7		e.			2		3			0	0			
Sch. Addie Fuller, Newport News, Va†	29.95	760.7	71	21.7	85	w.			1	3 c	0	nw.		0	0			clear.
Bk. Adelaide, S. 16° 30′, W. 34° 20′*†	30.06	763.5	82	27.8		ese.			5		5		se.	6 h'r	6 h'r	mod	s.e.	squally.
Schr. Ajax, Brazos, Texas†	29.86	758.4				ene.			1		0			0	0			hazy.
Bk. Alpha, Santiago de Cuba, Cuba, W. I†	29.96	761.0	80	26.7		nne.			1		0			0	0			clear.
Schr Annie Lewis, Aransas, Pass, Texas†	29.91	759.7	80	26.7		se.			3		0			0	0	long	se.	clear.
Bk. Anna Thormann, N. 34° 45′ W. 48° 31′	30.02	762.6	66.2	19.0	88	ssw.			6		9 n		sw.	0	0	mod.	s.	overcast.
Bk. Antioch, S. 40° 55′, E. 100° 50′*†	30.10	764.5	55	12.8		sw.			8		3		sw.	0	0	sm'h	sw.	clear.
S. S. Antonio Lopez, N. 20° 46′, W. 93° 28′*†	29.83	757.7	80	26.7	91	ese.			4		0			0	0	mod.	ese.	hazy.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.32	770.1	75	23.9		calm			0		0			0	0			clear.
Schr. Annie M. Smull, S. 14° 49′. E. 105° 20′*†	30.05	763.3	82	27.8										0	0			
S. S. Compton, Mouth Mississippi River†	29.93	760.2				sse.			4		4?		sse.	0	0			cloudy?
Schr. Edith R. Seward, Port Antonio, Jamaica, W. I*†	30.16	766.1	84	28.9		e.			3		2		e.	4 h'r	4 h'r			clear.
S. E. J. Spicer, N. 50° 45′, E. 0° 45′†	30.42	772.7				wnw.			3		10		n.	2 h'r	2 h'r	sm'h		overcast.
S. Enoch Train, Halifax, N. S*	29.83	757.7				n.			6		10		n.	shr's	sh'rs			overcast.
S. Exporter, S. 37° 00′, W. 20° 10′*†	30.05	763.3				nnw.			5		8		sw.	0	0	cross		cloudy.
Bk. Freya, Dublin, Ireland			57	13.9		calm			0		hz			0	0			fine.
S. Grecian, S. 28° 47′ E. 101° 21′*†	30.25	768.3	60	15.6		sse.			6		9		se.	0	0	long	ssw.	
Schr. Hattie G. McFarland, Boston, Mass*†	30.00	762.0	58	14.4		se.			1		0			0	0			clear.
Schr. Henry Denison, N. 29° 58′, W. 75° 12′†	30.12	765.0				ssw.			3		3		sw.	0	0	light	s.	fair.
Horace Scudder, N. 34° 10′, W. 77° 30′†	29.97	761.2	72	22.2		sw.			1		0			0	0			clear.
Bk. Johanne, N. 40° 48′, W. 34° 37′*†	30.20	767.1	66	18.9		s.			4		8		sw.	0	0	long	sw.	hazy.
Schr. John L. Thomas, Albuquerque Cays, C. A*†	29.99	761.7				e.			1		2		e.	1 h'r	1 h'r			clear.
Bkt. Josephine, Guanatamo, W. I.*†	30.13	765.3	80	26.7	74	nnw.			2		5			0	0			hazy.
Julia H., Havana, Cuba, W. I	30.05	763.3	76.9	24.9	86	se.			2		4 ks;s							d. clouds.
Bk. Kate Cann, N. 43° 39′, W. 41° 10′*†	29.74	755.4				ssw.			6		10		sw.	2 h'r	2 h'r	sm'h	sw.	rainy.
Bkt. Kryolith, N. 58° 34′ W. 35° 07′*†	29.94	760.5				wnw.			3		2		wnw.	0	0	mod.	ssw.	clearing.
S. S. Lamperts, Suez Canal, Egypt*	29.98	761.5	87.0	30.6	53	ne.			2	1c		calm						blue sky.
Light House Tender, Laurel, Appalachicola Bay, Fla†	30.03	762.7	80	26.7		sse.			3		8		sse.	½ h'r	½ h'r	hv'y	s.	cloudy.
S. S. Malabar, N 6° 43′, E. 77° 38′*†	29.87	758.7				sw.			2		8		sw.					cloudy.
Bg. Medina, Key Francis, W. I.†	30.17	766.3				se.			1		0							fine.
S. S. Nebo, N. 10° 54′, W. 54° 02′*†	30.00	762.0				nne.			2		3		nne.	0	0	mod	nne.	clear.
S. Paramita, S. 4° 49′ W. 33° 07′†	29.86	758.4	86	30.0		var.			1		5?		var.	shr's	shr's	cross	ne.	clear.?
Bk. Peppina, Bordeaux, France†	30.30	769.6	71	21.7	71	nne.			3		0							clear.
Bg. Potomac, N 28° 40′, W. 68° 00′*†	30.15	765.8				calm			0							light	n.	fine.
Bk. Princessen, N. 38° 32′, W. 68° 30′†	29.85	758.3	61	16.1		ene.			3		10			2 h'r	2 h'r	mod.	wsw.	light rain.
Bk. Rosebud, N. 41° 10′, W. 16° 06*†	30.05	763.3	68	20.0	41	ne			3		hz.			0	0	sm'h		fine.
S. Salisbury, S. 41° 04′ W. 4° 00′*	30.10	764.6	46.4	8.0	90	se.			5–6		10			13 h'r	13 h'r	long	ese.	cloudy.
Bk. Stella, S. 13° 43′, W. 98° 10′*	29.93	760.2	75.4	24.1	91	se.			2	3 c		se		0	0	sm'h	se.	d. clouds.
Bk. Truro, N. 40° 10′ W. 47° 30′*†	30.06	763.5				se.			3		5?		sse.	0	0	sm'h		clear.?
U.S.F.C.S.S. Fish Hawk, Quantico, Va†	30.07	763.8	68	20.0	90	se.			2		7		ne.	0	0			cloudy.
Yacht Vega, N. 23° 30′, W. 60° 10′*†	30.28	769.1	75	23.9		ene.			3				ene.	0	0	long	e.	
S. S. Victoria J. Peed, Salamanca Id, U. S. C*†	29.12	739.6				se.			1		7							
S. Washington, N. 50° 28′, W. 0° 04′*†	30.34	770.6				wsw.			3		5		w.	0	0	sm'h		fair.
Bg. Wauburn, N. 29° 41′. W. 69° 22′*†	30.10	764.5				w.			2		2		w.	0	0	sm'h		
Bk. Wm. Wilcox, N. 38° 15′ W. 60° 45′*†	29.90	759.4	62	16.7		wsw.			5		10		w.	4 h'r	4 h'r	short		cloudy.
S. Wm. Woodbury, N. 36° 56′, W. 75° 34′*†	29.64	752.8	61	16.1	94	w.			4									clear.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 11, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.09	764.2	69.8	21.0	75	nw.			4		0			0	0	clear	Moiroud.
Algiers			30.15	765.9	68.4	20.2	71	nw.			1		0			0	0	clear	Nicolas.
La Calle			30.22	767.6	68.0	20.0	72	wsw.			4		2			0	0	fair	Fonfrède.
Tunis			30.24	768.0															Jacques.
Saida			30.08	764.0															Dumas.
Tebessa			30.24	768.0	55.4	13.0	85	e.			11		0			0	0	clear	Derché.
Geriville					79.2	26.2	12	se.			4		2			0.047	1.2	cloudy	Lonchamp.
Laghouat			30.24	768.1	79.5	26.4	73	e.			1		2			0	0	fair	Abraham.
Biskra			30.24	768.2	84.6	29.2	29	w.			1		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.75	755.6	29.84	757.9	63.9	17.7	46	nne.	12	5.4			9			0	0	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.69	754.0	30.23	767.8	66.6	19.2	50	ne.			2		4			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.41	747.1	30.19	766.9	50.0	10.0	67	nw.	8.1	3.6			5			0.047	1.2		Dr. Wierzbiski.
Eperies	29.22	742.1	30.10	764.5	53.4	11.9	64	calm			0		9 ks		se.	0.010	0.4		Julius Mikolik.
Gratz	28.97	735.7	30.20	767.1	63.1	17.3	68	nw.			3		3			0	0		Andreas Rospini.
Hermannstadt	28.64	727.4	30.08	764.0	54.0	12.2	65	nw.			1		10			0.024	0.6		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.94	735.0	30.28	769.1	57.7	14.3	47	n.			4		3			0	0	clearing	The Staff.
Lemberg	29.08	738.7	30.07	763.8	53.2	11.8	34	se.			3		6			0	0		Dr. T. Stanecki.
Pola	30.13	765.3	30.24	768.1	63.1	17.3	55	wnw.			2		0			0	0		I. R. Hydrographic Office.
Szathmar	29.64	752.8	30.10	764.4	54.5	12.5	49	nw.			3		8			0	0		Joseph Midliuszky, S. J.
Szegedin	29.84	758.0	30.12	765.0	60.4	15.8	76	n.			3		3			0	0		Karl Stancel.
Trieste	30.15	765.9	30.26	768.5	65.8	18.8	56	calm			0		0			0	0		Rieder.
Vienna	29.54	750.4	30.26	768.6	58.3	14.6	35	nw.			4		1			0.031	0.8		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.95	760.7	30.05	763.3	50.1	10.1	79	s.	10	4.5			10			0.490	12.4	raining	W. Boswell
Armagh, Observatory	29.88	758.9	30.12	765.0	55.4	13.0	83	sw.	21	9.4			10					squally	S. Call.
Bidston, Liverpool Obs'y			30.19	766.8	61.9	16.6	68	wsw.	9	4.0			6					d clouds	John Hartnup.
Bolton, Sharples	29.63	752.6	30.16	766.1	62.8	17.1	59	sw.	12	5.4			6					d. clouds	Thomas Mackereth. [A.S.
Bradford, Yorkshire	29.80	756.9	30.19	766.8	60.9	16.1	60	sw.			1		6			0.02	0.5	d. clouds	J. McLandsborough, F. R
Bridgetown, Barbadoes	30.00	762.0	30.03	762.7	83.0	28.3	59	ne.			1		3					d clouds	Corpl. J. Surgenor, A. H.C.
Cardington			30.23	767.8	69.2	20.7	66	w.			0.4		8					overcast	John McLaren.
Chatham, School M. E.	30.17	766.3	30.30	769.6	66.2	19.0	62	sw.			1		7					d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	30.09	764.3	30.32	770.1	58.9	14.9	78	se.			1		8					overcast	The Staff.
Fort Napier, Natal	27.63	701.8	29.84	757.9	78.0	25.6	27	calm			0		0					blue sky	Pvt. E. K. Annis, A.H.C.
Free Town, Sierra Leone	29.60	751.8	29.84	757.9	85.0	29.4	44	w.			1		3					d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	30.06	763.5	30.12	765.0	67.5	19.7	74	e.			5		5					d. clouds	Cpl. O. Baldwin.
Glasgow, Observatory	29.85	758.2	30.05	763.3	52.9	11.6	77	sw.			4		10 k					overcast	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.10	764.5	30.27	768.8	68.9	20.5	50	sw.			1		7					d. clouds	The Staff.
Guernsey	30.06	763.5	30.36	771.1	63.0	17.2	78	nw			1		2					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	30.24	768.1	30.28	769.1	65.6	18.7	52	wsw.	9	4.0			8					overcast	The Staff.
Leicester, Museum	29.95	760.7	30.20	767.1	63.0	17.2	67	sw.			1		10					blue sky	J. C. Smith.
Malta, Mediterranean	29.93	760.2	30.03	762.7	71.6	22.0	48	nw.			3		0					d. clouds	T. H. Whysall.
Nassau, Bahamas	30.02	762.5	30.07	763.6	83.0	28.3	80	se.			2		5					overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.71	754.6	30.23	767.8	61.0	16.1	77	ssw.			2		10					d. clouds.	John Mac Ennil.
Oxford, Radcliffe Obs'y	30.03	762.7	30.26	768.6	64.0	17.8	67	sw.			2		8					overcast	The Staff.
Plymouth	30.24	768.1	30.31	769.9	60.0	15.6	78	sw.			1		10					overcast	John Merrifield.
Sandwick Manse, Orkneys			29.97	761.2	48.4	9.1	75	sw.	15	6.7			10					overcast	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.74	755.4	29.84	757.9	57.2	14.0	81	n.			2		10			blank	blank	misty	W. H. Lyne.
Sheffield	29.92	760.0	30.19	766.8	64.9	18.3	65	sw.			1		5			0.01	0.3	d. clouds	W. F. Cooper.
Stilloth Rectory	30.09	764.3	30.12	765.0	58.0	14.4	66	ssw.			5		10			0.070	1.8	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.21	767.3	61.2	16.2	61	wsw.	15	6.7			7					d. clouds	J. New.
Straifield Turgiss	30.07	763.8	30.29	769.4	64.7	18.2	65	sw.			2		7					d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	30.24	768.1	30.26	768.6	66	18.9	48	se.			4		6					d. clouds	W. Newcombe.
Valencia, Observatory	30.23	767.8	30.25	768.3	54.6	12.6	90	sw.	30	13.4			10					misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.06	763.5	30.11	764.8	35	1.7	70	ne.	21	9.4		0	8 s		ne.	0.090	2.3	clearing	H. J. Cundall, C. E.
Chatham, N. B*	30.16	766.1	30.22	767.6	39	3.9	65	ne.	9	4.0		0	0			0.01	0.3	clear	G. A. Blair.
Father Point, Quebec*	30.28	769.1	30.30	769.6	38	3.3	75	ne.	22	9.8		1 ck	2 k	calm	e.	0	0	fair	J. McWilliams.
Fort Garry, Manitoba*	29.44	747.8	30.29	769.4	38	3.3	96	e.	10	4.5		0	0			0	0	clear	James Stewart.
Halifax, N. S*	29.91	759.7	30.05	763.3	37	2.8	82	n.	15	6.7		10 k	0	ne.		inap.	inap.	cloudy	A. Allison.
Kingston, Ontario*	29.56	750.8	29.90	759.4	41	5.0	92	ne.	15	6.7			10 n		e.	0.65	16.5	light rain	A. P. Knight, M. A.
Montreal, Quebec*	29.89	759.2	30.11	764.8	40	4.4	86	se.	12	5.4			10 n			0.04	1.0	light rain	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.19	741.4	29.89	759.2	43	6.1	60	ne.	25	11.2		5 k	5 ks	se.	se.	0	0	cloudy	Rev. R. Mosley.
Port Dover, Ontario	29.02	737.1	29.72	754.9	40	4.4	100	ne.	21	9.4			10 n			0.93	23.6	threatening	H. Morgan.
Port Stanley, Ontario	29.06	738.1	29.71	754.6	42	5.6	86	ne.	12	5.4			10 n		ne.	0.73	18.5	cloudy	M. Payne.
Quebec, Quebec*	29.91	759.7	30.24	768.1	42	5.6	73	e.			6	2 k	2 s	ne.		0	0	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.54	750.3	30.01	762.2	42	5.6	57	e.	15	6.7		8 ck	0	s.		0	0	cloudy	W. H. McIntyre.
Saugeen, Ontario*	29.09	738.9	29.82	757.4	37	2.8	89	ne.	21	9.4			10 ks			0.50	12.7	cloudy	
St. Andrews, N. B	30.10	764.5	30.15	765.8	40	4.4	59	ne.	7	3.1			10 n			0	0	cloudy	
Sydney, C. B*	29.83	757.7	29.90	759.4	32	0.0	88	n.	27	12.1			10 n			0.19	4.8	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.39	746.5	29.78	756.4	42	5.6	92	ne.	30	13.4			10 n		e.	0.44	11.2	light rain	Magnetic Observatory.
Yarmouth, N. S*	30.02	762.5	30.09	764.3	43	6.1	65	ne.	6	2.7		3 c	0	w.		0	0	fair	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.78	756.4	30.04	763.0	35	1.7	100	ne.				fg.	fg			0.50	12.7	foggy	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	29.84	757.9	29.87	758.7	68.0	20.0	83	e.	6.0	2.7		0	2 k			0	0	clear	John Duthie.
Cape Town, C. G. H. Obs'y	29.84	757.9	29.88	758.9	73.1	22.8	51	s.	12	5.4		2	8			0	0		The Staff, for D. Gill.

STATIONS	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
CHINESE (*Sub-series*).																			
Hankow	29.76	755.9	30.03	762.7	77.5	25.3	83	calm			0		9			0.34	8.6		N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.90	759.4	29.93	760.1	65.1	18.4	77	se.	10.1	4.5		c	2	w.		0	0	clear	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	30.17	766.2	30.21	767.4	54.1	12.3	54	nw.	18	8			6						Oversergent Fischer.
Fanöe	30.23	767.8	30.25	768.3	52.7	11.5	81	w.			4		1						Overloerer Lauridsen.
Godthaab, Greenland	29.97	761.1	30.01	762.2	32.0	0.0	83	nw.			2		10			0	0		S. Kleinschmidt.
Stykkisholm, Iceland	29.72	755.0	29.77	756.1	33.1	0.6	85	w.			2		0						A. O. Thorlacius.
Thorshavn	29.70	754.4	29.74	755.3	47.1	8.4	74	w.	25	11			5						Overloerer Bergh.
Vestervig	30.06	763.6	30.15	765.9	50.7	10.4	85	wsw.			6		9						Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.59	751.6	30.23	767.8	70.9	21.6	57	calm			0		0			0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.77	756.2	30.32	770.2	66.2	19	84	ne.			1		n		ne.	0	0		M. Nicot, Director.
Arras, Engineer School	30.02	762.5	30.28	769.0	63.0	17.2	68	s.			3	c	0	sw.		0	0		M. Fénéon, Command't.
Avignon, Normal School					76.3	24.6	56	n.			2		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.78	756.3	30.32	770.2	66.2	19.0	9	e.			1		0			0	0	clear	M. Saillard, Director.
Beauvais, Normal School	30.10	764.4	30.35	771.0	66.2	19	60	sse.			1		5		se.	0	0	cloudy	M. Frère Eugène Marl.
Besançon, Normal School	29.35	745.5	30.24	768.0	67.8	19.9	57	ne.			2		0			0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.91	759.7	30.18	766.5	72.3	22.4	54	ene.			1		0			0	0	clear	M. Rayet, Director.
Bourges, Normal School	29.73	755.2	30.27	768.8	71.6	22	43	n.			1	c	0	n.		0	0		M. Postel, Director.
Brest, Naval Observatory	30.04	763.1	30.29	769.3	75.9	24.4	62	calm			0		3			0	0		M. de Kermaree, Dir.
Caen, Normal School	30.28	769.0	30.35	770.9	64.8	18.2	65	sw.					10		ssw.	0	0	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.97	761.2	30.29	769.4	63.1	17.3	52	s.			3		0			0	0	clear	M. Jadot, Director.
Charleville, Normal School	29.82	757.5	30.33	770.4	65.8	18.8	60	w.			1		0			0	0	clear	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.90	734.1	30.23	767.8	69.4	20.8	51	n.			1		0			0	0	clear	M. Allnard, Director.
Cluny, Normal School	29.45	747.9	30.29	769.3	67.5	19.7	54	n.			1		0			0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.51	749.5	30.38	771.6	65.7	18.7	47	nnw.			1		10 n	nnw.	nnw.	0	0	covered	Dr. Coulet, Director.
Gap, Normal School	27.67	702.8	30.11	764.9	73.8	23.2	36	n.			1		0			0	0		M. Jeangirard, Director.
Gréasque, du Rhone	29.08	738.7	30.17	766.3	77.0	25	25	n.			1		0			0	0		M. Kina, Director.
Grenoble, Normal School	29.52	749.7	30.27	768.8	68.4	20.2	47	s.			1		0			0	0	clear	M. Ablard, Director.
Guéret, Normal School	28.68	728.4	30.25	768.4	67.3	19.6	57	e.			1		0			0	0	clear	M. Rivoire, Director.
Lamballe, Normal School	30.02	762.5	30.29	769.3	67.3	19.6	64	ne.			2		8		ne.	0	0	very cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.60	751.9	30.15	765.8	78.8	26	32	ese.			1	0	0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.21	767.3	30.31	769.9	74.3	23.5	55	ese.			1		5		e.	0	0	½ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.24	742.6	30.28	769.1	66.4	19.1	46	ne.			1	0	0			0	0	clear	M. André, Director.
Mans, Normal School	29.87	758.6	30.17	766.4	65.3	18.5	63	ne.			1		5		e.	0	0	cloudy	M. Piboen, Director.
Marseille, Observatory	29.93	760.1	30.19	766.9	69.1	20.6	62	w.			1		0			0	0		M. Stephan, Director.
Montlouis l'instituteur	25.04	636.1	29.89	759.1	59.0	15.0	50	se.	16.8	7.5			0			0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	30.10	764.5	30.22	767.7	77.7	25.4	37	ene.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.56	750.8	30.34	770.6	64.4	18	47	nw.			1		0			0	0		M. Hasse, Director
Nantes, Observatory	30.15	765.8	30.31	769.9	72.9	22.7	54	ene.			1–2	0	5 k		ese.	0	0		M. Larocque, Director.
Perpignan, Observatory	30.12	765.0	30.22	767.7	72.3	22.4	30	se.	5.6	2.5			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.52	546.5			46.4	8.0		s.			1		1		w.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.21	742.0	30.25	768.3	74.8	23.8	33						0			0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.42	645.6			51.4	10.8	65	ese.			3		0			0	0	clear	M. Allnard, Director.
Rochefort, Naval Obs'y	30.21	767.2	30.24	768.0	72.3	22.4	100	ene.			4		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.03	762.8	30.24	768.1	72.9	22.7	55	e.			3		0			0	0	clear	M. Mouillot, Director.
Rodez, Normal School	28.10	713.8	30.17	766.3	76.6	24.8	36	e.			1		0			0	0	clear	M. Serger, Director.
Rouen, Normal School	30.27	768.8	30.32	770.0	65.8	18.8	62	sw.			1		10		sw.	0	0	covered	M. Brotier.
Saint Maur, Observatory	30.17	766.2	30.33	770.4	67.3	19.6	50	ene.			1		1		e.	0	0		M. Renou, Director.
Toulouse, Observatory	29.52	749.7	30.24	768.2	78.8	26.0	40	se.			1		1	w.		0	0	clear	M. Baillaud, Director.
Tours	30.10	764.4	30.27	768.9	70.2	21.2	55	ene.			1		0			0	0	clear	
Versailles, Observatory	29.84	757.8	30.33	770.4	66.9	19.4	46	se.			2					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	30.06	763.5	30.35	770.9	67.1	19.5	56	e.			1		1		e.	0	0		M. Marié Davy, Director
GERMAN.																			
Bamberg																			Prof. Dr. Hoh.
Berlin	30.12	765.0	30.30	769.5	55.4	13.0	53	nw.			4		8			0.110	2.8		Prof. Dr. Arndt.
Breslau	29.74	755.5	30.28	769.1	48.9	9.4	82	wnw.			2		10			0.181	4.6	raining	Royal University Obs'y.
Carlsruhe	29.91	759.7	30.35	770.9	60.4	15.8	55	ne.			1		0			0	0		Albert Senz.
Cassel	29.58	751.3	30.29	769.4	61.3	16.3	55	se.			2		2	n.		0.028	0.7		Dr. H. Möhl.
Frankfort-on-the-Main	29.98	761.6	30.35	770.9	59.4	15.2	33	nnw.			1		1			0	0		Physical Society.
Friedrichshafen	28.89	733.8	30.33	770.3	59.7	15.4	65	sw.			3		1	w.		0	0		Wilhelm, Chief Tel.
Hamburg	30.25	768.4	30.35	770.8	55.9	13.3	62	wsw.			4		4			0.004	0.1		E. Preller.
Kiel	30.28	769.0	30.29	769.4	53.2	11.8	54	wnw.			3		1			0.008	0.2		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.93	760.3	30.30	771.1	54.3	12.4	53	nw.			3		8	nw.		0.094	2.4		H. Leppig, Asst.
Magdeburg	30.15	765.8	30.34	770.7	56.8	13.8	56	wnw.			2	c	5 k	w.	wnw.	0.098	2.5		Dr. Assmann.
Memel	30.14	765.6	30.19	766.8	43.5	6.4	72	nw.			4	0	2 ks						Issermann.
Munich	28.50	724.0	30.39	771.9	59.9	15.5	42	nw.			1		4	w.		0	0		Central Station.
Neufahrwasser	30.19	766.9	30.21	767.3	47.7	8.7	87	nne.			3		10	nnw.		0.016	0.4	light rain	A. Lothes.
Neustadt, Palatinate	29.81	757.1	30.34	770.7	59.9	15.5	60	e.			1		2			0	0		Dicknether.
Stuttgart	29.39	746.4	30.28	769.1	59.9	15.5	63	n.					3	w.		0	0		Prof. Dr. Schoder.
Wustrow	30.30	769.5	30.32	770.1	51.6	10.9	76	wsw.			4	0	5 s			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.37	746.1			72.5	22.5		ne.			3.0		8			0.004	0.1	covered	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.71	754.5	29.76	755.8	85.9	29.9	80	wsw.	40.0	17.9			4		w.	0	0	misty	
Deesa	29.20	741.8	29.65	753.2	105.4	40.8	26	wsw.	11.8	5.3			0			0	0	blue sky	
Bombay	29.78	756.4	29.82	757.4	86.1	30.1	75	wnw.	15.0	6.7			2		wnw.	0	0	d. clouds	
Poona, Yarrowda	27.92	709.2	29.73	755.0	92.3	33.5	37	w.	28.0	12.5			3	w.	w.	0	0	d. clouds	
Bellary	28.24	717.2	29.64	752.8	102.2	39.0	14	w.	7.2	3.2			7	w.		0	0	d. clouds	
Belgaum	27.28	692.9	29.79	756.6	81.7	27.6	66	sw.	10.0	4.5			4	ne.	ne.	0	0	misty	
Lahore	28.94	735.0	29.65	753.1	99.2	37.3	22	se.	3.5	1.6			0			0	0	hazy	
Roorkee	28.87	733.3	29.76	755.9	85.8	29.9	47	sw.	6.5	2.9			3			0	0		
Agra	29.10	739.0	29.64	753.0	92.2	33.4	37	se.	9.1	4.1			0			0	0		
Nagpur	28.65	727.6	29.64	753.0	101.7	38.7	21	calm	5.3	2.4			7		w.	0	0	d. clouds	
Jubbulpore	28.39	721.0	29.70	754.4	94.3	34.6	20	nw.	4.2	1.9			1			0	0	blue sky	
Lucknow	29.43	747.4	29.80	757.0	82.2	27.9	60	ene.	4.0	1.8			2	e.		0	0	d. clouds	
Allahabad	29.44	747.9	29.75	755.7	88.7	31.5	45	e.	5.1	2.3			0			0	0	blue sky	
Patna	29.66	753.4	29.85	758.2	75.5	24.2	72	e.	6.0	2.7			5	e.	e.	0.73	18.5	d. clouds	
Hazaribagh	27.76	705.1	29.76	755.9	79.8	26.6	50	s.	8.6	3.8			10			0.24	6.1	thund'rst'm	
Cuttack	29.72	755.0	29.81	757.1	84.5	29.2	62	se.	1.0	0.4			3			0	0	d. clouds	
Calcutta, Alipore	29.79	756.6	29.81	757.2	81.8	27.7	69	s.	1.0	0.4			9	s.		0.22	5.6	gloomy	
Dhubri	29.71	754.6	29.83	757.6	82.8	28.2	69	e.	7.1	3.2			10			0	0	overcast	
Chittagong	29.75	755.6	29.84	758.0	77.7	25.4	78	calm	1.8	0.8			7			0	0	d. clouds	
Sibsagar	29.48	748.8	29.81	757.3	83.0	28.3	65	ene.	1.3	0.6			6	w.	w.	0	0	d. clouds	
Jeypore	28.24	717.4	29.62	752.4	101.6	38.7	22	nw.	5.1	2.3			0			0	0		
Zanzibar, Africa	29.95	760.7			80.2	26.8	80	s.	6.9	3.1			8		sse.	1.56	39.6	d. clouds	
ITALIAN.																			
Udine	29.84	758.0	30.25	768.3	64.6	18.1	59	nw.	1.3	0.6			0			0	0		Prof. Giovanni Clodig.
Milan	29.72	754.8	30.23	767.8	70.2	21.2	39	ese.	4.3	1.9			0			0	0		Prof. Schiaparelli.
Padua	30.13	765.3	30.24	768.1	66.2	19.0	45	s.	4.9	2.2			1			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.30	744.2	30.20	767.0	70.5	21.4	41	se.	2.5	1.1			0			0	0		Prof. P. F. Denza.
Genoa	30.05	763.3	30.24	768.2	65.5	18.6	64	sw.	5.6	2.5			0			0	0		Prof. G. M. Garibaldi.
Moncalvi	28.31	719.0	30.24	768.0	66.0	18.9	52	w.			2		0			0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	30.21	767.4	30.26	768.6	61.2	16.2	45	ne.	11.2	5.0			1	sw.		0	0		Prof. Luigi Guidi.
Florence	29.96	760.9	30.21	767.3	69.8	21.0	36	w.			2		0			0	0		Prof. Costantino Pitter.
Leghorn	30.08	764.1	30.17	766.3	67.6	19.8	59	wsw.	0.7	0.3			0			0	0		Prof. P. Monte.
Rome	29.96	760.9	30.13	765.3	74.8	23.8	21	n.	16.1	7.2			0			0	0		Prof. P. S. Ferrari.
Lecce	29.71	754.7	29.96	761.0	64.4	18.0	39	nw.	42.3	18.9			0			0.114	2.9		Prof. C. de Giorgi.
Cosenza	29.14	740.1	30.01	762.3	64.4	18.0	75	nnw.	8.1	3.6			0			0	0		Prof. D. Conti.
Cagliari	29.97	761.3	30.16	766.1	67.1	19.5	57	se.			4		0			0	0		Prof. A. Pacinotti.
Palermo	29.89	759.3	30.14	765.6	66.2	19.0	37	ne.	6.9	3.1			0			0	0		Prof. G. Giacciatore.
Syracuse	29.94	760.5	29.98	761.6	66.9	19.4	35	ne.	8.7	3.9			3	wnw.		0	0		Prof. Vincenzo Gulliano.
Sub-series.																			
Naples, S. R	29.59	751.5	30.10	764.5	67.3	19.6	34	ne.	15.4	6.9			0			0	0		Prof. T. Brioschi.
Stelvio	22.38	568.5			40.1	4.5	31	e.			2		0			0	0	clear	Prof. P. F. Denza.
Valdobbia	22.46	570.6			47.1	8.4	57	e.			2		0			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.80	756.9	29.84	757.9	50.2	10.1	90	w.	6.2	2.8			10ks;s			0.296	7.5	gloomy	K. Ogawa.
Hakodate	29.80	756.9	29.82	757.4	46.5	8.1	93	e.	3.6	1.6			10			0	0	covered	
Hiroshima, I. M. Obs'y	29.96	761.0	29.98	761.5	61.3	16.3	64	nne.	8.0	3.6		0	0			0	0	clear	J. Sogawa.
Kanazawa	29.91	759.7	30.02	762.5	55.1	12.8	92	w.	4.2	1.9		1 ck	0			0	0	fair	S. Endo.
Kioto	29.84	757.9	30.01	762.2	59.5	15.3	65	nw.	2.8	1.3		0	0			inap.	inap.	clear	M. Tojima.
Kochi	29.97	761.2	29.99	761.7	66.9	19.4	55	w.	4.4	2.0		0	0			0	0	clear	K. Kusunose.
Nagasaki, I. M. Obs'y	29.84	757.9	30.04	763.0	62.5	16.9	85	s.	0.5	0.2		0	1 s			0	0	clear	S. Takehayashi.
Niigata	29.92	759.9	29.95	760.7	51.4	10.8	93	sw.	1.3	0.6		ck	4 s		n.	0.020	0.5	fair	M. Morita.
Nobiru	29.81	757.2	29.82	757.4	54.9	12.7	68	nw.	17.8	8.0		0	9 s			0.115	2.9	cloudy	H. Midzushina.
Sapporo					45.1	7.3	89	calm	0	0			0			0.110	2.8	clear	
Tokei Obs'y, Yeddo	29.78	756.4	29.85	758.2	59.9	15.5	85	n.	4.9	2.2		0	0			0	0	clear	The Staff.
Wakayama	29.94	760.5	29.99	761.7	66.4	19.1	56	nw.	2.6	1.2		0	0			0	0	clear	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.96	761.0	30.15	765.8	78.3	25.7	62	ese.	13.0	5.8		2ck;cs	2 k;ks	ne.	ese.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.65	600.7	29.87	758.7	63.3	17.4	76	ene.	6.9	3.2		0	1 ks		ne.	0	0	foggy	Prof. Vicente Fernandez.
Leon	24.33	618.0	29.99	761.7	59.4	15.2	70	n.			1	0	0			0	0	dense fog	Prof. M. Leal.
Mazatlan	29.64	752.8	29.90	759.3	69.0	20.6	97	ne.	0.9	0.4		c	9 n		w.			very cloudy	F. Quijano, C. E.
Mexico, Central Obs'y	23.11	587.0	30.10	764.5	58.3	14.6	63	calm	0	0		0	0			0	0	foggy	The Staff.
Morelia	24.19	614.5	30.25	768.3	61.2	16.2	82	se.			2	4	4	s.	se.			cloudy	M. Tena, M. D.
Pabellon, Aguascalientes	23.96	608.6	29.87	758.8	64.9	18.3	72	nne.			1	0	0			0	0	foggy	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.36	593.3	30.06	763.4	56.3	13.5	75	calm	0	0		0	0			0.063	1.6	clear	Prof. P. Spina.
San Luis Potosi	24.20	614.6	30.06	763.4	66.0	18.9	66	e.			1	0	3		w.	0	0	foggy	G. Barroeta, M. D.
Zacatecas	22.52	572.1	30.08	764.1	55.9	13.3	89	e.	6.7	3.4		0	0			0	0	foggy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.35	770.9	30.35	770.9	64.0	17.8		se.			2					0	0		
Groningen	30.27	768.9	30.33	770.3	56.1	13.4		sw.			1					0	0		
Helder	30.32	770.1	30.32	770.1	52.7	11.5		ssw.			3					0	0		
Hellevoetsluis	30.34	770.7	30.34	770.7	64.6	18.1	63	sse.			1					0	0		
Utrecht	30.31	769.9	30.36	771.1	59.4	15.2	55	sw.			1		8			0	0	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.91	759.6	29.97	761.2	42.8	6.0	66	sw.	20	9			8			0.331	8.4		
Brono	29.73	755.1	29.77	756.1	46.8	8.2	70	sw.	9	4			10			0	0		
Christiania	29.78	756.4	29.93	760.1	53.8	12.1	60	ssw.	11	5			10			0	0		
Gjæsvær	29.89	759.3	29.92	759.9	47.3	8.5		ese.			4		0						
Lodingen	29.77	756.2	29.82	757.4	48.7	9.3	51	ne.			2		1			0	0		
PORTUGUESE.																			
Angra, Azores					64.2	17.9	74	ene.	4.9	2.2			2			0	0		Dr. J. A. Sampaio.
Campo Major	29.04	737.6	30.00	762.1	77.2	25.1	23	ese.	6.3	2.8			4			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	29.88	758.9	29.97	761.1	68.0	20.0	55	w.					4			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.70	754.3	30.05	763.2	71.8	22.1	43	ese.	19.9	8.9			1			0	0		The Staff.
Ponta Delgada, Azores	30.09	764.2	30.16	766.0	64.4	18.0	56	ne.	10.5	4.7			4			0	0		
Saint Paul de Loando	29.66	753.3	29.86	758.5	81.1	27.3	85	nw.	0.7	0.3			3	sw.		0	0	foggy	
Serra da Estrella	25.36	644.2	29.99	761.8	59.5	15.3	28	s.	43.4	19.4			4			0	0		
RUSSIAN.																			
Akmolinski	28.80	731.6	29.84	758.0	66.9	19.4	22	calm	0	0		0	0			0	0		Major K. Lasarew.
Archangel	30.20	767.1	30.22	767.6	36.1	2.3	80	ne.	4	2		0	6 ks			0	0		Capt. Sseliwerstow.
Astrakhan	29.97	761.3	29.89	759.2	76.5	24.7	44	s.	11	5		0	5 k			blank	blank		Capt. Wisganow.
Barnaul	29.50	749.2	29.99	761.8	53.6	12.0	40	w.	4	2			8			0	0	light clouds	Meteorological Obs'y.
Dorpat	29.77	756.1	30.02	762.4	44.2	6.8	57	nnw.	9	4			10 n					light rain	Observatory.
Ekaterinburg	29.02	737.2	30.02	762.5	32.9	0.5	96	e.	4	2			10 n			0.280	7.1	raining	Meteorological Obs'y.
Kasan	29.53	750.0	29.80	756.9	51.4	10.8	79	n.	13	6			10			0.020	0.5		Observatory.
Kertch	29.78	756.4	29.80	756.9	63.9	17.7	73	sse.	9	4		0	0			0	0		Lagorio & Sastyrez.
Kieff	29.28	743.7	29.92	759.9	49.8	9.9	46	wnw.	20	9			10ks;n			0	0		Observatory.
Lugan	29.56	750.7	29.75	755.7	79.9	26.6	25	ssw.	4	2			8			0	0		Meteorological Obs'y
Moscow	29.22	742.3	29.69	754.2	54.0	12.2	71	s.	7.8	3.5			10 s						Meteorological Obs'y.
Nikolaiev	29.89	759.1	29.96	760.9	57.4	14.1	59	nnw.	31	14			10 n			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.61	752.2	29.70	754.4	34.9	1.6	93	e.	9	4			3			0	0		Lieut. Iwanow.
Pekin, China	29.58	751.4	29.72	755.0	80.4	26.9	15	nw.	4	2		0	0			0	0		Physical Observatory
St. Petersburg	29.98	761.6	30.00	762.0	41.9	5.5	39	ne.	11	5			10 kn			0.110	2.8		Central Physical Obs'y.
Semipalatinsk	29.32	744.7	29.95	760.8	68.2	20.1	29	calm	0	0		0	0			0	0		Major Lasareu.
Tashkend, Laboratory	28.26	717.8	29.76	756.0	73.4	23.0	58	se.	2	1			10			0	0	heavy cl'ds.	Teich, A. M.
Tiflis	28.48	723.5	29.84	757.9	75.4	24.1	44	se.	2	1		0	1 k			0.028	0.7		Physical Observatory
Vladivostock	29.74	755.4	29.81	757.1	49.3	9.6	86	sw.	2	1		0	1 k			0.043	1.1		
Warsaw	29.74	755.3	30.17	766.2	51.6	10.9	35	nnw.	16	7			9 ks						Astronomical Obs'y.
Wilna	29.61	752.1	30.04	763.0	43.7	6.5	63	nw.	7	3			10			0	0	heavy cl'ds.	Berg, Assistant.
Yeniseisk	29.61	752.1	29.91	759.6	37.0	2.8	66	wsw.	11	5			9			0.008	0.2	snow & sleet	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	30.10	764.6	30.21	767.2	73.8	23.2	46	se.	4.0	1.8			0			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.11	764.8	30.17	766.3	88.0	31.1	34	s.	2.2	1.0		0	0			0	0	clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.21	691.2	30.06	763.6	75.2	24.0	47	ne.	6.9	3.1			0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.92	709.2	30.05	763.2	80.1	26.7	29	e.	8.7	3.9		0	7			0	0	cloudy	The Staff.
Murcia, Met. Obs'y	29.99	761.8	30.14	765.6	72.7	22.6	44	e.	6.3	2.8		0	4			0	0	clouds	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.11	739.4	29.96	761.0	83.8	28.8	42	calm	0	0			1			0	0	almost clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	29.90	759.5	29.96	761.2	80.0	26.7	80	sw.	0.9	0.4		ck	k		s.	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.91	759.6	29.96	761.0	84.2	29.0	75	se.	2.2	1.0		0	1 ks			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.01	762.3	30.11	764.8	70.9	21.6	46	se.	15.7	7.0		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.02	762.6	30.11	764.9	80.6	27.0	78	calm	0	0		3 cs	2 k	e.	e.	0	0		Manuel Maese.
Tuguegarao, Philippine Id's	29.82	757.4	29.95	760.7	86.3	30.3	65	ssw.	1.1	0.5		0	3 k		sw.	0	0	fair	José L. Yrastorza.
SWEDISH.																			
Haparanda	30.06	763.5	30.10	764.5	42.1	5.6	73	s.			2		8			0	0		
Umea	29.98	761.6	30.04	762.9	45.7	7.6	51	ssw.			4		3			0.047	1.2		
Hernosand	29.92	759.9	29.97	761.2	45.0	7.2	42	s.			4		5			0	0		
Stockholm	29.87	758.8	30.05	763.3	51.4	10.8	56	sw.			2		8			0	0		
Wisby	30.03	762.8	30.09	764.3	46.8	8.2	65	w.			4		0			0	0		
Sub-series.																			
Upsala	29.89	759.2	29.98	761.4	54.3	12.4	63	sw.	11.0	4.9			6			0	0		S. G. Fineman.
SWISS.																			
Geneva	28.87	733.2	30.28	769.0	62.4	16.9	47	n.			2					0	0	clear	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
TURKISH.																			
Constantinople			29.88	758.9	54.3	12.4	79	n.	22	10.0			10		n.	0.220	5.6		The Observatory.
Valona			29.98	761.5	70.3	21.3		w.			4		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.79	756.7	76.1	24.5	71	ene.			1	8 c	0	sw.		0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.96	761.0	30.04	763.0	48.2	9.0	63	se.	16	7.2			10 n		s.	0.15	3.8	light rain	J. O. Barnes.
Alpena, Michigan	29.25	742.9	29.91	759.7	39	3.9	89	e.	22	9.8			10 n			1.90	48.3	light rain	Jas. J. Fitzgerald.
Atlanta, Georgia	28.60	726.4	29.77	756.1	66.5	19.2	90	sw.	8	3.6			10 s		calm	0.02	0.5	cloudy	H. Hall.
Atlantic City, New Jersey	29.81	757.2	29.82	757.4	48	8.9	96	e.	25	11.2			10 s			0.07	1.8	cloudy	Jas. M. Watson.
Augusta, Georgia	29.64	752.8	29.84	757.9	70	21.1	78	s.	1	0.4			10 n		sw.	0.05	1.3	light rain	John Healy.
Baltimore, Maryland	29.76	755.9	29.81	757.2	54	12.2	93	e.	6	2.7			10n; fog			0.09	2.3	light rain	Robert Seyboth.
Barnegat, New Jersey	29.86	758.4	29.88	758.9	47.0	8.3	96	e.	27	12.1			10 n		e.	0.21	5.3	light rain	Chas. F. Merritt.
Bismarck, Dakota	28.35	720.1	30.13	765.3	41	5.0	82	ne.	4	1.8		0	0			0.19	4.8	clear	Cyrus Cramer.
Boise City, Idaho	27.14	689.3	29.98	761.5	51	10.6	66	n.	4	1.8		2 cs	0	calm		0	0	clear	B. E. Light.
Boston, Massachusetts	29.97	761.2	30.13	765.3	40.5	4.7	77	ne.	24	10.7			10 s		ne.	0	0	threatening	O. B. Cole.
Brownsville, Texas	29.88	758.9	29.92	760.0	76	24.4	97	n.	4	1.8		0	9 s		n.	0	0	cloudy	M. McCarty.
Buffalo, New York	28.91	734.3	29.55	753.1	43.4	6.3	97	n.	7	3.1			10 n			1.48	37.6	light rain	Wm. Finn.
Burlington, Vermont	29.78	756.4	30.07	763.8	44.0	6.7	83	se.	5	2.2			10 n		se.	0.14	3.6	light rain	G. C. Schaeffer.
Cairo, Illinois	29.32	744.7	29.72	754.9	61.6	16.4	89	calm	0	0			10 s		sw.	0.26	6.6	threatening	W. H. Ray.
Campo, California	27.39	695.7	29.92	760.0	37.2	2.9	72	ne.	4	1.8		2 c	0	s.		0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.23	691.6	29.90	759.4	48.5	9.2	72	se.			1	0	0			0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	29.73	755.1	29.75	755.6	65	18.3	90	w.	4	1.8		4 k	5 s; fg	w.		0.48	12.2	cloudy	J. E. Lanouette.
Cape May, New Jersey	29.76	755.9	29.79	756.7	51	10.6	93	e.	6	2.7			fg.			0.09	2.3	dense fog	W. Bolton.
Cedar Keys, Florida	29.87	758.7	29.89	759.2	79	26.1	82	s.	23	10.3		8 cs	2 k		s.	0	0	cloudy	F. W. Mixer.
Champaign, Illinois	28.81	731.8	29.61	752.1	57.8	14.3	80	sw.	4	1.8			10 s		sw.	inap.	inap.	cloudy	L. A. Welsh.
Charleston, S. Carolina	29.78	756.4	29.83	757.7	77	25.0	85	sw.	8	3.6		5 ck	0	w.		0.03	0.8	fair	J. H. Smith.
Charlotte, N. Carolina	28.89	733.8	29.73	755.1	66.0	18.9	90	sw.	4	1.8			10 s		w.	0.04	1.0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	28.91	734.3	29.72	754.9	64.0	17.8	78	sw.	2	0.9		3 k	2 s	sw.		1.45	36.8	fair	B. L. Goulding.
Cheyenne, Wyoming	24.10	612.1	29.97	761.2	36.2	2.3	53	w.	8	3.6		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	28.96	735.6	29.66	753.4	44.4	6.9	95	ne.	10	4.5			fg.			0.71	18.0	dense fog	J. Mitchell.
Chincoteague, Virginia	29.74	755.4	29.76	755.9	54	12.2	100	e.	5	2.2			fg.			0.42	10.7	dense fog	V. P. Temple.
Cincinnati, Ohio	29.04	737.6	29.69	754.1	62.3	16.8	77	s.	5	2.2			10 s		sw.	0.22	5.6	cloudy	R. B. Watkins.
Cleveland, Ohio	28.94	735.1	29.67	753.6	46.2	7.9	95	ne.	5	2.2			10 s			0.31	7.9	threatening	J. B. Newlin.
Coleman City, Texas	28.21	716.5	30.00	762.0	54	12.2	57	nw.	5	2.2		0	0			0	0	clear	L. Dorman.
Columbus, Ohio	28.82	732.0	29.66	753.4	59	15.0	75	sw.	4	1.8		8 ck	1 s	w.		0.35	8.9	cloudy	D. Cuthbertson.
Concho, Texas	28.12	714.2	30.02	762.5	49	9.4	88	nw.	4	1.8		0	0			0	0	clear	W. W. McConihe.
Davenport, Iowa	29.00	736.6	29.64	752.8	49	9.4	86	ne.	10	4.5			10 n		ne.	inap.	inap.	light rain	R. R. Martin.
Dayton, Washington T'y	28.40	721.3	30.15	765.8	41.6	5.3	77	sw.	5	2.2			10 s		sw.	0.32	8.1	cloudy	H. Clifford.
Deadwood, Dakota	25.45	646.4	29.96	761.0	39	3.9	100	n.	2	0.9			10 s			0.61	15.5	cloudy	G. W. Scott.
Decatur, Texas					56	13.3	62	nw.	4	1.8		0	0			0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	29.75	755.6	29.77	756.1	51	10.6	100	ne.	18	8.0			fg.			0.10	2.5	dense fog	A. Schneider.
Denison, Texas	29.10	739.1	29.89	759.2	57.0	13.9	69	w.	7	3.1		0	0			0	0	clear	J. McGlone.
Denver, Colorado	24.83	630.7	29.99	761.7	40.0	4.4	67	s.	6	2.7		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	28.79	731.3	29.68	753.9	46	7.8	93	ne.	18	8.0			10 n		ne.	0.04	1.0	light rain	F. W. Conrad.
Detroit, Michigan	29.02	737.1	29.72	754.9	42.5	5.8	93	ne.	8	3.6			10 s		ne.	0.61	15.5	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.37	695.2	29.92	760.0	45	7.2	76	nw.	20	8.9		0	0			0	0	clear	E. A. Thomas.
Dubuque, Iowa	28.97	735.8	29.67	753.6	44.2	6.8	83	ne.	11	4.9			10 s		calm	0.02	0.5	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.41	747.0	30.11	764.8	38	3.3	72	ne.	17	7.6		0	0			0.02	0.5	clear	N. B. Conger.
Eagle Pass, Texas	29.28	743.7	30.08	764.0	62.0	16.7	56	calm	0	0		0	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.38	644.6	30.06	763.5	35	1.7	69	sw.	6	2.7		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	30.11	764.8	30.18	766.6	40	4.4	61	ne.	15	6.7		10 cs	0			0	0	cloudy	J. H. Melton.
El Paso, Texas	26.30	668.0	29.94	760.5	45	7.2	49	n.	1	0.4		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	28.98	736.1	29.70	754.4	44	6.7	93	ne.	7	3.1			10 s			0.79	20.1	cloudy	R. H. Paxton.
Escanaba, Michigan	29.27	743.4	29.93	760.2	41	5.0	82	n.	13	5.8			10 s		n.	0.93	23.6	cloudy	C. Dill.
Fort Apache, Arizona	25.09	637.3	29.91	759.7	38	3.3	59	ne.	4	1.8		0	0			0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.17	690.1	30.01	762.2	42	5.6	76	ne.	4	1.8		0	0			0	0	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.44	722.4	30.00	762.0	40.0	4.4	92	ne.	7	3.1		4 k	4 s	calm	calm	0.15	3.8	cloudy	A. Pritchard.
Fort Benton, Montana	27.20	690.9	29.99	761.7	46	7.8	71	e.	2	0.9		0	0			0	0	clear	G. W. Davis.
Fort Buford, Dakota	28.18	715.8	30.16	766.1	45	7.2	86	ne.	5	2.2			10 s		calm	0.10	2.5	cloudy	A. H. Bell.
Fort Custer, Montana	26.94	684.3	30.04	763.0	38	3.3	92	e.	3	1.3		0	0			0	0	clear	V. Verge.
Fort Davis, Texas	25.18	639.6	29.90	759.4	47	8.3	61	sw.	2	0.9		0	0			0	0	clear	J. Williams.
Fort Elliott, Texas	27.22	691.4	29.92	760.0	44	6.7	68	calm	0	0		0	0			0.10	2.5	clear	W. J. Cundall.
Fort Gibson, Indian T'y	29.26	743.2	29.82	757.4	60.2	15.7	76	w.	7	3.1		0	0			0.04	1.0	clear	J. B. Campbell.
Fort Grant, Arizona	25.27	641.8	29.88	758.9	55	12.8	20	se.	6	2.7		0	0			0	0	clear	T. J. Macgowan.
Fort Keogh, Montana	27.62	701.5	30.07	763.8	43	6.1	92	ne.	2	0.9		10 cs	0			0	0	cloudy	W. B. Stockman.
Fort Macon, North Carolina	29.79	756.7	29.80	756.9	69	20.6	93	sw.	11	4.9		10 cs	hz.	calm	calm	0.12	3.0	cloudy	L. Leonardy.
Fort McKavett, Texas	27.69	703.3	29.93	760.2	54	12.2	74	sw.	4	1.8		0	0			0	0	clear	J. E. Thatcher.
Fort Missoula, Montana	26.70	678.2	30.00	762.0	39	3.9	82	sw.	1	0.4		0	0			0	0	clear	J. H. Jones.
Fort St. Michaels, Alaska	30.35	770.9	30.38	771.6	34	1.1	100	s.	16	7.2			10 n			0.07	1.8	light rain	A. P. Leavitt.
Fort Shaw, Montana	26.34	669.0	29.94	760.5	36	2.2	82	s.	6	2.7		0	0			0	0	clear	A. L. Mathews.
Fort Sill, Indian Territory	28.73	729.7	29.95	760.7	56.5	13.6	50	nw.	14	6.3		0	0			0	0	clear	T. Cleary.
Fort Stevenson, Dakota	28.32	719.3	30.16	766.1	39	3.9	82	ne.	2	0.9		0	0			0.15	3.8	clear	W. Burrows.
Fort Verde, Arizona					48	8.9	46	n.			1	0	0			0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.58	624.3			36.3	2.4	78	s.	7	3.1		0	0			0	0	clear	T. M. Ambler.
Fredericksburg, Texas																			H. S. Miles.
Galveston, Texas	29.89	759.2	29.94	760.5	71	21.7	53	n.	22	9.8		0	0			0.01	0.3	clear	E. O'C. MacInerney.
Grand Haven, Michigan	29.05	737.9	29.71	754.6	43.0	6.1	88	ne.	18	8.0			10 s		ne.	1.45	36.8	cloudy	W. A. Reid.
Hatteras, North Carolina	29.79	756.7	29.81	757.2	68	20.0	93	sw.	15	6.7		9 k	0	sw.		0.20	5.1	cloudy	R. M. Crawford.
Helena, Montana	25.81	655.6	29.98	761.5	42	5.6	68	s.	3	1.3		0	0			0	0	clear	S. Wheaton.
Henrietta, Texas	29.00	736.6	29.98	761.5	51.0	10.6	80	w.	6	2.7		0	0			0.02	0.5	clear	J. W. Byram.
Huron, Dakota	28.64	727.4	29.99	761.7	40	4.4	82	n.	13	5.8		0	1 s			0.33	8.4	clear	S. W. Glenn.
Indianapolis, Indiana	28.86	733.0	29.65	753.1	60	15.6	70	sw.	3	1.3		6 k	hz.	sw.	calm	0.03	0.8	fair	O. Schutze
Indianola, Texas	29.95	760.7	29.98	761.5	71.4	21.9	57	n.	17	7.6		0	0			0	0	clear	I. A. Reed.
Jacksboro, Texas	28.83	732.3	29.98	761.5	54	12.2	74	w.	7	3.1		0	0			0	0	clear	J. P. Sherry.
Jacksonville, Florida	29.84	757.9	29.88	758.9	80	26.7	79	sw.	12	5.4			10 s		sw	0.19	4.8	cloudy	J. W. Smith.
Keokuk, Iowa	28.95	735.3	29.60	751.8	58.0	14.4	72	sw.	3	1.3			10 s		sw.	0	0	cloudy	F. Z. Gosewisch
Key West, Florida	29.92	760.0	29.94	760.5	80.0	26.7	82	s.	7	3.1			9 s		s.	0	0	cloudy	L. M. Melbourne.
Kittyhawk, North Carolina	29.77	756.1	29.79	756.7	68	20.0	93	sw.	12	5.4		2 ck	5 s	w.	w.	0.98	24.9	fair	E. A. Beals.
Knoxville, Tennessee	28.74	730.0	29.76	755.9	61.2	16.2	100	se.	2	0.9			10 n			0.70	17.8	light rain	J. A. Cody.
La Crosse, Wisconsin	29.02	737.1	29.78	756.4	40	4.4	82	ne.	15	6.7			10 n			0.10	2.5	light rain	S. C. Emery.
La Mesilla, New Mexico	26.14	663.9	29.90	759.4	43.0	6.1	43	calm	0	0			0			0	0	clear	N. D. Lane.
Leavenworth, Kansas	28.82	732.0	29.70	754.4	53	11.7	93	nw.	7	3.1			10 n		nw.	0.03	0.8	light rain	A. W. Browne.
Lewiston, Idaho	29.32	744.7	30.16	766.1	51	10.6	38	ne.	10	4.5			10 s		ne.	0.01	0.3	cloudy	J. M. Burlew.
Little Rock, Arkansas	29.43	747.5	29.74	755.4	60	15.6	93	w.	4	1.8		0	6 s		w.	0.66	16.8	fair	W. U. Simmons.
Los Angeles, California	29.62	752.3	30.02	762.5	46.0	7.8	93	n.	1	0.4		0	fg.		calm	0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.09	738.9	29.64	752.8	62	16.7	84	sw.	1	0.4			10s; fg			inap.	inap.	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.04	737.6	29.72	754.9	65.0	18.3	84	calm	0	0		2 cs	0	6.		0.37	9.4	clear	W. R. Bushby.
Madison, Wisconsin	28.73	729.7	29.73	755.1	40	4.4	89	ne.	15	6.7			10 n		calm	0.81	20.6	light rain	C. A. Shaw.
Marquette, Michigan	29.30	744.2	30.02	762.5	38	3.3	72	ne.	22	9.8			10 s		ne.	0.21	5.3	cloudy	J. Gilligan.
Memphis, Tennessee	29.40	746.7	29.73	755.1	62	16.7	87	w.	4	1.8		hz.	4 s		w.	0.50	12.7	fair	D. T. Flannery.
Milwaukee, Wisconsin	28.98	736.1	29.72	754.9	39	3.9	89	ne.	18	8.0			10s; fg		ne.	0.68	17.3	cloudy	W. Line.
Mobile, Alabama	29.78	756.4	29.82	757.4	69	20.6	92	ne.	3	1.3		0	9 s		w.	2.36	59.9	cloudy	J. D. Paxton.
Montgomery, Alabama	29.53	750.0	29.76	755.9	69	20.6	90	sw.	5	2.2		0	5 s		w.	0.21	5.3	clearing	J. B. McLaughlin.

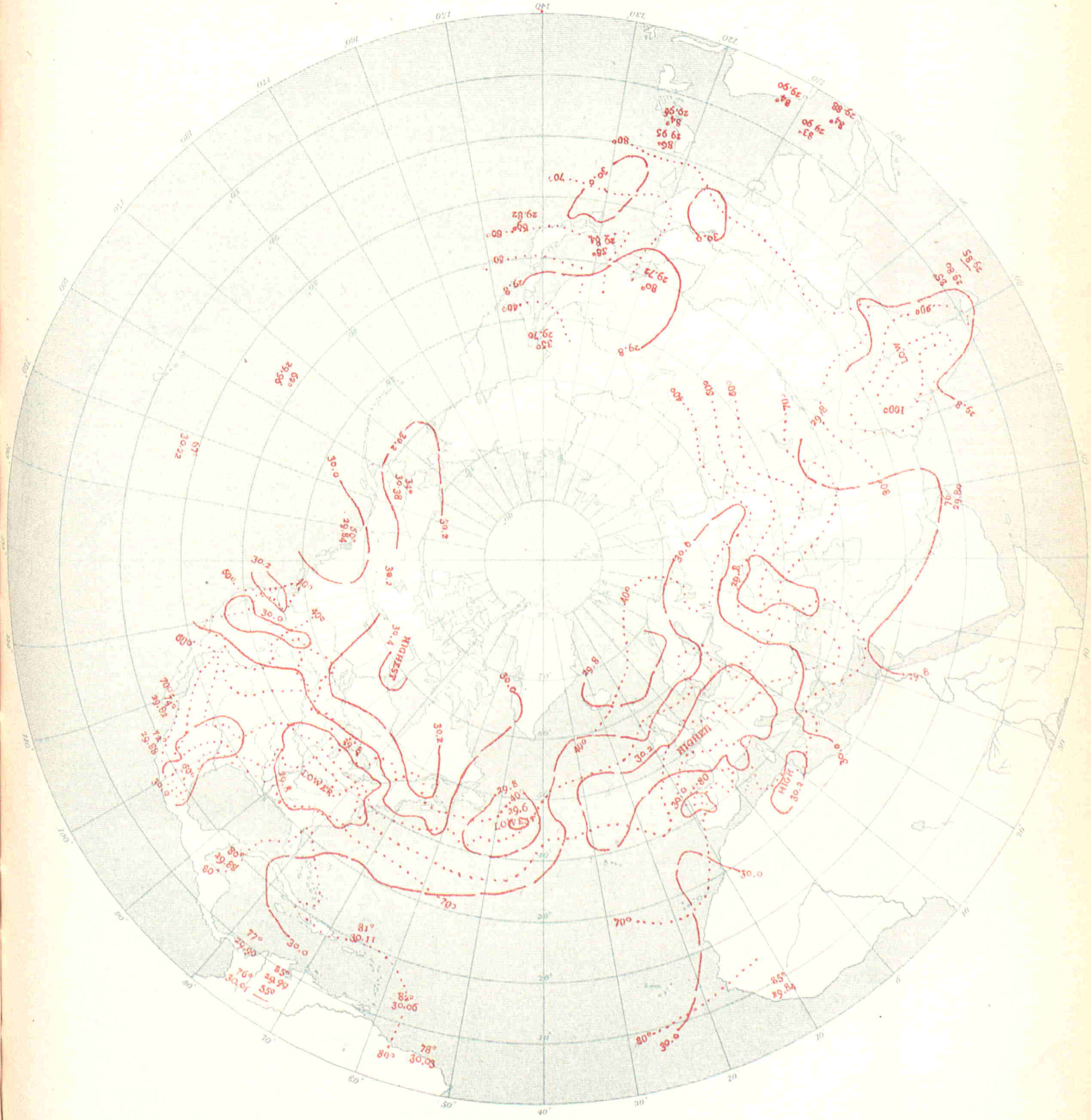
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Moorhead, Minnesota	29.14	740.1	30.12	765.0	39	3.9	89	ne.	12	5.4		4 k	0	n.		0.28	7.1	fair	H. Bessant.
Morgantown, W. Virginia	28.71	729.2	29.72	754.9	66.0	18.9	84	calm	0	0		3 c	4 k			0.40	10.2	fair	J. C. Sprigg, jr.
Mt. Washington, N. H	23.74	603.0	29.92	760.0	19.0	— 7.2	96	e.	35	15.6			ton;fg		e.	0.12	3.0	light snow	J. G. Linsley.
Nashville, Tennessee	29.13	739.9	29.66	753.4	63.0	17.2	87	w.	1	0.4		0	6 ks		sw.	0.52	13.2	fair	L. A. Jesunofsky.
New Haven, Connecticut	29.88	758.9	30.00	762.0	45	7.2	76	ne.	18	8.0			10 n		ne.	0.02	0.5	light rain	J. H. Sherman.
New London, Connecticut	29.97	761.2	30.02	762.5	47	8.3	68	ne.	16	7.2			10 s		ne.	0	0	threatening	J. G. Lynch.
New Orleans, Louisiana	29.76	755.9	29.81	757.2	74.5	23.6	92	sw.	4	1.8		0	8 s		sw.	1.62	41.1	cloudy	L. Dunne.
Newport, Rhode Island	29.98	761.5	30.03	762.7	46.0	7.8	68	ne.	12	5.4			10 s		ne.	0.02	0.5	cloudy	W. McGillivray.
New River, N. Carolina					71	21 7	85	sw.			1	2 c	3 s	w.		0.42	10.7	fair	C. C. Corbin.
New Shoreham, Rhode I'd	29.96	761 0	29.99	761.7	45.0	7.2	83	ne.	30	13.4		6 cs	4 s	sw.	ne.	0.04	1.0	cloudy	W. Davis.
New York, New York	29.80	756.9	29.98	761.5	46	7.8	83	ne.	21	9.4			10 n		ne.	0.04	1.0	light rain	E. B. Garriott.
Norfolk, Virginia	29.71	754.6	29.74	755.4	68	20.0	90	sw.	3	1.3		4 cs	3 s	sw.	sw.	0.52	13.2	fair	J. T. Elker.
North Platte, Nebraska	27.05	687.1	29.92	760.0	47.1	8.4	77	nw.	20	8.9			10 s			0	0	cloudy	E. F. Brady.
Olympia, Washington T'y	30.15	765.8	30.19	766.8	37.5	3.1	85	s.	4	1.8			10 ks		s.	0.27	6.9	cloudy	J. Dascomb.
Omaha, Nebraska	28.62	726.9	29.78	756.4	47.3	8.5	95	n.	16	7.2			10 n		n.	0.04	1.0	light rain	A. Pollak.
Ogglaamie, Pt. Barrow, Alas.	30.17	766.3	30.19	766.8	19.6	— 6.9	100	se.	10	4.5			10 s			0.01	0.3	cloudy	P. H. Ray.
Oswego, New York	29.46	748.3	29.79	756.7	45.2	7.3	82	se.	20	8.9			10 n		se.	0.28	7.1	light rain	S. W. Beall.
Palestine, Texas	29.41	747.0	29.96	761.0	58.0	14.4	74	nw.	8	3.6		0	0			0	0	clear	L. M. Pindell.
Pensacola, Florida	29.78	756.4	29.81	757.2	70.1	21.2	90	nw.	3	1.3			10 s		w.	1.82	46.2	cloudy	M. McGauran.
Philadelphia, Pa	29.77	756.1	29.87	758.7	49	9.4	93	ne.	15	6.7			9 ks		nw.	0.16	4.1	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.83	452.9	29.89	759.2	12	—11.1	87	ne.	44	19.7		0	0			0	0	clear	L. M. Dey.
Pioche, Nevada	24.11	612.4	30.03	762.7	44	6.7	45	s.	2	0.9		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	28.87	733.3	29.67	753.6	62.0	16.7	84	sw.	7	3.1		0	0			0.32	8.1	clear	J. H. Bryce.
Poplar River, Montana	28.03	711.9						se.			1		10 s		calm	0.79	20.1	cloudy	U. D. Maxwell.
Port Eads, Louisiana	29.86	758.4	29.87	758.7	73.1	22.8	87	se.	14	6.3		0	0			2.68	68.1	clear	H. G. Christian.
Port Huron, Michigan	29.06	738.1	29.74	755.4	42.3	5.7	96	ne.	10	4.5			10 n			1.34	34.0	light rain	W. O. Bailey.
Portland, Maine	30.12	765.0	30.17	766.3	44.0	6.7	60	e.	12	5 4			10 s		ne.	0	0	cloudy	D. C. Murphy.
Portland, Oregon	30.13	765.3	30.21	767.3	38.0	3.3	89	s.	1	0.4			10 s		sw.	0.12	3.0	cloudy	M. L. Hearne.
Portsmouth, N. Carolina					73	22.8	84	sw.	15	6.7			10 ks		w.	0.06	1.5	cloudy	F. P. Chaffee.
Prescott, Arizona	24.83	630.7	29.93	760.2	40	4.4	46	e.	3	1.3		0	0			0	0	clear	J. Mc N. Wright.
Provincetown, Mass	30.08	764.0	30.11	764.8	41	5.0	92	e.	14	6.3			10 s		ne.	0	0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	29.91	759.7	29.92	760.0	79.5	26.4	78	sw.	16	7.2		0	5 ks		sw.	0.04	1.0	fair	W. J. Evans.
Red Bluff, California	29.57	751.1	29.94	760.5	60.0	15.6	60	nw.	3	1.3		2 cs	0	w.		0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.75	755.6	29.99	761.7	75	23.9	43	n.	24	10.7		2 k	0	n.		0	0	clear	P. M. Wilson.
Rochester, New York	29.05	737.9	29.71	754.6	45	7.2	93	e.	18	8.0			ton;fg		se.	0.82	20.8	heavy rain	F. Gillam.
Roseburg, Oregon	29.66	753.4	30.21	767.3	39	3.9	82	nw.	1	0.4		4 cs	0	w.		0.03	0.8	fair	J. J. Nanry.
Sacramento, California	29.86	758 4	29.94	760.5	60.4	15.8	81	se.	5	2.2		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.08	738.6	29.67	753.6	56.0	13.3	86	w.	8	3.6			10 s		w.	0	0	cloudy	J. H. Webber.
St. Paul, Minnesota	29.06	738.1	29.91	759.7	41.0	5.0	73	n.	16	7.2			10 n		ne.	0.54	13.7	light rain	P. F. Lyons.
St. Vincent, Minnesota	29.36	745.7	30.22	767.6	38	3.3	62	ne.	5	2.2		0	0			0.12	3.0	clear	G. Kingsbury.
Salt Lake City, Utah	25.74	653.8	30.06	763.5	48	8.9	46	se.	4	1.8		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.30	744.2	30.00	762.0	58	14.4	75	calm	0	0		0	0			0	0	clear	E. Lane.
San Diego, California	29.84	757.9	29.91	759.7	55.2	12.9	93	n.	2	0.9		1 ck	1 s			0	0	clear	A. O. Dobbins.
Sandusky, Ohio	29.00	736.6	29.67	753.6	46	7.8	93	e.	19	8.5			fg			0.59	15.0	dense fog	M. H. Perry.
Sandy Hook, New Jersey	29.92	760.0	29.96	761.0	48.0	8.9	86	e.	36	16.1			10 n		e.	0.12	3.0	light rain	B. A. Blundon.
San Francisco, California	29.93	760.2	30.00	762.0	53	11.7	80	sw.	6	2.7		0	0			0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.28	591.3	29.89	759.2	38.5	3.6	43	ne.	6	2.7		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	29.76	755.9	29.85	758.2	78	25.6	76	sw.	4	1.8		0	8 ks		sw.	0.20	5.1	cloudy	H. W. Ford.
Shreveport, Louisiana	29.62	752.3	29.86	758.4	58	14.4	86	nw.	10	4.5		0	0			0.83	21.1	clear	E. N. Meekins.
Silver City, New Mexico	24.32	617.7	29.86	758.4	43	6.1	30	sw.	4	1.8		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	29.78	756.4	29.84	757.9	50	10.0	48	ne.	4	1.8			10 s		calm	0	0	cloudy	J. J. McLean.
Smithville, North Carolina	29 76	755 9	29.80	756.9	72	22.2	82	sw.	9	4.0		7 cs	0	sw.		inap.	inap.	fair	O. Parker.
Spokane Falls, Wash. Ter.	28.06	712.7	30.11	764.8	45	7.2	63	s.	3	1.3		0	9 s		sw.	0.12	3.0	cloudy	D. Moore.
Springfield, Illinois	28.96	735.6	29.64	752.8	60	15.6	75	w	2	0.9			10 s		w.	0	0	cloudy	T. B. Jennings.
Springfield, Massachusetts	29.95	760.7	30.08	764.0	43.8	6.6	76	ne.	8	3.6			10 n		ne.	0.04	1.0	light rain	T. S. Outram.
Springfield, Mo	28.31	719.1	29.79	756.7	55	12.8	72	w.	8	3.6		0	4 s		w.	0	0	fair	J. B. Marbury.
Starkville, Miss	29.29	744.0			65	18.3	90	sw.	9	4.0			10 s		w.	0.41	10.4	cloudy	M. J. Wright.
Stockton, Texas	27.04	686.8	30.05	763.3	50.0	10.0	59	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Thatcher's Island, Mass	30.05	763.3	30.10	764.5	42.8	6.0	96	e.	28	12.5			10 n		e.	inap.	inap.	light rain	F. R. Day.
Toledo, Ohio	29.00	736.6	29.68	753.9	46	7.8	93	ne.	16	7.2			ton;fg			0.65	16.5	light rain	A. Buell.
Tucson, Arizona	27.53	699.2	29.87	758.7	52	11.1	43	s.	5	2.2		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.87	758.7	30.24	768.1	39	3.9	65	sw.	2	0.9		2 cs	0			inap.	inap.	clear	J. Daly.
Uvalde, Texas	29.06	738.1	30.01	762.2	56	13.3	69	calm	0	0		0	0			0	0	clear	E. O. Imlay.
Vicksburg, Mississippi	29.56	750.8	29.80	756.9	66	18.9	84	nw.	16	7.2			10 s		nw.	0.35	8.9	cloudy	H. T. Brisbane.
Visalia, California																			W. L. Seward.
Washington, D. C	29.65	753.1	29.76	755.9	55.9	13.3	98	ne.	6	2.7			10 n		ne.	0.18	4.6	light rain	B. M. Purssell.
West Las Animas, Colorado	26.11	663.2	29.97	761.2	44	6.7	80	w.	6	2.7		0	0			0	0	clear	J. Grover.
Williamsport, Pa	29.20	741.7	29.80	756.9	49	9.4	86	se.	14	6.3			10 ks		se.	0.75	19.0	threatening	B. F. Hough.
Wilmington, N. Carolina	29.73	755.1	29.78	756.4	71	21.7	82	sw.	2	0.9		5 c	0	w.		0.19	4.8	fair	A. T. Sherwood.
Winnemucca, Nevada	25.65	651.5	30.00	762.0	42	5.6	52	sw.	6	2.7		0	0			0	0	clear	J. R. Williams.
Yankton, Dakota	28.60	726.4	29.88	758.9	41	5.0	82	ne.	16	7.2			10 ks			0.35	8.9	cloudy	J. H. Atfield.
Yuma, Arizona	29.69	754.1	29.84	757.9	64.5	18.1	39	n.	2	0.9		6 c	0			0	0	fair	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.03	559.6			54.5	12.5	82	ne.	2	0.9			10 s			0	0	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.05	763.3	30.06	763.5	82	27.8	82	e.				5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C	29.98	761.5	30.01	762.2	76	24.4	95	s.	4	1.8			10 n		s.	1.80	45.7	raining	J. I. Plume.
Havana, Cuba, W. I	29.95	760.7	30.00	762.0	82	27.8	80	se.	1.2	0.5		0	2 ks		calm	0	0	fair	A. Van Caneghem.
Kingston, Jamaica, W. I	30.02	762.5	30.03	762.7	81.3	27.4	66	ese.	4	1.8		0	2 s		e.	0	0	fair	Robert Johnston.
Magua, San Domingo, W. I					75	23.9		calm			0	0	0			0	0		S. M. Pike.
Navassa, W. I																			F. M. Everett.
Paramaribo, S. A	30.03	762.7	30.03	762.7	78	25.6	91	e.			2	5 ck	5 k	e.		0.400	10.2		Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.54	750.3	29.99	761.7	85	29.4	72	s.			1	5 ck	4 k	calm	s.	0.46	11.7	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A							96	se.			1	10 cs	0	se.		0	0	fair	Earl Flint.
Santiago de Cuba, W. I	29.99	761.7	30.01	762.2	79	26.1	82	calm	0	0		1 ck	1 ks			0.10	2.5	fair	Robert Mason.
York Factory, B. A	30.41	772.4	30.46	773.7	32.0	0.0	94	s.	11	4.9		1 c	0	s.		0	0	fair	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Alert, S. 14° 11′, E. 43° 20′	30.04	763.0	82.5	28.1	67	sse.			2		5							d. clouds.
H. M. S. Alexandra, Confu, Ionian Islands	29.92	760.0	71	21.7	80	wnw.			3-4		2	ne.				1	wnw.	d. clouds.
H. M. S. Amethyst, N. 28° 49′, W. 18° 19′	30.01	762.2	66.5	19.2	90	nw.			2		5	nnw.						d. clouds.
H. M. S. Champion, S. 5° 10′ W. 106° 40′			78	25.6	86	nne.			3		7	calm				3	ese.	d. clouds.
H. M. S. Cleopatra, N. 6° 36′, E. 106° 54′	29.90	759.4	82.5	28.1	95	calm			0		3							d. clouds.
H. M. S. Comus, N. 3° 50′ E. 110° 30′	29.90	759.4	83.5	28.6	87	calm			0		3	sw.						d. clouds.
H. M. S. Coquet e, Alexandria, Egypt	29.82	757.4	73	22.8		wnw.			1		2	wsw.						d. clouds.
H. M. S. Dido, N. 10° 40′, W. 61° 30′	30.11	764.8	78	25.6		calm			0		0							misty.
H. M. S. Druid, N. 16° 40′, W. 85° 30′	29.88	758.9	80	26.7	91	ese.			5		5					4	ese.	d. clouds.
H. M. S. Dwarf, S. 33° 05′, W. 58° 18′	30.12	765.0	51	10.6	82	w.			1		0					1	w.	blue sky.
H. M. S. Eclipse, S. 14° 39′, E. 44° 58′	30.00	762.0	82	27.8		sse.			2		2					1	s.	d. clouds.
H. M. S. Emerald, S. 50° 50′ W. 166° 00′	29.30	744.2	52	11.1	93	nw.			6		10	nw.				7	wnw.	showery.
H. M. S. Euryalus, Trincomalee, Ceylon	29.80	756.9	85	29.4	75	se.			2		6	calm						d. clouds.
H. M. S. Fantome, Puerto, Cabello, S. A.	30.01	762.2	79	26.1		calm			0		7							d. clouds.
H. M. S. Flying Fish, N. 32° 44′, E. 129° 52′	30.01	762.2	66	18.9	97	calm			0		3							misty.
H. M. S. Fawn, N. 11° 44′ E. 56° 03′	29.87	758.7	84.5	29.2	77	sw.			1-2		4	sw.				1	ssw.	d. clouds.
H. M. S. Gannet, S. 28° 50′, W. 71° 55′	29.99	761.7	59	15.0	81	n.			3		10					1-3	ssw.	overcast.
H. M. S. Garnet, Colonia, Rio de La Plata, Uruguay	30.13	765.3	55	12.8	55	nnw.			3		3							d. clouds.
H. M. S. Griffon, N. 43° 20′ W. 63° 41′	30.22	767.6	41	5.0	56	nnw.			4		4	n.				6	nnw.	d. clouds.
H. M. S. Inconstant, Simon's Bay, Cape Colony	29.91	759.7	65	18.3	94	se.			2		5	se.						d. clouds.
H. M. S. Iron Duke, N. 28° 34′, E. 128° 52′	30.05	763.3	72	22.2	85	ese.			1-2		2							d. clouds.
H. M. S. Kingfisher, S. 17° 25′, W. 75° 20′	30.01	762.2	64	17.8		se.			1-2		9	calm				2	sw.	d. clouds.
H. M. S. Lark, S. 8° 14′, E. 156° 30′	29.93	760.2	78.3	25.7		se.			1		6					1	se.	showery.
H. M. S. Magpie, N. 34° 56, E. 139° 52′	29.80	756.9	66.5	19.2	64	wsw.			3-4		0					1	w.	squally.
H. M. S. Northampton, Bermuda, W. I.	29.98	761.5	73	22.8	93	wsw.			3		4	wsw.						d. clouds.
H. M. S. Pegasus, N. 1° 17′, E. 103° 51′	29.88	758.9	83.5	28.6	89	calm			0		3							d. clouds.
H. M. S. Rambler, Saint Paul de Loanda, Benguela	29.86	758.4	78	25.6	100	wnw.			1		2							d. clouds.
H. M. S. Rocket, N. 48° 27′, W. 123° 27′	30.10	764.5	40	4.4	100	w.			3		6							d. clouds.
H. M. S. Sylvia, N. 37° 54′ W. 15° 06′	29.91	759.7	65.5	18.6	78	ese.			3		5	ene.				3	e.	d. clouds.
H. M. S. Tenedos, N. 44° 40′ W. 63° 35′	30.04	763.0	38	3.3	80	nne.			4		9							d. clouds.
H. M. S. Thetis, S. 25° 18′ W. 70° 58′	30.01	762.2	61	16.1	88	calm			0		10					3	ssw.	overcast.
H. M. S. Triumph, S. 28° 34′, W. 71° 40′	30.03	762.7	60	15.6	82	n.			3		10	calm				3	s.	d. clouds.
H. M. S. Woodlark, Muscat Cove, Arabia	29.80	756.9	95.5	35.3	53	nw.			2		0							blue sky.
PORTUGUESE NAVAL.																		
Rio Lima, Porto Praya, Cape Verde Islands	30.04	763.0	75.9	24.4	80	ene.			2		0					1		blue sky.
Tamegu, Macao, China	29.93	760.2	80.6	27.0	86	sse.			2		4		se.	½ h'r	½ h'r			d. clouds.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	29.81	757.2	69	20.6	90	nnw.	3	1.3			10		nw.	1.65	41.9			cloudy.
Navy Yard, Portsmouth, N. H.	30.17	766.3	39	3.9	73	ne.	24	10.7			10		ne.	0.1	3.			rainy.
Naval Hospital, Yokohama, Japan	29.67	753.6	62	16.7	80	n.			1		0			0	0			clear.
Adams, N. 36° 56′, W. 122° 19′	29.73	755.1	59	15.0	94	nw.			2		0			0	0	long	w.	hazy.
Alaska, Payta, Peru	29.91	759.7	65	18.3	84	se.			1		0			0	0	sm'h		clear.
Alert, Kobe, Japan*	29.86	758.4	69	20.6	52	calm			0		0			0	0	sm'h		hazy.
Alliance, N. 37° 04′ W. 74° 40′	29.77	756.1	54	12.2	100	ene.			1		10			light	light	sm'h		foggy.
Ashuelot, Kobe, Japan	29.96	761.0	66	18.9	64	calm			0		2		calm					clear.
Brooklyn, Montevideo, Uruguay	30.08	764.0	54	12.2	67	nw.	10	4.5			2			* 0	0	sm'h		clear.
Colorado, New York, N. Y.	29.94	760.5	47	8.3	77	ne.	5	2.2			10		ne.	0.04	1.0			raining.
Essex, S. 32° 01′ W. 47° 48′	30.07	763.8	63	17.2	57	sw.			3		5		sw.			mod.	w.	fair.
Franklin, Norfolk, Va.	29.78	756.4	67	19.4	95	calm	0	0			8		sw.	0.63	16.0			fair.
Galena, Port Mahon, Minorca Island	30.27	768.8	71	21.7	62	e.			1		0					sm'h		clear.
Independence, Navy Yard, Mare Island, Cal.	29.89	759.2	60	15.6	94	sw.			2		0			0	0			clear.
Iroquois, San Francisco, Cal.	29.97	761.2	64	17.8	62	sw.			2		0							clear.
Kearsarge, N. 37° 10′, W. 74° 45′	29.77	756.1	54	12.2	?	calm			0							long	ssw.	dense fog.
Lackawanna, Callao, Peru*	29.94	760.5	63	17.2	83	se.			2		10?		n.	0	0			clear?
Lancaster, Port Mahon, Minorca Island*	30.19	766.8	74	23.3	47	e.			1		0			0	0			clear.
Marion, S. 27° 19′, W. 39° 05′	30.00	762.0	68	20.0	100	wnw.			3		10.			light	light	mod.	irreg.	rainy.
Michigan, Erie, Pa.	29.59	751.6	42	5.6	100	ne.			6		10		sw.					raining.
Minnesota, Newport, R. I.	30.03	762.7	47	8.3	85	ene.	6	2.7			10							overcast.
Monocacy, Nagasaki, Japan	30.05	763.3	67	19.4	89	calm			0		0							clear.
New Hampshire, Newport, R. I.	29.96	761.0	45	7.2	100	ne.			4		10		ne.			sm'h		cloudy.
Nipsic, Port Mahon, Minorca Island	30.23	767.8	72	22.2	42	e.			2		0					sm'h		clear.
Onward, Callao, Peru†	30.09	764.3	61	16.1	94	sse.			2		10		n.			long	w.	cloudy.
Palos, Kobe, Japan	30.01	762.2	66	18.9	50	calm			0		0							clear.
Passaic, Washington, D. C.	29.74	755.4	56	13.3	100	ne.			1		10							cloudy.
Pensacola, Callao, Peru	29.98	761.5	63	17.2	89	sse.	4	1.8			10			0	0	sm'h		cloudy.
Portsmouth, Plymouth, Eng.	30.30	769.6	56	13.3	100	wsw.			1		10		sw.			sm'h		overcast.
Powhatan, Hampton Roads, Va.	29.75	755.6	67	19.4	95						8							fair.
Quinnebaug, Port Mahon, Minorca Island	30.20	767.1	70	21.1	48	ese.			1		0					sm'h		clear.
Ranger, N. 23 39′, W. 108° 12′*	29.82	757.4	74	23.3	72	w.			2		2		calm	0	0	sm'h		fair.
Richmond, Kobe, Japan*	29.92	760.0	69	20.6	52	calm			0		0			0	0			clear.
Saratoga, Plymouth, Eng.	30.30	769.6	55	12.8	100	ssw.			0-1		5		sw.	0	0	sm'h		fair.
Shenandoah, New York, N. Y.*	30.01	762.2	54	12.2	80	e.			3		10							rainy.
St. Louis, League Island, Pa.	30.01	762.2	49	9.4	85	ne.	2	0.9			10			0.19	4.8			cloudy.
Swatara, N. 37° 22′, E. 126° 29′*	29.74	755.4	58	14.4	76	ssw.			1		0					sm'h		clear.
Tennessee, N. 36° 59′, W. 75° 57′	29.80	756.9	55	12.8	100	n.	1	0.4			10			0.25	6.3	sm'h		dense fog.
Vandalia, N. 37° 07′, W. 74° 49′*	29.78	756.4	55	12.8	93	calm			0		10		calm					foggy.
Wabash, Boston, Mass.	30.11	764.8	44	6.7	76	ene.	13	5.8			10		e.	0	0			cloudy.
Wachusetts, Fort Wrangle, Alaska	29.81	757.2	40	4.4	100	ne.			1		10					sm'h		raining.
Wyoming, Port Royal, S. C.	29.83	757.7	75	23.9	86	sw.	12	5.4			8		w.	0	0			cloudy.
Yantic, N. 37° 08′, W. 74° 52′*	29.74	755.4	54	12.2	93	ese.			1		10					long	s.	foggy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 45° 30′, W. 44° 15′*	29.59	751.6	45	7.2	?	e.			6		10		se.	2 h'r	2 h'r	4	ese.	heavy rain.
S. S. Prussian, N. 51° 18′, W 13° 07′*	30.07	763.8	56	13.3		wsw.			4		10		sw.	16 h'r	16 h'r	light	w.	foggy.
S. S. Scandinavian, N. 42° 44′, W. 49° 45′*	29.61	752.1	39	3.9		wsw.			4		1		wsw.	o	o	con.	var.	blue sky.
S. S. Waldensian, N. 45° 10′, W. 41° 52′*	29.87	758.7	55	12.8		sse.			6		10		sw.	8 h'r	8 h r	short	ssw.	rainy.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, N. 39° 05′, W. 53° 02′	29.73	755.1	50	10.0	94	wnw.			6		5		nw.			r'gh	n.	fair.
S. S. Indiana, Liverpool, England†	30.38	771.6	70	21.1	61	w.			3		8		w.	o	o			cloudy.
S. S. Lord Clive, N. 40° 13′, W. 66° 16′*	29.88	758.9				ne.			4		10		ne.	1 h'r	1 h'r	sm'h		overcast.
ANCHOR LINE.																		
S. S. Devonia, N. 45° 45′ W 44° 00′†	29.61	752.1	49	9.4		e.			5		10		ese.			r'gh	ese.	raining.
S. S. Elysia, N. 51° 20′, W. 9° 10′ †	30.35	770.9	62	16.7		sw.			2		9		sw.	o	o	sm'h		cloudy.
S. S. Utopia, Cadiz, Spain†.	30.25	768.3	79	26.1	46	ese.			6		0			o	o			clear
ATLAS LINE.																		
S. S. Atlas, Colon U. S. C.†	29.90	759.4	84	28.9	83	ne.			1		10		ne.	12 h'r	12 h'r	light	ne.	dull.
S. S. Antillas, N. 21° 36′, W. 67° 29′*†	30.20	767.1				se.			1		2		se.			sm'h	se.	fine.
S. S. Athos, N. 18° 33′, W. 66° 45′	29.68	753.9				e.			2		6		e.	mist	mist	sm'h		cloudy.
S. S. Claribel, N. 20° 54′. W. 73° 43′*†	30.12	765.0	80	26.7	86	e.			3		5		ese.	o	o.	short	e.	hazy.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 38° 09′ W. 0° 40′	29.96	761.0	50.5	10.3	86	s.			7		10							drizzling.
British Merchant, S. 32° 38′, E. 30° 22′	29.92	760.0	76	24.4	76	wnw.			2		4							misty.
Bk. Commewyne, N. 54° 57′, W. 12° 01′	29.89	759.2	53.8	12.1	93	sw.			6		10							drizzling.
Bk. Coppename, N. 38° 47′, W. 19° 43′	30.04	763.0	61.5	16.4	77	nne.			4		3							d. clouds.
S. S Earnock, N. 36° 52′, W. 35° 35′	30.16	766.1	68	20.0	97	sse.			4		2							blue sky.
Glencairn, S. 26° 40′, E. 58° 30′	30.22	767.6	74	23.3	76	ssw.			3		2							d. clouds.
S. S. Gordon Castle, N. 31° 50′, E. 132° 53′	30.00	762.0	71.2	21.8	85	sw.			3–4		3							d. clouds.
Bkt. Hope, N. 14° 11′, W. 39° 47′	30.09	764.3	76.3	24.6	81	ene.			3		9							d. clouds.
S. S. Minho, Pernambuco, Brazil	30.00	762.0	78	25.6	90	calm			0		3							gloomy.
S. S. Pole Star, S. 34° 32′ W. 81° 45′	30.12	765.0	59.4	15.2	97	nne.			1		10							
CUNARD LINE.																		
S. S. Gallia, N 40° 29′. W. 60° 37′	29.98	761.5	44	6.7	84	e.			6		10			o	o			overcast.
S. S. Scythia, N. 47° 16′, W. 36° 44′	30.04	763.0	54.5	12.5	90	se.			6		8		se.	5 h'r	5 h'r	mod.	se.	
GENERAL TRANS-ATLANTIC COMPANY																		
S. S. France, N. 48° 23′ W. 22° 14′†	30.15	765.7	57.2	14.0		w.			1				wsw.	o	o	sm'h	wsw.	hazy.
S. S. St. Germain, N. 45° 13′, W. 34° 00′	30.29	769.3	55.4	13.0		se.			6				se.	light	light	sm'h	se.	hazy.
S. S. Ville de Marseilles. Cadiz, Spain*†	30.10	764.5	70	21.1		sse.			5		0			o	o			clear.
GUION LINE.																		
S. S. Arizona, N. 40° 48′ W. 60° 10′	29.93	760.2	45	7.2		nnw.			5		10		nw.	o	o	mod.	nw.	overcast.
S. S. Wisconsin, N. 47° 05′, W. 37° 45′*†	30.06	763.5	53	11.7		e.			5		8		se.	2 h'r	2 h'r	mod.	se.	cloudy.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 40° 42′. W. 74° 01′*†	29.94	760.5				e.			4		8		e.	rain	rain			stormy.
S. S. Lessing, N. 45° 29′ W. 36° 18′	30.07	763.7	58	14.4		ese.			3		8		ese.	o	o	mod.	wsw.	cloudy.
S. S. Silesia, Hamburg, Germany†	30.36	771 1	66	18.9		w.			4		2		w.	o	o			fair.
INMAN LINE.																		
S. S. City of New York, N. 51° 15′ W. 13° 15′	30.24	768.1				sw.			4		10		wsw.	1 h'r	1 h'r	r'gh	w.	cloudy.
JOHNSTON LINE.																		
S. S. Thanemore, N. 43° 47′, W. 39° 12′	29.89	759.2				s.			5		10		s.	sh'rs	shr's			rainy.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, Buenos Ayres, Argentine*†	30.25	768.3	60	15.6		wnw.			2		1		w.	o	o			clear.
S. S. Humboldt, S. 8° 00′, W. 34° 50′*	29.99	761.7	79	26.1	95	nnw.			2		3 k			1 h'r	1 h'r	2	se.	d. clouds.
LEYLAND LINE.																		
S. S. Iberian, N. 51° 17′, W. 10° 51′	30.23	767.8				sw.					10		wsw.	o	o			overcast.
MERCHANT STEAMSHIP COMPANY.																		
S. S. Glenapp, S. 0° 56′, W. 41° 39′ *†	29.93	760.2				se.			2		0			o	o	sm'h		fine.
NATIONAL LINE.																		
S. S. Canada, N. 43° 51′, W. 42° 01′†	29.79	756.7	59	15.0		ssw.			4		10		s.	4 h'r	4 h'r	mod.	sw.	fine.
S. S. Denmark, London, Eng	30.30	769.6	62	16.7		sw.			4		8		wsw.	o	o			cloudy.
S. S. England, N. 43° 10′, W. 44° 17′	29.66	753.4				w.			5		2		w.	16 h'r	16 h'r	h'vy	sw.	clear.
S. S. Erin, N 40° 30′ W. 72° 52′	29.86	758.4	44	6.7		ne.			7		10		ene.	o	o	r'gh	ne.	showery.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, Vera Cruz, Mexico*†	29.99	761.7	82	27.8	87	ne.			4		10		n.	o	o	long	n.	misty.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N. 41° 18′, W. 57° 25′*†	30.10	764.5	59	15.0		wnw.			5							high	wnw.	stormy.
S. S. Maas, N. 49° 46′, W. 24° 04′*†	30.27	768.8	55	12.8		n.			1								w.	fine.
S. S. Olbers, N. 40° 26′ W. 12° 30′*†	30.10	764.5	63	17.2		calm			0								nne.	fine.
NORTH GERMAN LLOYD.																		
S. S. Elbe, N. 51° 10′, E. 1° 20′	30.30	769.6	51.8	11.0	94	s.			3–6		10		w.			sm'h	w.	drizzling.
S. S. Graf Bismark, Santos, Brazil	30.19	766.8	67.1	19.5		nw.			2		4		nw.	o	o			fair.
S. S. Hapsburg, N. 48° 50′, W. 29° 49′	30.31	769.9	51.8	11.0		ene.			3		10		ene.	o	o	sm'h		fair.
S. S. Hohenzollern, N. 44° 27′, W. 36° 25′*	29.99	761.7	58.1	14.5		s.			6		8		sse.	rain	rain	long	s.	
S. S. Kronprinz F. Wilhelm, N. 49° 46′ W. 17° 26′	30.24	768.1	55.4	13.0		ssw.			2		10		ssw.	o	o	2	ssw.	cloudy.
S. S. Leipzig, N. 40° 22′, W. 62° 43′	30.00	762.0	51.0	10.6	86	n.			4		8		n.	o	o	sm'h		fair.
S. S. Main, N. 40° 25′, W. 69° 58′	29.92	760.0	44.6	7.0		e.			6		10		ene.	light	light	high	e.	light rain.
S. S. Mosel, N. 45° 24′, W. 41° 06′	29.72	754.9	59	15.0		ese.			6		9		e.	7 h'r	7 h'r	r'gh	e.	hazy.
S. S. Neckar, N. 41° 15′ W. 56° 02′	29.74	755.4	49.1	9.5		wnw.			5		8		wnw.	sq'ls	sq'ls	r'gh	wsw.	misty.
S. S. Ohio, Bremerhaven, Germany	30.38	771.6				wsw.			4		4		wnw.	1½h'r	1½h'r			fair.
S. S. Rhein, N. 46° 03′, W. 34° 06′	30.07	763.8				sw.			5		9		sw.	o	o	r'gh	sw.	cloudy.
S. S. Salier, N. 45° 13′. W. 45° 22′	29.55	750.6	41.9	5.5		wsw.			6		8		wsw.	7 h'r	7 h'r	h'vy	wsw.	hazy.
S. S. Strassburg, N. 52° 40′ E. 3° 35′	30.31	769.9	54.5	12.5	97	s.			4		4		s	o	o	sm'h	s.	hazy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, N. 34° 50′. E. 152° 52′†	29.92	760.0	69	20.6	90	ssw.			5		5		nw.	o	o	r'gh	sw.	fair.
S. S. Gaelic, N. 37° 40′, W. 165° 50′†	29.96	761.0	62	16.7	83	sse.			5		8		s.			mod.	se.	clear.
S. S. Oceanic, Yokohama, Japan*	29.70	754.4	61	16.1	88	wnw.			5		5							fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga.†	29.90	759.4				sw.			1		8?		sw.					clear?
S. S. City of Columbus, N. 33° 36′, W. 77° 43′†	29.90	759.4				s.			2		8		s.	light	light	mod.	sse.	squally.
S. S. Seminole, Boston, Mass.†	30.20	767.1	42	5.6	83	ese.			6		10		ese.	2 h'r	2 h'r			raining.
OREGON IMPROVEMENT COMPANY.																		
S. S. Willamotta, N. 42° 47′, W. 124° 27′†	30.23	767.8	47	8.3	77	e.			1		10		nnw.	o	o	mod.	wnw.	hazy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, Sitka, Alaska*†	29.86	758.4	54	12.2	86	nw.			2		2?		nw.					cloudy.?
S. S. Oregon, N. 39° 38′, W. 124° 07′†	30.13	765.3	49	9.4	84	nnw.			6		2		nnw.			r'gh	nw.	hazy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 36° 39′, W. 122° 06′†	29.91	759.7	51	10.6	93	n.			4		0					mod.	nw.	clear.
S. S. Dakota, N. 39° 41′, W. 123° 57′†	30.03	762.7	56	13.3	86	nw.			6				nw.			mod.	nw.	cloudy.
S. S Orizaba, N. 35° 09′, W. 120° 45′†	29.94	760.5	65	18.3	84	se.			3				se.			mod.	ssw.	foggy.
S. S. State of California, San Francisco, Cal.†	29.99	761.7	48	8.9	92	w.			1		0							clear.
S. S. Victoria, N. 48° 25′, W. 123° 13′†	30.09	764.2	42	5.6	91	e.			3		0			o	o	sm'h		clear.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, N. 27° 07′, W. 148° 32′	30.22	767.0	67	19.4	74	ene.			3		8		ne.	o	o	mod.	ene.	hazy.
S. S. City of New York, Sydney, N. S. W†	30.23	767.8	64	17.8	78	nw.			2		8		nw.	o	o			fair.
S. S. City of Rio de Janeiro, N 19° 26′, W. 104° 10′ *†	30.08	764.0	72	22.2	85	nw.			1		6		nw.	o	o	sm'h	w.	hazy.
S. S. City of Sydney, N. 31° 46′, W. 135° 08′†	30.24	768.1	63	17.2	88	nne.			3		10		ne.	o	o	mod.	ne.	cloudy.
S. S. City of Tokio, Hong Kong, China†	29.99	761.7	82	27.8	83	calm			0		5			o	o			fair.
S. S. Colima, N. 18° 14′, W. 104° 03′†	29.89	759.2	73	22.8	70	ene.			3		9		ese.	o	o	small	wnw.	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
PACIFIC MAIL STEAMSHIP COMPANY.—Continued.																		
S. S. Colon, Aspinwall, Panama†	29.88	758.9	80	26.7		calm			0		10		ne.	2 h'r	2 h'r	mod.	ne.	covered.
S. S. Granada, Panama, Panama†	29.90	759.4	77	25.0	95	wnw.			1		5		nw.	0	0	light	wnw.	cloudy.
S. S. Zelandia, Sydney, N. S. W.	30.16	766.1	53	11.7	86	w.			2		0							clear.
QUEBEC STEAMSHIP CO.																		
S. S. Muriel, Off Highlands, N. J	29.83	757.7	52	11.1		ene.			5		10					r'gh	e.	drizzling
S. S. Bermuda, Point of Pitre, Guadeloupe, W. I†	30.06	763.5	65?	18.3?		calm			0		9		calm	0	0			fine
RED STAR LINE.																		
S. S. Belgenland, N. 49° 20′, W. 53° 20′†	29.84	757.9	53	11.7	?	wnw.			5		6		nnw.	0	0	mod	nw.	fair.
S. S. Nederland, N. 49° 14′, W. 13° 18′†	30.38	771.6	54	12.2		s.			1		2		sw.			sm'h	w.	fair.
S. S. Rhynland, Antwerp, Belgium	30.40	772.1	59	15.0	76	wsw.			1		8		wsw.	0	0			cloudy.
S. S. Switzerland, N. 39° 25′. W. 69° 50′†	29.96	761.0				ene.			3		10		ene.	3 h'r	3 h'r	sm'h		cloudy.
S. S. Vaderland, Jersey City, N. J	29.78	756.4	51	10.6	?	ene.			4		10		ene.	9 h'r	9 h'r			cloudy.
S. S. Waesland, N. 40° 07′, W. 50° 51′	29.78	756.4	57	13.9		w.			5		2		w.	6 h'r	6 h'r	mod.	w.	fair.
ROTTERDAM LINE.																		
S. S.W A Scholten, Rotterdam, Holland	30.18	766.6	57	13.9	81	sw.			1		8		w.	0	0			
STATE LINE.																		
S. S. State of Florida, N. 40° 30′, W 73° 30′	29.92	760.0	46	7.8		ne.			5		10		ene.	0	0	sm'h	wsw.	cloudy.
S. S. State of Indiana, N. 48° 40′, W. 37° 25′†	29.94	760.5	53	11.7		s.			4		6		sw.	2 h'r	2 h'r	sm'h		cloudy.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 42° 45′, W. 49° 13′†	29.90	759.4	41.0	5.0		ssw.			2		3		ssw.	0	0	r'gh	wsw.	clear.
WHITE STAR LINE.																		
S. S. Adriatic, New York N. Y.†						ne.			4		10		ne.	shr's	shr's	sm'h		raining.
S. S. Baltic, N. 46° 21′ W. 37° 56′†	30.00	762.0	53	11.7	86	sse.			6		10		sse.	0	0	5	sse.	overcast.
S. S. Britannic, N. 47° 16′, W. 25° 12′†	30.15	765.8	48	8.9	?	se.			4		10		se.	0	0	sm'h		d clouds.
S S. Celtic, Liverpool, Eng†	30.30	769.6	64	17.8	73	wnw.			1		5		wsw.	0	0	sm'h		fair.
S. S. Germanic, N. 42° 52′, W. 53° 35′†	29.62	752.3	42	5.6		w.			6		10		wsw.			high	wsw.	d. clouds.
S. S. Republic, N. 50° 55′, W. 14° 36′†	30.35	770.9	53	11.7	86	sw.			4		9		sw.	0	0	mod.	wsw.	misty.
WILSON LINE.																		
S. S. Romano, N. 42° 46′, W. 40° 39′*†	29.43?	747.5?	60	15.6		s.					10			14 h'r	14 h'r	mod.	var.	overcast.
MISCELLANEOUS.																		
Schr. Abbie Clifford, Barbadoes, W. I*†	30.05	763.3	80	26.7		e.			2		5			0	0			
Schr. Addie Fuller, Newport News, Va†	29.81	757.2	66	18.9	90	w.			2	4 ck	0	w.		1.37	34.8			fair.
Bk. Adelaide, S. 14° 50′, W. 34° 48′*†	30.06	763.5	84	28.9		e.			1		5		ene.	9 h'r	9 h'r	mod.	s; s.	
Schr. Ajax, Brazos, Texas†	29.98	761.5				n.			1		5?		nw.	0	0			cloudy.?
Bk. Alpha, Santiago de Cuba, W. I†	29.96	761.0	80	26.7		calm			0		1			½ hr	½ hr			clear.
Schr. Annie Lewis, Aransas Pass, Texas†	30.06	763.5	76	24.4		nne.			7		0			0	0	short	ne.	clear.
Bk. Anna Thormann, N. 34° 16′, W. 44° 59′	30.01	762.3	65.5	18.6	82	w.			5		4 k		w.	5 h'r	5 h'r	mod.	w.	fair.
Bk Antioch, S. 41° 32′, E. 104° 36′*†	29.80	756.9	58	14.4		w.			6		3?		sw.	½ h'r	½ h'r	sm'h	sw.	cloudy.?
Antonio Lopez, N. 22° 12′, W. 88° 48′*	29.93	760.2	78	25.6	90	se.			4		2 s			0	0	mod.	se.	hazy.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.27	768.8	78	25.6		wnw.			2		4		w.	½ h'r	½ h r			fair.
Sch'r Annie M. Smull, S. 11° 30′ E. 105° 26′*†	30.10	764.5	84	28.9										0	0			
Bk. Bergenseren, N. 39° 10′. E. 0° 20′†	30.12	765.0				nne.			3		0			0	0	3	e.	fair.
Bk. Celestina, Montevideo, Uruguay*†	30.11	764.8				nnw.			1		0			0	0			clear.
S. S. Compton, N. 27° 00′, W 85° 37′†	29.91	759.7				sse.			4		7		s.	0	0	sl't	s.	clearing.
Schr. Edith R. Seward, Port Antonio, Jamaica, W.I*†.	30.17	766.3	83	28.3		ene.			1		4		ene.	2 h'r	2 h r			fair.
Bk. E. J. Spicer, Gravesend, Eng†	30.27	768.8				wnw.			3		5		wnw.	0	0			
S. Enoch Train, N. 42° 43′, W. 64° 30′*	29.97	761.2				nne.			3		8		ne.	0	0			clear.
S. Exporter, S. 36° 03′, W. 17° 00′*†	30.35	770.9				sse.			5		8		se.	0	0	hv'y	se.	cloudy.
Bk. Freya, Dublin, Ireland			57	13.9		sw.			4		8		sw.	0	0			cloudy.
S. Grecian, S. 26° 12′, 103° 09′*†	30.27	768.8	63	17.2		se.			5		7		se.	0	0	long	ssw.	
Bk. Hattie G. McFarland, Boston, Mass*†	30.11	764.8	44	6.7		ene.			4		10		ene.	0	0			threatening.
Schr. Henry Denison, N. 29° 25′, W. 75° 39′†	30.02	762.5				s.			4		3		s.	0	0	mod.	s.	fair.
Bk. Horace Scudder, N 35° 30′ W. 75° 00′*†	29.75	755.6	62	16.7		s.			1					1 h'r	1 h'r			cloudy.
Bk. Johanne, N 41° 50′, W. 31° 40′*†	30.20	767.1	65	18.3		s.			3		5		sw.	0	0	mod.	sw.	fine.
Schr. John L. Thomas, N. 11° 59′, W. 83° 11′*†	30.00	762.0				ene.			1		3		ene.	sq 'lls	sq 'lls	mod.	e.	fair.
Bkt. Josephine, Guanatamo, Cuba, W. I*†	30.14	765.5	80	26.7	74	calm			0		0			0	0			hazy.
Bk. Julia H., Havana, Cuba, W. I	29.98	761.5	77.9	25.5	86	sse.			1		1 k;ks			4 h'r	4 h'r			blue sky
Bk. Kate Cann, N. 43° 17′. W. 42° 06′*†	29.42	747.3				w.			7		8		w.	rain	rain	r'gh	w.	rain & hail.
Bkt. Kryolith, N. 60° 11′, W. 35° 20′*†	29.96	761.0				w.			6		5?		w.			mod.	w.	cloudy?
S. S. Lamperts, Suez Canal'*	29.75	755.6	88.0	31.1	35	wnw.			4		2 k							blue sky.
S S. Laurel, Saint Joseph's Bay, Fla.†	29.88	758.9	80	26.7		s.			5		9		s.	0	0			cloudy.
S. S. Malabar, N. 5° 29′, E. 81° 32′*†	29.85	758.2				var.					6		sw.					
Bg. Medina, N. 24° 20′, W. 79° 25′	30.13	765.3				se.			2		10		sse.			small	se.	cloudy.
S. S. Nebo, N. 12° 05′, W. 56° 54′*†	30.05	763.3				nne.			1		10?		nne.	0	0	mod.	nne.	clear.?
S. Paramita, S. 6° 35′ W. 33° 11′†	29.86	758.4	86	30.0		ese.			1		2		se.	0	0	cross	se.	clear.
Bk. Peppina, Bordeaux, France†	30.15	765.8	75	23.9	86	nne.			3		0							clear.
S. S. Ponca, Upper Chesapeake Bay†	29.73	755.1	59	15.0		nne.			2		10		nne.	light	light			rainy.
Bg. Potomac, N. 30° 13′, W. 69° 27′*†	30.10	764.5				sw.			3				w.			sm'h		fine.
Bk. Princessen, N. 38° 07′, W. 66° 58′†	29.84	757.8	66	18.9		se.			4		10			3 h'r	3 h'r	mod.	e.	light rain.
Bk. Rosebud, N. 39° 33′ W. 17° 00′*†	30.00	762.0	70	21.1	65	ne.			2		0			0	0	sm'h		fine.
S. Salisbury, S. 39° 06′, W. 0° 09′*	30.12	765.1	48.4	9.1	75	ese.			6–7		10		se.	6 h'r	6 h'r	r'gh	ssw.	cloudy.
Bk. Stella, S. 11° 50′, W. 99° 17′*	29.90	759.4	73.2	22.9	91	se.			3	4 c		se.		0	0	sm'h	se.	d. clouds.
Bk. Truro, N. 41° 30′, W. 44° 28′*†	29.80	756.9				sw.			5		3		wsw.	4 h'r	4 h'r	mod	w.	clearing.
U.S. F.C.S. Fish Hawk, Washington, D. C†	29.94	760.5	59	15.0	100	se.			2		10		se.	0.15	3.8			drizzling.
Yacht Vega, N. 20° 36, W. 59° 43′*†	30.28	769.1	74	23.3		e.			3				ene.	sh'rs	sh'rs	long	ene.	
S. S. Victoria J Peed, Barranquilla, U. S.C*†	29.11?	739.4?				s.			2		5							
S. Washington, N. 50° 54′, W. 1° 06′*†	30.34	770.6				wsw.			3		10			0	0	sm'h		dense fog.
Bg. Wauburn, N. 31° 02′, W. 70° 40′*†	30.00	762.0				sw.			5		4		w.	0	0	chop	nw.	
Bk. Wm. Wilcox, N. 37° 47′, W. 57° 16′*†	30.00	762.0	63	17.2		wnw.			4		2		n.	0	0	mod.	ne.	fair.
S. Wm. Woodbury, Chesapeake Bay*†	29.53	750.0	65	18.3	83	var.											nne.	cloudy.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 12, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours			30.09	764.3	68.7	20.4	78	nw.			2		1			0	0	very fair	Moiroud.
Algiers			30.11	764.7	66.6	19.2	74	nw.			2		0			inap.	inap.	clear	Nicolas.
La Calle			30.21	767.3	78.1	25.6		s.			4		3			0	0	pretty fair	Fonfrède.
Tunis			30.26	768.7															Jacques.
Saida			30.16	766.0															Dumas.
Tebessa			30.24	768.1	50.0	10.0	92	se.			1		3			0	0	pretty fair	Derché.
Geriville					77.4	25.2	35	s.			5		7			0	0	cloudy	Lonchamp.
Laghouat			30.27	768.9	68.0	20.0	67	e.			1		1			0.118	3.0	cloudy	Abraham.
Biskra			30.25	768.4	81.7	27.6	30	se.			1		5			inap.	inap.	cloudy	Malau.
Australian.																			
Melbourne, Victoria	29.79	756.6	29.88	758.9	49.1	9.5	70	nw.	10	4.5			1			0.09	2.3	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.65	753.0	30.19	766.8	64.9	18.3	47	s.			3		0			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.34	745.1	30.10	764.4	61.0	16.1	44	w.	8.7	3.9			5			0.012	0.3		Dr. Wierzbiski.
Eperies	29.23	742.4	30.10	764.5	61.0	16.1	48	s.			3	0	8 ks			0	0		Julius Mikolik.
Gratz	28.92	734.5	30.15	765.9	62.8	17.1	75	s.			2		0			0	0		Andreas Rospini.
Hermannstadt	28.73	729.8	30.17	766.2	56.8	13.8	51	nw.			3		4			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.76	730.4	30.06	763.6	66.7	19.3	52	nw.			1		0			0	0	clear	The Staff.
Lemberg	29.13	739.9	30.11	764.9	57.6	14.2	43	n.			2		7			0.035	0.9		Dr. T. Stanecki.
Pola	30.13	765.2	30.24	768.0	67.1	19.5	56	s.			2		0			0	0		I. R. Hydrographic Office.
Szathmar	29.70	754.3	30.15	765.9	59.9	15.5	38	nw.			3		0			0	0		Joseph Midlinszky, S. J.
Szegedin	29.93	760.1	30.21	767.2	61.7	16.5	65	nw.			1		4			0	0		Karl Stancel.
Trieste	30.16	766.1	30.26	768.7	67.6	19.8	54	calm			0		0			0	0		Rieder.
Vienna	29.41	747.0	30.11	764.7	67.3	19.6	42	se.			1		1			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.02	762.5	30.12	765.0	52.9	11.6	46	wnw.	26	11.6			4			0.010	0.3	squally	W. Boswell
Armagh, Observatory	30.10	764.5	30.32	770.1	55.0	12.8	55	nw.	4	1.8			3					d. clouds	S. Call.
Bidston, Liverpool Obs'y			30.31	769.9	52.9	11.6	73	wnw.	10	7.2			3					d. clouds	John Hartnup.
Bolton, Sharples	29.75	755.6	30.29	769.4	53.7	12.1	58	w.	18	8.0			0					d. clouds	Thomas Mackereth, A.S.
Bradford, Yorkshire	29.84	757.9	30.24	768.1	57.6	14.2	49	nw.			3		5			0	0	d. clouds	J. McLandsborough, F. R
Bridgetown, Barbadoes	29.99	761.7	30.02	762.5	83.0	28.3	64	ne.			2		4					d. clouds	Corpl. J. Surgenor, A. H.C.
Cardington			30.25	768.3	62.0	16.7	50	n.			0.4		1					blue sky	John McLaren.
Chatham, School M. E.	30.13	765.3	30.26	768.6	61.0	16.1	57	ne.			1		4					d. clouds	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	30.04	763.0	30.26	768.6	59.8	15.4	76	se.			1		1					d. clouds	The Staff.
Fort Napier, Natal	27.52	699.0	29.73	755.1	78.3	25.7	28	calm			0		7						Pvt. E. K. Annis, A. H.C.
Free Town, Sierra Leone	29.56	750.8	29.79	756.7	86.0	30.0	72	w.			1		5					blue sky	Sergt. John Robinson.
Gibraltar, Mediterranean	30.05	763.3	30.10	764.5	69.5	20.8	75	ne.			5		6					d. clouds	Cpl. O. Baldwin.
Glasgow, Observatory	30.02	762.5	30.22	767.6	53.7	12.1	48	wnw.			3		6					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.09	764.3	30.26	768.6	64.0	17.8	50	nne.			1		2					blue sky	The Staff.
Guernsey	29.94	760.5	30.24	768.1	58.5	14.7	84	nne.			1		0					blue sky	A. Collenette, F. M. S.
Kew, Observatory	30.23	767.8	30.27	768.8	59.4	15.2	44	ne.	9	4.0			1					blue sky	The Staff.
Leicester, Museum	30.00	762.0	30.26	768.6	59.0	15.0	44	w.			1		0					blue sky	J. O. Smith.
Malta, Mediterranean	30.11	764.8	30.18	766.6	67.0	19.4	64	ne.			2		1					blue sky	I. H. Whysall.
Nassau, Bahamas	29.96	761.0	30.01	762.2	82.0	27.8	87	sw.			3		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.76	755.9	30.29	769.4	57.5	14.2	53	w.			2		2					d. clouds	John Mac Email.
Oxford, Radcliffe Obs'y	30.05	763.3	30.28	769.1	58.9	14.9	39	nne.			2		1					blue sky	The Staff.
Plymouth	30.17	766.3	30.25	768.3	62.5	16.9	77	s.			2		7					misty	John Merrifield.
Sandwick Manse, Orkneys			30.05	763.3	48.5	9.2	77	w.	30	13.4			2					d. clouds	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.76	755.9	29.83	757.7	49.0	9.4	93	n.			3		10					raining	W. H. Lyne.
Sheffield	30.03	762.7	30.30	769.6	63.1	17.3	71	w.			1		2			0	0	d. clouds	W. F. Cooper.
Silloth Rectory	30.22	767.6	30.25	768.3	58.4	14.7	51	nw.			2		2			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.31	769.9	53.2	11.8	93	wnw.	16	7.2			7					d. clouds	J. New.
Stratfield Turgiss	30.05	763.3	30.27	768.8	63.6	17.6	52	n.			2		0					blue sky	Rev. O. H. Griffiths, F.M.S
Truro, Royal Institution	30.23	767.8	30.25	768.3	67	19.4	64	se.			2		5					d. clouds	W. Newcombe.
Valencia, Observatory	30.28	769.1	30.30	769.6	59.5	15.3	59	ese.	9	4.0			4					d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.29	769.4	30.33	770.4	39	3.9	70	n.	5	2.2		0	0			0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.32	770.1	30.38	771.6	39	3.9	33	ne.	1	0.4		0	0			0	0	clear	G. A. Blair.
Father Point, Quebec*	30.30	771.1	30.39	771.9	37	2.8	72	ne.	5	2.2		0	0			0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.54	750.3	30.39	771.9	39	3.9	65	e.	10	4.5		0	0			0	0	clear	James Stewart.
Halifax, N. S*	30.15	765.8	30.29	769.4	43	6.1	68	n.	8	3.6		5 c	0			0	0	fair	A. Allison.
Kingston, Ontario*	29.74	755.4	30.08	764.0	44	6.7	68	ne.	11	4.9			10 ks		se.	0.63	16.0	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.99	761.7	30.20	767.1	47	8.3	63	e.	6	2.7		0	0			0.02	0.5	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.34	745.2	30.04	763.0	44	6.7	76	ne.	22	9.8			10 n		e.	0.09	2.3	cloudy	Rev. R. Mosley.
Port Dover, Ontario	29.15	740.4	29.85	758.2	41	5.0	100	ne.	10	4.5			10 n		e.	0.43	10.9	light rain	H. Morgan.
Port Stanley, Ontario	29.14	740.1	29.79	756.7	43	6.1	93	e.	16	7.2			10 n		e.	0.56	14.2	cloudy	M. Payne.
Quebec, Quebec*	29.99	761.7	30.32	770.1	41	5.0	76	ne.			5	0	2 s		ne.	0	0	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.69	754.1	30.15	765.8	46	7.8	47	ne.	12	5.4			10 ks		s.	0.03	0.8	cloudy	W. H. McIntyre.
Saugeen, Ontario*	29.18	741.2	29.91	759.7	40	4.4	89	ne.	32	14.3			10 s			0.11	2.8	heavy rain	
St. Andrews, N. B	30.25	768.3	30.31	769.9	38	3.3	62	ne.	2	0.9		0	0			0	0	clear	
Sydney, C. B*	30.22	767.6	30.28	769.1	37	2.8	64	n.	14	6.3		0	0			0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.61	752.1	30.01	762.2	40	4.4	89	e.	28	12.5			10 n			0.92	23.4	heavy rain	Magnetic Observatory.
Yarmouth, N. S*	30.17	766.3	30.24	768.1	43	6.1	63	e.	6	2.7		3 cs	0	w.		0	0	fair	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.86	758.4	30.12	765.0	35	1.7	100	nw.	4	1.8			10			0.10	2.5		John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	29.98	761.5	30.02	762.2	67.0	19.4	73	w.	13.0	5.8		0	9 k			0.02	0.5	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	29.99	761.7	30.03	762.7	63.8	17.7	77	s.	29	13.0		10	9			0	0		The Staff, for D. Gill.

STATIONS	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observer.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
CHINESE (*Sub-series*).																			
Hankow	29.72	754.9	29.99	761.7	75.7	24.3	85	calm			0		0			0	0		N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.74	755.4	29.76	756.0	66.7	19.3	95	wsw.	4.9	2.2			10 n			0.390	9.9	raining	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.67	753.5	29.71	754.7	52.0	11.1	53	wnw.	38	17			7						Oversergent Fischer.
Fanöe	29.93	760.2	29.95	760.7	50.2	10.1	74	wnw.			7		8						Overloerer Lauridsen.
Godthaab, Greenland	29.80	756.8	29.84	757.9	30.6	— 0.8	85	n.			3		10			0	0		S. Kleinschmidt.
Stykkisholm, Iceland	30.04	763.1	30.09	764.2	23.7	— 4.6	86	calm			0		5						A. O. Thorlacius.
Thorshavn	29.95	760.6	29.98	761.5	40.1	4.5	78	n.	9	4			7						Overloerer Bergh.
Vestervig	29.68	753.9	29.77	756.2	48.2	9.0	72	wnw.			8		1						Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.55	750.6	30.18	766.5	75.6	24.2	69	s.			1	ck	0	w.		0	0		M. Labroue, Director.
Alençon, Normal School	29.68	753.9	30.23	767.9	66.9	19.4	70	n.			1					0	0		M. Nicot, Director.
Arras, Engineer School	29.97	761.3	30.23	767.8	62.1	16.7	68	sw.			4	c	0			0	0		M. Fénéon, Command't.
Avignon, Normal School	30.16	766.0	30.24	768.0	75.2	24	53	n.			2		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.61	752.2	30.15	765.8	73.4	23.0	40	e.			1		0			0	0	clear	M. Saillard, Director.
Beauvais, Normal School	29.94	760.5	30.20	767.1	67.1	19.5	57	e.			2		5		e.	0	0	cloudy	M. Frère Eugène Marl.
Besançon, Normal School	29.22	742.1	30.09	764.2	73.0	22.8	58	ne.			1		0			0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.82	757.3	30.07	763.7	76.8	24.9	39	se.			1		5			0	0	cloudy	M. Rayet, Director.
Bourges, Normal School	29.64	752.8	30.17	766.2	79.7	26.5	30	ne.			1	c	0	ne.		0	0		M. Postel, Director.
Brest, Naval Observatory	29.93	760.1	30.17	766.3	67.6	19.8	67	ne.			2		1		ne.	0	0		M. de Kermaree, Dir.
Caen, Normal School	30.20	767.0	30.27	768.9	62.2	16.8	80	n.			3		0			0	0	clear	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.80	757.0	30.07	763.8	75.2	24.0	53	calm			0		0			0	0	clear	M. Jadot, Director.
Charleville, Normal School	29.67	753.6	30.17	766.4	72.3	22.4	51	w.			1		2			0	0	¼ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.78	731.1	30.08	763.9	79.2	26.2	45	n.			1	0	2 k			0	0	¼ covered	M. Allnard, Director.
Cluny, Normal School	29.22	742.3	30.06	763.4	76.6	24.8	49	se.			1		0			0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.32	744.8	30.18	766.6	74.3	23.5	32	n.			1	1	1	n.	n.	0	0	clear	Dr. Coulet, Director.
Gap, Normal School	27.66	702.5	30.12	765.0	72.9	22.7	26	s.			4	1 c	0	n.		0	0		M. Jeangirard, Director.
Gréasque, du Rhone	29.12	739.6	30.22	767.5	70.9	21.6	40	sw.			2		4		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.36	745.7	30.10	764.5	73.8	23.2	47	nnw.			3	c	0			0	0		M. Ablard, Director.
Guéret, Normal School	28.58	725.8	30.14	765.6	77.0	25	16	e.			1	2 c	0	e.		0	0	slightly cl'dy	M. Rivoire, Director.
Lamballe, Normal School	29.92	760.0	30.19	766.8	68.9	20.5	62	ne.			1		1		ne.	0	0	clear	M. Ollitrault, Director.
Lescar, Normal School	29.50	749.2	30.04	762.9	84.2	29	46	ne.			3	1 c	0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.06	763.4	30.16	766.0	76.6	24.8	54	e.			2		2		calm	0	0	¼ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.10	739.1	30.12	765.1	79.9	26.6	27	s.			1	2 c	0	wsw.		0	0	clear	M. André, Director.
Mans, Normal School	29.89	759.2	30.19	766.8	70.7	21.5	54	ne.			1		0			0	0	clear	M. Piboen, Director.
Marseille, Observatory	29.97	761.2	30.24	768.0	72.1	22.3	56	sw.			1		7		sw.	0	0		M. Stephan, Director.
Montlouis l'Instituteur	25.01	635.3	29.85	758.3	62.6	17.0	46	w.	9.4	4.2			8			0	0		M. Cave, for Dr. Flues.
Montpellier, Normal School	30.10	764.5	30.22	767.7	67.6	19.8	74	se.			2		5		se.	0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	29.39	746.5	30.15	765.9	71.6	22.0	43	wnw.			1					0	0		M. Hasse, Director
Nantes, Observatory	30.00	762.0	30.16	766.1	78.3	25.7	47	ene.			1-2	2 ck	0			0	0		M. Larocque, Director.
Perpignan, Observatory	30.09	764.3	30.20	767.0	65.1	18.4	65	se.	7.4	3.3			10	sw.	sw.	0	0		Dr. Flues, Director.
Pic-du-Midi, Summit	21.49	545.8			47.8	8.8		s.			1	1	1	ne.	s.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.14	740.2	30.21	767.4	74.8	23.8	29						0			0	0	clear	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.36	644.2			59.5	15.3	73	se.			2	c	5 k			0	0	½ covered	M. Allnard, Director.
Rochefort, Naval Obs'y	30.08	764.0	30.11	764.8	80.2	26.8	100	e.			1		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.89	759.2	30.10	764.4	80.6	27	44	e.			4		0			0	0	clear	M. Mouillot, Director.
Rodez, Normal School	28.03	712.0	30.13	765.2	70.5	21.4	44	e.			1		0			0	0	clear	M. Serger, Director.
Rouen, Normal School	30.22	767.7	30.27	768.9	66.9	19.4	66	n.			1		5			0	0	cloudy	M. Brotier.
Saint Maur, Observatory	30.03	762.8	30.20	767.0	72.1	22.3	52	nw.			1		0			0	0		M. Renou, Director.
Toulouse, Observatory	29.44	747.7	30.17	766.2	70.3	21.3	58	sse.			3		5	w.		0	0	cloudy	M. Bailland, Director.
Tours	29.97	761.2	30.15	765.7	77.4	25.2	44	ene.			1		0			0	0	clear	
Versailles, Observatory	29.71	754.6	30.20	767.0	69.8	21.0	50	n.			1		0			0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.92	759.9	30.21	767.3	70.3	21.3	54	nne.			1		1		nnw.	0	0		M. Marié Davy, Director
GERMAN.																			
Bamberg																			Prof. Dr. Hoh.
Berlin	29.80	756.9	29.98	761.4	57.4	14.1	79	n.			6		10			0.008	0.2		Prof. Dr. Arndt.
Breslau	29.53	750.1	30.06	763.6	61.9	16.6	41	ssw.			2		1			0.031	0.8		Royal University Obs'y.
Carlsruhe	29.71	754.7	30.15	765.7	69.1	20.6	46	s.			1		0			0	0		Albert Senz.
Cassel	29.38	746.3	30.10	764.5	61.5	16.4	72	w.			5		8	w.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.75	755.7	30.11	764.8	69.6	20.9	48	nw.			1		5			0	0		Physical Society.
Friedrichshafen	28.74	730.0	30.16	766.0	63.0	17.2	73	s.			2		1	w.		0	0		Wilhelm, Chief Tel.
Hamburg	29.98	761.4	30.07	763.8	53.1	11.7	64	nw.			7		7			0.008	0.2		E. Preller.
Kiel	29.97	761.1	29.98	761.5	52.2	11.2	59	w.			6		8			0.035	0.9		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.62	752.4	30.03	762.8	66.9	19.4	43	wsw.			5		4			0	0		H. Leppig, Asst.
Magdeburg	29.85	758.2	30.04	763.0	60.1	15.6	76	wnw.			5	0	7 ks		w.	0.012	0.3		Dr. Assmann.
Memel	29.84	758.0	29.89	759.2	54.7	12.6	55	ssw.			2	8 cs	0						Issermann.
Munich	28.32	719.4	30.20	767.0	70.0	21.1	38	nw.			2		2	sw.		0	0		Central Station.
Neufahrwasser	29.83	757.7	29.85	758.1	63.0	17.2	40	sw.			7		8			0.047	1.2		A. Lothes.
Neustadt, Palatinate	29.62	752.3	30.15	765.7	70.7	21.5	48	ne.			2		3	w.		0	0		Dicknether.
Stuttgart	29.21	741.9	30.08	764.0	68.9	20.5	37	nw.					0			0	0		Prof. Dr. Schoder.
Wustrow	29.92	760.0	29.95	760.6	51.3	10.7	70	wnw.			5		10 8			0.087	2.2		Profs. Brandes & Reimer
GREEK.																			
Athens	29.66	753.4			54.5	12.5		ne.			5.0		10			0.181	4.6	covered	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.72	755.0	29.77	756.2	86.3	30.2	79	wsw.	32.0	14.3			0			0	0	misty	
Deesa	29.21	741.9	29.66	753.3	106.7	41.5	29	wsw.	10.7	4.8			0			0	0	blue sky	
Bombay	29.81	757.2	29.85	758.1	85.5	29.7	71	wnw.	15.0	6.7			1	nw.		0	0	d. clouds	
Poona, Yarrowda	27.93	709.4	29.73	755.2	93.3	34.1	40	w.	30.0	13.4			7	w.	w.	0	0	dust-whirl	
Bellary	28.27	718.0	29.69	754.1	95.2	35.1	25	se.	6.8	3.0			4			0	0	d. clouds	
Belgaum	27.28	692.8	29.78	756.4	82.1	27.8	66	sw.	13.0	5.8			2	e.		0	0	misty	
Lahore	28.98	736.1	29.70	754.5	92.1	33.4	33	e.	4.6	2.1			10			0	0	misty	
Roorkee	28.89	733.7	29.77	756.1	89.2	31.8	35	sw.	5.6	2.5			6			0	0		
Agra	29.16	740.8	29.72	754.8	92.1	33.4	37	e.	9.1	4.1			0			0	0		
Nagpur	28.65	727.7	29.65	753.1	100.9	38.3	23	ne.	5.6	2.5			9		w.	0	0	d. clouds	
Jubbulpore	28.35	720.1	29.65	753.2	100.1	37.8	19	n.	3.9	1.7			0			0	0	blue sky	
Lucknow	29.40	746.7	29.77	756.1	87.6	30.9	44	ese.	2.9	1.3			3	e.		0	0	d. clouds	
Allahabad	29.42	747.4	29.73	755.1	92.2	33.4	33	ne.	5.2	2.3			0			0	0	blue sky	
Patna	29.62	752.2	29.80	757.0	79.3	26.3	68	e.	8.2	3.7			4	e.	e.	0.03	0.8	d. clouds	
Hazaribagh	27.74	704.7	29.76	755.8	75.6	24.2	62	ese.	6.1	2.7			0			0.55	14.0	thund'r st'm	
Cuttack	29.69	754.1	29.77	756.2	75.0	23.9	84	se.	3.3	1.5			10			0.97	24.6	squally	
Calcutta, Alipore	29.77	756.2	29.79	756.8	70.7	21.5	90	e.	10.0	4.5			10		sw.	0.77	19.6	drizzling	
Dhubri	29.73	755.2	29.85	758.2	73.1	22.8	77	e.	10.0	4.5			6		wsw.	0.78	19.8	d. clouds	
Chittagong	29.72	754.9	29.81	757.2	78.7	25.9	77	se.	2.7	1.2			2			0	0	blue sky	
Sibsagar	29.52	749.9	29.86	758.5	76.6	24.8	90	sw.	2.4	1.1			10	w.	w.	0.06	1.5	d. clouds	
Jeypore	28.28	718.2	29.66	753.2	102.4	39.1	18	w.	10.5	4.7			5		w.	0	0	d. clouds	
Zanzibar, Africa	29.96	761.0			83.2	28.4	72	s.	4.1	1.8			4		sse.	0.46	11.7	d. clouds	
ITALIAN.																			
Udine	29.84	757.8	30.24	768.1	65.7	18.7	63	w.	1.3	0.6			8			0	0		Prof. Giovanni Clodig.
Milan	29.72	754.9	30.23	767.9	70.2	21.2	39	w.	4.3	1.9			2			0	0		Prof. Schiaparelli.
Padua	30.04	763.1	30.15	765.9	69.1	20.6	80	sse.	4.3	1.9			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.32	744.7	30.22	767.6	68.9	20.5	39	nw.	2.5	1.1			5	e.		0	0		Prof. P. F. Denza.
Genoa	30.07	763.8	30.26	768.7	66.2	19.0	59	sw.	3.1	1.4			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.31	719.1	30.24	768.1	65.1	18.4	57	se.			4		5	sse.		0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
ITALIAN.—Continued.																			
Pesaro	30.17	766.3	30.22	767.5	66.0	18.9	63	se.	6.3	2.8			0			0	0		Prof. Luigi Guidi.
Florence	29.98	761.4	30.23	767.8	72.5	22.5	34	w.			2		0			0	0		Prof. Costantino Pitter.
Leghorn	30.11	764.8	30.20	767.0	70.5	21.4	55	s.	0.7	0.3			0			0	0		Prof. P. Monte.
Rome	30.08	763.9	30.25	768.3	73.0	22.8	29	wsw.	21.7	9.7			0			0	0		Prof. P. S. Ferrari.
Lecce	29.91	759.8	30.16	766.1	65.8	18.8	38	nnw.	28.6	12.8			0			0	0		Prof. C. de Giorgi.
Cosenza	29.28	743.8	30.16	766.0	66.9	19.4	76	nnw.	6.9	3.1			0			0	0		Prof. D. Conti.
Cagliari	30.01	762.3	30.20	767.1	69.6	20.9	60	se.			4		5			0	0		Prof. A. Pacinotti.
Palermo	29.99	761.7	30.24	768.0	66.2	19.0	40	ne.	8.1	3.6			0			0	0		Prof. G. Ciaccatore.
Syracuse	30.10	764.4	30.14	765.5	70.7	21.5	49	ssw.	18.6	8.3			0			0	0		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.69	754.0	30.20	767.1	71.1	21.7	40	n.	4.9	2.2			0			0	0		Prof. T. Brioschi.
Stelvio	22.38	568.3			44.6	7.0	35	sw.			1		0			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.43	569.8			48.9	9.4	71	n.			2		1			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.93	760.2	29.96	761.0	49.0	9.4	87	calm	0	0			10 ks			0.043	1.1	overcast	K. Ogawa.
Hakodate	29.92	759.9	29.93	760.2	45.0	7.2	92	calm	0	0		0	0			0	0	clear	
Hiroshima, I. M. Obs'y	29.84	757.9	29.85	758.2	65.0	18.3	70	sw.	1.9	0.8		cs	8 s			0	0	cloudy	J. Sogawa.
Kanazawa	29.75	755.6	29.85	758.2	63.3	17.4	64	se.	6.3	2.8		ck	8 s			0	0	cloudy	S. Endo.
Kioto	29.75	755.6	29.92	759.9	57.9	14.4	73	nnw.	2.6	1.2		0	2 s			0	0	clear	M. Tojima.
Kochi	29.94	760.5	29.96	761.0	67.4	19.7	80	n.	2.8	1.3			10ks;s		s.	0.106	2.7	cloudy	K. Kusunose.
Nagasaki, I. M. Obs'y	29.68	753.9	29.87	758.7	68.6	20.3	66	sw.	2.8	1.3			10 s			0.280	7.1	overcast	S. Takehayashi.
Niigata	29.85	758.2	29.88	758.9	59.5	15.3	80	ne	3.2	1.4		7 ck	0	w.		0	0	cloudy	M. Morita.
Nobiru	29.97	761.2	29.98	761.5	53.4	11.9	80	e.	13.5	6.0			10 s			0	0	covered	H. Midzushina.
Supporo					49.0	9.4	90	ne.	4.2	1.9			8			0	0	overcast	
Tokei Obs'y, Yeddo	29.92	759.9	29.99	761.7	61.3	16.3	84	s.	9.7	4.3		0	0			0	0	clear	The Staff.
Wakayama	29.86	758.4	29.91	759.7	67.6	19.8	53	sse.	5.8	2.6			10 s			0	0	cloudy	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.98	761.5	30.16	766.1	78.9	26.1	71	ese.	19.5	8.7		2 cs	3 k		ese.	0.02	0.5	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.69	601.8	29.91	759.8	57.9?	15.4?	59	sw.				0	1 s			0.016	0.4	foggy	Prof. Vicente Fernandez.
Leon	24.30	617.2	29.93	760.2	60.1	15.6	79	n.			1	5 c	0			inap.	inap.	dense fog	Prof. M. Leal.
Mazatlan	29.67	753.7	29.93	760.3	68.5	20.3	95	e.	1.6	0.8		1 cs	1 k	w.	n.			clear	F. Quijano, C. E.
Mexico, Central Obs'y	23.15	587.9	30.18	766.5	54.5	12.5	75	sw.	0.4	0.2		0	3 s			inap.	inap.	foggy	The Staff.
Morelia	24.08	611.6	30.09	764.4	62.6	17.0	77	se.			3	2	2	s.	ese.	inap.	inap.	½ clouded	M. Tena, M. D.
Pabellon, Aguascalientes	23.96	608.7	29.94	760.4	61.3	16.3	74	calm			0	3 c	0			0	0	foggy	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.38	593.8	30.07	763.8	57.0	13.9	85	calm	0	0		0	1		nw.	0.091	2.3	clear	Prof. P. Spina.
San Luis Potosi	24.20	614.6	30.14	765.6	62.3	16.8	61	se.			1	5	0	w.		0	0	½ clouded	G. Barroeta, M. D.
Zacatecas	22.53	572.3	30.06	763.6	59.1	15.1	54	s.	7.1	3.2		0	3 s		w.	0	0	½ clouded	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.28	769.0	30.28	769.0	56.7	13.7		n.			4					0	0		
Groningen	30.13	765.4	30.19	766.8	52.7	11.5		nw.			4					0	0		
Helder	30.22	767.6	30.22	767.6	49.8	9.9		nw.			4					0	0		
Hellevoetsluis	30.26	768.5	30.26	768.5	58.6	14.8	66	n.			1					0	0		
Utrecht	30.20	767.0	30.24	768.2	57.7	14.3	55	nnw.			2		2			0	0	lightly cl'dy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.65	753.0	29.71	754.6	41.9	5.5	69	nnw.	29	13			9			0.146	3.7		
Brono	29.59	751.5	29.63	752.5	46.0	7.8	72	n.	4	2			10			0.276	7.0		
Christiania	29.21	741.9	29.35	745.6	41.9	5.5	88	n.	20	9			10			0.409	10.4	raining	
Gjæsvær	29.74	755.4	29.76	756.0	44.8	7.1		sse.			7		7						
Lodingen	29.60	751.8	29.65	753.0	46.6	8.1	52	s.			4		8			0	0		
PORTUGUESE.																			
Angra, Azores					61.0	16.1	64	sse.	8.1	3.6			2			0	0		Dr. J. A. Sampaio.
Campo Major	29.09	738.9	30.06	763.4	77.5	25.3	33	ssw.	0.7	0.3			3			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.00	761.9	30.08	764.1	66.9	19.4	58	sw.					10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.76	756.0	30.12	765.0	67.8	19.9	64	ssw.	9.8	4.4			3			0	0		The Staff.
Ponta Delgada, Azores	30.04	762.9	30.11	764.7	68.7	20.4	46	ssw.	2.5	1.1			4			0	0		
Saint Paul de Loando	29.74	755.3	29.96	760.4	78.8	26.0	89	sw.	0.7	0.3			9			0	0		
Serra da Estrella	25.39	644.9	30.04	763.1	57.6	14.2	60	s.	16.1	7.2			4			0	0		
RUSSIAN.																			
Akmolinski	28.74	730.0	29.76	756.0	74.5	23.6	29	wsw.	7	3		1 c	0			0	0		Major K. Lasarew.
Archangel	29.94	760.5	29.96	761.0	41.5	5.3	50	ene.	13	6			10			0	0		Capt. Sseliwerstow.
Astrakhan	30.06	763.6	29.98	761.5	77.9	25.5	40	ssw.	7	3		0	1 k			0	0		Capt. Wisganow.
Barnaul	29.51	749.5	30.01	762.2	49.5	9.7	57	ne.	4	2			10			0.020	0.5		Meteorological Obs'y.
Dorpat	29.64	752.9	29.88	759.0	56.1	13.4	51	ssw.	9	4		0	2 k			0.217	5.5		Observatory.
Ekaterinburg	29.19	741.3	30.18	766.6	37.0	2.8	91	se.	4	2			10			0	0		Meteorological Obs'y.
Kasan	29.57	751.0	29.83	757.6	70.5	21.4	56	sse.	2	1			10			0.232	5.9		Observatory.
Kertch	29.80	756.8	29.82	757.3	61.7	16.5	86	nnw.	13	6		0	7 n			0	0		Lagorio & Sastyrex.
Kieff	29.42	747.2	30.05	763.3	54.9	12.7	30	wnw.	7	3		ck;cs	5 ks			0	0		Observatory.
Lugan	29.58	751.4	29.78	756.4	77.5	25.3	37	sw.	9	4			9			0	0		Meteorological Obs'y
Moscow	29.33	744.9	29.81	757.1	43.3	6.3	56	ssw.	7.8	3.5			8 ks						Meteorological Obs'y.
Nikolaiev	30.00	762.1	30.08	763.9	52.2	11.2	54	nne.	18	8			10 n			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor.	29.63	752.5	29.71	754.7	41.2	5.1	78	e.	7	3			10			0.016	0.4		Lieut. Iwanow.
Pekin, China	29.72	754.9	29.86	758.5	70.7	21.5	32	ne.	4	2		0	2 k			0	0		Physical Observatory
St. Petersburg	29.85	758.3	29.87	758.7	46.4	8.0	45	wnw.	9	4		0	4 k;ks			0.012	0.3		Central Physical Obs'y.
Semipalatinsk	29.19	741.5	29.82	757.4	72.3	22.4	41	calm	0	0		3 c	0			0	0	hv'y clouds	Major Lasareu.
Tashkend, Laboratory	28.42	721.9	29.93	760.3	73.9	23.3	57	nnw.	7	3			5			0.417	10.6	light clouds	Teich, A. M.
Tiflis	28.52	724.5	29.88	758.9	76.5	24.7	52	s.	4	2		1 ck	0			0	0		Physical Observatory
Vladivostock	29.71	754.7	29.78	756.4	48.2	9.0	88	calm	0	0		0	8 n			0	0		
Warsaw	29.64	752.8	30.06	763.4	59.7	15.4	42	sw.	13	6			10 ks						Astronomical Obs'y.
Wilna	29.60	751.8	30.02	762.4	55.8	13.2	51	sw.	2	1			7			0.063	1.6	light clouds	Berg, Assistant.
Yeniseisk	29.86	758.5	30.16	766.0	36.7	2.6	58	w.	9	4			10			0.004	0.1		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	30.09	764.2	30.19	766.8	69.8	21.	47	se.	3.1	1.4			0			0	0	clear	Antonio, Rave, Director.
Bilbao, Met. Obs'y	30.00	762.1	30.06	763.6	79.5	26.4	34	w.	1.3	0.6		1	0	w.		0	0	almost clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.16	689.9	29.99	761.7	70.6	24.8	39	ne.	2.5	1.1			0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.88	708.2	29.99	761.8	82.9	28.3	23	e.	6.3	2.8		2	0			0	0	light clouds	The Staff.
Murcia, Met. Obs'y	29.98	761.5	30.12	765.0	70.5	24.7	44	ene.	4.9	2.2		4	4	sw.		0	0	cloudy	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.15	740.5	30.02	762.5	73.9	23.3	51	calm	0	0			9			0	0	almost cov'd	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	29.88	759.0	29.95	760.7	80.6	27.0	79	sse.	2.2	1.5		3 c;cs	1 k	w.	sw.	0.079	2.0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.89	759.1	29.94	760.5	83.8	28.8	74	se.	4.4	2.0		5 c	2 ck		e.	0.118	3.0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.02	762.6	30.12	765.0	75.0	23.9	47	ese.	4.0	1.8		0	3		se.	0	0		Capt. C. Pajazon, R. N.
San Juan de Porto Rico, W. I	29.97	761.2	30.06	763.5	78.4	25.8	89	calm	0	0		6 cs	3 k	e.	e.	0	0	d. clouds	Manuel Maese.
Tuguegarao, Philippine Id's	29.79	756.7	29.92	760.0	83.2	28.4	75	nw.	6.0	2.7		0	4 k		w.	0	0	cloudy	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.87	758.6	29.91	759.6	45.3	7.4	48	s.			4		8			0	0		
Umea	29.70	754.3	29.75	755.6	35.6	2.0	93	e.			2		10			0.461	11.7		
Hernosand	29.56	750.7	29.61	752.0	39.9	4.4	90	n.			2		10			0.098	2.5		
Stockholm	29.28	743.7	29.46	748.2	43.9	6.6	90	s.			6		10			0.008	0.2	raining	
Wisby	29.52	749.8	29.58	751.3	47.1	8.4	84	w.			7		10			0.028	0.7	raining	
Sub-series.																			
Upsala	29.31	744.5	29.40	746.7	43.2	6.2	96	se.	15.7	7.0			10		sse.	0.559	14.2	raining	S. G. Fineman.
SWISS.																			
Geneva	28.75	730.2	30.13	765.4	67.5	19.7	57	n.			2					0	0	clear	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
TURKISH.																			
Constantinople			29.98	761.4	48.6	9.2	89	n.	17	7.5			10		n.	0.409	10.4	raining	The Observatory.
Valona			30.15	765.9	68.4	20.2		nw.			4		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.85	758.2	77.2	25.1	68	sw.			2	0	3 k		sw.	0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.01	762.2	30.09	764.3	48.2	9.0	63	w.	1	0.4			10 n			0.09	2.3	light rain	J. O. Barnes.
Alpena, Michigan	29.32	744.7	29.98	761.5	39	3.9	89	e.	22	9.8			10 n			0.31	7.9	light rain	Jas. J. Fitzgerald.
Atlanta, Georgia	28.60	726.4	29.77	756.1	64.0	17.8	73	w.	7	3.1		0	0			0.60	15.2	clear	H. Hall.
Atlantic City, New Jersey	29.79	756.7	29.80	756.9	45.8	7.7	96	ne.	40	17.9			10 n		ne.	0.95	24.1	light rain	Jas. M. Watson.
Augusta, Georgia	29.58	751.3	29.77	756.1	64	17.8	84	sw.	2	0.9		0	0			1.10	27.9	clear	John Healy.
Baltimore, Maryland	29.83	757.7	29.88	758.9	46	7.8	93	ne.	6	2.7			10n;fog		ne.	0.69	17.5	light rain	Robert Seyboth.
Barnegat, New Jersey	29.84	757.9	29.86	758.4	43.9	6.6	100	e.	35	15.6			10 n		e.	1.66	42.2	light rain	Chas. F. Merritt.
Bismarck, Dakota	28.47	723.1	30.25	768.3	38	3.3	82	calm	0	0		0	0			0	0	clear	Cyrus Cramer.
Boise City, Idaho	26.82	681.2	29.66	753.4	49	9.4	71	calm	0	0		0	4 s		w.	0	0	fair	B. E. Light.
Boston, Massachusetts	30.02	762.5	30.18	766.6	41.0	5.0	73	ne.	25	11.2			10 n		ne.	0.12	3.0	light rain	O. B. Cole.
Brownsville, Texas	29.90	759.4	29.94	760.5	78	25.6	64	e.	4	1.8		0	0			0	0	clear	M. McCarty.
Buffalo, New York	29.16	740.7	29.90	759.4	40.8	4.9	94	ne.	6	2.7			10 n		ne.	0.58	14.7	heavy rain	Wm. Finn.
Burlington, Vermont	29.87	758.7	30.16	766.1	48.3	9.1	39	e.	5	2.2		7 cs	0	w.		0.03	0.8	fair	G. C. Schaeffer.
Cairo, Illinois	29.38	746.2	29.78	756.4	52.6	11.4	82	nw.	20	8.9			10 ks		w.	0.07	1.8	threatening	W. H. Ray.
Campo, California	27.35	694.7	29.88	758.9	34	1.1	81	s.	3	1.3		0	0			0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.12	688.8	29.79	756.7	49.5	9.7	67	s.			1	0	0			0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	29.71	754.6	29.73	755.1	54	12.2	93	nw.	23	10.3			10s;fg			1.45	36.8	cloudy	J. E. Lamouette.
Cape May, New Jersey	29.73	755.1	29.76	755.9	47	8.3	100	e.	32	14.3			10 n		e.	0.53	13.5	light rain	W. Bolten.
Cedar Keys, Florida	29.82	757.4	29.84	757.9	77	25.0	56	w.	7	3.1		0	2 k			0.15	3.8	clear	F. W. Mixer.
Champaign, Illinois	28.78	731.0	29.58	751.3	50.3	10.2	93	ne.	11	4.9			10 n		ne.	0.28	7.1	light rain	L. A. Welsh.
Charleston, S. Carolina	29.68	753.9	29.73	755.1	70	21.1	84	w.	9	4.0		0	0			0.07	1.8	clear	J. H. Smith.
Charlotte, N. Carolina	28.87	733.3	29.71	754.6	58.0	14.4	93	n.	5	2.2			fg.			0.24	6.1	dense fog	D. O'Donoghue.
Chattanooga, Tennessee	28.93	734.8	29.74	755.4	62.0	16.7	78	sw.	4	1.8		4 ck	5 ks	sw.	sw.	0.11	2.8	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.13	612.9	30.00	762.0	35.4	1.9	81	se.	8	3.6			10 s			0	0	cloudy	E. McGovern.
Chicago, Illinois	29.03	737.3	29.73	755.1	42.7	5.9	94	ne.	12	5.4			10 s		ne.	0.05	1.3	cloudy	J. Mitchell.
Chincoteague, Virginia	29.71	754.6	29.73	755.1	50	10.0	100	n.	17	7.6			10 n			0.41	10.4	light rain	V. P. Temple.
Cincinnati, Ohio	29.02	737.1	29.67	753.6	56	13.3	83	ne.	3	1.3			10 s		e.	0.42	10.7	cloudy	R. B. Watkins.
Cleveland, Ohio	28.97	735.8	29.70	754.4	47	8.3	84	se.	10	4.5			10 n			0.80	20.3	light rain	J. B. Newlin.
Coleman City, Texas	28.24	717.3	30.03	762.7	54	12.2	80	ne.	12	5.4		0	0			0	0	clear	L. Dorman.
Columbus, Ohio	28.83	732.3	29.67	753.6	50	10.0	77	nw.	4	1.8			10 ks		w.	0.31	7.9	cloudy	D. Cuthbertson.
Concho, Texas	28.10	713.7	30.00	762.0	57	13.9	69	ne.	14	6.3		0	0			0	0	clear	W. W. McConihe.
Davenport, Iowa	29.09	738.9	29.73	755.1	43	6.1	93	ne.	12	5.4			10 n		ne.	0.83	21.1	light rain	R. R. Martin.
Dayton, Washington T'y	28.14	714.7	29.89	759.2	43.7	6.5	90	calm	0	0		0	7 s		sw.	0	0	fair	H. Clifford.
Deadwood, Dakota	25.54	648.7	30.05	763.3	32	0.0	92	e.	2	0.9		0	0			0.08	2.0	clear	G. W. Scott.
Decatur, Texas					50	10.0	52	n.	10	4.5		2 ck	0	n.		0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	29.75	755.6	29.77	756.1	48	8.9	100	ne.	36	16.1			10n;fog		ne.	0.11	2.8	light rain	A. Schneider.
Denison, Texas	29.27	743.4	30.06	763.5	50.0	10.0	72	nw.	6	2.7		0	0			0	0	clear	J. McGlone.
Denver, Colorado	24.83	630.7	29.99	761.7	43.0	6.1	76	ne.	8	3.6			10 s		n.	0	0	cloudy	F. M. Neal.
Des Moines, Iowa	29.00	736.6	29.89	759.2	40	4.4	89	ne.	12	5.4			10 n		ne	0.26	6.6	light rain	F. W. Conrad.
Detroit, Michigan	29.03	737.3	29.73	755.1	47.0	8.3	93	ne.	19	8.5			10 n		e.	0.48	12.2	light rain	C. F. R. Wappenhans.
Dodge City, Kansas	27.52	699.0	30.07	763.8	41	5.0	76	n.	13	5.8		0	7 s		nw.	0	0	fair	E. A. Thomas.
Dubuque, Iowa	29.10	739.1	29.80	756.9	42.2	5.7	83	ne.	14	6.3			10 n		calm	0.83	21.1	light rain	J. Harvey Smith.
Duluth, Minnesota	29.52	749.8	30.22	767.6	43	6.1	60	ne.	13	5.8		2 ck	0	ne.		0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.16	740.7	29.96	761.0	67.0	19.4	51	se.	2	0.9		0	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.17	639.3	29.85	758.2	46	7.8	58	s.	5	2.2		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	30.25	768.3	30.32	770.1	40	4.4	57	ne.	16	7.2		1 c	0			0	0	clear	J. H. Melton.
El Paso, Texas	26.17	664.7	29.81	757.2	51	10.6	55	nw.	2	0.9		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.08	738.6	29.80	756.9	46	7.8	83	e.	9	4.0			10 n		e.	0.50	12.7	light rain	R. H. Paxton.
Escanaba, Michigan	29.35	745.5	30.01	762.2	45	7.2	76	ne.	6	2.7			10 s		ne.	inap.	inap.	cloudy	C. Dill.
Fort Apache, Arizona	25.06	636.5	29.88	758.9	30	2.2	66	e.	3	1.3		0	0			0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.12	688.8	29.96	761.0	54	12.2	45	e.	12	5.4		1 c	0			0	0	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.60	726.4	30.16	766.1	40.0	4.4	73	nw.	4	1.8		0	0			0	0	clear	A. Pritchard.
Fort Benton, Montana	27.11	688.6	29.90	759.4	51	10.6	74	ne.	20	8.9		1 c	0			0	0	clear	G. W. Davis.
Fort Buford, Dakota	28.30	718.8	30.28	769.1	38	3.3	64	e.	4	1.8		0	0			0	0	clear	A. H. Bell.
Fort Custer, Montana	26.89	683.0	29.99	761.7	45	7.2	93	e.	4	1.8		0	0			0	0	clear	V. Verge.
Fort Davis, Texas	25.11	637.8	29.83	757.7	52	11.1	43	nw.	4	1.8		0	0			0	0	clear	J. Williams.
Fort Elliott, Texas	27.32	693.9	30.02	762.5	40	4.4	50	nw.	4	1.8		7 k	0	nw.		0	0	fair	W. J. Oundall.
Fort Gibson, Indian T'y	29.45	748.0	30.01	762.2	48.0	8.9	77	nw.	8	3.6		0	0			0	0	clear	J. B. Campbell.
Fort Grant, Arizona	25.20	640.1	29.81	757.2	59.9	15.5	28	se.	6	2.7		0	0			0	0	clear	T. J. Macgowan.
Fort Keogh, Montana	27.65	702.3	30.10	764.5	41	5.0	76	se.	15	6.7		4 c	0			0	0	fair	W. B. Stockman.
Fort Macon, North Carolina	29.69	754.1	29.70	754.4	71	21.7	90	w.	9	4.0		0	2s;hz		calm	0.31	7.9	clear	L. Leonardy.
Fort McKavett, Texas	27.76	705.1	30.00	762.0	58	14.4	65	n.	3	1.3		0	0			0	0	clear	J. E. Thatcher.
Fort Missoula, Montana	26.50	673.1	29.80	756.9	44	6.7	86	ne.	3	1.3		0	0			0	0	clear	J. H. Jones.
Fort St. Michaels, Alaska	30.37	771.4	30.40	772.1	32	0.0	100	sw.	12	5.4			10 s			0.03	0.8	cloudy	A. P. Leavitt.
Fort Shaw, Montana	26.24	666.5	29.84	757.9	47	8.3	71	w.	4	1.8		4 k	0	w.		0	0	fair	A. L. Mathews.
Fort Sill, Indian Territory	28.88	733.5	30.10	764.5	47	8.3	89	n.	3	1.3		1 ck	0	nw.		0	0	clear	T. Cleary.
Fort Stevenson, Dakota	28.45	722.6	30.28	769.1	38	3.3	82	calm	0	0		0	0			0	0	clear	W. Burrows.
Fort Verde, Arizona					46.9	8.3	44	nw.			1	0	0			0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.51	622.5			39.9	4.4	86	nw.	4	1.8		0	0			0	0	clear	T. M. Ambler.
Fredericksburg, Texas	28.22	716.8	29.94	760.5	65	18.3	90	nw.	1	0.4		0	0			0	0	clear	H. S. Miles.
Galveston, Texas	29.92	760.0	29.97	761.2	71.3	21.8	75	nw.	8	3.6		0	0			0	0	clear	E. O'C. MacInerney.
Grand Haven, Michigan	29.12	739.6	29.78	756.4	43.0	6.1	88	ne.	12	5.4			10 s		ne.	0.11	2.8	cloudy	W. A. Reid.
Hatteras, North Carolina	29.69	754.1	29.71	754.6	69	20.6	93	sw.	16	7.2		0	3 k		sw.	0	0	clear	R. M. Crawford.
Helena, Montana	25.68	652.3	29.85	758.2	51	10.6	61	sw.	3	1.3		2 c	5 s			0	0	fair	S. Wheaton.
Henrietta, Texas	29.16	740.7	30.14	765.5	48.0	8.9	77	n.	6	2.7		0	1 s			0	0	clear	J. W. Byram.
Huron, Dakota	28.81	731.8	30.16	766.1	39.7	4.3	82	nw.	6	2.7			10 ks		nw.	0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	28.84	732.5	29.63	752.6	51	10.6	86	e.	5	2.2			10 s		e.	0.09	2.3	cloudy	O. Schutze
Indianola, Texas	29.93	760.2	29.96	761.0	72.3	22.4	84	w.	5	2.2		0	0			0	0	clear	I. A. Reed.
Jacksboro, Texas	28.94	735.1	30.08	764.0	48	8.9	86	n.	4	1.8		0	0			0	0	clear	J. P. Sherry.
Jacksonville, Florida	29.76	755.9	29.80	756.9	78	25.6	74	sw.	3	1.3		0	0			0.64	16.3	clear	J. W. Smith.
Keokuk, Iowa	29.10	739.1	29.74	755.4	37.0	2.8	96	nw.	10	4.5			10 n		nw.	0.50	12.7	light rain	F. Z. Gosewisch
Key West, Florida	29.89	759.2	29.91	759.7	82.0	27.8	74	sw.	14	6.3		0	3 k		sw.	0	0	clear	L. M. Melbourne.
Kittyhawk, North Carolina	29.71	754.6	29.73	755.1	57	13.9	100	ne.	15	6.7			fg.			0.04	1.0	dense fog	E. A. Beals.
Knoxville, Tennessee	28.72	729.5	29.74	755.4	58.5	14.7	90	sw.	4	1.8			10 s		sw.	0.64	16.3	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.12	739.6	29.88	758.9	44	6.7	68	ne.	18	8.0			10 s		ne.	0.40	10.2	cloudy	S. C. Emery.
La Mesilla, New Mexico	26.04	661.4	29.80	756.9	45.5	7.5	52	calm	0	0		0	0			0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.06	738.1	29.94	760.5	43	6.1	74	nw.	13	5.8			10 ks		nw.	0.05	1.3	cloudy	A. W. Browne.
Lewiston, Idaho	29.02	737.1	29.86	758.4	49.5	9.7	66	sw.	1	0.4			10 s			0	0	cloudy	J. M. Burlew.
Little Rock, Arkansas	29.59	751.6	29.90	759.4	53	11.7	72	nw.	11	4.9		0	3 s		nw.	0.01	0.3	clear	W. U. Simmons.
Los Angeles, California	29.57	751.1	29.97	761.2	54.0	12.2	93	e.	2	0.9			fg.		calm	0	0	dense fog	E. F. Kubel.
Louisville, Kentucky	29.06	738.1	29.61	752.1	60	15.6	87	s.	6	2.7			10 s			0.21	5.3	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.16	740.7	29.84	757.9	51.0	10.6	66	ne.	8	3.6			10 s		ne.	0.25	6.3	cloudy	W. R. Bushby.
Madison, Wisconsin	28.82	732.0	29.82	757.4	41	5.0	92	ne.	20	8.9			10 s		ne.	0.11	2.8	cloudy	C. A. Shaw.
Marquette, Michigan	29.39	746.5	30.11	764.8	40	4.4	73	ne.	14	6.3			10 s		ne.	0	0	cloudy	J. Gilligan.
Memphis, Tennessee	29.48	748.8	29.82	757.4	55	12.8	80	nw.	4	1.8			10 s		nw.	0.02	0.5	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.06	738.1	29.80	756.9	40	4.4	89	ne.	19	8.5			10 s			0.06	1.5	cloudy	W. Line.
Mobile, Alabama	29.83	757.7	29.87	758.7	64.5	18.1	73	w.	4	1.8		0	0			0.08	2.0	clear	J. D. Paxton.
Montgomery, Alabama	29.60	751.8	29.83	757.7	64.8	18.2	76	sw.	6	2.7		1 cs	0			0	0	clear	J. B. McLaughlin.

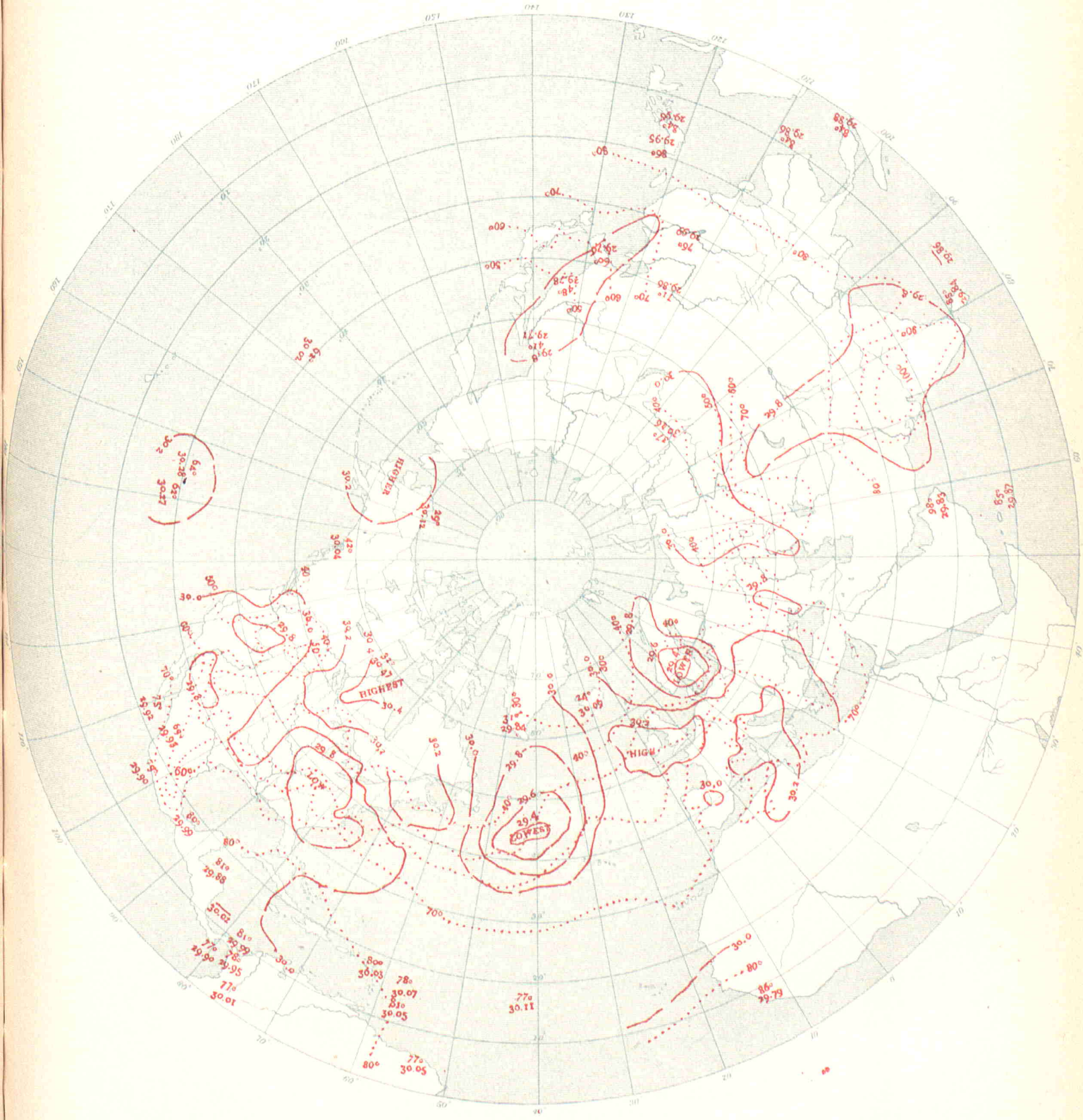
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Moorhead, Minnesota	29.26	743.2	30.24	768.1	40	4.4	65	n.	5	2.2		0	0			0	0	clear	H. Bessant.
Morgantown, W. Virginia	28.74	730.0	29.75	755.6	49.0	9.4	71	se.	7	3.1			10 s		e.	0.45	11.4	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.79	604.3	29.97	761.2	18.0	— 7.8	87	se.	55	24.6		0	8 s		se.	0.21	5.3	cloudy	J. G. Linsley.
Nashville, Tennessee	29.17	740.9	29.70	754.4	59.5	15.3	84	sw.	4	1.8			10 ks		w.	0.34	8.6	cloudy	L. A. Jesunofsky.
New Haven, Connecticut	29.90	759.4	30.02	762.5	41.5	5.3	82	ne.	18	8.0			10 n		ne.	0.07	1.8	light rain	J. H. Sherman.
New London, Connecticut	30.00	762.0	30.05	763.3	43	6.1	83	ne.	17	7.6			10 n		ne.	0.05	1.3	light rain	J. G. Lynch.
New Orleans, Louisiana	29.84	757.9	29.89	759.2	71.0	21.7	66	w.	6	2.7		0	sk.			0	0	clear	L. Dunne.
Newport, Rhode Island	30.03	762.7	30.08	764.0	43.3	6.3	75	ne.	14	6.3			10 n		ne.	0.04	1.0	light rain	W. McGillivray.
New River, N. Carolina																0.04	1.0		C. C. Corbin.
New Shoreham, Rhode I'd.	30.02	762.5	30.05	763.3	42.0	5.6	100	ne.	42	18.8			10 n		ne.	0.06	1.5	light rain	W. Davis.
New York, New York	29.79	756.7	29.97	761.2	41	5.0	100	ne.	36	16.1			10 n		ne.	0.19	4.8	light rain	E. B. Garriott.
Norfolk, Virginia	29.72	754.9	29.75	755.6	54	12.2	93	ne.	10	4.5			10 s			1.55	39.4	cloudy	J. T. Elker.
North Platte, Nebraska	27.25	692.1	30.12	765.0	38.6	3.7	79	nw.	6	2.7		0	2 s			0	0	clear	E. F. Brady.
Olympia, Washington T'y	29.98	761.5	30.02	762.5	37.0	2.8	89	sw.	1	0.4		8 ck	0	w.		0.13	3.3	cloudy	J. Dascomb.
Omaha, Nebraska	28.83	732.3	29.99	761.7	41.1	5.1	86	n.	17	7.6			10 ks		n.	inap.	inap.	cloudy	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.10	764.5	30.12	765.0	29.3	— 1.5	100	s.	8	3.6			10 s			inap.	inap	cloudy	P. H. Ray.
Oswego, New York	29.69	754.1	30.02	762.5	43.6	6.4	74	e.	6	2.7			10 n		e.	1.04	26.4	light rain	S. W. Beall.
Palestine, Texas	29.45	748.0	30.00	762.0	57.0	13.9	77	w.	10	4.5		0	0			0	0	clear	L. M. Pindell.
Pensacola, Florida	29.84	757.9	29.87	758.7	67.2	19.6	78	nw.	4	1.8		0	0			0.08	2.0	clear	M. McGauran.
Philadelphia, Pa.	29.77	756.1	29.87	758.7	44	6.7	100	e.	19	8.5			10 n		e.	0.38	9.7	light rain	T. F. Townsend.
Pike's Peak, Colorado	17.78	451.6	29.84	757.9	17	— 8.3	76	n.	40	17.9		0	0			inap.	inap.	clear	L. M. Dey.
Pioche, Nevada	23.94	608.1	29.86	758.4	50.3	10.2	28	s.	4	1.8		2 c	0	calm		0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	28.94	735.1	29.74	755.4	47.5	8.6	71	e.	8	3.6			10 n		e.	0.47	11.9	light rain	J. H. Bryce.
Poplar River, Montana	28.12	714.2						sw.			1	0	0			0	0	clear	U. D. Maxwell.
Port Eads, Louisiana	29.91	759.7	29.92	760.0	70.0	21.1	70	nw.	8	3.6		0	0			0	0	clear	H. G. Christian.
Port Huron, Michigan	29.09	738.9	29.77	756.1	42.0	5.6	96	e.	16	7.2			10 n			0.62	15.7	light rain	W. O. Bailey.
Portland, Maine	30.21	767.3	30.26	768.6	44.0	6.7	60	ne.	14	6.3		4 cs	6 s	w.	calm	0	0	cloudy	D. C. Murphy.
Portland, Oregon	29.94	760.5	30.01	762.2	41.0	5.0	82	n.	1	0.4		0	8 s		n.	0	0	cloudy	M. L. Hearne.
Portsmouth, N. Carolina					73	22.8	82	sw.	15	6.7		p	2 ks		nw.	0.04	1.0	clear	F. P. Chaffee.
Prescott, Arizona	24.72	627.9	29.82	757.4	41	5.0	33	s.	4	1.8		0	0			0	0	clear	J. McN. Wright.
Provincetown, Mass.	30.12	765.0	30.15	765.8	41	5.0	92	ne.	18	8.0			10 s		ne.	0.01	0.3	cloudy	P. T. Jenkins.
Punta Rassa, Florida	29.86	758.4	29.86	758.4	80.5	26.9	79	sw.	26	11.6		4 cs	6 ks	w.	sw.	0.04	1.0	threatening	W. J. Evans.
Red Bluff, California	29.46	748.3	29.83	757.7	48.0	8.9	35	n.	6	2.7		0	1 s		sw.	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.70	754.4	29.94	760.5	72	22.2	82	se.	5	2.2			10 ks		se.	0	0	cloudy	P. M. Wilson.
Rochester, New York	29.31	744.5	29.97	761.2	40	4.4	89	e.	12	5.4			10 n; fg		e.	0.65	16.5	heavy rain	F. Gillam.
Roseburg, Oregon	29.47	748.5	30.02	762.5	39.6	4.2	79	nw.	1	0.4		0	4 s		w.	0	0	fair	J. J. Naury.
Sacramento, California	29.77	756.1	29.85	758.2	49.4	9.7	71	s.	7	3.1		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.15	740.4	29.74	755.4	43.5	6.4	93	w.	15	6.7			10 ks		w.	0.05	1.3	threatening	J. H. Webber.
St. Paul, Minnesota	29.18	741.2	30.04	763.0	45.0	7.2	60	n.	19	8.5		6 cs	2 s	s.		0.12	3.0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.47	748.5	30.33	770.4	39	3.9	65	ne.	7	3.1		0	0			0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.50	647.7	29.82	757.4	57	13.9	43	e.	7	3.1		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.27	743.4	29.97	761.2	59	15.0	81	calm	0	0		0	0			0	0	clear	E. Lane.
San Diego, California	29.84	757.9	29.91	759.7	59.8	15.4	75	s.	4	1.8			fg.			0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	28.98	736.1	29.65	753.1	48	8.9	93	e.	14	6.3			10 n			1.03	26.2	light rain	M. H. Perry.
Sandy Hook, New Jersey	29.90	759.4	29.94	760.5	44.0	6.7	83	e.	32	14.3			10 n		e.	1.37	34.8	light rain	B. A. Blundon.
San Francisco, California	29.88	758.9	29.95	760.7	46	7.8	60	w.	16	7.2		0	0			0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.23	590.0	29.84	757.9	47	8.3	32	ne.	5	2.2		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	29.67	753.6	29.76	755.9	75	23.9	69	w.	9	4.0		0	0			0.42	10.7	clear	H. W. Ford.
Shreveport, Louisiana	29.72	754.9	29.96	761.0	58	14.4	74	nw.	8	3.6		0	0			0	0	clear	E. N. Meekins.
Silver City, New Mexico	24.24	615.7	29.79	756.7	45	7.2	32	sw.	1	0.4		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	29.98	761.5	30.04	763.0	42.2	5.7	78	ne.	2	0.9			10 ks		ne.	0	0	cloudy	J. J. McLean.
Smithville, North Carolina	29.67	753.6	29.71	754.6	72	22.2	84	w.	14	6.3		4 k	0	w.		0.10	2.5	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.82	706.6	29.87	758.7	47	8.3	77	w.	2	0.9		10 cs	0	sw.		0.02	0.5	cloudy	D. Moore.
Springfield, Illinois	28.97	735.8	29.64	752.8	47	8.3	93	nw	9	4.0			10 n		nw.	0.83	21.1	light rain	T. B. Jennings.
Springfield, Massachusetts	29.99	761.7	30.12	765.0	42.2	5.7	82	ne.	10	4.5			10 n		ne.	0.16	4.1	light rain	T. S. Outram.
Springfield, Mo.	28.46	722.9	29.94	760.5	41.5	5.3	79	nw.	16	7.2			10 ks		nw.	inap.	inap.	cloudy	J. B. Marbury.
Starkville, Miss.	29.37	746.0			61.2	16.2	84	sw.	10	4.5		0	0			0	0	clear	M. J. Wright.
Stockton, Texas	26.91	683.5	29.92	760.0	56.3	13.5	64	s.	12	5.4		0	0			0	0	clear	J. O'Dowd.
Thatcher's Island, Mass.	30.12	765.0	30.17	765.3	42.5	5.8	82	e.	27	12.1			10 s		e.	0.38	9.7	cloudy	F. R. Day.
Toledo, Ohio	28.98	736.1	29.66	753.4	46.5	8.1	95	e.	23	10.3			10 n		e.	0.48	12.2	light rain	A. Buell.
Tucson, Arizona	27.44	697.0	29.78	756.4	55	12.8	37	se.	3	1.3		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.57	751.1	29.94	760.5	50.5	10.3	45	w.	2	0.9			10 s			0	0	cloudy	J. Daly.
Uvalde, Texas	28.99	736.3	29.94	760.5	60	15.6	65	calm	0	0		0	0			0	0	clear	E. C. Imlay.
Vicksburg, Mississippi	29.64	752.8	29.88	758.9	64	17.8	73	nw.	11	4.9		0	0			0	0	clear	H. T. Brisbane.
Visalia, California																			W. L. Seward.
Washington, D. C.	29.74	755.4	29.86	758.4	45.5	7.5	96	n.	6	2.7			10 n		n.	0.57	14.5	light rain	B. M. Purssell.
West Las Animas, Colorado	26.16	664.5	30.02	762.5	44	6.7	86	se.	2	0.9			10 s		sw.	0	0	cloudy	J. Grover.
Williamsport, Pa.	29.33	745.0	29.93	760.2	43.5	6.4	88	e.	4	1.8			10 n			0.28	7.1	light rain	B. F. Hough.
Wilmington, N. Carolina	29.64	752.8	29.69	754.1	71	21.7	84	w.	2	0.9		1 ck	0			0.18	4.6	clear	A. T. Sherwood.
Winnemucca, Nevada	25.40	645.1	29.75	755.6	51	10.6	41	se.	3	1.3		3 k	0	sw.		0	0	clear	J. R. Williams.
Yankton, Dakota	28.80	731.5	30.08	764.0	41	5.0	73	n.	14	6.3		10 ck	0			0	0	cloudy	J. H. Atfield.
Yuma, Arizona	29.59	751.6	29.74	755.4	61.4	16.3	66	calm	0	0		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.06	560.3			55.0	12.8	77	se.					9ks; s			0	0	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.04	763.0	30.05	763.3	81	27.2	86	e.				5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.98	761.5	30.01	762.2	77	25.0	90	s.	8	3.6			10 ks		s.	0.05	1.3	cloudy	J. I. Plume.
Havana, Cuba, W. I.	29.92	760.0	29.97	761.2	83	28.3	74	calm	0	0		5 cs	2 ks	calm	calm	0	0	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.01	762.2	30.02	762.5	81.3	27.4	69	e	3	1.3		0	0			0	0		Robert Johnston.
Magua, San Domingo, W. I					65	18.3		calm			0	0	0			0	0		S. M. Pike.
Navassa, W. I.																			F. M. Everett.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	77	25.0	91	e.			2		10 n	e.		0.870	22.1	rainy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.52	749.8	29.98	761.5	80	26.7	64	calm			0		10 s		calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							96	e.			1	0	5 ks		e.	0	0	fair	Earl Flint.
Santiago de Cuba, W. I.	29.98	761.5	30.01	762.2	80	26.7	82	calm	0	0		3 c	2 ks			0	0	fair	Robert Mason.
York Factory, B. A.	30.42	772.7	30.47	773.9	32.0	0.0	94	s.	8	3.6		0	0			0	0	clear	W. Wood.

Stations and Vessels.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	Upper. 0-10	Lower. 0-10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
British Naval.																		
H. M. S Alert, Port Mozambique, Mozambique	30.08	764.0	81.8	27.7	74	sse.			2		4							d. clouds.
H. M. S. Alexandra, Corfu, Ionian Island	30.05	763.3	67	19.4	51	w.			3		3							d. clouds.
H. M. S. Amethyst, N. 27° 32′ W. 19° 05′	30.09	764.3	69	20.6	90	nne.			2		0					1	n.	blue sky.
H. M. S. S. S. Champion, S. 3° 10′ W. 109° 00′			78	25.6	82	nne.			3		3					3	ene.	d. clouds.
H. M. S. Cleopatra, N. 8° 33′, E. 108° 02.′	29.86	758.4	83.5	28.6	91	n.			1-2		2							d. clouds.
H. M. S. Comus, N. 3° 25′, E. 109° 00′	29.90	759.4	82.5	28.1	87	calm			0		3	sw.						d. clouds.
H. M. S. Coquette, Alexandria, Egypt	29.83	757.7	71	21.7		w.			4		3	wsw.						d. clouds.
H. M. S. Dido, N. 10° 40′, W. 61° 30′	30.01	762.2	78	25.6		calm			0		8	se.						misty.
H. M. S. Druid, N. 16° 27′, W. 85° 54′	29.88	758.9	80.5	26.9	89	e.			2-3		0							blue sky.
H. M. S. Dwarf, S. 33° 21′, W. 58° 24′	30.06	763.5	55.5	13.1	87	nne.			1-2		0					2	n.	blue sky.
H M. S. Eclipse, S 15° 55′, E. 45° 16′	30.00	762.0	82	27.8		ese.			1		2							d. clouds.
H. M. S. Emerald, S. 50° 35′, W. 161° 30′	29.89	759.2	45	7.2	?	se.			3-5		8	se.				5	se.	showery.
H. M. S. Euryalus, Trincomalee, Ceylon	29.84	757.9	85	29.4	91	ene.			1		9	wsw.						d. clouds.
H. M. S. Fantome, N. 12° 10′, W. 69° 24′	29.98	761.5	77	25.0		e.			4		7	e.				2	e.	d. clouds.
H. M. S. Flying Fish, N. 32° 44′, E. 129° 52′.	29.85	758.2	70	21.1	98	calm			0		8							misty.
H. M. S. Fawn, N. 11° 15′, E. 56° 42′	29.87	758.7	84.5	29.2	75	sse.			1		3	se.				1	sse.	d. clouds.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.09	764.3	58	14.4	78	e.			2		10							misty.
H. M. S. Garnet, Colonia, Uruguay	30.12	765.0	55	12.8	80	n.			3		0							blue sky.
H. M. S. Inconstant, Simon's Bay, Cape Colony	30.05	763.3	62	16.7	88	se.			4		6	e.				1	e.	d. clouds.
H. M. S. Iron Duke, N. 30° 14′, E. 128° 43′	29.99	761.7	71	21.7	95	ese.			4-5		10					4	e.	raining.
H. M. S. Kingfisher, S. 14° 55′ W. 76° 34′	30.04	763.0	66	18.9		wnw.			2		6	nw.				4	v	d. clouds.
H. M. S. Lark. S. 8° 14′, E. 156° 30′	29.89	759.2	83.3	28.5		calm			0		5							d. clouds.
H. M. S. Magpie, N. 34° 56′, E. 139° 52′	29.99	761.7	65.5	18.6	74	calm			0		0							blue sky.
H. M. S. Northampton, Bermuda, W. I.	30.00	762.0	73	22.8	93	s.			3		3	sse.						d. clouds.
H. M. S. Pegasus, N. 1° 17′, E. 103° 51′	29.88	758.9	83.5	28.6	89	calm			0		2							d. clouds.
H. M. S. Rambler, Saint Paul de Loanda, Benguela	29.92	760.0	77	25.0	95	wsw.			1		5	calm						d. clouds.
H. M S. Rocket, N. 48° 27′ W. 123° 27′	29.98	761.5	40	4.4	?	calm			0		7							d. clouds.
H. M. S. Sylvia, N. 35° 28′, W. 15° 47′	29.99	761.7	63.5	17.5	78	wsw.			3-4		2					2	ene.	d. clouds.
H. M. S. Tenedos, N. 44° 40′ W. 63° 35′	30.28	769.1	41	5.0	83	nne.			1		2	w.						d. clouds.
H. M. S. Thetis, S. 23° 45′ W. 70° 38	30.07	763.8	61	16.1	88	calm			0		8					2	sw.	d. clouds.
H. M. S. Triumph, Coquimbo, Chili	30.05	763.3	57	13.9	81	calm			0		10	calm				1	s.	d. clouds.
H. M. S. Tyne, N. 37° 00′, E. 11° 35′	30.26	768.6	64	17.8	78	nnw.			4		0					3	nnw.	blue sky.
H. M. S. Woodlark, Muscat Cove, Arabia	29.83	757.7	97.5	36.4	43	nw.			3-4		0					2	nw.	blue sky.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verd Island	30.02	762.5	74.5	23.6	91	ene.			2		0					1		blue sky.
Tamega, Macao, China	29.89	759.3	82.4	28.0	85	ssw.			2		2		ne.					blue sky.
United States Naval.																		
Navy Yard, Pensacola, Fla	29.83	757.7	67	19.4	64	nw.	4	1.8			0			0.07	1.8			clear.
Naval Hospital, Portsmouth, N. H.	30.29	769.4	44	6.7	68	ne.	26	11.6			9		ne.	0.10	2.5			cloudy.
Naval Hospital, Yokohama, Japan	29.81	757.2	61.5	16.4	80	sw.			1		0			0	0			clear.
Adams, San Francisco, Cal	29.69	754.1	50	10.0	79	sw.			2-4		0			0	0	sm'h		clear.
Alaska, Payta, Peru	29.97	761.2	64	17.8	89	s.			1		0			0	0	sm'h		clear.
Alert, Kobe, Japan*	29.83	757.7	70	21.1	52	wsw.			2		0			0	0	sm'h		hazy.
Alliance, N. 36° 38′ W. 75° 12′	29.67	753.6	57	13.9	94	ssw.			1		8			0	0	sm'h		cloudy.
Ashuelot, Kobe, Japan	29.90	759.4	69	20.6	65	w.			1		2		calm					clear.
Brooklyn, Montevideo, Uruguay	30.09	764.3	53	11.7	86	n.	7	3.1			0			0	0	sm'h		clear.
Colorado, New York, N. Y.	29.95	760.7	42	5.6	100	ne.	15	6.7			10		ne.	0.15	3.8			raining.
Essex, S. 32° 20′, W. 48° 10′	29.96	761.0	64	17.8	73	w.			3		2					sm'h	sw.	clear.
Franklin, Norfolk, Va.	29.74	755.4	54	12.2	93	nnw.	12	5.4			10		n.	0.16	4.1			cloudy.
Galena, Port Mahon, Minorca Island	30.26	768.6	69	20.6	70	ese.			3		5					sm'h		fair.
Independence, Mare Island, Cal	29.82	757.4	49	9.4	71	w.			0		0			0	0			clear.
Iroquois, San Francisco, Cal	29.94	760.5	49	9.4	71	w.			3		0			0	0			clear.
Kearsage, N. 37° 10′ W. 74° 45′	29.69	754.1	55	12.8	?	w.			1		10					long	ne.	foggy.
Lackawanna, Callao, Peru*	29.97	761.2	63	17.2	89	se.			2		10		se.	0	0			cloudy.
Lancaster, Port Mahon, Minorca Island*	30.17	766.3	70	21.1	60	e.			3		5		w.	0	0			fair.
Marion, S. 27° 19′, W. 39° 49′	30.08	764.0	68	20.0	84	sw.			4		10		sw.			mod.	sw.	fair.
Michigan, Erie, Pa	29.76	755.9	45	7.2	100	ne.			4		10		e.					raining.
Minnesota, Newport, R. I	30.09	764.3	44	6.7	76	ene.	10	4.5			10							overcast.
Monocacy, Nagasaki, Japan	29.91	759.7	72	22.2	85	nne.			1		10		calm					cloudy.
New Hampshire, Newport, R. I	30.02	762.5	43	6.1	100	nne.			5		10		nne.			sm'h		squally.
Nipsic, Port Mahon, Minorca Island	30.21	767.3	70	21.1	52	ese.			3		8		sse.			sm'h		cloudy.
Onward. Callao, Peru†	30.13	765.3	62	16.7	94	sse.			3		10		n.			long	w.	cloudy.
Palos, Kobe, Japan	29.95	760.7	66	18.9	64	w.			1		2		calm					fair.
Passaic, Washington, D. C.	29.87	758.7	43	6.1	100	ne.			2		10							cloudy.
Pensacola, Callao, Peru	30.05	763.3	64	17.8	89	calm	0	0			10		s.	0	0	sm'h		cloudy.
Portsmouth, Plymouth, Eng.	30.22	767.6	59	15.0	100	ssw.			3		2					sm'h		fair.
Powhatan, Hampton Roads, Va.	29.72	754.9	54	12.2	87	nw.			3		10							fair.
Quinnebang, Port Mahon. Minorca Island	30.21	767.3	69	20.6	57	se.			3		8					sm'h		fair.
Ranger, N. 24° 22′, W. 109° 50′.*	29.82	757.4	75	23.9	72	se.			1		2		calm	0	0	sm'h		clear.
Richmond, Kobe, Japan*	29.86	758.4	69	20.6	61	wsw.			2		0			0	0			clear.
Saratoga, Plymouth, Eng.	30.24	768.1	60	15.6	82	sw.			2		2		sw.	0	0			fair.
Shenandoah, New York, N. Y*	30.02	762.5	47	8.3	85	ene.			4		10							rainy.
St. Louis, League Island, Pa.	30.10	764.5	40	4.4	?	ne.	7	3.1			10		ne.	0.02	0.5			raining.
Swatara, N. 37° 27′ E. 125° 33′*	29.66	753.4	60	15.6	82	calm			0		10		calm			sm'h		foggy.
Tennessee, N. 36° 56′, W. 74° 59′	29.68	753.9	55	12.8	93	sw.	2	0.9			10			0.46	11.7	long	ne.	overcast.
Vandalia, N. 36° 34′ W. 74° 32′*	29.69	754.1	55	12.8	100	wsw.			2		10		calm			long	sw.	foggy.
Wabash, Boston, Mass.	30.19	766.8	45	7.2	68	ene.	15	6.7			10		e.	0.09	2.3			cloudy.
Wachusetts, Port Wrangle, Alaska	30.06	763.5	39	3.9	100	ene.			1		10		ene.					rainy.
Wyoming, Port Royal, S. C.	29.73	755.1	69	20.6	95	wsw.	12	5.4			2		calm	0.18	4.6			clear.
Yantic, N. 37° 16′, W. 74° 06′*	29.68	753.9	55	12.8	100	sse.			0-1		10					long	s.	foggy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 43° 50′, W. 49° 00′*	29.42	747.3	40	4.4	100	nw.			5		10		nw.	2 h'r	2 h'r	5	wnw.	raining.
S. S. Prussian, N. 50° 55′, W. 19° 58′*	30.12	765.0	55	12.8		s.			6		8		ssw.	0	0	sm'h	w.	cloudy.
S. S. Scandinavian, N. 44° 12′, W. 44° 00′*	29.37	746.0	43	6.1		w.			6		9		w.	8 h'r	8 h'r	hv'y	w.	d. clouds.
S. S. Waldensian, N. 43° 47′, W. 45° 50′*	29.30	744.2	42	5.6		wsw.			6		10		wnw.	1 h'r	1 h'r	long	sw.	rainy.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, N. 39° 40′, W. 60° 18′	30.04	763.0	54	12.2	93	ne.			4		5		ne.			mod.	n.	fair.
S. S. Indiana, Liverpool, Eng†	30.46	773.7	58	14.4	64	w.			3		2		w.	light	light			fair.
S. S. Lord Clive, N. 39° 27′, W. 72° 30′*	29.72	754.9				ne.			5		10			18 h'r	18 h'r	mod.	ne.	rainy.
S. S. Ohio, Philadelphia, Pa.†	29.79	756.7	46	7.8	100	ne.			4		10		ne.					rainy.
ANCHOR LINE.																		
S. S. Bolivia, Greenock, Scotland †	30.17	766.3	52	11.1		wnw.			5		5		wnw.	sh'rs	shr's			fair.
S. S. Devonia, N. 48° 42′, W. 38° 08′†	29.34	745.2	54	12.2		ese.			3		10		se.			mod.	se.	cloudy.
S. S. Elysia, N. 51° 21′, W. 3° 17′†	30.35	770.9	63	17.2		ene.			3		4		e.	0	0	sm'h		clear.
S. S. Utopia, Cadiz, Spain†	30.27	768.8	75	23.9	76	sse.			2		3		se.	0	0			clear.
ATLAS LINE.																		
S. S. Ailsa, N. 10° 47′, W. 79° 04′†	29.93	760.2	81	27.2	91	e.			3		2		e.	2 h'r	2 h'r	light	ne.	fair.
S. S. Athos, San Juan, Porto Rico, W. I	29.74	755.4																
S. S. Claribel, N. 24° 10′, W. 74° 14′*†	30.16	766.1	82	27.8	83	e.			3		3		calm	0	0	short	ese.	fine.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S 38° 25′, W. 1° 23′	30.01	762.2	50.5	10.3	72	s.			8		10							overcast.
British Merchant, S. 34° 12′, E. 28° 16′	29.88	758.9	74.5	23.6	68	sw.			6		5							d. clouds.
Bk Commewyne, N. 53° 17′, W 13° 02′	30.34	770.6	56	13.3	57	ese.			4		4							d. clouds.
Bk Coppename, N. 36° 12′, W. 20° 28′	30.07	763.8	61.5	16.4	77	nw.			4		10							overcast.
S. S. Earnock, N. 38° 36′ W. 33° 40′	29.96	761.0	65.5	18.6	97	s.			5		9							d. clouds.
Glencairn, S. 26° 40′, E. 56° 20′	30.30	769.6	75	23.9	72	ese.			4		7							d. clouds.
S. S. Gordon Castle, N. 34° 06′, E. 138° 04′	29.97	761.2	65	18.3	84	calm			0		0							blue sky.
Bkt. Hope, N. 15° 58′ W. 40° 26′	30.11	764.8	76.5	24.7	81	ene.			3		0							blue sky.
S. S. Minho, Macaao, Brazil	30.07	762.2	78.2	25.7	90	s.			3		5							d. clouds.
CUNARD LINE.																		
S. S. Gallia, N. 40° 50′, W. 61° 14′	30.06	763.5	49	9.4	77	ne.			6		10			0	0	sm'h		overcast.
S. S. Parthia, N. 42° 09′ W. 57° 25′†	30.13	765.3				ne.			6		5		n.	14 h'r	14 h'r	mod.	ne.	misty.
S. S. Scythia, N. 45° 03′, W. 42° 30′	29.34	745.2	50	10.0	86	w.			6		9		wsw.	13 h'r	13 h'r	short	w.	
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. France, N. 49° 20′, W. 14° 45′†	30.15	765.7	55.4	13.0		ene.			5				ne.	0	0	sm'h	ne.	covered.
S. S. St. Germain, N. 43° 06′ W. 39° 44′	29.63	752.6	59.0	15.0		w.			6				w.	rain	rain	h'vy	w.	hailing.
S. S. Ville de Marseilles, N. 36° 39′, W. 7° 36′ 0††	30.10	764.5	70	21.1		wsw.			5		0			0	0			clear.
GUION LINE.																		
S. S. Arizona, N. 40° 57′, W. 51° 54′	29.98	761.5	47	8.3		nw.			4		8		nw.	0	0	mod.	nw.	dull.
S. S. Wisconsin, N. 44° 50′, W. 43° 30′ *†	29.40	746.7	46	7.8		wnw.			6		8		wnw.	14 h'r	14 h'r	mod.	cross	cloudy.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S Bohemia, N. 40° 42′, W. 74° 01′*†	29.90	759.4				ene.			7		9		ene.	rain	rain			stormy.
S. S. Lessing, N. 44° 14′, W. 41° 29′	29.44	747.8	50	10.0		wsw.			5		10			rain	rain	r'gh	wsw.	misty.
S. S. Silesia, Hamburg, Germany†	30.15	765.8	55	12.8		nw.			5–6		2		nw.	0	0			d. clouds.
S. S. Wieland, N. 40° 21′ W. 71° 11′	29.96	761.0	44	6.7		ne.			6		10		ne.	0	0	6	ne.	cloudy.
INMAN LINE.																		
S. S. City of New York, N. 51° 14′, W. 19° 47′	30.26	768.6				sse.			4		8		sse.	0	0	r'gh	w.	cloudy.
JOHNSTON LINE.																		
S. S. Thanemore, N. 42° 10′ W. 42° 26′	29.54	750.3				w.			7		8		w.	0	0		w.	squally.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, Montevideo, Uruguay, S. A.*†	30.23	767.8	65	18.3		nnw.			1		1		w.	0	0			clear.
S. S. Humboldt, S. 4° 55′, W. 35° 10′*	29.97	761.2	83	28.3	79	se.			2		2 k			0	0	3	se.	blue sky.
LEYLAND LINE.																		
S. S. Iberian, N. 53° 36′, W 4° 20′	30.26	768.6				w.					0			0	0			clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 37° 45′ W. 73° 47′*†	29.70	754.4	48	8.9	92	e.			6		8			4 h'r	4 h'r	mod.	ene.	
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenapp, S. 2° 29′ W. 39° 38′*†	29.92	760.0				se.			3		0			0	0	sm'h		clear.
NATIONAL LINE.																		
S. S. Canada, N. 42° 52′, W. 46° 55′†	29.64	752.8	43	6.1		wsw.			6		10		w.	0	0	r'gh	w.	cloudy.
S. S. Denmark, London, England	30.25	768.3	63	17.2		ne.			3		0			0	0			clear.
S. S. England, N. 45° 11′ W. 38° 32′	29.38	746.2				w.			6		10		w.	2 h'r	2 h'r	cross	w.	squally.
S. S. Erin, New York, N. Y	29.85	758.2	42	5.6		ne.			9		10		ne.	20 h'	20 h'r			gloomy.
S. S. Greece, N. 40° 26′, W 71° 50′	29.89	759.2				ne.			6		10		ne.	5 h'r	5 h'r	con.	ene.	heavy rain.
S. S. Italy, N. 51° 05′ W. 13° 14′	30.30	769.6	54	12.2		ne.			4		8		ne.	0	0	long	n.	cloudy.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S City of Alexandria, N. 18° 42′ W. 93° 41′*†	29.99	761.7	80	26.7	95	ssw.			2		10		calm	0	0	small	ne.	misty.
S. S. City of Puebla, New York Bay, N. Y.†	29.91	759.7	44	6.7		ne.			3		10		ne.			long	ne.	
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N. 40° 56′, W. 61° 57′*†	30.28	769.1	61	16.1		wsw.			4								nnw.	
S. S. Mass, N. 47° 22′, W. 29° 00′*†	29.83	757.7	60	15.6		sse.			1							light	w.	fine.
S. S. Olbers, N. 43° 23′ W 10° 35′*†	30.15	765.8	63	17.2		wnw.			1–2								e.	fine.
NORTH GERMAN LLOYD																		
S. S. Elbe, N. 49° 30′ W. 6° 40′	30.18	766.6	56.3	13.5	96	ne.			3–5		10					mod.	wnw.	drizzling.
S. S. Graf Bismarck, Santos Brazil	30.24	768.1	67.1	19.5		sse.			3		4		sse.	0	0			fair.
S. S. Habsburg, N. 49° 47′, W. 22° 22′	30.12	765.0	55.4	13.0		ese.			2		8		ese.	½ h'r	½ h'r	mod.	ese.	fair.
S. S. Hohenzollern, N. 42° 40′, W. 41° 39′*	29.51	749.5	51.8	11.0		nw.			6		10		nw.	rain	rain	long	nw.	cloudy.
S. S. Kronprinz F. Wilhelm, N. 49° 47′, W. 10° 39′	30.23	767.8	52.7	11.5		e.			3		10		e.	0	0	2	e.	cloudy.
S. S. Leipzig, N. 39° 35′ W 68° 58′	29.92	760.0	56.0	13.3	?	e.			6		10		e.	6 h'r	6 h'r	mod.	e.	raining.
S. S. Main, N. 40° 34′, W. 63° 34′	30.09	764.3	42.8	6.0		ene.			5–6		10		se.	rain	rain	high	ene.	covered.
S. S. Mosel, N. 47° 08′, W. 34° 20′	29.52	749.8	56	13.3		s.			9		9		sse.	6½h'r	6½h'r	cross	sse.	drizzling.
S. S. Neckar, N. 41° 15′, W. 62° 34′	30.15	765.8	45.5	7.5		ne.			3		10		ne.	0	0	sm'h	wsw.	clearing.
S. S. Ohio, Bremerhaven, Germany	30.14	765.5				w.			6		6		wnw.	0	0			fair.
S. S. Rhein, N. 43° 45′, W. 40° 20′	29.41	747.0				w.			6		8		w.	rain	rain	cross	w.	cloudy.
S. S. Salier, N. 43° 59′, W. 50° 25′	29.83?	757.7?	41.0	5.0		nnw.			8		10		nnw.	3 h'r	3 h'r	h'vy	nnw.	hazy.
S. S. Strassburg, N. 50° 20′, W. 0° 32′	30.27	768.8	72.5	22.5	60	calm			0		2		w.	0	0	sm'h		hazy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, Yokohama, Japan†	30.08	764.0	70	21.1	75	se.			1		0			0	0	sm'h		clear.
S. S. Gaelic, N. 37° 23′, W. 171° 17′†	30.02	762.5	62	16.7	88	wnw.			3		10		s.			mod.	e.	overcast.
S. S. Oceanic, Yokohama, Japan*	29.90	759.4	66	18.9	84	se.			3		2		var.					fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga†	29.70	756.7				nnw.			1		2							clear.
S. S. City of Columbus, N. 37° 30′, W. 74° 48′†	29.82	757.4				var.			0		10		driz.	driz.	h'vy	con.		foggy.
S. S. Seminole, Off Minots Light, Mass†	30.17	766.3	42	5.6	83	e.			6		8		e.	3 h'r	3 h'r	r'gh	ene.	cloudy.
OREGON IMPROVEMENT COMPANY.																		
S. S. Willametta, N. 47° 20′, W. 124° 34′†	30.04	763.0	44	6.7	23	e.			2		4		nw.	0	0	long	nw.	squally.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, Sitka, Alaska*†	30.12	765.0	43	6.1	91	ne.			3		4?		e.					cloudy?
S. S. Columbia, Columbia River, Oregon†	29.99	761.7	38	3.3	80	wnw.			3		5		wnw.					foggy
S. S. Oregon, N. 43° 33′, W. 124° 37′†	30.03	762.7	45	7.2	67	nnw.			3		2		nw.			light	nw.	squally.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal.†	29.82	757.4	46	7.8	77	w.			3		0							clear.
S. S. Dakota, N. 43° 24′ W. 124° 44′†	30.03	762.7	50	10.0	72	nw.			0				nw.			mod.	nw.	cloudy.
S. S. Orizaba, N. 33° 44′, W. 118° 28′†	29.88	758.9	57	13.9	81	se.			1		fg		se			sm'h	nw.	foggy.
S. S. State of California, San Francisco, Cal.†	29.91	759.7	45	7.2	76	w.			4		0							clear.
S. S. Victoria, N. 45° 18′, W. 124° 49′†	30.01	762.2	43	6.1	83	w.			2		0			0	0	long	w.	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, N. 29° 44′, W. 144° 08′	30.28	769.1	64	17.8	68	ene.			3		8		ene.	0	0	sm'h		cloudy.
S. S. City of New York, Sydney, N. S. W.†	29.85	758.2	71	21.7	80	se.			2		5		se.	0	0			hazy.
S. S. City of Rio de Janeiro, Mazatlan, Mexico*†	30.10	764.5	74	23.3	76	w.			2		6			0	0	sm'h	nw.	hazy.
S. S. City of Sydney, N. 29° 22′, W. 140° 22′†	30.27	768.8	62	16.7	83	ne.			3		5		ne.	0	0	mod.	ne.	cloudy.
S. S. City of Tokio, Hong Kong, China†	29.82	757.4	85	29.4	79	sw.			2		10		sw.	2 h'r	2 h'r			cloudy.
S. S. Colima, N. 16° 45′, W. 100° 07′†	29.90	759.4	79	26.1	78	sw.			2		0			0	0	small	wnw	smoky.
S. S. Colon, Aspinwall, Panama†	29.99	761.7	81	27.2		calm			0		10		nne.	0	0	sm'h	ne.	covered.
S. S. Grenada, N. 7° 32′, W. 79° 54′†	29.90	759.4	77	25.0	95	wnw.			2		2		nw.	4 h'r	4 h'r	light	sw.	clear.
S. S. South Carolina, Panama, Panama†	29.95	760.7	78	25.6	86	n.			2		1		ne.	0	0	sm'h		fair.
S. S. Zelandia, Sydney, N. S. W.	29.84	757.9	70	21.1	75	ne.			5		0							clear.
QUEBEC STEAMSHIP COMPANY.																		
S. S. Muriel, N. 38° 45′, W. 73° 04′	29.81	757.2	48	8.9		ene.			6		10			9 h'r	9 h'r		e.	drizzling
S. S. Bermuda, St. John's Antigua, W. I†	30.13	765.3	60?	15.6?		e.			4		7		e.	c	o	g'tl	se.	fine.
RED STAR LINE.																		
S. S. Belgenland, N. 40° 17′, W. 48° 00′†	29.89	759.2	54	12.2	?	nnw.			6		8		nnw.	0	0	cross	wnw.	fair.
S. S. Nederland, N. 48° 27′, W. 20° 09′†	30.22	767.6	57	13.9		ese.			2		10		ese.			long	w.	overcast
S. S. Rhynland, Antwerp, Belgium†	30.24	768.1	62	16.7	77	n.			3		3		n.	0	0			clear.
S. S. Switzerland, N. 39° 30′ W. 74° 13′†	29.76	755.9				ene.			0		10		ene.	7 h'r	7 h'r	hv'y	ene.	misty.
S. S. Vaderland, Jersey City, N. J.	29.88	758.9	47	8.3	92	ene.			6		10		ene.	6 h'r	6 h'r			overcast.
S. S. Waesland, N. 40° 13′, W. 55° 41′	30.04	763.0	49	9.4		n.			5		10		n.	rain	rain	mod.	n.	cloudy.
ROTTERDAM LINE.																		
S. S. W. A. Scholten, Rotterdam, Holland	30.14	765.5	55	12.8	73	nw.			3		6		nw.	0	0			
STATE LINE.																		
S. S. State of Florida, New York, N. Y.	29.93	760.2	51	10.6		nne.			7		10		nne.	12 h'r	12 h'r			stormy.
S. S. State of Indiana, N. 46° 31′, W. 42° 30′†	29.94?	760.5?	41	5.0		nw.			4		4		nw.	6 h'r	6 h'r	mod.	nw.	misty.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 44° 42′, W. 43° 35′†	29.68?	753.9?	47.3	8.5		ssw.			4		7		ssw.	3 h'r	3 h'r	long	ssw.	covered.
WHITE STAR LINE.																		
S. S. Adriatic, N. 40° 22′ W. 70° 21′.†	29.93	760.2	45	7.2	76	ene.			7		10		ene.	24 h'r	24 h'r	high	ene.	raining.
S. S. Baltic, N. 49° 15′ W. 30° 35′†	29.87	758.7	53	11.7	93	s.			5		8		sse.	5 h'r	5 h'r	5	ssw.	d. clouds.
S. S. Britannic, N. 49° 54′, W. 27° 17′†	30.00	762.0	53	11.7	93	sw.			4		fg.			0	0	sm'h		foggy.
S. S. Celtic, Liverpool, Eng†	30.33	770.4	64	17.8	73	wnw.			1		0			0	0	sm'h		fine.
S. S. Germanic, N. 41° 40′, W. 60° 26′†	30.20	767.1	39	3.9		ne.			3		10		ene.			sm'h		d. clouds.
S. S. Republic, N. 49° 50′ W. 23° 03′†	30.25	768.3	56	13.3	87	wsw.			3		4		w.	0	0	mod.	s.	d. clouds.
WILSON LINE.																		
S. S. Romano, N. 44° 20′, W. 34° 37′*†	29.43	747.5	57	13.9		sse.								sh'rs	sh'rs	mod.	con.	cloudy.
MISCELLANEOUS.																		
Schr. Abbie Clifford, Barbadoes, W. I*†	30.06	763.5	80	26.7		e.			2		9			½ h'r	½ h'r			
Sch. Addie Fuller, Newport News, Va†	29.82	757.4	50	10.0	93	nw.			3		10 n		nw.	0.79	20.1			cloudy.
Bk. Adelaide, S. 13° 58′, W. 34° 50′*†	30.07	763.8	83	28.3		e.			1		3		sw.	3 h'r	3 h'r	mod.	sw.	squally.
Schr. Ajax, Brazos, Texas†	30.00	762.0				se.			1		2		se.	0	0			clear.
Bk. Alpha, Santiago de Cuba, W. I.†	29.96	761.0	80	26.7		calm			0		1			0	0			fair.
Sch'r Annie R. Lewis, Aransas Pass, Texas†	30.06	763.5	78	25.6		se.			3		0			0	0	short	se.	clear.
Bk. Annie Thorman, N. 33° 41′, W. 42° 33′	30.15	765.8	64.6	18.0	68	n.			3		10 k		n.	8 h'r	8 h'r	mod.	nnw.	drizzling.
Bk. Antioch, S. 40° 10′ E. 109° —*†	29.80	756.9	58	14.4		w.			0		3		wsw.	0	0	sm'h	sw.	clear.
S. S. Antonio Lopez, N. 23° 04′, W. 83° 56′*	29.96	761.0	80.5	26.9	86	s.			3	5 c				0	0	sm'h		fair.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.32	770.1	75	23.9		wnw.			2		4		wsw.	0	0			fair.
Schr. Annie M. Small, S. 8° 54′, E. 105° 44′*†	30.10	764.5												2 h'r	2 h'r			
Bk. Bergenseren, N. 37° 18′ W. 1° 00′†	30.08	764.0				ne.			5		0			0	0	3	e.	fair.
S. S Compton, N. 24° 07′, W. 82° 50′†	29.92	760.0				s.			3		7		sse.	0	0	sli't	s.	clearing.
Schr. Edith R. Seward, Port Antonio, Jamaica, W.I*†	30.18	766.6	84	28.9		e.			2		2		e.	½ h'r	½ h'r			clear.
S. E. J. Spicer, London, Eng.†	30.22	767.6				e.			4		5		e.	0	0			hazy.
S. Enoch Train, N. 40° 00′, W 66° 55′.*	29.96	761.0				ne.			5		10		ene.	sh'rs	sh'rs	light	ene	drizzling.
S. Exporter, S 34° 50′, W. 15° 50′*†	30.40	772.1				se.			5		8		se.	0	0	h'vy	se.	cloudy.
Bk. Freya, Dublin, Ireland			59	15.0		e.			2		0			0	0			fine.
S. Grecian, S. 22° 50′, E. 104° 00′*†	30.20	767.1	66	18.9		ese.			6		2		e.	0	0	long	s.	clear.
Bk Hattie G. McFarland, Boston, Mass*†	30.15	765.8	46	7.8		ene.			6		10		e.	1 h'r	1 h'r			threatening
Schr. Henry Denison, N. 28° 52′, W. 75° 34′†	29.92	760.0				s.			4		7		nw.	12 h'r	12 h'r	high	nw.	raining.
Bk. Horace Scudder, N. 37° 00′ W. 74° 50′.†	29.67	753.6	56	13.3		s.			1		fg		ne.	1 h'r	1 h'r	hv'y	ne.	dense fog.
Bk. Johanne, N 43° 15′. W. 28° 42′*†	30.00	762.0	62	16.7		sse.			3		2		s.	0	0	mod.	s.	clear.
Schr. John L. Thomas, N. 11° 48′ W. 83° 38′*†	30.02	762.5				calm.			0		8		ne.	1 h'r	1 h'r	mod.	e.	cloudy.
Bkt. Josephine, Guanatamo, W. I.*†	30.12	765.0	79	26.1	73	n.			3		0			0	0			hazy.
Julia H., Havana, Cuba, W. I†	29.96	761.0	77.8	25.4	86	s.			1		3 k;ks							d. clouds.
Bk. Kate Cann, N. 42° 12′, W. 42° 24′*†	29.72	754.9				w.			6		10		wnw.	14 h'r	14 h'r	high	wnw.	overcast
Bkt. Kryolith, N. 59° 56′, W. 35° 51′*†	29.85	758.2				s.			2		8		sw.	0	0	mod.	w.	cloudy.
S. S. Lamperts, Suez Canal*	29.82	757.4	78.5	25.8	73	nw.			2		2 k							blue sky.
Light House Tender, Laurel, St. Joseph's Bay, Fla†.	29.89	759.2	73	22.8		nw.			3		1		sw.	0	0			clear.
S. S. Malabar, N. 5° 19′, E. 85° 35′*†	29.86	758.4				sw.			7									
Bg. Medina, N. 27° 00′, W. 79° 35′†	30.03	762.7				sw.			3		10		wsw.			small	sw.	threatening
S. S. Nebo, N. 13° 40′, W. 60° 12′†*	30.05	763.3				nne.			1		3?		nne.	0	0	sm'h	nne.	cloudy.?
S. Paramita, S. 7° 40′, W. 33° 30′†	29.84	757.9	85	29.4		se.10 s.			2		1		sse	0	0	long	ese.	clear.
Bk. Peppina, Bordeaux, France†	30.05	763.3	78	25.6	61	se.			4		0							clear.
S. S. Ponca, Lower Chesapeake Bay†	29.71	754.6	61	16.1		n.			2		10		n.	light	light			rainy.
Bg. Potomac, N. 32° 04′, W. 71° 20′*†	29.90	759.4				ssw.			3				w.			rg'h	sw.	
Bk. Princessen, N. 38° 15′ W. 65° 22′†	29.89	759.3	64	17.8		e.			7		10			15 h'r	15 h'r	high	e.	heavy rain.
Bk. Rosebud, N. 38° 09′, W. 17° 30′*†	30.10	764.5	66	18.9	78	ne.			2		0			0	0	sm'h		fine.
S. Salisbury, S. 38° 08′, W. 0° 06′*	30.15	765.8	51.4	10.8	73	ese.			9		6		ese.	0	0	hv'y	ese.	cloudy.
Bk. Stella, S. 10° 20′, W. 101° 00′*	29.92	760.0	76.1	24.5	90	se.			3	3 c			se.	0	0	sm'h	se.	d. clouds.
Bk. Truro, N. 42° 22′ W. 40° 46′*†	29.57	751.1				wnw.			5		7		w.	26 h'r	26 h'r	mod.	wnw.	fair.
U. S. F. C. S. FishHawk, Washington, D. C.†	29.98	761.5	50	10.0	86	nne.			3		10		n.	0.44	11.2			cloudy.
Yacht Vega, N. 17° 18′ W. 59° 35′*†	30.22	767.6	78	25.6		ene.			3				e.	0	0	long	ene.	
S. S. Victoria J. Peed, Barranquilla, U. S. C.*†	29.11	739.4				se.			1		1							
Schr. Viola Reppard, Bridgeport, Conn.†	29.85	758.2	63	17.2		ene.			6		10		ese.	8 h'r	8 h'r			stormy.
S. Washington, N. 52° 16′, E 3° 07′*†	30.17	766.3				nnw.			4		0			0	0	sm'h		clear.
Bg. Wauburn, N. 33° 01′ W. 72° 18′*†	30.00	762.0				sw.			6		7		sw.	0	0	h'vy	sw.	
Bk. Wm. Wilcox, N. 36° 45′, W. 55° 05′*†	30.15	765.8	62	16.7		nne.			4		5?		n.	0	0	mod.	ne.	cloudy?.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 13, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours			30.10	764.4	69.8	21.0	86	ne.			3		0			0	0	clear	Moiroud.
Algiers			30.15	765.0	73.8	23.2	61	nw.			1		0			0	0	clear	Nicolas.
La Calle			30.16	766.1	83.5	28.6		ne.			1		3			0	0	pretty fair	Fonfrède.
Tunis			30.16	766.1															Jacques.
Saida			30.17	766.2															Dumas.
Tebessa			30.23	767.9	66.6	19.2	72	nw.			4		3			0	0	pretty fair	Derché.
Geriville					75.9	24.4	41	sw.			1		10			0.055	1.4	covered	Lonchamp.
Laghouat			30.24	768.0	78.8	26.0	67	s.			1		3			0.197	5.0	cloudy	Abraham.
Biskra			30.14	765.5	84.2	29.0	27	se.			2		4			0	0	cloudy	Malau.
Australian.																			
Melbourne, Victoria	29.75	755.6	29.84	757.9	53.8	12.1	75	n.	15	6.7			9			0	0	squally	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.46	748.3	29.99	761.8	69.4	20.8	52	sw.			2		3			0.370	9.4	raining	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.26	743.3	30.03	762.8	55.8	13.2	35	w.	13.6	6.1			2			0.075	1.9		Dr. Wierzbiski.
Eperies	29.07	738.4	29.94	760.5	59.0	15.0	61	s.			2	0	7 ks			0.008	0.2		Julius Mikolik.
Gratz	28.82	732.0	30.06	763.4	61.9	16.6	88	e.			2		8			0	0		Andreas Rospini.
Hermannstadt	28.57	725.7	29.97	761.2	64.9	18.3	41	ssw.			3		1			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.82	731.9	30.17	766.3	50.7	10.4	92	sw.			1		10			0.224	5.7	raining	The Staff.
Lemberg	28.98	736.0	29.95	760.8	57.4	14.1	41	nw.			3		2			0.067	1.7		Dr. T. Stanecki.
Pola	29.96	761.0	30.07	763.8	68.2	20.1	53	sw.			1		0			0	0		I. R. Hydrographic Office.
Szathmar	29.52	749.7	29.97	761.3	62.8	17.1	56	ne.			2		9			0.138	3.5	thnd'r storm	Joseph Midlinszky, S. J.
Szegedin	29.73	755.2	30.01	762.2	62.1	16.7	68	sw.			3		7			0	0		Karl Stancel.
Trieste	30.00	761.9	30.10	764.5	72.3	22.4	40	calm			0		0			0	0		Rieder.
Vienna	29.43	747.5	30.14	765.6	56.8	13.8	59	nw.			2		3			0.268	6.8		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.29	769.4	30.39	771.9	52.0	11.1	56	nw.	13	5.8			7			0	0	d. clouds	W. Boswell
Armagh, Observatory	30.14	765.5	30.37	771.4	57.3	14.1	57	se.	8	3.6			1					d. clouds	S. Ball.
Bidston, Liverpool Obs'y			30.35	770.9	57.3	14.1	69	nw.	10	4.5			1					blue sky	John Hartnup.
Bolton, Sharples	29.79	756.7	30.33	770.4	60.8	16.0	39	s.					0					blue sky	Thomas Mackereth. [A.S.
Bradford, Yorkshire	29.93	760.2	30.33	770.4	56.5	13.6	52	w.			1		0			0	0	blue sky	J. McLandsborough, F. R
Bridgetown, Barbadoes	29.97	761.2	30.00	762.0	83.0	28.3	66	ne.			4		3					d. clouds	Corpl. J. Surgenor, A. H.C.
Cardington			30.33	770.4	62.0	16.7	50	e.			0.6		1					blue sky	John McLaren.
Chatham, School M. E.	30.23	767.8	30.36	771.1	62.8	17.1	50	calm			0		3					d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	30.03	762.7	30.26	768.6	56.9	13.8	57	e.			5		5					d. clouds	The Staff.
Fort Napier, Natal	27.70	703.6	29.92	760.0	68.5	20.3	68	e.			1		8			blank	blank	overcast	Pvt. E. K. Annis, A.H.C.
Free Town, Sierra Leone	29.57	751.1	29.80	756.9	85.0	29.4	64	nw.			1		3					d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	30.03	762.7	30.08	764.0	69.4	20.8	70	w.			2		3					d. clouds	Cpl. O. Baldwin.
Glasgow, Observatory	30.18	766.6	30.38	771.6	54.5	12.5	43	wnw.			1		1					misty	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.16	766.1	30.33	770.4	64.5	18.1	47	nne.			1		0					blue sky	The Staff.
Guernsey	29.94	760.5	30.24	768.1	61.5	16.4	48	ene.			2		2					blue sky	A. Collenette, F. M. S.
Kew, Observatory	30.30	769.6	30.34	770.6	61.2	16.2	42	n.	8	3.6			0					hazy	The Staff.
Leicester, Museum	30.10	764.5	30.35	770.9	61.0	16.1	70	ne.			3		0					blue sky	J. C. Smith.
Malta, Mediterranean	30.13	765.3	30.21	767.3	70.0	21.1	56	nw			2		4					d. clouds	I. H. Whysall.
Nassau, Bahamas	29.97	761.2	30.01	762.2	78.0	25.6	92	sw.			3		10					overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.82	757.4	30.34	770.6	60.5	15.8	76	ne.			0-1		0					blue sky	John Mac Email.
Oxford, Radcliffe Obs'y	30.11	764.8	30.33	770.4	61.7	16.5	44	ne.			2		0					blue sky	The Staff.
Plymouth	30.19	766.8	30.27	768.8	62.0	16.7	46	e.			5		0					blue sky	John Merrifield.
Sandwick Manse, Orkneys			30.36	771.1	48.3	9.1	85	w.	10	4.5			0					blue sky	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.96	761.0	30.02	762.5	57.4	14.1	62	nne.			2		9					d. clouds	W. H. Lyne.
Sheffield	30.09	764.3	30.37	771.4	59.9	15.5	48	e.			2		0			0	0	blue sky	W. F. Cooper.
Stilloth Rectory	30.35	770.9	30.38	771.6	59.5	15.3	55	calm			0		0			0	0	blue sky	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.38	771.6	58.0	14.4		e.	4	1.8			0					blue sky	J. New.
Stratfield Turgiss	30.11	764.8	30.32	770.1	65.8	18.8	43	ne.			1		0					blue sky	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	30.25	768.3	30.26	768.0	65	18.3	38	e.			6		3					d. clouds	W. Newcombe.
Valencia, Observatory	30.19	766.8	30.22	767.6	64.2	17.9	59	se.	28	12.5			3					misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.08	764.0	30.12	765.0	37	2.8	87	s.	1	0.4			10 s		calm	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	30.05	763.3	30.11	764.8	40	4.4	73	sw.	2	0.9		4 ck	0	sw.		0	0	fair	G. A. Blair.
Father Point, Quebec*	30.09	764.3	30.11	764.8	39	3.9	73	sw.	9	4.0		2 c	hz.	calm		0	0	fair	J. McWilliams.
Fort Garry, Manitoba*	29.49	749.0	30.33	770.4	42	5.6	62	ne.	2	0.9		0	0			0	0	clear	James Stewart.
Halifax, N. S*	30.03	762.7	30.16	766.1	39	3.9	76	e.	2	0.9			10 ks			0	0	cloudy	A. Allison.
Kingston, Ontario*	29.63	752.6	29.97	761.2	44	6.7	96	ne.	10	4.5			10 ks		e.	0.19	4.8	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.84	757.9	30.04	763.0	49	9.4	58	se.	12	5.4		8 cs	0			inap.	inap.	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.28	743.7	29.98	761.5	48	8.9	63	ne.	13	5.8		2 k	0	ne.		0.03	0.8	fair	Rev. R. Mosley.
Port Dover, Ontario	29.15	740.4	29.86	758.4	42	5.6	91	ne.	12	5.4			10 ks		e.	0.10	2.5	cloudy	H. Morgan.
Port Stanley, Ontario	29.18	741.2	29.83	757.7	42	5.6	89	e.	12	5.4			10 n		e.	0.13	3.3	cloudy	M. Payne.
Quebec, Quebec*	29.80	756.9	30.12	765.0	45	7.2	68	ne.			1	2 k	5 s	ne.	ne.	0	0	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.57	751.1	30.02	762.5	52	11.1	47	e.	10	4.5		2 c	0	se.		0	0	fair	W. H. McIntyre.
Saugeen, Ontario*	29.20	741.7	29.93	760.2	37	2.8	89	ne.	11	4.9			10 ks			0.10	2.5	cloudy	
St. Andrews, N. B	30.04	763.0	30.09	764.3	44	6.7	70	ese.	1	0.4			10 n			0	0	cloudy	
Sydney, C. B*	30.06	763.5	30.12	765.0	41	5.0	70	sw.	2	0.9		2 c	0	nw.		0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.55	750.6	29.94	760.5	42	5.6	92	e.	20	8.9			10 n		e.	0.27	6.9	cloudy	Magnetic Observatory.
Yarmouth, N. S*	30.00	762.0	30.07	763.8	44	6.7	68	e.	4	1.8		8 k	2 s	w.	e.	0.05	1.3	cloudy	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.86	758.4	30.11	764.8	47	8.3	70	sw.	2	0.9		0	0			0	0		John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.16	766.1	30.19	766.8	60.0	15.6	94	se.	16.8	7.5			10 n			0.880	22.4	raining	John Duthie.
Cape Town, C. G. H. Obs'y	29.98	761.5	30.02	762.5	67.7	19.8	64	sw.	12	5.4		8	8			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Chinese (*Sub-series*).																			
Hankow	29.68	753.9	29.95	760.7	78.7	25.9	76	se.			4		3			0	0		N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.89	759.1	29.91	759.7	01.9	16.6	76	ene.	5.1	2.3			3			0.004	0.1	fair	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.83	757.7	29.88	758.9	49.8	9.9	45	nw.	27	12			7						Oversergent Fischer.
Fanöe	30.08	764.1	30.10	764.6	48.4	9.1	65	nw.			7		8						Overloerer Lauridsen.
Godthaab, Greenland	29.62	752.4	29.67	753.5	30.0	— 1.1	78	calm			0		6			0	0		S. Kleinschmidt.
Stykkisholm, Iceland	30.02	762.4	30.06	763.5	26.6	— 3.0	91	e.			4		8						A. O. Thorlacius.
Thorshavn	30.36	771.2	30.40	772.1	41.9	5.5	59	n.	9	4			1						Overloerer Bergh.
Vestervig	29.92	759.9	30.01	762.2	46.8	8.2	69	nw.			8		1						Loearer Oesterbol.
French.																			
Agen, Normal School	29.51	749.5	30.15	765.7	72.0	22.2	48	se.			2	2 c	0	w.		0	0	slightly cld'y	M. Labroue, Director.
Alençon, Normal School	29.71	754.6	30.26	768.6	63.7	17.6	74	n.			2								M. Nicot, Director.
Arras, Engineer School	30.01	762.2	30.26	768.7	60.3	15.7	49				3		0			0	0		M. Fénéon, Command't.
Avignon, Normal School	30.05	763.2	30.13	765.2	79.2	26.2	42	n.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.65	753.1	30.20	767.0	68.0	20.0	41	e.			1		0			0	0	clear	M. Saillard, Director.
Beauvais, Normal School	30.04	762.9	30.30	769.6	60.1	15.6	26	ene.			3		0			0	0	clear	M. Frère Eugène Marl.
Besançon, Normal School	29.32	744.6	30.20	767.0	71.1	21.7	62	ne.			1	2 c	0	nne.		0	0	slightly cl'dy	M. Gobin, Director.
Bordeaux, Observatory	29.79	756.6	30.04	763.0	75.6	24.2	56	se.			1		5		s.	0	0	cloudy	M. Rayet, Director.
Bourges, Normal School	29.61	752.1	30.14	765.6	74.8	23.8	41	ne.			2	c	0	ne.		0	0		M. Postel, Director.
Brest, Naval Observatory	29.86	758.5	30.11	764.7	73.4	23.0	66	ne.			2		2		ne.	0	0		M. de Kermaree, Dir.
Caen, Normal School	30.21	767.4	30.25	768.3	65.5	18.6	41	e.			3		0			0	0	clear	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.87	758.8	30.19	766.8	67.1	19.5	49	n.			2		0			0	0	clear	M. Jadot, Director.
Charleville, Normal School	29.75	755.6	30.26	768.5	64.0	17.8	29	e.			1		0			0	0	clear	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.70	730.4	30.06	763.4	75.6	24.2	48	n.			1		2			0	0	¼ covered	M. Alluard, Director.
Cluny, Normal School	29.28	743.8	30.10	764.6	75.2	24	39	e.			1		0			0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.37	746.0	30.23	767.8	65.3	18.5	20	nne.			1		2s	nne.	nne.	0	0	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.58	700.4	30.03	762.8	72.7	22.6	48	s.			2	0	2 k		n.	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	29.01	736.9	30.10	764.5	74.5	23.6	23	s.			2		1		s.	0	0		M. Kina, Director.
Grenoble, Normal School	29.31	744.5	30.05	763.3	74.1	23.4	50	nw.			2	0	2 k			0	0	clear	M. Ablard, Director.
Guéret, Normal School	28.55	725.2	30.09	764.3	73.9	23.3	43	e.			1	2 c	0	e.		0	0		M. Rivoire, Director.
Lamballe, Normal School	29.90	759.5	30.17	766.3	75.2	24	64	ne.			1		2		ne.	0	0	slightly cl'dy	M. Ollitrault, Director.
Lescar, Normal School	29.47	748.4	30.00	762.1	81.7	27.6	44	n.			1	1 ck	c			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.03	762.8	30.13	765.4	77.0	25.0	54	ese.			2		2		calm	0	0	¼ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.08	738.5	30.10	764.5	74.3	23.5	31	s.			1	0	1 k			0	0	clear	M. André, Director.
Mans, Normal School	29.91	759.7	30.21	767.4	67.8	19.9	57	e.			3		0			0	0	clear	M. Piboen, Director.
Marseille, Observatory	29.87	758.7	30.13	765.4	70.9	21.6	43	wsw.			3		0			0	0		M. Stephan, Director.
Montlouis l'instituteur	24.99	634.8	29.84	757.8	62.6	17.0	49	e.	7.4	3.3			5			0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.97	761.3	30.10	764.5	73.4	23	37	se.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.44	747.7	30.22	767.5	63.7	17.6	34	n.			1		0			0	0		M. Hasse, Director
Nantes, Observatory	30.00	762.1	30.17	766.2	75.9	24.4	50	ene.			1–3	3 c;ck	0	ese.		0	0		M. Larocque, Director.
Perpignan, Observatory	30.00	762.1	30.11	764.8	66.9	19.4	62	se.	16.8	7.5			1		w.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.44	544.6			48.2	9.0		s.			1	1	1	n.	s.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.06	738.0	30.08	764.0	76.6	24.8	29	calm			0		0			0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.32	643.1			55.2	12.9	70	ene.			3	2 ck	0			0	0	slightly cl'dy	M. Alluard, Director.
Rochefort, Naval Obs'y	30.03	762.8	30.06	763.6	78.3	25.7	100	ne.			1		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.85	758.1	30.06	763.4	76.3	24.6	51	e.			3		0			0	0	clear	M. Mouillot, Director.
Rodez, Normal School	27.97	710.3	30.01	762.3	77.7	25.4	39	se.			1		0			0	0	clear	M. Serger, Director.
Rouen, Normal School	30.24	768.2	30.29	769.4	64.8	18.2	27	ne.			1		0			0	0	clear	M. Brotier.
Saint Maur, Observatory	30.10	764.4	30.26	768.6	66.4	19.1	28	ne.			2		0			0	0		M. Renou, Director.
Toulouse, Observatory	29.41	747.0	30.13	765.4	78.4	25.8	39	se.			2		2		w.	0	0	slightly cl'dy	M. Baillaud, Director.
Tours	29.97	761.3	30.15	765.8	72.3	22.4	50	ene.			4		0			0	0	clear	
Versailles, Observatory	29.77	756.1	30.26	768.6	64.0	17.8	20	ne.			4					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.97	761.3	30.26	768.7	64.0	17.8	25	nne.			2		2 k	nw.		0	0	slightly cl'dy	M. Marié Davy, Director
German.																			
Bamberg	29.33	745.0	30.19	766.8	59.0	15.0	80	ne.			3	3 cs	0			0	0		Prof. Dr. Hoh.
Berlin	29.86	758.5	30.04	763.0	54.0	12.2	43	nw.			7		8			0.059	1.5	raining	Prof. Dr. Arndt.
Breslau	29.56	750.9	30.10	764.4	53.2	11.8	40	wnw.			5		5			0.031	0.8		Royal University Obs'y.
Carlsruhe	29.78	756.5	30.22	767.6	61.2	16.2	35	ne.			2		0			0	0		Albert Senz.
Cassel	29.48	748.8	30.19	766.9	54.0	12.2	43	nw.			4		7	nw.		0	0		Dr. H. Mohl.
Frankfort-on-the-Main	29.87	758.7	30.24	768.0	58.1	14.5	41	ne.			1		2			0	0		Physical Society.
Friedrichshafen	28.73	729.8	30.15	765.9	61.9	16.6	67	ne.			5		8	e.		0	0		Wilhelm, Chief Tel.
Hamburg	30.06	763.6	30.16	766.0	51.4	10.8	60	nw.			6		6			0.016	0.4	showery	E. Preller.
Kiel	30.08	763.9	30.09	764.3	48.2	9.0	55	nw.			6		9			0.012	0.3		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.76	755.8	30.17	766.4	55.8	13.2	46	nw.			6		7	nw.		0.047	1.2	stormy	H. Leppig, Asst.
Magdeburg	29.94	760.5	30.13	765.3	56.5	13.6	47	wnw.			5	0	3 ks		w.	0	0		Dr. Assmann.
Memel	29.65	753.1	29.70	754.3	47.3	8.5	71	w.			7		10 ks						Issermann.
Munich	28.37	720.7	30.25	768.4	52.3	11.3	48	n.			1		9	nw.		0.020	0.5		Central Station.
Neufahrwasser	29.79	756.7	29.81	757.1	52.0	11.1	42	w.			6		7			0	0		A. Lothes.
Neustadt, Palatinate	29.71	754.7	30.24	768.2	59.5	15.3	35	n.			4					0	0		Dicknether.
Stuttgart	29.24	742.6	30.12	765.1	60.8	16.0	41	e.					1			0	0		Prof. Dr. Schoder.
Wustrow	29.98	761.4	30.00	762.0	48.4	9.1	98	wnw.			7	0	8 k			0.020	0.5		Profs. Brandes & Reimer
Greek.																			
Athens	29.69	754.2			67.1	19.5		ne.			2.0		2 k			0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.70	754.3	29.74	755.5	86.7	30.4	78	wsw.	30.0	13.4			2			0	0	misty	
Deesa	29.16	740.6	29.61	752.1	101.7	38.7	27	wsw.	11.8	5.3			2	w.		0	0	misty	
Bombay	29.76	756.0	29.80	757.0	86.9	30.5	68	w.	11.0	4.9			2	wnw.	w.	0	0	d. clouds	
Poona, Yarrowda	27.89	708.3	29.69	754.1	92.0	33.3	30	w.	27.0	12.1			2		w.	0	0	d. clouds	
Bellary	28.22	716.9	29.67	753.6	85.0	29.4	54	w.	7.0	3.1			1c			0.82	20.8	overcast	
Belgaum	27.25	692.1	29.75	755.7	81.1	27.3	67	sw.	14.0	6.3			1	ne.		0	0	misty	
Lahore	28.85	732.8	29.56	750.8	99.2	37.3	25	calm	1.7	0.8			4			0	0	misty	
Roorkee	28.75	730.1	29.62	752.3	90.2	32.3	37	se.	4.1	1.8			3			0	0		
Agra	29.07	738.3	29.61	752.2	94.1	34.5	32	se.	5.6	2.5			0			0	0		
Nagpur	28.57	725.7	29.58	751.2	96.9	36.1	31	e.	4.5	2.0			8		w.	0	0	d. clouds	
Jubbulpore	28.31	719.0	29.61	752.1	97.2	36.2	20	n.	4.1	1.8			0			0	0	blue sky	
Lucknow	29.30	744.3	29.67	753.7	89.1	31.7	44	calm	1.8	0.8			0			0	0	blue sky	
Allahabad	29.36	745.6	29.66	753.3	92.3	33.5	33	ene.	4.4	2.0			1		w.	0	0	d. clouds	
Patna	29.55	750.5	29.73	755.2	83.4	28.6	57	e.	6.3	2.8			2	e.	e.	0	0		
Hazaribagh	27.69	703.4	29.69	754.2	78.0	25.6	52	ne.	4.9	2.2			0			0	0	foggy	
Cuttack	29.59	751.6	29.67	753.7	87.2	30.7	71	n.	1.5	0.7			6			0.98	24.9	d. clouds	
Calcutta, Allpore	29.68	753.7	29.70	754.3	83.5	28.6	57	wnw.	3.0	1.3			1		se.	0.08	2.0	d. clouds	
Dhubri	29.61	752.1	29.73	755.2	77.2	25.1	75	ne.	14.6	6.5			0			0.02	0.5	blue sky	
Chittagong	29.66	753.4	29.75	755.6	78.2	25.7	76	se.	2.3	1.0			7			0	0	d. clouds	
Sibsagar	29.39	746.5	29.73	755.0	78.4	25.8	77	ne.	2.7	1.2			8	w.	w.	0.02	0.5	d. clouds	
Jeypore	28.20	716.4	29.59	751.6	97.4	36.3	28	sw.	4.4	2.0			3		sw.	0.07	1.8	d. clouds	
Zanzibar, Africa	29.97	761.2			76.7	24.8	87	sw.	9.3	4.2			9		sse.	4.70	119.4	gloomy	
Italian.																			
Udine	29.68	753.8	30.08	764.1	70.2	21.2	70	sw.	1.3	0.6			1			0	0		Prof. Giovanni Clodig.
Milan	29.57	751.0	30.08	764.0	72.7	22.6	50	nw.	5.6	2.5			1			0	0		Prof. Schiaparelli.
Padua	29.97	761.1	30.08	763.9	69.6	20.9	50	ssw.	1.8	0.8			3	w.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.16	740.6	30.06	763.4	72.9	22.7	56	se.	3.8	1.7			0			0	0		Prof. P. F. Denza.
Genoa	29.95	760.8	30.15	765.7	66.4	19.1	64	sw.	4.9	2.2			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.17	715.4	30.10	764.4	71.2	21.8	46	s.			2		0			0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
ITALIAN.—Continued.																			
Pesaro	30.04	762.9	30.08	764.1	65.5	18.6	66	ene.	4.9	2.2			8			0	0		Prof. Luigi Guidi.
Florence	29.86	758.5	30.11	764.9	71.6	22.0	31	w.			4		1			0	0		Prof. Costantino Pitter.
Leghorn	30.03	762.7	30.11	764.9	69.8	21.0	57	sw.	0	0			4			0	0		Prof. P. Monte.
Rome	29.96	761.0	30.13	765.4	74.5	23.6	26	wsw.	18.1	8.1			5			0	0		Prof. P. S. Ferrari.
Lecce	29.83	757.6	30.08	763.9	73.2	22.9	32	wnw.	8.1	3.6			1			0	0		Prof. C. de Giorgi.
Cosenza	29.22	742.3	30.10	764.5	71.6	22.0	76	ese.	8.1	3.6			4	s.		0	0		Prof. D. Conti.
Cagliari	29.92	759.9	30.11	764.7	69.8	21.0	48	se.			4		4	nw.		0	0		Prof. A. Pacinotti.
Palermo	29.95	760.6	30.19	766.9	69.1	20.6	22	ne.	6.9	3.1			10			0	0		Prof. G. Giacciatore.
Syracuse	30.05	763.3	30.10	764.4	72.5	22.5	47	ssw.	11.9	5.3			7	sw		0	0		Prof. Vincenzo Gulliano.
Sub-series.																			
Naples, S. R	29.60	751.8	30.11	764.8	69.4	20.8	65	s.	3.8	1.7			9	sw.		0	0		Prof. T. Brioschi.
Stelvio	22.32	567.0			45.1	7.3	46	sw.			2		6			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.37	568.2			47.8	8.8	56	se.			2		4			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.69	754.1	29.72	754.9	51.8	11.0	91	calm	0	0		0	8 ks;s			0.035	0.9	cloudy	K. Ogawa.
Hakodate	29.72	754.9	29.74	755.4	47.0	8.3	93	n.	3.0	1.3			0			0	0	clear	
Hiroshima, I. M. Obs'y	29.69	754.1	29.70	754.4	60.2	15.7	89	ene.	2.5	1.1		ck	10 s			0.051	1.3	overcast	J. Sogawa.
Kanazawa	29.62	752.3	29.72	754.9	60.3	15.7	90	n.	0.3	0.1			10 n			0.150	3.8	raining	S. Endo.
Kioto	29.52	749.8	29.69	754.1	57.1	13.9	82	n.	2.3	1.0			10 n			0.320	8.1	light rain	M. Tojima.
Kochi	29.67	753.6	29.69	754.1	60.4	15.8	81	wnw.	4.5	2.0		cs	8 s		n.	0.249	6.3	cloudy	K. Kusunose.
Nagasaki, I. M. Obs'y	29.56	750.8	29.76	755.9	65.1	18.4	86	w.	1.1	0.5		0	9 s			0	0	cloudy	S. Takehayashi.
Niigata	29.68	753.9	29.72	754.9	62.8	17.1	71	se.	8.1	3.6			10 n			0.070	1.8	light rain	M. Morita.
Nobiru	29.73	755.1	29.75	755.6	60.1	15.6	78	sw.	18.4	8.2			10 s			0.320	8.1	covered	H. Midzushina.
Supporo					53.9	12.2	88	se.	18.0	8.0			8			0	0	overcast	
Tokei Obs'y, Yeddo	29.68	753.9	29.74	755.4	55.9	13.3	100	nne.	5.8	2.6			10 n			1.980	50.3	raining	The Staff.
Wakayama	29.62	752.3	29.67	753.6	58.3	14.6	86	nne.	5.4	2.4			10 n			0.484	12.3	raining	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.92	760.0	30.11	764.8	77.7	25.4	73	e.	13.5	6.0		2 c;cs	4 k;ks	wnw.	e.	0.21	5.3	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.72	602.5	29.94	760.5	62.1	16.7	63	ssw.								0	0	foggy	Prof. Vicente Fernandez.
Leon	24.29	617.0	29.95	760.7	57.2	14.0	70	n.			1	1 c	0			0	0	dense fog	Prof. M. Leal.
Mazatlan	29.70	754.4	29.96	761.0	70.5	21.4	90	e.	0.9	0.4		6 ck	0	wsw.				fair	F. Quijano, C. E.
Mexico, Central Obs'y	23.13	587.5	30.14	765.5	56.5	13.6	75	calm	0	0		0	0			0.016	0.4	foggy	The Staff.
Morelia	24.13	613.0	30.16	766.1	64.0	17.8	72	se.			2	3	5	se.	s.	0	0	covered	M. Tena, M. D.
Pabellon, Aguascalientes	23.98	609.1	29.96	760.9	59.7	15.4	56	w.			1	0	0			0	0	foggy	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.40	594.4	30.13	765.3	55.0	12.8	85	n.	0.2	0.1		0	0			0	0	clear	Prof. P. Spina.
San Luis Potosi	24.20	614.7	30.15	765.7	62.6	17.0	58	e.			1	0	2		e.	0	0	clear	G. Barroeta, M. D.
Zacatecas	22.55	572.8	30.10	764.4	58.5	14.8	87					0	0			0	0	fine	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.37	771.3	30.37	771.3	59.4	15.2		w.			2					0	0		
Groningen	30.22	767.6	30.28	769.0	53.4	11.9		nnw.			5					0	0		
Helder	30.32	770.1	30.32	770.1	51.3	10.7		nw.			1					0	0		
Hellevoetsluis	30.35	770.8	30.35	770.8	59.5	15.3	48	w.			1					0	0		
Utrecht	30.28	769.2	30.33	770.4	58.3	14.6	50	wnw.			1		5			0	0	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	30.02	762.4	30.08	764.0	41.0	5.0	75	nnw.	25	11			7			0.252	6.4	raining	
Brono	29.86	758.5	29.90	759.5	45.3	7.4	66	n.	18	8			3			0.205	5.2		
Christiania	29.63	752.6	29.78	756.3	52.2	11.2	28	nnw.	20	9			7			0.039	1.0		
Gjæsvær	29.89	759.2	29.91	759.8	52.7	11.5		calm			0		0						
Lodingen	29.87	758.7	29.92	759.9	46.8	8.2	51	calm			0		1			0	0		
PORTUGUESE.																			
Angra, Azores					61.9	16.6	92	wnw.	13.0	5.8			10					raining	Dr. J. A. Sampaio.
Campo Major	29.07	738.3	30.04	763.0	75.2	24.0	38	sse.	3.8	1.7			1			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.09	764.2	30.17	766.4	66.7	19.3	69	se.					10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.75	755.7	30.11	764.7	65.3	18.5	68	ssw.	15.4	6.9			5			0	0		The Staff.
Ponta Delgada, Azores	29.93	760.2	30.00	762.0	66.2	19.0	75	ssw.	20.6	9.2			10			0	0		
Saint Paul de Loando	29.78	756.4	29.98	761.5	78.8	26.0	87	sw.	1.3	0.6			3	sse.		0	0		
Serra da Estrella	25.34	643.5	30.03	762.7	52.5	11.4	69	e.	19.9	8.9			4			0	0		
RUSSIAN.																			
Akmolinski	28.97	735.8	30.03	762.8	59.4	15.2	35	ene.	16	7		0	0			0	0		Major K. Lasarew.
Archangel	29 74	755.3	29.76	755.8	37.9	3.3	78	nwt	4	2			10			0	0		Capt. Sseliwerstow.
Astrakhan	30.00	762.0	29.92	759.9	77.9	25.5	39	sse.	9	4		0	4 s			0	0		Capt. Wisganow.
Barnaul	29.68	753.8	30.19	766.7	46.8	8.2	37	n.	13	6			1			0	0		Meteorological Obs'y.
Dorpat	29.21	741.8	29.45	747.9	50.2	10.1	78	ssw.	9	4			9 k			0.142	3.6		Observatory.
Ekaterinburg	29.02	737.0	29.97	761.1	59.0	15.0	59	sse.	16	7		1 c	0			0.394	10.0		Meteorological Obs'y.
Kasan	29.64	752.9	29.97	759.8	49.3	9.6	82	wnw.	2	1			10			0.173	4.4		Observatory.
Kertch	29.79	756.7	29.81	757.2	57.4	14.1	84	nw.	9	4			10 n			0.075	1.9		Lagorio & Sastyrez.
Kieff	29.22	742.2	29.84	758.0	59.7	15.4	45	w.	7	3			10ks;n			0	0		Observatory.
Lugan	29.59	751.5	29.79	756.6	66.4	19.1	59	n.	13	6			6			0.551	14.0		Meteorological Obs'y
Moscow	29.34	745.1	29.80	757.0	56.7	13.7	35	s.	4	2			2 ks						Meteorological Obs'y.
Nikolaiev	29.89	759.1	29.96	760.9	66.2	19.0	33	ne.	9	4		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor.	29.76	755.9	29.85	758.1	35.6	2.0	91	calm	0	0			10			0	0		Lieut. Iwanow.
Pekin, China	29.65	753.2	29.80	756.8	76.5	24.7	31	calm	0	0		0	3 ks			0	0		Physical Observatory
St. Petersburg	29.57	751.1	29.59	751.5	47.5	8.6	69	se.	16	7		0	8 ku			0.039	1.0		Central Physical Obs'y.
Semipalatinsk	29.54	750.3	30.20	767.0	56.5	13.6	30	ne.	18	8		0	0			0	0		Major Lasareu.
Tashkend, Laboratory	28.47	723.0	29.98	761.6	71.6	22.0	53	calm	0	0			10			0	0		Teich, A. M.
Tiflis	28.45	722.7	29.80	756.8	79.9	26.6	52	se.	9	4		0	7 s			0	0		Physical Observatory
Vladivostock	29.75	755.6	29.82	757.3	48.4	9.1	89	calm	0	0		0	5 k			0	0		
Warsaw	29.50	749.4	29.93	760.2	51.8	11.0	43	wnw.	27	12		cs	7 k						Astronomical Obs'y.
Wilna	29.32	744.6	29.73	755.2	50.7	10.4	52	wsw.	16	7			7			0.028	0.7	heavy cl'ds.	Berg, Assistant.
Yeniseisk	29.82	757.4	30.11	764.9	38.1	3.4	58	w.	9	4			10			0.004	0.1		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.95	760.8	30.06	763.4	67.1	19.5	76	e.	3.4	1.5			1			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.02	762.6	30.08	764.1	87.4	30.8	34	e.	1.6	0.7		1	0	s.		0	0	almost clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.14	689.3	29.97	761.1	76.5	24.7	39	s.	8.1	3.6			3			0	0	light clouds	Domingo Martin.
Madrid, Royal Obs'y	27.86	707.7	29.98	761.6	81.3	27.4	35	sw.	8.1	3.6		0	1			0	0	lightly cl'dy	The Staff.
Murcia, Met. Obs'y	29.93	760.3	30.08	764.0	75.4	24.1	54	wsw.	2.9	1.3		5	5			0	0	covered	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.10	739.2	29.98	761.4	70.2	21.2	68	sw.	8.1	3.6			7			0	0	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	29.92	760.0	29.99	761.6	77.1	25.1	83	ssw.	0	0		0	8 k;n		wnw.	0.047	1.2	raining	Benito Vines, S. J.
Manilla, Philippine Islands	29.85	758.2	29.91	759.7	82.5	28.1	76	n.	0.9	0.4		4 c	3 ck		e.	0	0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.01	762.2	30.10	764.6	70.9	21.6	61	wnw.	6.3	2.8		0	3		nw.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.95	760.8	30.04	763.1	77.0	25.0	84	calm	0	0		4 k	5 k	e.	e.	0	0	cloudy	Manuel Maese.
Tuguegarao, Philippine Id's	29.83	757.7	29.96	761.0	77.5	25.3	83	ese.	1.1	0.4			9 n		se.	0.30	7.6	covered	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.87	758.7	29.91	759.7	45.0	7.2	42	e.			4		5			0	0		
Umea	29.72	754.9	29.77	756.2	36.3	2.4	100	ne.			6		10			0.335	8.5		
Hernosand	29.63	752.6	29.68	753.9	35.2	1.8	93	ne.			2		10			0.795	20.2		
Stockholm	29.25	742.9	29.43	747.4	39.6	4.2	97	nne.			6		10			0.689	17.5	raining	
Wisby	29.40	746.7	29.46	748.2	40.6	4.8	84	nw.			7		10			0.213	5.4		
Sub-series.																			
Upsala	29.38	746.2	29.47	748.4	37.2	2.9	99	nnw.	19.5	8.7			10		n.	0.118	3.0	raining	S. G. Fineman.
SWISS.																			
Geneva	28.71	729.1	30.09	764.3	68.9	20.5	50	nne.			1					0	0	clear	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
TURKISH.																			
Constantinople			30.08	764.1	54.7	12.6	68	n.	8	3.5			10		n.	0	0		The Observatory.
Valona			30.15	765.9	68.4	20.2		nw.			1		5			0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.89	759.2	73.9	23.3	69	nw.			1	0	0			0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.88	758.9	29.96	761.0	48	8.9	71	n.	2	0.9			10 s		ne.	0.77	19.6	cloudy	J. O. Barnes.
Alpena, Michigan	29.33	745.0	29.99	761.7	45	7.2	68	ne.	9	4.0			10 s		e.	0.96	24.4	cloudy	Jas. J. Fitzgerald.
Atlanta, Georgia	28.68	728.5	29.85	758.2	53.0	11.7	64	w.	8	3.6		0	0			0.16	4.1	clear	H. Hall.
Atlantic City, New Jersey	29.80	756.9	29.80	756.9	45.8	7.7	94	ne.	24	10.7			10 n			0.37	9.4	light rain	Jas. M. Watson.
Augusta, Georgia	29.67	753.6	29.86	758.4	59	15.0	54	w.	7	3.1		0	0			inap.	inap.	clear	John Healy.
Baltimore, Maryland	29.83	757.7	29.88	758.9	46	7.8	83	e.	5	2.2			10s;fg			0.03	0.8	cloudy	Robert Seyboth.
Barnegat, New Jersey	29.82	757.4	29.84	757.9	45.0	7.2	100	e.	14	6.3			10 n			1.21	30.7	light rain	Chas. F. Merritt.
Bismarck, Dakota	28.43	722.1	30.21	767.3	41	5.0	82	calm	0	0		0	0			0	0	clear	Cyrus Cramer.
Boise City, Idaho	27.08	687.8	29.92	760.0	43	6.1	76	nw.	4	1.8		0	6 s		calm	0	0	fair	B. E. Light.
Boston, Massachusetts	29.81	757.2	29.97	761.2	41.0	5.0	96	ne.	20	8.9			10n;fog		ne.	0.63	16.0	light rain	O. B. Cole.
Brownsville, Texas	29.88	758.9	29.92	760.0	76	24.4	97	e.	4	1.8		hz.	0			0	0	dense haze	M. McCarty.
Buffalo, New York	29.12	739.6	29.86	758.4	42.8	6.0	83	ne.	8	3.6			10 s		ne.	0.17	4.3	cloudy	Wm. Finn.
Burlington, Vermont	29.73	755.1	30.02	762.5	46.5	8.1	73	calm	0	0			10 s		e.	0.11	2.8	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.48	748.8	29.88	758.9	47.7	8.7	88	nw.	12	5.4			10 s		nw.	0.21	5.3	threatening.	W. H. Ray.
Campo, California	27.39	695.7	29.92	760.0	42	5.6	76	sw.	5	2.2			10 s		sw.	0	0	cloudy	W. H. Clendenon.
Camp Thomas, Arizona	27.11	688.6	29.78	756.4	60	15.6	32	w.			1	4 cs	4 ks	w.	w	0	0	cloudy	J. T. Fitzgerald.
Cape Henry, Virginia	29.79	756.7	29.81	757.2	50	10.0	93	ne.	19	8.5			10 s		ne.	0.02	0.5	cloudy	J. E. Lanouette.
Cape May, New Jersey	29.76	755.9	29.80	756.9	46	7.8	93	ne.	20	8.9			10 n		ne.	0.23	5.8	light rain	W. Bolten.
Cedar Keys, Florida	29.86	758.4	29.88	758.9	76	24.4	60	w.	18	8.0		0	3 k		w.	0	0	clear	F. W. Mixer.
Champaign, Illinois	28.92	734.6	29.72	754.9	43.5	6.4	88	n.	20	8.9			10 s		ne.	1.23	31.2	cloudy	L. A. Welsh.
Charleston, S. Carolina	29.73	755.1	29.78	756.4	65	18.3	54	nw.	14	6.3		3 ck	0	w.		0	0	clear	J. H. Smith.
Charlotte, N. Carolina	28.85	732.8	29.69	754.1	59.0	15.0	70	sw.	10	4.5		0	0			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.00	736.6	29.81	757.2	50.0	10.0	63	sw.	8	3.6			10 s		w.	inap.	inap.	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.08	611.6	29.95	760.7	35.4	1.9	77	s.	12	5.4			10 s		s.	0	0	cloudy	E. McGovern.
Chicago, Illinois	29.11	739.4	29.81	757.2	41.7	5.4	100	ne.	12	5.4			10 n			0.52	13.2	light rain	J. Mitchell.
Chincoteague, Virginia	29.78	756.4	29.80	756.9	47	8.3	100	ne.	16	7.2			10 n			0.05	1.3	light rain	V. P. Temple.
Cincinnati, Ohio	29.06	738.1	29.71	754.6	51	10.6	80	nw.	6	2.7		10 k	0	nw.		0.64	16.3	cloudy	R. B. Watkins.
Cleveland, Ohio	29.02	737.1	29.75	755.6	45.6	7.6	84	e.	8	3.6			10 s			0.13	3.3	cloudy	J. B. Newlin.
Coleman City, Texas	28.29	718.6	30.08	764.0	53	11.7	61	ne.	4	1.8			10 s			0	0	cloudy	L. Dorman.
Columbus, Ohio	28.83	732.3	29.67	753.6	51	10.6	86	sw.	5	2.2			10 ks		w.	1.18	30.0	cloudy	D. Cuthbertson.
Concho, Texas	28.16	715.3	30.06	763.5	55	12.8	57	e.	8	3.6			10 s			0	0	cloudy	W. W. McConihe.
Davenport, Iowa	29.26	743.2	29.90	759.4	44	6.7	83	ne.	10	4.5			10 s		ne.	0.19	4.8	cloudy	R. R. Martin.
Dayton, Washington T'y	28.28	718.3	30.03	762.7	32	0.0	92	calm	0	0		0	0			0.34	8.6	clear	H. Clifford.
Deadwood, Dakota	25.46	646.7	29.97	761.2	36	2.2	66	sw.	6	2.7		0	0			0	0	clear	G. W. Scott.
Decatur, Texas					49	9.4	63	n.	5	2.2		0	0			0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	29.78	756.4	29.80	756.9	47	8.3	100	ne.	33	14.8			10ks;fg		ne.	0.03	0.8	cloudy	A. Schneider.
Denison, Texas	29.30	744.2	30.09	764.3	46.0	7.8	53	nw.	4	1.8		0	0			0	0	clear	J. McGlone.
Denver, Colorado	24.76	628.9	29.92	760.0	45.0	7.2	71	nw.	8	3.6			10 s		calm	0	0	cloudy	F. M. Neal.
Des Moines, Iowa	29.10	739.1	30.00	762.0	47	8.3	68	ne.	12	5.4		4 ck	6 s	ne.	ne.	0.08	2.0	cloudy	F. W. Conrad.
Detroit, Michigan	29.09	738.9	29.79	756.7	44.1	6.7	76	ne.	17	7.6			10 s		ne.	0.51	13.0	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.56	700.0	30.11	764.8	44	6.7	76	n.	12	5.4		0	8 k		nw.	0	0	cloudy	E. A. Thomas.
Dubuque, Iowa	29.23	742.4	29.93	760.2	42.3	5.7	83	n.	6	2.7			10 n		n.	0.25	6.3	light rain	J. Harvey Smith.
Duluth, Minnesota	29.52	749.8	30.22	767.6	48	8.9	42	n.	10	4.5		hz.	hz.			0	0	dense haze	N. B. Conger.
Eagle Pass, Texas	29.25	742.9	30.05	763.3	65.1	18.4	54	e.	7	3.1			10 s			inap.	inap.	cloudy	F. Belford.
Eagle Rock, Idaho	25.09	637.3	29.77	756.1	42	5.6	74	s.	22	9.8		6 cs	0	s.		0	0	fair	J. M. Clifford.
Eastport, Maine	30.04	763.0	30.11	764.8	41.5	5.3	73	n.	11	4.9			10 s		n.	0	0	cloudy	J. H. Melton.
El Paso, Texas	26.20	665.5	29.84	757.9	51	10.6	74	calm	0	0		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.08	738.6	29.80	756.9	48	8.9	71	e.	8	3.6			10 s		e.	0.23	5.8	cloudy	R. H. Paxton.
Escanaba, Michigan	29.39	746.5	30.05	763.3	44	6.7	68	nw.	5	2.2		5 k	2 s	e.		0.03	0.8	fair	C. Dill.
Fort Apache, Arizona	24.98	634.5	29.80	756.9	39	3.9	59	e.	4	1.8		0	c			0	0	clear	W. O. Barnes.
Fort Assinnaboine, Montana	26.96	684.8	29.80	756.9	51	10.6	32	e	22	9.8		1 c	0	e.		0	0	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.57	725.7	30.13	765.3	36.0	2.2	82	nw.	2	0.9		0	0			0	0	clear	A. Pritchard.
Fort Benton, Montana	26.92	683.8	29.71	754.6	48	8.9	58	ne.	3	1.3		6 c	0			0	0	fair	G. W. Davis.
Fort Buford, Dakota	28.21	716.5	30.19	766.8	40	4.4	67	e.	10	4.5		0	0			0	0	clear	A. H. Bell.
Fort Custer, Montana	26.69	677.9	29.79	756.7	44	6.7	68	se.	8	3.6		0	6 s		calm	0	0	fair	V. Verge.
Fort Davis, Texas	25.13	638.3	29.85	758.2	53	11.7	52	n.	2	0.9		0	0			0	0	clear	J. Williams.
Fort Elliott, Texas	27.33	694.4	30.04	763.0	39	3.9	65	n.	4	1.8			10 s		n.	0	0	cloudy	W. J. Cundall.
Fort Gibson, Indian T'y																			J. B. Campbell.
Fort Grant, Arizona	25.20	640.1	29.81	757.2	63	17.2	30	ne.	4	1.8		0	7 s		sw.	0	0	fair	T. J. Macgowan.
Fort Keogh, Montana	27.55	699.8	30.00	762.0	42	5.6	67	se.	16	7.2		0	0			0	0	clear	W. B. Stockman.
Fort Macon, North Carolina	29.74	755.4	29.75	755.6	60	15.6	100	e.	16	7.2			10 s		e.	0.53	13.5	cloudy	L. Leonardy.
Fort McKavett, Texas	27.76	705.1	30.00	762.0	64	17.8	65	ne.	10	4.5			10 s			0	0	cloudy	J. E. Thatcher.
Fort Missoula, Montana	26.58	675.1	29.88	758.9	45	7.2	63	sw	2	0.9			10 s		s.	0	0	cloudy	J. H. Jones.
Fort St. Michaels, Alaska	30.36	771.1	30.39	771.9	33	0.6	100	sw.	6	2.7			10 s			0	0	cloudy	A. P. Leavitt.
Fort Shaw, Montana	26.10	662.9	29.70	754.4	51	10.6	48	w.	3	1.3		5 k	0	s.		0	0	fair	A. L. Mathews.
Fort Sill, Indian Territory	28.89	733.8	30.11	764.8	46.5	8.1	75	calm	0	0		8 ck	0	w.		0	0	cloudy	T. Cleary.
Fort Stevenson, Dakota	28.40	721.3	30.23	767.8	41	5.0	92	e.	3	1.3		0	0			0	0	clear	W. Burrows.
Fort Verde, Arizona					55.2	12.9	42	sw.			2	0	0			0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.37	619.0			37.7	3.2	85	nw.	3	1.3		1 c	0			0	0	clear	T. M. Ambler.
Fredericksburg, Texas	28.33	719.6	30.05	763.3	56	13.3	69	e.	4	1.8		4 ck	0	sw.		0	0	fair	H. S. Miles.
Galveston, Texas	29.99	761.7	30.04	763.0	63	17.2	78	ne.	19	8.5		0	hz.			0	0	clear	E. O'C. MacInerney.
Grand Haven, Michigan	29.19	741.4	29.85	758.2	44.0	6.7	83	ne.	14	6.3			10 s		ne.	0.07	1.8	cloudy	W. A. Reid.
Hatteras, North Carolina	29.76	755.9	29.78	756.4	55	12.8	100	ne.	16	7.2			10 s		ne.	0.04	1.0	cloudy	R. M. Crawford.
Helena, Montana	25.56	649.2	29.73	755.1	52	11.1	55	sw.	15	6.7		6 c	0	sw.		0	0	fair	S. Wheaton.
Henrietta, Texas	29.16	740.7	30.14	765.5	45.0	7.2	68	n.	2	0.9		0	0			0	0	clear	J. W. Byram
Huron, Dakota	28.82	732.0	30.17	766.3	45	7.2	76	n.	4	1.8		5 ck	0	n.		0	0	fair	S. W. Glenn.
Indianapolis, Indiana	28.90	734.0	29.69	754.1	47	8.3	86	sw.	3	1.3		0	8 s		sw.	0.69	17.5	cloudy	O. Schulze
Indianola, Texas	29.98	761.5	30.01	762.2	64.0	17.8	73	ne.	27	12.1		0	0			0	0	clear	I. A. Reed.
Jacksboro, Texas	28.97	735.8	30.12	765.0	45	7.2	83	n.	1	0.4		2 cs	0	sw.		0	0	clear	J. P. Sherry.
Jacksonville, Florida	29.82	757.4	29.86	758.4	75	23.9	60	sw.	10	4.5		0	0			0	0	clear	J. W. Smith.
Keokuk, Iowa	29.21	741.9	29.86	758.4	43.5	6.4	85	n.	10	4.5			10 s		n.	0.51	13.0	cloudy	F. Z. Gosewisch
Key West, Florida	29.93	760.2	29.95	760.7	79.0	26.1	62	n.	5	2.2		0	0			0.32	8.1	clear	L. M. Melbourne.
Kittyhawk, North Carolina	29.78	756.4	29.80	756.9	50	10.0	100	e.	15	6.7			10 s		e.	0.04	1.0	cloudy	E. A. Beals.
Knoxville, Tennessee	28.78	731.0	29.80	756.9	46.2	7.9	83	sw.	10	4.5			10 n		w.	0.12	3.0	light rain	J. A. Cody.
La Crosse, Wisconsin	29.21	741.9	29.97	761.2	48	8.9	56	n.	12	5.4			10 s			0.03	0.8	cloudy	S. C. Emery.
La Mesilla, New Mexico	26.03	661.2	29.79	756.7	49.8	9.9	55	calm	0	0		1 c	0			0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.14	740.1	30.02	762.5	45	7.2	83	nw.	13	5.8			10 s		ne.	inap	inap.	cloudy	A. W. Browne.
Lewiston, Idaho	29.21	741.9	30.05	763.3	42.5	5.8	69	ne.	4	1.8			10 s		ne.	0.07	1.8	cloudy	J. M. Burlew.
Little Rock, Arkansas	29.63	752.6	29.94	760.5	51	10.6	80	w.	5	2.2		0	9 s		n.	0	0	cloudy	W. U. Simmons.
Los Angeles, California	29.62	752.3	30.02	762.5	55.1	12.8	80	s.	5	2.2			9 s		calm	0	0	cloudy	E. F. Kubel.
Louisville, Kentucky	29.14	740.1	29.69	754.1	51	10.6	80	sw.	4	1.8			9 k			0.11	2.8	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.11	739.4	29.79	756.7	47.5	8.6	86	ne.	8	3.6			10 n		ne.	0.18	4.6	light rain	W. R. Bushby.
Madison, Wisconsin	28.92	734.6	29.92	760.0	42	5.6	92	ne.	18	8.0			10 s		ne.	0.17	4.3	cloudy	C. A. Shaw.
Marquette, Michigan	29.41	747.0	30.13	765.3	44	6.7	60	nw.	8	3.6		3 c	0	nw.		0	0	clear	J. Gilligan.
Memphis, Tennessee	29.57	751.1	29.90	759.4	51	10.6	80	w.	4	1.8			10 s			0	0	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.15	740.4	29.89	759.2	41	5.0	92	n.	24	10.7			10 s		ne.	0.13	3.3	cloudy	W. Line.
Mobile, Alabama	29.96	761.0	30.00	762.0	58	14.4	57	n.	4	1.8		5 k	3 ks	nw.		0	0	cloudy	J. D. Paxton.
Montgomery, Alabama	29.71	754.6	29.94	760.5	56	13.3	62	w.	7	3.1		0	0			0	0	clear	J. B. McLaughlin.

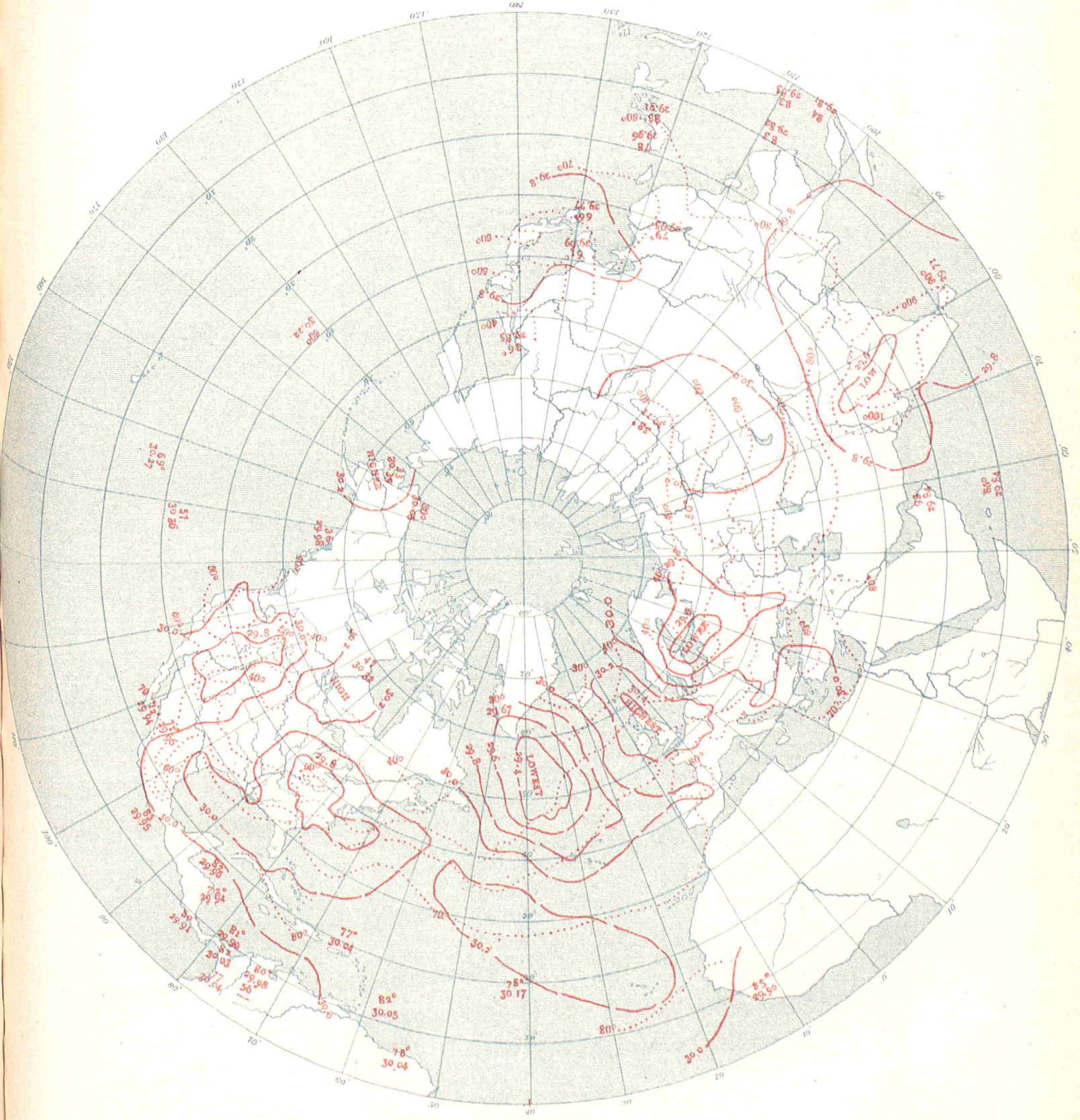
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Moorhead, Minnesota	29.24	742.7	30.22	767.6	44.3	6.8	76	calm	0	0		0	0			0	0	clear	H. Bessant.
Morgantown, W. Virginia	28.71	729.2	29.72	754.9	48.0	8.9	77	e.	5	2.2			10 s		e.	0.04	1.0	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H	23.73	602.7	29.91	759.7	26.0	— 3.3	96	se.	13	5.8			10n;fg		se.	0.79	20.1	light snow	J. G. Linsley.
Nashville, Tennessee	29.24	742.7	29.77	756.1	48.5	9.2	86	w.	7	3.1			10 n		w.	0.06	1.5	light rain	L. A. Jesunofsky.
New Haven, Connecticut	29.76	755.9	29.88	758.9	42	5.6	92	ne.	18	8.0			10s;sk		ne.	0.62	15.7	cloudy	J. H. Sherman.
New London, Connecticut	29.82	757.4	29.86	758.4	45	7.2	100	ne.	12	5.4			10 n		ne.	0.62	15.7	light rain	J. G. Lynch.
New Orleans, Louisiana	29.95	760.7	30.00	762.0	64.0	17.8	52	nw.	8	3.6			10 s		nw.	0	0	cloudy	L. Dunne.
Newport, Rhode Island	29.83	757.7	29.88	758.9	44.8	7.1	94	ne.	12	5.4			10 n		calm	0.53	13.5	light rain	W. McGillivray.
New River, N. Carolina																			C. C. Corbin.
New Shoreham, Rhode I'd.	29.82	757.4	29.85	758.2	43.1	6.2	100	ne.	31	13.9			10ks;fg		ne.	0.79	20.1	cloudy	W. Davis.
New York, New York	29.70	754.4	29.88	758.9	43	6.1	100	ne.	16	7.2			10 s		ne.	0.51	13.0	cloudy	E. B. Garriott.
Norfolk, Virginia	29.76	755.9	29.79	756.7	52	11.1	93	e.	5	2.2			10 s		ne.	0.08	2.0	cloudy	J. T. Elker.
North Platte, Nebraska	27.26	692.4	30.13	765.3	38.1	3.4	82	calm	0	0		0	1 s			0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.02	762.5	30.06	763.5	31.5	— 0.3	88	s.	3	1.3		4 cs	0	calm		inap.	inap.	fair	J. Dascomb.
Omaha, Nebraska	28.93	734.8	30.09	764.3	45.0	7.2	83	nw.	12	5.4		0	8 ks; s		nw.	0.03	0.8	cloudy	A. Pollak.
Ogdaamie, Pt. Barrow, Alas.	30.05	763.3	30.06	763.5	30.0	— 1.1	100	wsw.	17	7.6			10 s			0.03	0.8	cloudy	P. H. Ray.
Oswego, New York	29.60	751.8	29.93	760.2	46.2	7.9	83	e.	8	3.6			10 s			0.55	14.0	cloudy	S. W. Beall.
Palestine, Texas	29.55	750.6	30.10	764.5	53.0	11.7	64	n.	10	4.5		6 ck	0	w.		0	0	fair	L. M. Pindell.
Pensacola, Florida	29.95	760.7	29.98	761.5	60.4	15.8	58	n.	6	2.7		4 cs	0	w.		0	0	fair	M. McGauran.
Philadelphia, Pa	29.77	756.1	29.87	758.7	44	6.7	100	ne.	12	5.4			10 n		e.	0.10	2.5	light rain	T. F. Townsend.
Pike's Peak, Colorado	17.76	451.1	29.82	757.4	23.5	— 4.7	64	nw.	28	12.5		0	0			0	0	clear	L. M. Dey.
Plooche, Nevada	23.80	604.5	29.72	754.9	48.8	9.3	27	s.	5	2.2		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	28.94	735.1	29.74	755.4	46.8	8.2	77	ne.	10	4.5			10 ks		e.	0.03	0.8	cloudy	J. H. Bryce.
Poplar River, Montana	28.03	711.9						se.			1	0	0			0	0	clear	U. D. Maxwell.
Port Eads, Louisiana	29.99	761.7	30.00	762.0	66.2	19.0	63	n.	16	7.2		0	0			0	0	clear	H. G. Christian.
Port Huron, Michigan	29.16	740.7	29.84	757.9	40.8	4.9	92	ne.	17	7.6			10 s			0.12	3.0	cloudy	W. O. Bailey.
Portland, Maine	30.01	762.2	30.06	763.5	47.0	8.3	68	e.	11	4.9			10 s		e.	0.01	0.3	cloudy	D. C. Murphy.
Portland, Oregon	29.96	761.0	30.03	762.7	40.0	4.4	82	calm	0	0			10 s		calm	0.02	0.5	cloudy	M. L. Hearne.
Portsmouth, N. Carolina					56	13.3	74	ne.	16	7.2			10 ks		ne.	0.16	4.1	cloudy	F. P. Chaffee.
Prescott, Arizona	24.68	626.9	29.78	756.4	53	11.7	38	s.	4	1.8		5 k	0	calm		0	0	fair	J. McN. Wright.
Provincetown, Mass	29.87	758.7	29.90	759.4	41.5	5.3	100	ne.	16	7.2			10 n			1.12	28.4	light rain	P. T. Jenkins.
Punta Rassa, Florida	29.92	760.0	29.93	760.2	80	26.7	54	w.	8	3.6		1 ck	0	w.		0	0	clear	W. J. Evans.
Red Bluff, California	29.64	752.8	30.01	762.2	44.3	6.8	45	n.	3	1.3		1 c	0	w		0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.69	754.1	29.93	760.2	77	25.0	82	e.	10	4.5			10 s		e.	0	0	cloudy	P. M. Wilson.
Rochester, New York	29.24	742.7	29.90	759.4	43	6.1	83	e.	8	3.6			10 ks		se.	0.70	17.8	cloudy	F. Gillam.
Roseburg, Oregon	29.45	748.0	30.00	762.0	35	1.7	83	e.	1	0.4		5 c	0			0.01	0.3	fair	J. J. Nanry.
Sacramento, California	29.95	760.7	30.03	762.7	42.8	6.0	74	s.	4	1.8		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.25	742.9	29.84	757.9	43.5	6.4	96	n.	15	6.7			10 s		nw.	0.14	3.6	cloudy	J. H. Webber.
St. Paul, Minnesota	29.24	742.7	30.09	764.3	47.0	8.3	63	n.	12	5.4		1 ck	0	nw.		0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.43	747.5	30.29	769.4	42	5.6	65	ne.	3	1.3		0	0			0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.38	644.6	29.70	754.4	57	13.9	47	nw.	5	2.2		4 k	0	sw.		0	0	fair	J. Craig.
San Antonio, Texas	29.35	745.5	30.05	763.3	58	14.4	57	n.	12	5.4			10 s		calm	0	0	cloudy	E. Lane.
San Diego, California	29.91	759.7	29.98	761.5	59.7	15.4	68	sw.	8	3.6		3 k	5 s	s.		0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.04	737.6	29.71	754.6	45	7.2	100	ne.	27	12.1			10 n		ne.	0.27	6.9	light rain	M. H. Perry.
Sandy Hook, New Jersey	29.83	757.7	29.87	758.7	45.0	7.2	93	ne.	29	13.0			10 n		ne.	1.78	45.2	light rain	B. A. Blundon.
San Francisco, California	30.02	762.5	30.09	764.3	46	7.8	60	w.	15	6.7		0	0			0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.20	589.3	29.81	757.2	48	8.9	46	e.	2	0.9		8 c	0	w.		0	0	cloudy	H. U. Jones.
Savannah, Georgia	29.75	755.6	29.84	757.9	64	17.8	47	nw.	10	4.5		1 ck	0			0	0	clear	H. W. Ford.
Shreveport, Louisiana	29.83	757.7	30.07	763.8	51	10.6	80	nw.	5	2.2		4 cs	5 s	nw.	nw.	inap.	inap.	cloudy	E. N. Meekins.
Silver City, New Mexico	24.25	615.9	29.80	756.9	48	8.9	37	calm	0	0		5 k	0	calm		0	0	fair	J. B. Wallace.
Sitka, Alaska	29.92	760.0	29.98	761.5	35.5	1.9	82	calm	0	0		0	0			0	0	clear	J. J. McLean.
Smithville, North Carolina	29.70	754.4	29.74	755.4	70	21.1	76	nw.	13	5.8			10 s		nw.	0	0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.95	709.9	30.00	762.0	38	3.3	92	s.	9	4.0		9 cs	0			0.45	11.4	cloudy	D. Moore.
Springfield, Illinois	29.14	740.1	29.82	757.4	42	5.6	92	n.	13	5.8			10 n		n.	0.65	16.5	light rain	T. B. Jennings.
Springfield, Massachusetts	29.81	757.2	29.94	760.5	44.6	7.0	83	ne.	10	4.5			10 s		ne.	0.74	18.8	cloudy	T. S. Outram.
Springfield, Mo	28.51	724.1	29.99	761.7	44.5	6.9	86	nw.	12	5.4			10 n		n.	0.08	2.0	light rain	J. B. Marbury.
Starkville, Miss	29.46	748.3			50	10.0	77	w.	8	3.6		0	0			0	0	clear	M. J. Wright.
Stockton, Texas	27.00	685.8	30.01	762.2	55.0	12.8	69	e.	8	3.6			10 s		e.	0	0	cloudy	J. O'Dowd.
Thatcher's Island, Mass	29.94	760.5	29.99	761.7	39.8	4.3	100	ne.	28	12.5			10 n			1.01	25.7	light rain	F. R. Day.
Toledo, Ohio	29.05	737.9	29.73	755.1	45	7.2	93	e.	36	16.1			10 n		e.	0.16	4.1	light rain	A. Buell.
Tucson, Arizona	27.48	698.0	29.82	757.4	65	18.3	36	s.	3	1.3		0	6 ks			0	0	fair	J. L. Whiteside.
Umatilla, Oregon	29.70	754.4	30.07	763.8	36	2.2	69	nw.	2	0.9		0	0			inap.	inap.	clear	J. Daly.
Uvalde, Texas	29.05	737.9	30.00	762.0	62	16.7	46	e.	9	4.0			10 s		se.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.75	755.6	30.00	762.0	57	13.9	78	w.	8	3.6		0	0			inap.	inap.	clear	H. T. Brisbane.
Visalia, California	29.64	752.8	30.01	762.2	46	7.8	60	nw.	6	2.7		0	0			0	0	clear	W. L. Seward.
Washington, D. C	29.75	755.6	29.86	758.4	44.2	6.8	96	ne.	5	2.2			10 n		ne.	0.02	0.5	light rain	B. M. Purssell.
West Las Animas, Colorado	26.15	664.2	30.01	762.2	46	7.8	71	se.	20	8.9			10 s		sw.	0	0	cloudy	J. Grover.
Williamsport, Pa	29.27	743.4	29.87	758.7	46	7.8	80	se.	9	4.0			10 ks		se.	0.08	2.0	cloudy	B. F. Hough.
Wilmington, N. Carolina	29.77	756.1	29.82	757.4	70	21.1	79	w.	4	1.8		7 k	0	w.		0	0	fair	A. T. Sherwood.
Winnemucca, Nevada	28.52	648.2	29.87	758.7	29	— 1.7	59	ne.	9	4.0		0	0			0	0	clear	J. R. Williams.
Yankton, Dakota	28.88	733.5	30.16	766.1	44	6.7	76	n.	2	0.9		10 ck	0			0	0	cloudy	J. H. Atfield.
Yuma, Arizona	29.67	753.6	29.82	757.4	66.0	18.9	40	nw.	5	2.2		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.06	560.3			56.0	13.3	77	n.	1	0.4		3 k	5ks;s	w.		0	0	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W. I.	30.04	763.0	30.05	763.3	82	27.8	87	e.				5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	30.01	762.2	30.04	763.0	77	25.0	90	n.	3	1.3			10 ks		s.	0	0	cloudy	J. I. Plume.
Havana, Cuba, W. I.	29.97	761.2	30.02	762.5	81	27.2	79	calm	0	0			10 ks		calm	0.05	1.3	cloudy	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.02	762.5	30.03	762.7	80.7	27.1	69	calm	0	0		2 cs	2 s		e.	0	0	fair	Robert Johnston.
Magua, San Domingo, W. I					73	22.8		calm			0	0	0			0	0		S. M. Pike.
Navassa, W. I.																			F. M. Everett.
Paramaribo, S. A.	30.04	763.0	30.04	763.0	78	25.6	86	e.			1		10 n	e.	e.	0.230	5.8	rainy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.52	749.8	29.98	761.5	80	26.7	71	ne.			1		10 s		calm	0	0	foggy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							96	n.			1	9 ck	0	nw.		0	0	fair	Earl Flint.
Santiago de Cuba, W. I.	29.99	761.7	30.01	762.2	79	26.1	82	n.	1.2	0.5		5 ck	2 s			0.10	2.5	cloudy	Robert Mason.
York Factory, B. A.	30.27	768.8	30.32	770.1	47.0	8.3	96	s.	8	3.6		1 c	0	s.		0	0	fair	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Alert, Port Mozambique, Mozambique	30.05	763.3	84	28.9	76	s.			2		3							d. clouds.
H. M. S. Alexandra, Corfu, Ionian Island	30.09	764.3	67.5	19.7	62	wsw.			2		2							d. clouds.
H. M. S. Amethyst, N. 26° 11′, W. 20° 03′	30.16	766.1	72	22.2	90	n.			1		0							blue sky.
H. M. S. Champion, S. 1° 35′, W. 111° 20′			77	25.0	86	ne.			2		2	calm				2	sw.	d. clouds.
H. M. S. Cleopatra, N. 9° 55′, E. 109° 15′	29.82	757.4	82.5	28.1	91	calm			0		1							blue sky.
H. M. S. Comus, N. 2° 15′ E. 107° 10′	29.83	757.7	82.5	28.1	87	calm			0		3	sw.						d. clouds.
H. M. S. Coquette, Alexandria, Egypt	29.86	758.4	70	21.1		wnw.			2		1	wnw.						blue sky.
H. M. S. Dido, N. 10° 40′, W. 61° 30′	30.05	763.3	78	25.6		calm			0		8	se.						misty.
H. M. S. Druid, N. 16° 27′, W. 85° 54′	29.96	761.0	81.5	27.5	89	e.			2									misty.
H. M. S. Dwarf, S. 33° 55′, W. 58° 24′	29.90	759.4	53.5	11.9	93	ne.			1		0					1	ne.	blue sky.
H. M. S. Eclipse, S. 15° 55′, E. 45° 16′	30.01	762.2	82	27.8		sse.			1		3							d. clouds.
H. M. S. Emerald, S. 50° 45′, W. 160° 40′	29.66	753.4	51	10.6	93	ne.			5-6		10					4	ne.	overcast.
H. M. S. Euryalus, Trincomalee, Ceylon	29.71	754.6	90	32.2	80	ese.			1		9	calm						d clouds.
H. M. S. Fantome, N. 11° 52′, W. 70° 34′	29.96	761.0	78	25.6		e.			4-5		10	e.				4	e.	misty.
H. M. S. Flying Fish, N. 32° 44′, E. 129° 52′	29.71	754.6	69	20.6	98	calm			0		7							misty.
H. M. S. Fawn, N. 10° 08′, E. 57° 52′	29.84	757.9	85	29.4	67	sse.			1		1	se.				1	se.	blue sky.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.10	764.5	56.5	13.6	80	e.			2		10							misty.
H. M. S. Garnet, Colonia, Rio de La Plata, Uruguay	29.94	760.5	55	12.8	87	nnw.			2		4							misty.
H. M. S. Inconstant, Simon's Bay, Cape Colony	29.99	761.7	65	18.3	89	se.			1		4							d. clouds.
H. M. S. Iron Duke, N. 31° 22′ E. 128° 16′	29.77	756.1	66	18.9	94	nw.			2		2					1		d. clouds.
H. M. S. Kingfisher, S. 13° 00′, W. 77° 03′	30.05	763.3	66	18.9		se.			1		8	se.				2	se.	d. clouds.
H. M. S. Lark, S. 8° 14′, E. 156° 30′	29.92	760.0	79.3	26.3		nw.			1		10					1	nw.	drizzling.
H. M. S. Magpie, N. 34° 58′, E. 140° 37′	29.68	753.9	60.1	15.6	92	e.			4-5		10					3	ese.	heavy rain.
H. M. S. Northampton, Bermuda, W. I.	29.97	761.2	73.5	23.1	93	s.			5		4	sse.						d. clouds.
H. M. S. Pegasus, N. 1° 17′, E. 103° 51′	29.81	757.2	83.5	28.6	89	n.			1		2							d. clouds.
H. M. S. Rambler, Saint Paul de Loanda, Benguela	29.98	761.5	79	26.1	90	wsw.			2		1							blue sky.
H. M. S. Rocket, N. 48° 27′, W. 123° 27′	30.01	762.2	39	3.9	91	calm			0		2							d. clouds.
H. M. S. Sylvia, N. 32° 49′ W. 16° 45′	30.28	769.1	70.5	21.4	80	ene.			1		8					1	ene.	d. clouds.
H. M. S. Tenedos, N. 44° 40′ W. 63° 35′	30.15	765.8	37.5	3.1	95	nne.			1		9							foggy.
H. M. S. Triumph, Coquimbo, Chili	30.06	763.5	56	13.3	87	ne.			2		10	calm						d. clouds.
H. M. S. Woodlark, Muscat Cove, Arabia	29.74	755.4	92.5	33.6	52	nw.			1		0					1	nw.	blue sky.
PORTUGUESE NAVAL.																		
Rio Lima, Porto Praya, Cape Verd Islands	30.26	768.6	78.1	25.6	99	ne.			2		2					1		d. clouds.
Tamega, Macao, China	29.85	758.2	83.3	28.5	81	sw.			3		2							d. clouds.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	29.90	759.4	60	15.6	65	nw.	2	0.9			5		nw.	0	0			fair.
N. Yard, Portsmouth, N. H.	30.03	762.7	42	5.6	91	ne.	23	10.3			10		ne.	0	0			misty.
Naval Hospital, Yokohama, Japan	29.66	753.4	55.5	13.1	71	nne.			3		10		n.	0.70	17.8			heavy rain.
Adams, San Francisco, Cal	29.84	757.9	56	13.3	69	wsw.			4-5		0			0	0	sm'h		clear.
Alaska, Payta, Peru	29.99	761.7	65	18.3	78	se.			1		0			0	0	sm'h		clear.
Alert, Kobe, Japan*	29.61	752.1	61	16.1	77	ene.			1		10		calm					drizzling.
Alliance, N. 36° 27′, W. 75° 05′	29.78	756.4	49	9.4	93	n.			2		10			0	0	sm'h		foggy.
Ashuelot, Kobe, Japan	29.69	754.1	60	15.6	88	ne.			2		10		calm					rainy.
Brooklyn, Montevideo, Uruguay	29.94	760.5	56	13.3	81	nnw.	13	5.8			10		nnw.	0	0	sm'h		cloudy.
Colorado, New York, N. Y.	29.90	759.4	44	6.7	92	ne.	4	1.8			10		calm	0.52	13.2			raining.
Essex, S. 33° 20′, W. 49° 32′	30.02	762.5	68	20.0	74	nnw.			5		2		nw.			mod.	nw.	clear.
Franklin, Norfolk, Va	29.82	757.4	52	11.1	93	ene.	6	2.7			10		calm	0.01	0.3			rainy.
Galena, Port Mahon, Minorca Island	30.13	765.3	71	21.7	80	e.			3		0					sm'h		clear.
Independence, Mare Island, Cal	29.93	760.2	43	6.1	57	nw.			2		0			0	0			clear.
Iroquois, San Francisco, Cal	30.07	763.8	50	10.0	72	wnw.			2		0							clear.
Kearsarge, N. 36° 27′, W. 75° 05′	29.78	756.4	48	8.9	?	ne.			2		0					long	nne.	misty.
Lackawana, Callao, Peru*	30.00	762.0	63	17.2	89	sse.			2		8		se.	0	0			hazy.
Lancaster, Port Mahon, Minorca Island*	30.07	763.8	77	25.0	69	ssw.			1		0			0	0			clear.
Marion, S. 26° 40′, W. 41° 36′	30.16	766.1	68	20.0	90	ssw.			2		8		ssw.	0	0	cross	sw.	cloudy.
Michigan, Erie, Pa	29.74	755.4	45	7.2	100	ene.			2		10		e.					cloudy.
Minnesota, Newport, R. I.	29.64	752.8	45	7.2	92	nne.	10	4.5			10		ne.					cloudy.
Monocacy, Nagasaki, Japan	29.75	755.6	69	20.6	75	nnw.			1		5							fair.
New Hampshire, Newport, R. I.	29.94	760.5	45	7.2	100	ne.			4		10					sm'h		misty.
Nipsic, Port Mahon, Minorca Island	30.01	762.2	67	19.4	89	sw.			1		5					long	e.	fair.
Onward, Callao, Peru†	30.15	765.8	62	16.7	94	sse.			3		8		n.			long	w.	cloudy.
Palos, Kobe, Japan	29.71	754.6	60	15.6	82	e.			1		10		calm					drizzling.
Passaic, Washington, D. C.	29.87	758.7	44	6.7	?	ne.			3		10		ne.					rainy.
Pensacola, Callao, Peru	30.05	763.3	65	18.3	94	sse.	5	2.2			2			0	0	sm'h		clear.
Portsmouth, Plymouth, Eng	30.27	768.8	62	16.7	100	e.			6		8		e.			sm'h		cloudy.
Powhatan, Hampton Roads, Va	29.79	756.7	53	11.7	86	ene.			3		10		ne.					overcast.
Quinnebaug, Port Mahon, Minorca Island	30.12	765.0	73	22.8	63	sw.			1		0					sm'h		clear.
Ranger, Pichilinque, Mexico*	29.89	759.2	69	20.6	61	s			2		8		calm	0	0	sm'h		cloudy.
Richmond, Kobe, Japan*	29.65	753.1	60	15.6	88	ne.			1		10			0.24	6.1			rainy.
Saratoga, Plymouth, Eng	30.22	767.6	58	14.4	58	ese.			4		8		se.	0	0	sm'h		cloudy.
Shenandoah, New York, N. Y*	29.93	760.2	52	11.1	86	ene.			3		10							drizzling.
St. Louis, League Island, Pa	29.89	759.2	44	6.7	92	nne.	10	4.5			10			0.32	8.1			cloudy.
Swatara, N. 37° 27′, E. 126° 33′*	29.59	751.6	61	16.1	71	w.			1		2		calm			sm'h		fair.
Tennessee, N. 36° 23′ W. 74° 56′	29.82	757.4	48	8.9	100	nne.	11	4.9			10			0	0	long	ne	light fog.
Vandalia, N. 36° 28′, W. 75° 03′*	29.78	756.4	48	8.9	100	nne			2		10		calm					foggy.
Wabash, Boston, Mass	29.99	761.7	44	6.7	84	nne.	5	2.2			10		ne.	0.59	15.0			rainy.
Wachusetts, Fort Wrangle, Alaska	29.91	759.7	35	1.7	100	nne.			1		0					sm'h		clear.
Wyoming, Port Royal, S. C.	29.81	757.2	62	16.7	88	nw.	13	5.8			5		sw.	0	0			fair.
Yantic, N. 36° 30′, W. 74° 55′*	29.78	756.4	48	8.9	100	nne.			2		10					long	nne.	misty.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 45° 40′, W. 53° 00′*	30.09	764.3	34	1.1	100	w.			3		0			0	0	3	n.	d. clouds.
S. S. Nova Scotian, N. 54° 43′, W. 12° 48′	30.18	766.6	52	11.1		sse.			3		0					slight	se.	clear.
S. S. Prussian, N. 50° 11′, W. 26° 51*	29.49	749.0	54	12.2		sse.			8		8		se.	4 h'r	4 h'r	hv'y	s.	cloudy.
S. S. Scandinavian, N. 46° 56′, W. 38° 56′*	29.32	744.7	49	9.4		wnw.			7		9		wnw.	sh'rs	sh'rs	high	wnw.	showery.
S. S. Waldensian, N. 42° 09′, W. 49° 03′*	29.96	761.0	38	3.3		nw.			4		5		nw.	0	0	cross		fine.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, N. 39° 38′, W. 67° 26′	29.72	754.9	66	18.9	?	var.			1		8		var.			mod.	e.	showery.
S. S. Indiana, Liverpool, Eng†	30.42	772.7	53	11.7	86	nnw.			4		5		w.	0	0			fair.
S. S. Lord Olive, N. 38° 50′, W. 75° 03′*	29.67	753.6				nne.			2		10			16 h'r	16 h'r			misty.
S. S. Ohio, Philadelphia, Pa.†	29.84	757.9	48	8.9	92	s.			4									foggy.
ANCHOR LINE.																		
S. S. Bolivia, Moville, Ireland†	30.24	768.1	52	11.1		ene.			2					0	0			clear.
S. S. Devonia, N 50° 37′, W. 32°, 04′†	29.29	744.0	53	11.7		sse.			3		1		sse.			mod.	sse.	clear.
S. S. Utopia, Cadiz, Spain†	30.27	768.8	69	20.6	65	nw.			2		2		wnw.	0	0			clear.
ATLAS LINE.																		
S. S. Alisa, N. 14° 27′, W. 77° 25′†	29.99	761.7	80	26.7	91	ne.			3		2		ne.	0	0	light	ne.	fine.
S. S. Athos, N. 18° 33′, W. 66° 15′	29.63	752.6				ssw.			1		0			1 h'r	1 h'r	sm'h		fine.
S. S. Claribel, N. 27° 20′, W. 74° 14′*†	30.06	763.5	80	26.7	86	ssw.			3		8		calm	5 h'r	5 h'r	short	s.	cloudy.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 38° 46′, W. 2° 29′	30.13	765.3	51	10.6	68	s.			9		9							d. clouds.
British Merchant, S 34° 17′ E 25° 57′	30.15	765.8	63	17.2	83	se.			4–5		10							misty.
Bk. Commewyne, N. 50° 47′, W. 14° 29′	30.03	762.7	57.3	14.1	87	se.			4		10							misty.
Earnock, N. 40° 30′, W. 31° 00′	29.75	755.6	59.5	15.3	76	wsw.			6		8							squally.
Bk. Coppename, N. 35° 22′, W. 20° 59′	30.16	766.1	64.5	18.1	70	w.			3		3							blue sky.
Glencairn, S. 26° 27′, E. 53° 40′	30.17	766.3	76	24.4	90	ene.			3–4		7							d. clouds.
Bkt. Hope, N. 17° 48′, W. 40° 17′	30.17	766.3	77.8	25.4	76	ese.			3		4							d. clouds.
May Hulse, S. 20° 03′, W. 71° 49′	30.10	764.5	63.4	17.4	72	s.			1		10							overcast.
Minho, S. 12° 12′, W. 37° 32′	30.06	763.5	80	26.7	78	s.			6		10							overcast.
Pole Star, S. 36° 35′, W. 81° 31′	30.37	771.4	58.1	14.5	76	se.			4		6							d. clouds.
CUNARD LINE.																		
S. S. Gallia, N. 41° 08′, W. 53° 45′	30.16	766.1	52	11.1	72	se.			2		8		e.	0	0	long	ne.	fair.
S. S. Scythia, N. 42° 56′, W. 48° 02′	29.97	761.2	41	5.0	91	w.			5		2?		w.	0	0	mod.	w.	cloudy ?
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. France, N. 49° 53′, W. 7° 41′†	30.22	767.7	53.6	12.0		ene.			6				ne.	0	0	sm'h	ne.	clear.
S. S. St. Germain, N. 41° 59′, W. 43° 11′	30.03	762.8	60.8	16.0		nw.			7				nw.	rain	rain	h'vy	wnw.	hailing.
S. S. Ville de Marseilles, N. 37° 00′, W. 12° 40′*†	30.00	762.0	67	19.4		wsw.			3		0			0	0			clear.
GUION LINE.																		
S. S. Arizona, N. 42° 56′, W. 44° 30′	29.91	759.7	47	8.3		nw.			6		10		n.	0	0	r'gh	nnw.	squally.
S. S. Wisconsin, N. 42° 45′ W. 48° 15′*†	30.05	763.3	38	3.3		nnw.			4		5		nnw.	0	0	r'gh	n.	clear.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, Sandy Hook, N. J.*†	29.80	756.9				ene.			6		7		ene.	light	light	cross	ese.	stormy.
S. S. Lessing, N. 42° 34′, W. 45° 21′	29.93	760.3	51	10.6		wnw.			7		5		wnw.	0	0	cross	wnw.	cloudy.
S. S. Silesia, Hamburg, Germany†	30.19	766.8	49	9.4		nw.			7		8		nw.	0	0			squally.
S. S. Wieland, N. 40° 16′, W. 67° 28′	29.82	757.4	60	15.6		se.			3		8		w.	16 h'r	16 h'r	4	se.	clearing.
INMAN LINE.																		
S. S. City of New York, N. 50° 25′, W. 27° 26′	29.46	748.3				sse.			5		10		s.	0	0	r'gh	w.	cloudy.
JOHNSTON LINE.																		
S. S. Thanemore, N. 41° 47′, W. 45° 04′	29.95	760.7				wnw.			6		10		nw.	sh's	sh's		nw.	overcast.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, N. 34° —′, W. 54° —′*†	30.11	764.8	64	17.8		nnw.			1		1		nw.	0	0	long	n.	clear
S. S. Humboldt, S. 2° 10′ W. 37° 53′*	29.99	761.7	80	26.7	74	ene.			3		3 k			0	0	2	se.	blue sky.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 34° 37′, W. 74° 16′†	29.75	755.6	63	17.2	83	ne.			5		fg			0	0	mod.	ene.	foggy.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenapp, S. 3° 12′, W. 36° 36′*†	29.94	760.5				ese.			3		4		se.	0	0	sm'h		fine.
NATIONAL LINE.																		
S. S. Canada, N. 42° 14′, W. 50° 30′†	30.19	766.8	39	3.9		nw.			4		1		nw.	0	0		ne.	clear.
S. S. Denmark, London, Eng	30.33	770.4	65	18.3		nw.			4		2		nw.	0	0			clear.
S. S. England, N. 47° 14′ W. 32° 40′	29.32	744.7				wsw.			6		2		w.	0	0	h'vy	sw.	clear.
S. S. Erin, New York, N. Y.	29.75	755.6	44	6.7		ne.			6		9		ne.	5 h'r	5 h'r			clearing.
S. S. Greece, N. 40° 09′, W. 68° 47′	29.72	754.9				e.			3		10		ne.	12 h'r	12 h'r	con.	e.	heavy rain.
S. S. Italy, N 50° 18′, W. 20° 22′	29.92	760.0	54	12.2		s.			5		10		sse.	0	0	long	s.	cloudy.
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, Campeche Roads, C. A.*†	30.02	762.5	81	27.2	82	sw.			5		10		calm	0	0			misty.
S. S. City of Puebla, N. 37° 24′, W. 73° 45′†	29.78	756.4	46	7.8		nw.			1		fg.					cross	ne.	
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N. 40° 56′, W. 67° 50′			60	15.6		w.			3								nnw.	foggy.
S. S. Maas, N. 46° 21′, W. 34° 10′*†	29.40	746.7	50	10.0		wsw.			1								wsw.	fine.
S. S. Olbers, N. 47° 43′, W. 80 40′*†	30.11	764.8	60	15.6		e.			3–4								e.	cloudy.
NORTH GERMAN LLOYD.																		
S. S. Elbe, N. 49° 22′, W. 16° 19′	29.97	761.3	55.4	13.0	83	se.			5–6		10		s.	0	0	long	s.	covered.
S. S. Graf Bismarck, Rio de Janeiro, Brazil	30.25	768.3	65.3	18.5		n.			2		4		se.	0	0			fair.
S. S. Habsburg, N. 49° 49′, W. 15° 39′	30.05	763.3	55.4	13.0		se.			4		10		se.	3 h'r	3 h'r	mod.	se.	misty.
S. S. Hohenzollern, N. 40° 46′, W. 45° 44′*	30.06	763.5	51.8	11.0		n.			7		10		n.	rain	rain	r'gh	n	fair.
S. S. Kronprinz F. Wilhelm, Off Eddystone L't, Eng	30.25	768.3	56.3	13.5		ene.			5		2		e.	0	0	4	ene.	clear.
S. S. Lepzig, N. 38° 00′. W 73° 42′	29.78	756.4	50.0	10.0	100	nnw.			2					5 h'r	5 h'r	long	ne.	foggy.
S. S. Main, N. 40° 40′, W. 57° 06′	30.05	763.3	53.6	12.0		e.			2–4		10		ene.	light	light	r'gh	ene.	raining.
S. S. Mosel, N. 48° 47′, W. 27° 25′	29.50	749.3	53	11.7		sse.			7		9		s.	16 h'r	16 h'r	r'gh	sse.	drizzling.
S. S. Neckar, N. 40° 24′, W. 59° 15′			45.5	7.5		ne.			4		8		ne.	1 h'r	1 h'r	mod.	ne.	foggy.
S. S. Ohio, Bremerhaven, Germany	30.25	768.3				nw.			6		6		nw.	0	0			fair.
S. S Rhein, N. 42° 23′ W. 45° 04′	30.05	763.3				nw.			6		9		nw.	0	0	high	w.	cloudy.
S. S. Salier, N. 43° 12′ W 57° 10′	30.17	766.3	40.1	4.5		calm			0		2		sw.	0	0	mod.	nnw.	clear.
S. S. Strassburg, N. 49° 49′, W. 8° 18′	30.17	760.3	62.5	16.9	85	e.			5		0			0	0	mod.	ene.	clear.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, Yokahama, Japan†	29.82	757.4	60	15.6	88	ne.			2		10			0	0	sm'h		cloudy.
S. S. Gaelic, N. 37° 02′, W. 176° 14′†	30.22	767.6	60	15.6	94	wsw.			5		10?		s.			high	w.	clear.?
S. S. Oceanic, N. 35° 33′ E. 141° 00′*	29.69	754.1	60	15.6	94	ene.			6		10		e.			3	ne.	overcast.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga.†	29.81	757.2				wnw.			1		2							clear.
S. S. Seminole, Vineyard Sound, Mass†	29.92	760.0	47	8.3	69	ene.			9		10		ene.	14 h'r	14 h'r			raining.
OREGON IMPROVEMENT COMPANY.																		
S. S. Willametta, Seattle, Wash. Ter†	30.10	764.5	47	8.3	85	calm			0		fg			0	0			foggy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, N. 56° 07′, W. 134° 48′*†	30.04	763.0	47	8.3	92	n.			1		2?		n.					cloudy.?
S. S. Columbia, N. 42° 09′, W. 124° 40′†	29.93	760.2	46	7.8	85	s.			6		6		s.			mod.	ssw.	squally.
S. S. Oregon, Astorio, Oregon†	30.01	762.2	41	5.0	91	nw.			1		0							clear.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal.†	29.98	761.5	46	7.8	54	nw.			2		0							clear.
S. S. Dakota, N. 47° 36′, W. 124° 52′†	30.04	763.0	45	7.2	84	ene.			3		10?		ene.			sm'h	ne.	clear.?
S. S. Orizaba, N. 32° 44′ W. 117° 18′†	29.94	760.5	66	18.9	74	se.			1				se.			sm'h	wsw.	overcast.
S. S. State of California, San Francisco, Cal.†	30.05	763.3	45	7.2	61	wnw.			3		0							clear.
S. S. Victoria, N. 42° 57′, W. 125° 00′†	29.89	759.2	44	6.7	92	se.			4		8					long	w.	raining.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, N. 32° 03′, W. 139° 02′	30.36	771.1	57	13.9	58	ne.			2		8		nw.	0	0	sm'h		cloudy.
S S. City of New York, Sydney, N. S. W†	29.98	761.5	63	17.2	94	calm			0		0			0	0			clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
PACIFIC MAIL STEAMSHIP CO.																		
S. S. City of Rio de Janeiro, N 22° 58′, W. 108° 40′ *†	30.14	765.5	72	22.2	80	sse.			4		7		var.	0	0	light	wsw.	cloudy.
S. S. City of Sydney, N. 27° 01′, W. 145° 12′†	30.27	768.8	69	20.6	80	e.			3		10		se.	0	0	mod.	ene.	misty.
S. S. City of Tokio, Hong Kong, China†	29.97	761.2	84	28.9	79	sw.			3		8		sw.	0	0			fair.
S. S. Colima, N. 15° 22′, W. 97° 10′†	29.95	760.7	83	28.3	71	wnw.			2		4		calm	0	0	small	wnw.	smoky.
S. S. Colon, Aspinwall, Panama†	29.99	761.7	81	27.2		wsw.			1		1		nne.	0	0	sm'h		clear.
S. S. Grenada, N. 8° 14′, W. 83° 34′†	29.91	759.7	80	26.7	87	wnw.			3		2		nw.	4 h'r	4 h'r	light	sw.	clear.
S. S. South Carolina, Panama, Panama†	30.03	762.7	82	27.8	75	sw.			1		5		nne.	0	0	sm'h		fair.
S. S. Zelandia, Sydney, N. S. W.	29.95	760.7	61	16.1	82	w.			2		0							clear.
QUEBEC S. S. COMPANY.																		
S. S. Muriel, N. 35° 55′, W. 71° 54′	29.71	754.6	73?	22.8?		sw.			3		0			0	0	mod.	sw.	fair.
S. S. Bermuda, Basstene, St. Kitt's, W. I.†	30.07	763.8	53?	11.7?		ese.			2		9		ese.	1 h'r	1 h'r	g'tl	ese.	fine.
RED STAR LINE.																		
S. S. Belgenland, N. 42° 30′, W. 41° 52′†	29.94	760.5	52	11.1	93	nw.			6		8		nnw.	0	0	h'vy	nw.	squally.
S. S. Nederland, N. 47° 29′, W. 26° 51′†	29.72	754.9	54	12.2		sw.			5		10		ssw.			cross		misty.
S. S. Rhynland, Antwerp, Belgium	30.30	769.6	61	16.1	83	ne			3		10		ne.	0	0			fair.
S. S. Vaderland, Jersey City, N. J.	30.78	781.8	47	8.3	92	ne.			4		10			20 h'r	20 h'r			hazy.
S. S. Waesland, N. 40° 31′, W. 61° 53′	29.94	760.5	58	14.4		e.			6		10		e.	8 h'r	8 h'r	mod	e.	clearing.
ROTTERDAM LINE.																		
S. S. W. A. Scholten, Rotterdam, Holland	30.18	766.6	55	12.8	68	n.			2		4		nw.	0	0			
STATE LINE.																		
S. S. State of Florida, New York, N. Y	29.86	758.4	46	7.8		nne.			4		10		nne.	18 h'r	18 h'r			drizzling.
S. S. State of Indiana, N. 43° 55′ W. 46° 53′†	29.74	755.4	41	5.0		n.			6		6		n.	3 h'r	3 h'r	cross	nw.	cloudy.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 46° 51′, W. 37° 42′†	29.66	753.4	51.8	11.0		wnw.			5		7		wnw.	2 h'r	2 h'r	cross	wnw.	covered.
WHITE STAR LINE.																		
S. S. Adriatic, N 40° 22′, W. 67° 18′†	29.89	759.2	51	10.6	100	e.			6		10		ese.	shr's	sh'rs	mod.	e.	foggy
S. S. Baltic, N. 50° 48′ W. 21° 28′†	29.88	758.9	56	13.3	80	s.			5		10		sse.	2 h'r	2 h'r	4	s.	overcast.
S. S. Britannic, N. 51° 08′, W. 17° 25′†	29.99	761.7	54	12.2	100	se.			4		mist			0	0	mod.	se.	misty.
S. S. Celtic, Liverpool, England†	30.37	771.4	62	16.7	36	nw.			1		0			0	0	sm'h		fine.
S. S. Germanic, N. 40° 41′, W 68° 12′†	29.52	757.4	48	8.9		ene.			3		10		ene.			sm'h		foggy.
S. S. Republic, N. 48° 18′, W. 31° 13′†	29.49	749.0	54	12.2	79	ssw.			5		2		wsw.	3 h'r	3 h'r	mod.	wsw.	d. clouds.
WILSON LINE.																		
S. S. Romano, N. 45° 24′, W. 29° 11′*†	29.42	747.3	58	14.4		w.								0	0	sm'h		cloudy.
MISCELLANEOUS.																		
Schr. Abbe Clifford, Barbadoes, W. I*†	30.05	763.3	81	27.2		e.			3		3			0	0			
Sch. Addie Fuller, Newport News, Va†	29.83	757.7	50	10.0	93	e.			3		10 s		e.	0.02	0.5			cloudy.
Bk. Adelaide, S. 11° 38′, W. 34° 27′*†	30.08	764.0	82	27.8		sse.			5		10		se.	21 h'r	21 h'r	mod	s.	raining.
Schr. Ajax, Brazos, Texas†	29.98	761.5				calm			0		0			0	0			hazy.
Bk. Alpna, Santiago de Cuba, Cuba, W. I†	29.96	761.0	80	26.7		nne.			1		4			0	0			fair.
Schr Annie Lewis, Aransas, Pass, Texas†	30.05	763.3	76	24.4		ne.			6		5?		ne.	0	0	long	se.	cloudy?
Bk. Anna Thormann, N. 32° 51′ W. 41° 10′	30.30	769.6	65.8	18.8	77	ene.			3		10 k		n.	0	0	mod	nnw.	overcast.
Bk. Antioch, S. 41° 56′, E. 113° 15′*†	29.60	751.8	57	13.9		wnw.			7		3?		wnw.	0	0	sm'h	w.	cloudy.?
S. S. Antonio Lopez, Havana, Cuba*†	30.00	762.0	74.5	23.6	90	sw.			1		5 k			2 h'r	2 h'r			fair.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.34	770.6	73	22.8		n.			2		0			0	0			clear.
Schr Annie M. Smull, S. 6° 04′. E. 105° 54′*†	30.10	764.5	86	30.0		sw.								4 h'r	4 h'r		sw.	
Bk. Bergenseren, N. 36° 35′. W. 2° 40′†	30.06	763.5				se.			1		hz			0	0	1	e.	fair.
Bk. Celestina, Montevideo, Uraguay*†	29.96	761.0				nnw.			2		0			0	0			clear.
Schr. Edith R. Seward, Port Antonio, Jamaica, W. I*†	30.20	767.1	86	30.0		e.			3		7		e.	0	0			cloudy.
S. E. J. Spicer, London, England†	30.37	771.4				ese.			2		1		e.	0	0			clear.
S. Enoch Train, N. 40° 00′, W. 70° 17′*	29.64	752.8				ne.			1		fg.			h'vy	h'vy			dense fog.
S. Exporter, S. 36° 00′, W. 16° 30′*†	30.45	773.4				se.			5		8		se.	0	0	hv'y	se.	cloudy.
Bk. Freya, Dublin, Ireland			58	14.4		e.			3		0			0	0			fine.
S. Grecian, S. 19° 28′ E. 105° 05′*†	30.00	762.0	70	21.1		ese.			5		2		e.	0	0	mod.	sw.	clear.
Schr. Hattie G. McFarland, Boston, Mass*†	29.92	760.0	42	5.6		ene.			6		10		e.	10 h'r	10 h'r			stormy.
Schr. Henry Denison, N. 28° 14′, W. 76° 13′†	29.90	759.4				ssw.			4		6		sw.	0	0	high	sw.	fair.
Bk. Johanne, N. 45° 15′, W. 23° 50′*†	29.71	754.6	60	15.6		se.			4		8		sse.	0	0	mod	sse.	hazy.
Schr. John L. Thomas, N. 11° 46′, W. 83° 32′ *†	30.04	763.0				calm			0		5		ene.	½ h'r	½ h'r	mod	e.	fair.
Bkt. Josephine, Guanatamo, W. I.*†	30.12	765.0	80	26.7	78	n.			2		2			0	0			hazy.
Bk. Julia H., Havana, Cuba, W. I	30.00	762.0	74.3	23.5	90	sw.			1		5 n;k							showery.
Bk. Kate Cann, N. 40° 27′, W. 43° 08′*†	30.08	764.0				ssw.			1				s.	0	0	high	nne.	cloudy.
Bkt. Kryolith, N 58° 38′ W. 39° 38′*†	29.30	744.2				n.			8		10		n.	rain	rain	hv'y	n.	light rain.
S. S. Lamperts, N. 26° 40, E. 34° 37′*	29.83	757.7	77.2	25.1	77	ese.			2		0							misty.
Light House Tender, Laurel, St. Andrew's Bay, Fla†	29.97	761.2	68	20.0		nnw.			2		9		w.	0	0			cloudy.
S. S. Malabar, N. 5° 19′, E. 89° 48′*†	29.80	756.9				var.												
Bg. Medina, N. 30° 00′, W. 78° 30′...†	29.86	758.4				wnw.			4		10		w.			small	wnw.	fine.
S. S. Nebo, N. 16° 23′, W. 62° 27′*†	30.07	763.8				nne.			1		5?		nne.	½ h'r	½ h'r	sm'h		clear.?
S. Paramita, S. 8° 36′ W. 33° 47′†	29.85	758.2	87	30.6		se.			1		2		var.	3 h'r	3 h'r	long	var.	clear.
Bk. Peppina, Bordeaux, France†	30.03	762.7	77	25.0	61	e.			2		0							clear.
S. S. Ponca, N. 34° 20′, W. 73° 35′†	29.79	756.7	75	23.9		sw.			2		1		sw.	0	0	h'vy	ssw.	clear.
Bg. Potomac, N 33° 28′. W. 72° 21′*†	29.80	756.9				ssw.			3				sw.			h'vy	sw.	fine.
Bk. Princessen, N. 38° 06′, W. 65° 12′†	29.82	757.3	70	21.1		wsw.			3		10			12 h'r	12 h'r	high	ne.	cloudy.
Bk. Rosebud, N. 37° 35′, W. 16° 26*†	30.10	764.5	65	18.3	73	ssw.			3		0			0	0	sm'h		fine.
S. Salisbury, S. 39° 01′ W. 1° 04′*	30.17	766.2	51.8	11.0	79	se.			9		10		se.	0	0	h'vy	se.	cloudy.
Bk. Stella, S. 8° 49′, W. 102° 13′*	29.98	761.5	77.0	25.0	92	e. to ne.			3		7 k		se.			sm'h	se.	drizzling.
Bk. Truro, N. 43° 40′ W. 36° 16′*†	29.61	752.1				wnw.			7		5		wnw.	4 h'r	4 h'r	r'gh	wnw.	rainy.
U.S.F.C.S.S. Fish Hawk, Washington, D. C†	29.98	761.5	50	10.0	86	nne.			3		10		calm	0.03	0.8			misty.
Yacht Vega, N. 13° 38′. W. 59° 19′*†	30.20	767.1	80	26.7		ene.			3				ene.	0	0	long	ene.	
S. S. Victoria J. Peed, Barranquilla, U. S. C*†	29.12	739.6				ne.			2		8							
Schr Viola Reppard, Bridgeport, Conn†	29.63	752.6	50	10.0		ene.			6		10		ene.	20 h'r	20 h'r			raining.
S. Washington, N. 53° 02′ E. 4° 20′*†	30.24	768.1				nnw.			3		0			0	0	sm'h		clear.
Bg. Wauburn, N. 34° 37′, W. 73° 45′*†	30.00	762.0				se.			3		2		se.	sq'ls	sq'ls	hv'y	nw;s	
Bk. Wm. Wilcox, N. 35° 30′ W. 54° 10′*†	30.25	768.3	65	18.3		ne.			4		10		sse.	0	0	sm'h		clondy.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 14, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.00	761.9	72.0	22.2	74	e.			2		0			0	0	clear	Moiroud
Algiers			29.95	760.6	78.1	25.6	56	nw.			2		0			0	0	clear	Nicolas.
La Calle			29.94	760.4	73.0	22.8		ene.			1		1			0	0	very fair	Fonfréde.
Tunis			29.93	760.3															Jacques.
Saida			30.05	763.3															Dumas.
Tebessa			30.10	764.5	66.2	19.0	83	nw.			4		4			inap.	inap.	cloudy	Derché.
Geriville					74.5	23.6	23	nw.			7		1			0.012	0.3	very fair	Lonchamp.
Laghouat			30.14	765.6	79.2	26.2	64	s.			3		2			0.118	3.0	fair	Abraham.
Biskra			30.10	764.5	84.2	29.0	20	se.			1		2			0	0	fair	Malau.
Australian.																			
Melbourne, Victoria	29.86	758.4	29.95	760.7	53.3	11.8	95	ssw.	2	0.9			10			0.39	9.9	misty	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.37	746.0	29.93	760.2	47.7	8.7	84	sw.			4		10			0.173	4.4	raining	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.05	737.8	29.82	757.4	48.9	9.4	39	wnw.	16.1	7.2			9			0.016	0.4		Dr. Wierzbiski.
Eperies	28.89	733.8	29.76	755.9	55.0	12.8	43	nw.			3	0	5 ks		s.	0	0		Julius Mikolik.
Gratz	28.67	728.1	29.91	759.8	54.5	12.5	75	s.			3		8			0.173	4.4		Andreas Rospini.
Hermannstadt	28.39	721.0	29.81	757.2	54.0	12.2	46	nw.			2		10			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.62	726.9	29.97	761.1	49.8	9.9	50	wnw.			3		5			0	0	fair	The Staff.
Lemberg	28.75	730.2	29.73	755.2	50.2	10.1	55	nw.			3		3			0.012	0.3		Dr. T. Stanecki.
Pola	29.67	753.5	29.78	756.3	61.7	16.5	61	e.			5		8			0	0		I. R. Hydrographic Office.
Szathmar	29.37	744.5	29.61	752.0	52.2	11.2	60	nw.			3		9			0.157	4.0	thnd'r str'm	Joseph Midlinszky, S. J.
Szegedin																			Karl Stancel.
Trieste	29.74	755.4	29.84	758.0	57.6	14.2	59	ne.			6		10			0.063	1.6		Rieder.
Vienna	29.22	742.3	29.94	760.4	54.1	12.3	41	nw.			3		2			0.016	0.4		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.38	771.6	30.48	774.2	45.0	7.2	60	ene.	16	7.2			4			0	0	blue sky	W. Boswell
Armagh, Observatory	30.12	765.0	30.35	770.9	58.7	14.8	48	sse.	18	8.0									S. Call.
Bidston, Liverpool Obs'y			30.34	770.6	58.1	14.5	67	ese.	14	6.3			0					misty	John Hartnup.
Bolton, Sharples	29.80	756.9	30.34	770.6	55.9	13.3	45	ene.	12	5.4			7					d. clouds	Thomas Mackereth. [A.S.
Bradford, Yorkshire																0	0		J. McLandsborough, F. R
Bridgetown, Barbadoes	29.99	761.7	30.02	762.5	83.0	28.3	67	ne.			3		6					gloomy	Corpl. J. Surgenor, A. H.C.
Cardington			30.31	769.9	55.0	12.8	55	ne.			1.4		4					d. clouds	John McLaren.
Chatham, School M. E.	30.19	766.8	30.33	770.4	55.1	12.8	65	ne.			2		6					d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	30.02	762.5	30.25	768.3	53.7	12.1	70	ene.			6		5					squally	The Staff.
Fort Napier, Natal	27.60	701.0	29.82	757.4	70.8	21.6	79	e.			1		1					blue sky	Pvt. E. K. Annis, A. H.C.
Free Town, Sierra Leone	29.58	751.3	29.81	757.2	88.0	31.1	69	nw			1		4					d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	29.89	759.2	29.94	760.5	71.5	21.9	75	w.			3		0					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	30.23	767.8	30.43	772.9	53.8	12.1	66	e.			4		5 k					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.12	765.0	30.30	769.6	57.7	14.3	53	ne.			3		5					d. clouds	The Staff.
Guernsey	29.93	760.2	30.23	767.8	56.0	13.3	75	ene.			3		2					blue sky	A. Collenette, F. M. S.
Kew, Observatory	30.28	769.1	30.31	769.9	55.0	12.8	47	ne.	16	7.2			6					d. clouds	The Staff.
Leicester, Museum	30.14	765.5	30.40	772.1	55.2	12.9	43	ne.			1		8					d clouds	J. C. Smith.
Malta, Mediterranean	29.90	759.4	29.98	761.5	70.6	21.4	54	s.			2		1					blue sky	I. H. Whysall.
Nassau, Bahamas	29.95	760.7	30.00	762.0	81.5	27.5	74	sw.			2		4					d clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.92	760.0	30.45	773.4	54.1	12.3	53	nne.			2		3					d clouds	John Mac Email.
Oxford, Radcliffe Obs'y	30.09	764.3	30.32	770.1	56.3	13.5	48	ne.			4		2					blue sky	The Staff.
Plymouth	30.18	766.6	30.25	768.3	55.5	13.1	60	e.			6		0					blue sky	John Merrifield.
Sandwick Manse, Orkneys			30.51	774.9	46.8	8.2	67	ese.	15	6.7			8					d. clouds	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.79	756.7	29.85	758.2	66.2	19.0	58	sw.			1		1					blue sky	W. H. Lyne.
Sheffield	30.08	764.0	30.30	771.1	57.8	14.3	53	ne.			2		2			0	0	d. clouds	W. F. Cooper.
Silloth Rectory	30.35	770.9	30.38	771.6	55.5	13.1	62	e.			4		7			0	0	d clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.38	771.6	57.1	13.9	48	e.	13	5.8			5					d. clouds.	J. New.
Stratfield Turgiss	30.07	763.8	30.29	769.4	60.2	15.7	46	ne.			3-4		2					squally	Rev. O. H. Griffiths, F.M.S
Truro, Royal Institution	30.23	767.8	30.24	768.1	60	15.6	55	e.			4		0					blue sky	W. Newcombe.
Valencia, Observatory	30.12	765.0	30.15	765.8	61.6	16.4	52	sse.	42	18.8			2					misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.													10 s						Hon. J. Ferguson.
Charlottetown, P. E. Island	29.67	753.6	29.71	754.6	45	7.2	61	s.	1	0.4						0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.62	752.3	29.68	753.9	50	10.0	61	sw.	2	0.9		3 k	1 ks	sw.	sw.	0	0	fair	G. A. Blair.
Father Point, Quebec*	29.78	756.4	29.80	756.9	42	5.6	70	n.	10	4.5		2 c	1 s	w.	calm	0	0	fair	J. McWilliams.
Fort Garry, Manitoba*	29.40	746.7	30.24	768.1	45	7.2	53	n.	6	2.7		0	0			0	0	clear	James Stewart.
Halifax, N. S*	29.55	750.6	29.68	753.9	43	6.1	96	ne.	5	2.2			fg			0.168	4.3	light rain	A. Allison.
Kingston, Ontario*	29.38	746.2	29.71	754.6	49	9.4	68	n.	6	2.7			10 s		n.	inap.	inap.	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.53	750.0	29.73	755.1	48	8.9	37	ne.	17	7.6		3 cs	0	sw.		0	0	fair	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.14	740.1	29.84	757.9	43	6.1	45	n.	24	10.7		5 cs	0	ne.		0	0	fair	Rev. R. Mosley.
Port Dover, Ontario	29.04	737.6	29.73	755.1	48	8.9	93	ne.	4	1.8			10 ks		e.	0.15	3.8	cloudy	H. Morgan.
Port Stanley, Ontario	29.11	739.4	29.75	755.6	48	8.9	86	n.	3.0	1.3			10 n		ne.	0.20	5.1	cloudy	M. Payne.
Quebec, Quebec*	29.42	747.3	29.74	755.4	48	8.9	63	ne.			5	0	5 s		se.	0	0	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.41	747.0	29.87	758.7	46	7.8	47	nw.	4	1.8		0	0			0	0	clear	W. H. McIntyre.
Saugeen, Ontario*	29.10	739.1	29.82	757.4	47	8.3	48	ne.	16	7.2		0	0			0	0	clear	
St. Andrews, N. B	29.61	752.3	29.67	753.6	45	7.2	76	e.	1	0.4			10 n			0	0	cloudy	
Sydney, C. B*	29.71	754.6	29.78	756.4	38.0	3.3	96	n.	2	0.9			10 n			0.08	2.0	light rain	T. C. Hill, C. E.
Toronto, Ontario*	29.35	745.5	29.73	755.1	49	9.4	66	n.	25	11.2		5 cs	5 s	e.	ne.	inap.	inap.	cloudy	Magnetic Observatory.
Yarmouth, N. S*	29.55	750.6	29.62	752.3	44	6.7	93	e.	6	2.7			10 k		e.	0.02	0.5	cloudy	Lt. F. E. Wilmot, R. N
Sub-series.																			
St. Johns, Newfoundland	29.86	758.4	30.11	764.8	51	10.6	72	s.	1	0.4		2 k	4 s			0	0	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.00	762.0	30.03	762.7	62.0	16.7	88	se.	23.7	10.6		9 cs	0			0.650	16.5	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	29.95	760.7	29.99	761.7	64.2	17.9	72	wnw.	9	4.0		10	10			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
CHINESE (*Sub-series*).																			
Hankow																		raining	N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.78	756.4	29.88	759.0	63.1	17.3	67	se.	11.2	5.0		10 c	fg			0	0	covered	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.87	758.7	29.92	759.9	47.8	8.8	62	n.	23.5	10.5			10						Oversergent Fischer.
Fanöe	30.07	763.7	30.09	764.2	52.0	11.1	61	n.			6		8						Overloerer Lauridsen.
Godthaab, Greenland	29.41	747.1	29.46	748.2	32.4	0.2	83	n.			2		6			0	0		S. Kleinschmidt.
Stykkisholm, Iceland	30.02	762.4	30.06	763.5	50.7	10.4	88	e.			7		0						A. O. Thorlacius.
Thorshavn	30.53	775.5	30.57	776.4	45.5	7.5	72	se.	9	4			1						Overloerer Bergh.
Vestervig	30.03	762.7	30.12	765.0	49.6	9.8	47	nne.			3		2						Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.35	745.5	29.97	761.3	72.7	22.6	66	w.			1	2 c	k			0	0		M. Labroue, Director.
Alençon, Normal School	29.64	752.9	30.19	766.9	56.5	13.6	73	n.			2					0	0		M. Nicot, Director.
Arras, Engineer School	29.85	758.3	30.11	764.9	52.7	11.5	63				4		10 k			0	0		M. Fénéon, Command't.
Avignon, Normal School	29.73	755.1	29.81	757.1	77.0	25	28	n.			2					0	0		M. Giraud, Director.
Bar-sur-Seine	29.56	750.9	30.12	765.0	57.2	14.0	37	e.			4		1			0	0	clear	M. Saillard, Director.
Beauvais, Normal School	29.97	761.3	30.24	768.1	53.6	12	46	ne.			3		2		ne.	0	0	slightly cl'dy	M. Frère Eugène Marl.
Besançon, Normal School	29.07	738.4	29.95	760.8	63.0	17.2	43	nne.			2		0			0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.67	753.6	29.93	760.1	65.7	18.7	74	wsw.			1		10		wsw.	0	0	covered	M. Rayet, Director.
Bourges, Normal School	29.51	749.5	30.05	763.3	64.8	18.2	26	n.			4	c	0	n.		0	0		M. Postel, Director.
Brest, Naval Observatory	29.86	758.4	30.10	764.6	65.8	18.8	49	ene.			3		2		ene.	0	0		M. de Kermaree, Dir.
Caen, Normal School	30.16	766.0	30.23	767.9	58.6	14.8	50	nne.			4		0			0	0	clear	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.80	757.0	30.12	765.1	57.7	14.3	47	nne.			3		2		se.	0	0	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.75	755.6	30.27	768.9	53.2	11.8	52	e.			1		2			0	0	¼ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.63	727.2	29.95	760.8	65.5	18.6	25	n.			2		2			0	0	¼ covered	M. Alluard, Director.
Cluny, Normal School	29.15	740.4	29.98	761.5	63.1	17.3	26	n.			1		0			0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.34	745.3	30.19	766.8	54.5	12.5	54	nne.			3		2	nne.	nne.	0	0	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.28	692.9	29.70	754.3	74.3	23.5	41	w.			2	2 ck	0	ne.		0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.69	728.6	29.76	756.0	74.5	23.6	50	sw.			2		4		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.12	739.6	29.87	758.6	66.9	19.4	53	nw.			4	0	2 ks			0	0	slightly cl'dy	M. Ablard, Director.
Guéret, Normal School	28.47	723.0	30.03	762.8	62.1	16.7	32	se.			1	2 c	0			0	0	slightly cld'y	M. Rivoire, Director.
Lamballe, Normal School	29.86	758.5	30.13	765.3	64.4	18.0	53	ne.			2		2		ne.	0	0	slightly cl'dy	M. Ollitrault, Director.
Lescar, Normal School	29.41	746.9	29.93	760.1	67.1	19.5	68	w.			1	5 ck	0			0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.99	761.7	30.09	764.3	69.1	20.6	37	ene.			4		0			0	0	clear	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.92	734.5	29.96	761.0	62.2	16.8	40	n.			4	0	0			0	0	clear	M. André, Director.
Mans, Normal School	29.84	758.0	30.15	765.8	59.7	15.4	38	e.			4		2		ese.	0	0	slightly cl'dy	M. Piboen, Director.
Marseille, Observatory	29.54	750.4	29.81	757.1	70.9	21.6	47	sw.			1		4		sw.	0	0		M. Stephan, Director.
Montlouis l'instituteur	24.76	628.8	29.60	751.8	50.0	10.0	84	se.	9.4	4.2			10		se.	0.579	14.7		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.67	753.5	29.79	756.7	81.0	27.2	46	sw.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.35	745.5	30.13	765.4	54.7	12.6	38	wnw.			2		cn			0	0		M. Hasse, Director
Nantes, Observatory	29.93	760.2	30.10	764.4	67.8	19.9	75	ene.			2–3	5 c; ck		ene.	e.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.76	755.8	29.86	758.5	74.1	23.4	45	n.	16.8	7.5			1c		nw.	0.394	10.0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.22	539.0			33.1	0.6		ne.			1		1c		ne.	0.197	5.0	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.86	733.1	29.89	759.2	71.2	21.8	36	calm			1		0			0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.12	638.0			41.5	5.3	68	ene.			4		2			0	0	¾ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	29.92	759.9	29.95	760.7	69.8	21.0	100	ne.			4		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.83	757.6	30.04	763.0	67.6	19.8	36	ene.			4		2			0	0	¼ covered	M. Mouillot, Director.
Rodez, Normal School	27.77	705.4	29.84	757.9	71.6	22		sw.			1		0			0	0	clear	M. Serger, Director.
Rouen, Normal School	30.18	766.5	30.22	767.7	57.6	14.2	55	n.			3		0			0	0	clear	M. Brotier.
Saint Maur, Observatory	30.01	766.2	30.17	766.4	58.3	14.6	39	ne.			3	1	1	nnw.	ne.	0	0		M. Renou, Director.
Toulouse, Observatory	29.22	742.3	29.95	760.6	72.1	22.3	60	nnw.			2		10			0	0	covered	M. Baillard, Director.
Tours	29.91	759.6	30.08	764.0	65.5	18.6	37	ne.			6		0			0	0	clear	
Versailles, Observatory	29.68	753.8	30.17	766.3	57.2	14.0	37	e.			4					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.90	759.5	30.19	766.9	58.1	14.5	36	ne.			3		1			0	0		M. Marié Davy, Director
GERMAN.																			
Bamberg	29.21	742.0	30.07	763.7	51.8	11.0	44	nw.			4	0	6 k		w.	0	0		Prof. Dr. Hoh.
Berlin	29.71	754.5	29.89	759.1	44.2	6.8	91	nw.			7		9			0.236	6.0		Prof. Dr. Arndt.
Breslau	29.33	744.9	29.85	758.3	46.2	7.9	59	wnw.			5		10					sprinkling	Royal University Obs'y.
Carlsruhe	29.68	753.9	30.13	765.2	51.8	11.0	43	ne.			1		5	n.		0	0		Albert Senz.
Cassel	29.32	744.6	30.03	762.7	50.5	10.3	42	nw.			7		6	nw.		0.024	0.6		Dr. H. Möhl.
Frankfort-on-the-Main	29.73	755.1	30.10	764.4	55.8	13.2	36	n.			1		6			0	0		Physical Society.
Friedrichshafen	28.60	726.5	30.04	763.0	53.6	12.0	44	nne.			3		4	nnw.		0	0		Wilhelm, Chief Tel.
Hamburg	29.94	760.5	30.04	762.9	46.2	7.9	81	n.			5		8			0	0		E. Preller.
Kiel	30.01	762.2	30.02	762.6	49.5	9.7	58	n.			5		8			0.004	0.1		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.56	750.9	29.99	761.7	46.4	8.0	71	nw.			4		9	nw.				sprinkling	H. Leppig, Asst.
Magdeburg	29.78	756.3	29.97	761.2	50.7	10.4	48	nw.			5		9 ks		nw.	0	0		Dr. Assmann.
Memel	29.64	752.9	29.69	754.1	49.3	9.6	76	sw.			2	0	8 ks						Issermann.
Munich	28.21	716.5	30.08	763.9	48.7	9.3	41	nw.			1		4	nw.		0	0		Central Station.
Neufahrwasser	29.63	752.5	29.64	752.9	44.1	6.7	87	nw.			4		10			0.244	6.2		A. Lothes.
Neustadt, Palatinate	29.56	750.9	30.09	764.3	52.7	11.5	58	n.			4		8	n.		0	0		Dicknether.
Stuttgart	29.13	739.9	30.04	762.9	50.0	10.0	52	n.					5	n.		0	0		Prof. Dr. Schoder.
Wustrow	29.92	759.9	29.94	760.5	49.1	9.5	67	n.			5		10 ks			0.012	0.3		Profs. Brandes & Reimer
GREEK.																			
Athens	29.54	750.2			68.9	20.5		s.			2.5		2			0	0	misty	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.65	753.2	29.70	754.4	85.9	29.9	84	wsw.	38.0	17.0			4		w.	0	0	misty	
Deesa	29.12	739.5	29.56	750.9	103.5	39.7	21	sw.	16.4	7.3			0			0	0	misty	
Bombay	29.73	755.2	29.77	756.1	87.0	30.6	66	w.	12.0	5.4			5	w.	w.	0	0	d. clouds	
Poona, Yarrowda	27.87	707.9	29.68	753.8	90.8	32.7	37	wnw.	27.0	12.1			1	w.		0	0	d. clouds	
Bellary	28.21	716.6	29.63	752.5	96.8	36.0	28	sw.	8.4	3.8			7	w.		0	0	d. clouds	
Belgaum	27.21	691.1	29.70	754.4	83.1	28.4	58	wsw.	15.0	6.7			3	ne.	n.	0	0	misty	
Lahore	28.86	733.0	29.57	751.2	96.2	35.7	26	e.	3.4	1.5			0			0	0	blue sky	
Roorkee	28.78	730.9	29.66	753.3	85.2	29.6	45	sw.	3.7	1.6			1			0.20	5.1		
Agra	29.09	738.8	29.64	752.7	92.2	33.4	34	e.	9.5	4.2			0			0	0		
Nagpur	28.56	725.4	29.57	751.0	93.7	34.3	27	sw.	5.4	2.4			9		sw.	0.05	1.3	d. clouds	
Jubbulpore	28.42	721.8	29.77	756.2	80.0	26.7	61	w.	2.9	1.3			8		w.	0.11	2.8	raining	
Lucknow	29.30	744.2	29.67	753.6	89.3	31.8	45	nne.	2.3	1.0			0			0.03	0.8	blue sky	
Allahabad	29.35	745.4	29.65	753.2	94.7	34.8	29	ne.	4.0	1.8			2			0	0	d. clouds	
Patna	29.52	749.8	29.70	754.4	87.8	31.0	48	ne.	4.8	2.2			4	ne.	ne.	0	0	d. clouds	
Hazaribagh	27.68	703.1	29.66	753.3	84.3	29.1	47	e.	4.6	2.1			0			0	0	blue sky	
Cuttack	29.64	752.7	29.72	754.8	80.0	26.7	77	se.	1.0	0.4			10			0.13	3.3	overcast	
Calcutta, Alipore	29.68	753.8	29.70	754.3	85.8	29.9	61	ne.	5.0	2.2			7			0	0	d. clouds	
Dhubri	29.58	751.4	29.70	754.3	83.5	28.6	62	calm	4.2	1.9			0			0	0	blue sky	
Chittagong	29.65	753.0	29.74	755.3	79.2	26.2	85	e.	4.3	1.9			4			0	0	blue sky	
Sibsagar	29.40	746.7	29.73	755.2	83.5	28.6	69	ne.	2.5	1.1			2		sw.	0.13	3.3	blue sky	
Jeypore	28.15	715.1	29.55	750.5	94.4	34.7	29	e.	5.0	2.2			9		w.	0	0	d. clouds	
Zanzibar, Africa	29.92	760.0			79.6	26.4	79	s.	7.1	3.2			8			0.19	4.8	gloomy	
ITALIAN.																			
Udine	29.47	748.4	29.88	758.9	54.9	12.7	79	se.	8.7	3.9			10			0	0		Prof. Giovanni Clodig.
Milan	29.24	742.8	29.76	755.8	74.3	23.5	47	s.	4.9	2.2			2	sw.		0	0		Prof. Schiaparelli.
Padua	29.69	754.2	29.80	757.0	64.6	18.1	60	ene.	13.6	6.1			10	ne.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.81	731.8	29.71	754.6	73.6	23.1	58	e.	5.6	2.5			4	ne.		0	0		Prof. P. F. Denza.
Genoa	29.67	753.5	29.86	758.4	65.8	18.8	61	se.	10.5	4.7			2	se.		0	0		Prof. G. M. Garibaldi.
Mondovi	27.85	707.5	29.78	756.5	67.5	19.7	63	e.			4		1	wsw.		0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
ITALIAN.—Continued.																			
Pesaro	29.71	754.7	29.76	755.9	68.4	20.2	56	e.	6.3	2.8			3			0	0		Prof. Luigi Guidi.
Florence	29.57	751.1	29.82	757.5	72.1	22.3	37	w.			4		1			0	0		Prof. Costantino Pitter.
Leghorn	29.70	754.3	29.78	756.5	68.2	20.1	63	sw.	1.8	0.8			3	sw.		0	0		Prof. P. Monte.
Rome	29.69	754.2	29.87	758.6	73.4	23.0	31	sse.	16.7	8.3			1			0	0		Prof. P. S. Ferrari.
Lecce	29.60	751.8	29.85	758.1	77.7	25.4	48	sse.	11.2	5.0			3			0	0		Prof. C. de Giorgi.
Cosenza	29.00	736.6	29.87	758.8	73.0	22.8	78	sse.	3.8	1.7			5	se.		0	0		Prof. D. Conti.
Cagliari	29.63	752.5	29.82	757.3	66.6	19.2	71	se.			4		0			0	0		Prof. A. Pacinotti.
Palermo	29.67	753.7	29.92	760.0	66.7	19.3	58	ne.	6.9	3.1			0			0	0		Prof. G. Ciacciatore.
Syracuse	29.83	757.6	29.87	758.7	73.4	23.0	62	ssw.	12.5	5.6			4	sw.		0	0		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.37	745.9	29.88	758.9	66.9	19.4	69	sw.	5.6	2.5			3	w.		0	0		Prof. T. Brioschi.
Stelvio	22.05	560.0			37.8	3.2	50	ne.			2		4			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.09	561.1			45.3	7.4	54	n.			6		3			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.71	754.6	29.75	755.6	50.8	10.4	93	n.	7.1	3.2			10 ks			0.008	0.2	overcast	K. Ogawa.
Hakodate	29.75	755.6	29.76	755.9	51.5	10.8	90	se.	7.4	3.3			4			0	0	fair	
Hiroshima, I. M. Obs'y	29.88	758.9	29.89	759.2	57.8	14.3	68	nne.	3.8	1.7		0	0			0	0	clear	J. Sogawa.
Kanazawa	29.74	755.4	29.85	758.2	51.9	11.1	88	wnw.	2.3	1.0		ck	10ks;n			0.140	3.6	raining	S. Endo.
Kioto	29.68	753.9	29.85	758.2	55.7	13.2	68	nw.	3.8	1.7			10 s			0	0	cloudy	M. Tojima.
Kochi	29.86	758.4	29.88	758.9	64.0	17.8	51	nnw.	9.8	4.4		0	4 s		nw.	0	0	fair	K. Kusunose.
Nagasaki, I. M. Obs'y	29.75	755.6	29.95	760.7	61.7	16.5	68	ne.	4.3	1.9		0	0			0	0	clear	S. Takehayashi.
Niigata	29.67	753.6	29.71	754.6	55.7	13.2	93	nw.	12.4	5.5			10 n			0.255	6.5	light rain	M. Morita.
Nobiru	29.53	750.0	29.54	750.3	55.5	13.1	85	n.	10.7	4.8			10 n			0.835	21.2	raining	H. Midzushina.
Supporo					53.8	12.1	81	calm	0	0			0			0.045	1.1	clear	
Tokei Obs'y, Yeddo	29.57	751.1	29.64	752.8	54.6	12.6	96	nne.	3.3	1.5			10 s			0.045	1.1	overcast	The Staff.
Wakayama	29.82	757.4	29.87	758.7	55.9	13.3	75	n.	3.1	1.4		0	0			0	0	clear	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.84	757.9	30.03	762.8	78.2	25.7	71	e.	15.0	6.7		0	2 k		e.	0.03	0.8	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.72	602.5	29.94	760.5	61.5	16.4	61	calm	0	0		0	0			0	0	foggy	Prof. Vicente Fernandez.
Leon	24.28	616.7	29.95	760.7	57.2	14.0	67	nnw.			1	0	0			0	0	dense fog	Prof. M. Leal.
Mazatlan	29.64	752.9	29.90	759.5	71.5	21.9	83	ne.	0.9	0.4		3 cs	0					foggy	F. Quijano, C. E.
Mexico, Central Obs'y	23.14	587.7	30.17	766.2	54.5	12.5	78	calm	0	0		2 c	0			0.520	13.2	foggy	The Staff.
Morelia	24.27	616.5	30.35	770.8	61.5	16.4	79	s.			3	2	1	s.	e.	0	0	clear	M. Tena, M. D.
Pabellon, Aguascalientes	23.97	608.7	29.94	760.5	58.6	14.8	57	calm			0	0	0			0	0	foggy	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.39	594.1	30.14	765.5	51.8	11.0	90	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
San Luis Potosi	24.14	613.0	30.02	762.6	58.8	14.9	62	se.			1	1	0	w.		0	0	clear	G. Barroeta, M. D.
Zacatecas	22.58	573.5	30.13	765.3	59.2	15.1	31					3	0			0	0	fine	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.28	769.2	30.28	769.2	52.3	11.3		n.			4					0	0		
Groningen	30.14	765.5	30.19	766.8	50.7	10.4		n.			4					0	0		
Helder	30.24	768.2	30.24	768.2	47.7	8.7		n.			4					0	0		
Hellevoetsluis	30.26	768.6	30.26	768.6	53.8	12.1	63	n.			3					0	0		
Utrecht	30.19	766.8	30.24	768.0	51.6	10.9	54	n.			4		8			0.016	0.4	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	30.19	766.7	30.25	768.3	40.1	4.5	51	nnw.	34	15			4			0	0		
Brono	30.19	766.8	30.23	767.8	46.0	7.8	67	n.	18	8			2			0	0		
Christiania	29.94	760.4	30.09	764.2	50.5	10.3	33	n.	18	8			10			0	0		
Gjesvær	30.07	763.7	30.09	764.3	41.4	5.2		w.			2		10						
Lodingen	30.11	764.8	30.16	766.0	43.9	6.6	70	nw.			4		8			0	0		
PORTUGUESE.																			
Angra, Azores					62.2	16.8	56	nnw.	5.6	2.5			4			0.374	9.5		Dr. J. A. Sampaio.
Campo Major	29.00	736.5	29.98	761.4	68.7	20.4	15	wnw.	8.1	3.6			7			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.06	763.6	30.15	765.9	64.8	18.2	72	calm					10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.71	754.6	30.07	763.7	64.6	18.1	67	nw.	12.5	5.6			9			0	0		The Staff.
Ponta Delgada, Azores	30.08	764.0	30.15	765.8	68.0	20.0	57	w.	6.9	3.1			4			0.480	12.2		
Saint Paul de Loando	29.79	756.7	29.99	761.8	77.7	25.4	92	wsw.	1.3	0.6			2	sse.		0	0	foggy	
Serra da Estrella	28.26	641.6	29.96	760.9	51.1	10.6	71	nnw.	13.0	5.8			7			0.016	0.4		
RUSSIAN.																			
Akmolinski	28.91	734.3	29.94	760.5	74.8	23.8	26	e.	4	2		3 c	0			0	0		Major K. Lasarew.
Archangel	29.94	760.4	29.96	760.9	41.2	5.1	71	ne.	4	2			10			0	0		Capt. Sseliwerstow.
Astrakhan	29.79	756.6	29.71	754.5	79.0	26.1	41	se.	22	10		0	1 s			0	0		Capt. Wisganow.
Barnaul	29.74	755.4	30.24	768.1	54.3	12.4	27	calm	0	0			0			0	0		Meteorological Obs'y.
Dorpat	29.45	748.1	29.69	754.2	51.8	11.0	65	ese.	7	3		0	2 k			0.535	13.6		Observatory.
Ekaterinburg	29.04	737.7	29.98	761.4	68.7	20.4	53	nnw.	4	2		c;ck	9 ks			0	0		Meteorological Obs'y.
Kasan	29.50	749.3	29.76	755.9	66.2	19.0	76	se.	2	1			10			0.236	6.0		Observatory.
Kertch	29.71	754.6	29.73	755.1	63.3	17.4	51	nw.	9	4		0	5 ks			0	0		Lagorio & Saatyrez.
Kieff	29.00	736.6	29.63	752.5	52.9	11.6	68	se.	9	4		c	6 k;ks			0.079	2.0		Observatory.
Lugan	29.48	748.7	29.68	753.8	64.6	18.1	67	w.	4	2			8			0	0		Meteorological Obs'y
Moscow	29.18	741.2	29.64	752.8	63.9	17.7	34	s.	7.8	3.5			4 ks						Meteorological Obs'y.
Nikolaiev	29.69	754.1	29.76	755.9	63.5	17.5	54	s.	9	4		cs	10 n			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.93	760.2	30.02	762.4	39.2	4.0	82	calm	0	0			10			0	0		Lieut. Iwanow.
Pekin, China	29.68	753.8	29.82	757.4	60.3	15.7	88	calm	0	0			9 n			0.677	17.2	raining	Physical Observatory
St. Petersburg	29.72	754.8	29.73	755.2	53.6	12.0	45	ene.	7	3			9 kn			0	0		Central Physical Obs'y.
Semipalatinsk	29.48	748.9	30.13	765.3	63.0	17.2	21	ne.	11	5		0	0			0	0		Major Lasareu.
Tashkend, Laboratory	28.32	719.3	29.82	757.3	76.6	24.8	43	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.32	719.4	29.67	753.6	75.0	23.9	55	n.	2	1		8 cs	0			0.087	2.2		Physical Observatory
Vladivostock	29.96	760.9	30.02	762.6	49.6	9.8	83	nw.	4	2		0	0			0	0		
Warsaw	29.26	743.1	29.68	753.9	48.0	8.9	63	wnw.	16	7			10 ks						Astronomical Obs'y.
Wilna	29.22	742.1	29.63	752.7	51.1	10.6	49	se.	7	3			9			0.087	2.2		Berg, Assistant.
Yeniseisk	30.06	763.5	30.35	771.0	40.8	4.9	56	w.	4	2			7			0	0		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.77	756.2	29.87	758.8	66.6	19.2	78	se.	2.7	1.2			5			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	29.97	761.2	30.03	762.7	61.5	16.4	92	e.	1.3	0.6			10			0.142	3.6	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.01	686.0	29.88	759.0	68.4	20.2	68	n.	3.1	1.4			4			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.71	703.7	29.85	758.2	73.9	23.3	36	s.	5.4	2.4		0	2			0.091	2.3	cloudy	The Staff.
Murcia, Met. Obs'y	29.70	754.3	29.83	757.7	87.1	30.6	37	ese.	2.9	1.3		0	3			0	0	clouds	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.08	738.7	29.96	760.9	68.7	20.4	53	calm	0	0			9			0	0	almost cov'd	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	29.91	759.6	29.97	761.3	75.5	24.2	83	sse.	0.9	0 4		0	0			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.84	757.8	29.89	759.2	85.2	29.6	79	ssw.	6.6	3.0		0	s			0.039	1.0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.93	760.1	30.02	762.6	67.8	19.9	65	wnw.	7.5	3.4		1	2	w.	nw.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.96	761.0	30.05	763.3	77.0	25.0	90	calm	0	0		4 cs	4 kn	e.	e.	0	0	cloudy	Manuel Maese.
Tuguegarao, Philippine Id's	29.78	756.4	29.91	759.6	80.9	27.2	79	nnw.	8.3	3.7		0	1 ks			0	0	clear	José L. Yrastorza.
SWEDISH.																			
Haparanda	30.02	762.6	30.06	763.6	47.5	8.6	37	n.			2		5			0	0		
Umea	30.01	762.3	30.06	763.6	46.0	7.8	38	e.			2		0			0	0		
Hernosand	29.95	760.8	30.00	762.1	43.9	6.6	43	e.			2		9			0.173	4.4		
Stockholm	29.71	754.6	29.89	759.1	42.4	5.8	55	nne			7		10			0.567	14.4		
Wisby	29.67	753.7	29.73	755.2	39.6	4.2	90	nne.			7		10			0.346	8.8	raining	
Sub-series.																			
Upsala	29.84	758.0	29.93	760.2	42.4	5.8	51	nne.	25.5	11.4			9		nne.	0	0		S. G. Elmeman.
SWISS.																			
Geneva	28.53	724.7	29.94	760.4	60.1	15.6	53	ne.			4					0	0	clear	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Velocity. Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
TURKISH.																			
Constantinople			29.91	759.7	59.0	15.0	60	s.	2	1.0			0			0	0		The Observatory.
Valona			29.95	760.8	72.1	22.3		w.			1		5			0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.91	759.6	73.9	23.3	74	sw.			3	0	6 n		sw.	0.37	9.4		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.59	751.6	29.67	753.6	54	12.2	67	calm	0	0			10 s			0.03	0.8	cloudy	J. O. Barnes.
Alpena, Michigan	29.29	744.0	29.95	760.7	46	7.8	40	ne.	10	4.5		0	1 s			0	0	clear	Jas. J. Fitzgerald.
Atlanta, Georgia	28.67	728.2	29.84	757.9	48.2	9.0	77	w.	11	4.9			10 s		calm	0.06	1.5	cloudy	H. Hall.
Atlantic City, New Jersey	29.54	750.3	29.55	750.6	45.2	7.3	93	n.	15	6.7			10 s			0.05	1.3	cloudy	Jas. M. Watson.
Augusta, Georgia	29.63	752.6	29.82	757.4	54.5	12.5	70	w.	6	2.7		4 c	0	w.		0	0	fair	John Healy.
Baltimore, Maryland	29.61	752.1	29.66	753.4	51	10.6	86	ne.	5	2.2			10s;fg			0.10	2.5	cloudy	Robert Seyboth.
Barnegat, New Jersey	29.55	750.6	29.57	751.1	44.8	7.1	96	ne.	10	4.5			10 s			0.09	2.3	cloudy	Chas. F. Merritt.
Bismarck, Dakota	28.36	720.3	30.14	765.5	44	6.7	58	e.	2	0.9		0	0			0	0	clear	Cyrus Cramer.
Boise City, Idaho	27.13	689.1	29.97	761.2	40	4.4	82	n.	3	1.3		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.51	749.5	29.67	753.6	43.0	6.1	98	ne.	9	4.0			fg.			0.43	10.9	dense fog	O. B. Cole.
Brownsville, Texas	29.87	758.7	29.91	759.7	78	25.6	90	se.	4	1.8		2 ck	8 s		se.	0	0	cloudy	M. McCarty.
Buffalo, New York	28.96	735.6	29.70	754.4	47	8.3	91	n.	8	3.6		3 ck	7 s	n.	n.	0.10	2.5	cloudy	Wm. Finn.
Burlington, Vermont	29.40	746.7	29.69	754.1	51.5	10.8	79	calm	0	0		10 ck	0	w.		0.01	0.3	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.58	751.3	29.98	761.5	50.7	10.4	80	nw.	8	3.6			10 s		nw.	0	0	cloudy	W. H. Ray.
Campo, California	27.42	696.5	29.95	760.7	41	5.0	82	sw.	2	0.9		1 k	4 s		w.	0	0	fair	W. H. Clendenon.
Camp Thomas, Arizona	27.18	690.4	29.84	757.9	48.5	9.2	60	n.			1	0	0			0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	29.60	751.8	29.62	752.3	51	10.6	93	se.	6	2.7			10 n			0.74	18.8	light rain	J. E. Lanouette.
Cape May, New Jersey	29.56	750.8	29.59	751.6	46	7.8	93	ne.	4	1.8			10 n		ne.	0.04	1.0	light rain	W. Bolten.
Cedar Keys, Florida	29.92	760.0	29.94	760.5	60	15.6	54	nw.	14	6.3		0	1 ks			inap.	inap.	clear	F. W. Mixer.
Champaign, Illinois	29.06	738.1	29.86	758.4	46.2	7.9	76	n.	16	7.2			10 s		n.	0.26	6.6	cloudy	L. A. Welsh.
Charleston, S. Carolina	29.71	754.6	29.76	755.9	55	12.8	69	w.	16	7.2		0	0			0.17	4.3	clear	J. H. Smith.
Charlotte, N. Carolina	28.84	732.5	29.68	753.9	56.0	13.3	57	nw.	5	2.2		0	0			0.20	5.1	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.02	737.1	29.83	757.7	49.0	9.4	77	nw.	4	1.8			10 n		nw.	0.12	3.0	light rain	B. L. Goulding.
Cheyenne, Wyoming	24.01	609.8	29.88	758.9	38.3	3.5	60	s.	22	10.0			10 s		s.	0	0	cloudy	E. McGovern.
Chicago, Illinois	29.20	741.7	29.90	759.4	45.3	7.4	73	n.	12	5.4		9 k	0	ne.		0.22	5.6	cloudy	J. Mitchell.
Chincoteague, Virginia	29.55	750.6	29.57	751.1	47	8.3	100	ne.	17	7.6			10 n		ne.	0.24	6.1	heavy rain	V. P. Temple.
Cincinnati, Ohio	29.13	739.9	29.78	756.4	47.5	8.6	88	n.	8	3.6			10 s		n.	0.07	1.8	cloudy	R. B. Watkins.
Cleveland, Ohio	29.02	737.1	29.75	755.6	45.5	7.5	98	ne.	7	3.1			10 n		n.	0.30	7.6	light rain	J. B. Newlin.
Coleman City, Texas	28.25	717.5	30.04	763.0	53	11.7	86	ne.	2	0.9		10 cs	0			0	0	cloudy	L. Dorman.
Columbus, Ohio	28.88	733.5	29.72	754.9	50	10.0	86	nw.	5	2.2			10 s		nw.	0.48	12.2	threatening	D. Cuthbertson.
Concho, Texas	28.12	714.2	30.02	762.5	58	14.4	49	ne.	10	4.5			10 s		e.	0	0	cloudy	W. W. McConihe.
Davenport, Iowa	29.32	744.7	29.96	761.0	51	10.6	59	n.	11	4.9		6 ck	0	ne.		0	0	fair	R. R. Martin.
Dayton, Washington T'y	28.27	718.0	30.02	762.5	42.2	5.7	82	ne.	2	0.9			10 s		sw.	0	0	cloudy	H. Clifford.
Deadwood, Dakota	25.37	644.4	29.88	758.9	40	4.4	86	sw.	8	3.6		7 c	0	sw.		0	0	fair	G. W. Scott.
Decatur, Texas					53	11.7	55	ne.	6	2.7		0	0			0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	29.56	750.8	29.58	751.3	46	7.8	100	ne.	21	9.4			10n;fog		ne.	0.07	1.8	light rain	A. Schneider.
Denison, Texas	29.30	744.2	30.09	764.3	51.0	10.6	86	calm	0	0		0	0			0	0	clear	J. McGlone.
Denver, Colorado	24.70	627.4	29.86	758.4	43.5	6.4	73	s.	7	3.1		0	2 s		calm	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.18	741.2	30.07	763.8	49	9.4	71	n.	3	1.3		3 cs	0			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.08	738.6	29.78	756.4	47.9	8.8	77	n.	14	6.3			10 s		ne.	0.15	3.8	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.52	699.0	30.07	763.8	50	10.0	66	se.	2	0.9			10 s			0	0	cloudy	E. A. Thomas.
Dubuque, Iowa	29.29	744.0	29.99	761.7	50.8	10.4	48	nw.	6	2.7		0	0			0.01	0.3	clear	J. Harvey Smith.
Duluth, Minnesota	29.50	749.3	30.20	767.1	51	10.6	40	ne.	3	1.3		hz.	hz.			0	0	light haze	N. B. Conger.
Eagle Pass, Texas	29.23	742.4	30.03	762.7	66.1	18.9	48	se.	5	2.2			10 s			0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.14	638.5	29.82	757.4	42	5.6	62	s.	12	5.4		4 cs	0	sw.		0	0	fair	J. M. Clifford.
Eastport, Maine	29.61	752.1	29.68	753.9	43.5	6.4	75	ne.	5	2.2			10 s		ne.	inap.	inap.	cloudy	J. H. Melton.
El Paso, Texas	26.23	666.2	29.87	758.7	50	10.0	48	nw.	3	1.3		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.00	736.6	29.72	754.9	47	8.3	93	ne.	2	0.9			10 n			0.34	8.6	heavy rain	R. H. Paxton.
Escanaba, Michigan	29.38	746.2	30.04	763.0	46	7.8	40	n.	17	7.6		0	3 k		n.	0	0	clear	C. Dill.
Fort Apache, Arizona	25.00*	635.0	29.82	757.4	42	5.6	63	ne.	2	0.9		0	0			0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.04	686.8	29.88	758.9	48	8.9	52	ne.	12	5.4		7 k	0	e.		0	0	fair	B. O. Lenoir.
Fort Bennett, Dakota	28.51	724.1	30.07	763.8	38.0	3.3	92	sw.	2	0.9		0	0			0	0	clear	A. Pritchard.
Fort Benton, Montana	27.04	686.8	29.83	757.7	48	8.9	93	sw.	4	1.8		0	9 n			0.18	4.6	light rain	G. W. Davis.
Fort Buford, Dakota	28.17	715.5	30.15	765.8	43	6.1	68	ne.	9	4.0		0	0			0	0	clear	A. H. Bell.
Fort Custer, Montana	26.69	677.9	29.79	756.7	50	10.0	74	se.	8	3.6			10 s		calm	0	0	thun'rst'rm	V. Verge.
Fort Davis, Texas	25.13	638.3	29.85	758.2	53	11.7	38	n.	1	0.4		0	0			0	0	clear	J. Williams.
Fort Elliott, Texas	27.29	693.2	29.99	761.7	40	4.4	73	e.	1	0.4		6 k	0	e.		0	0	fair	W. J. Cundall.
Fort Gibson, Indian T'y																			J. B. Campbell.
Fort Grant, Arizona	25.25	641.3	29.86	758.4	55	12.8	20	w.	5	2.2		0	0			0	0	clear	T. J. Macgowan.
Fort Keogh, Montana	27.42	696.5	29.87	758.7	47	8.3	65	se.	20	8.9		3 c	0	se.		0	0	clear	W. B. Stockman.
Fort Macon, North Carolina	29.61	752.1	29.62	752.3	58	14.4	70	sw.	16	7.2		3 cs;k	0	c;sw		0	0	clear	L. Leonardy.
Fort McKavett, Texas	27.82	706.6	30.06	763.5	59	15.0	60	n.	10	4.5			10 s			0	0	cloudy	J. E. Thatcher.
Fort Missoula, Montana	26.63	676.4	29.93	760.2	36	2.2	82	sw.	1	0.4		0	0			0	0	clear	J. H. Jones.
Fort St. Michaels, Alaska	30.30	769.6	30.34	770.6	31	— 0.6	100	e.	2	0.9			10 s			0.01	0.3	cloudy	A. P. Leavitt.
Fort Shaw, Montana	26.24	666.5	29.84	757.9	46	7.8	93	w.	9	4.0			10 s		w.	0	0	cloudy	A. L. Mathews.
Fort Sill, Indian Territory	28.88	733.5	30.10	764.5	47.5	8.6	82	n.	6	2.7		2 ck	0	nw.		0	0	clear	T. Cleary.
Fort Stevenson, Dakota	28.34	719.8	30.18	766.6	41	5.0	92	e.	6	2.7		0	0			0	0	clear	W. Burrows.
Fort Verde, Arizona					54.4	12.4	51	se.			2	0	hz.			0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.34	618.2			44.5	6.9	82	calm	0	0			10 k			0.01	0.3	cloudy	T. M. Ambler.
Fredericksburg, Texas	28.28	718.3	30.00	762.0	58	14.4	64	e.	3	1.3			10 s			0	0	cloudy	H. S. Miles.
Galveston, Texas	29.98	761.5	30.03	762.7	64	17.8	68	ne.	19	8.5			10 s			0	0	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.22	742.2	29.88	758.9	52.0	11.1	47	ne.	10	4.5		0	0			0	0	clear	W. A. Reid.
Hatteras, North Carolina	29.54	750.3	29.56	750.8	59	15.0	93	calm	0	0			10 n		w.	0.04	1.0	light rain	R. M. Crawford.
Helena, Montana	25.68	652 3	29.85	758.2	42	5.6	82	w.	6	2.7			10 n		w.	0.01	0.3	light rain	S. Wheaton.
Henrietta, Texas	29.13	739.9	30.11	764.8	52.0	11.1	72	calm	0	0		0	0			0	0	clear	J. W. Byram.
Huron, Dakota	28.78	731.0	30.13	765.3	39.8	4.3	76	n.	3	1.3		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.02	737.1	29.80	756.9	47.5	8.6	81	n.	7	3.1			10 ks		n.	0.12	3.0	cloudy	O. Schutze
Indianola, Texas	29.99	761.7	30.02	762.5	67.2	19.6	84	ne.	25	11.2			10 s		sw.	inap.	inap.	cloudy	I. A. Reed.
Jacksboro, Texas	28.93	734.8	30.08	764.0	52	11.1	80	ne.	3	1.3		0	0			0	0	clear	J. P. Sherry.
Jacksonville, Florida	29.82	757.4	29.86	758.4	64	17.8	52	w.	9	4.0		0	0			0	0	clear	J. W. Smith.
Keokuk, Iowa	29 33	745.0	29.98	761.5	51.0	10.6	69	nw.	6	2.7		10 k	0	n.		0	0	cloudy	F. Z. Gosewisch
Key West, Florida	29.93	760.2	29.95	760.7	79.0	26.1	65	nw.	12	5.4		0	4 k		nw.	0	0	fair	L. M. Melbourne.
Kittyhawk, North Carolina	29.57	751.1	29.59	751.6	51	10.6	93	ne.	14	6.3		2 c	4 k	ne.	sw.	0.11	2.8	fair	E. A. Beals.
Knoxville, Tennessee	28.77	730.7	29.79	756.7	47	8.3	87	sw.	7	3.1			10 s		nw.	0.16	4.1	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.29	744.0	30.05	763.3	49	9.4	37	n.	10	4.5		0	0			0	0	clear	S. C. Emery.
La Mesilla, New Mexico	26.07	662.2	29.83	757.7	45.0	7.2	41	calm	0	0		0	0			inap.	inap.	clear	N. D. Lane.
Leavenworth, Kansas	29.21	741.9	30.09	764.3	49	9.4	71	calm	0	0		0	0			inap.	inap.	clear	A. W. Browne.
Lewiston, Idaho	29.18	741.2	30.02	762.5	40	4.4	79	calm	0	0		0	1 s			0	0	clear	J. M. Burlew.
Little Rock, Arkansas	29.71	754.6	30.02	762.5	54	12.2	74	nw.	6	2.7			10 s		nw.	0	0	cloudy	W. U. Simmons.
Los Angeles, California	29.70	754.4	30.10	764.5	47.1	8.4	77	se.	5	2.2		0	0			0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.23	742.4	29.78	756.4	47	8.3	86	n.	10	4.5			10 s		nw.	0.02	0.5	cloudy	H. C. Smyth.
Lynchburg, Virginia	28.98	736.1	29.66	753.4	49.2	9.6	86	w.	1	0.4			10 n		nw.	0.22	5.6	light rain	W. R. Bushby.
Madison, Wisconsin	28.98	736.1	29.98	761.5	45	7.2	68	n.	9	4.0		0	0			0	0	clear	C. A. Shaw.
Marquette, Michigan	29.40	746.7	30.12	765.0	44	6.7	60	n.	11	4.9		0	0			0	0	clear	J. Gilligan.
Memphis, Tennessee	29.66	753.4	29.99	761.7	51	10.6	80	nw.	2	0.9			10 s			inap.	inap.	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.19	741.4	29.93	760.2	48	8.9	50	n.	19	8.5		1 c	0	nw.		0	0	clear	W. Line.
Mobile, Alabama	29.95	760.7	29.99	761.7	54.8	12.7	74	nw.	5	2.2		8 cs	0	nw.		0	0	cloudy	J. D. Paxton.
Montgomery, Alabama	29.72	754.9	29.95	760.7	51	10.6	86	w.	8	3.6			10 cs		nw.	0	0	cloudy	J. B. McLaughlin.

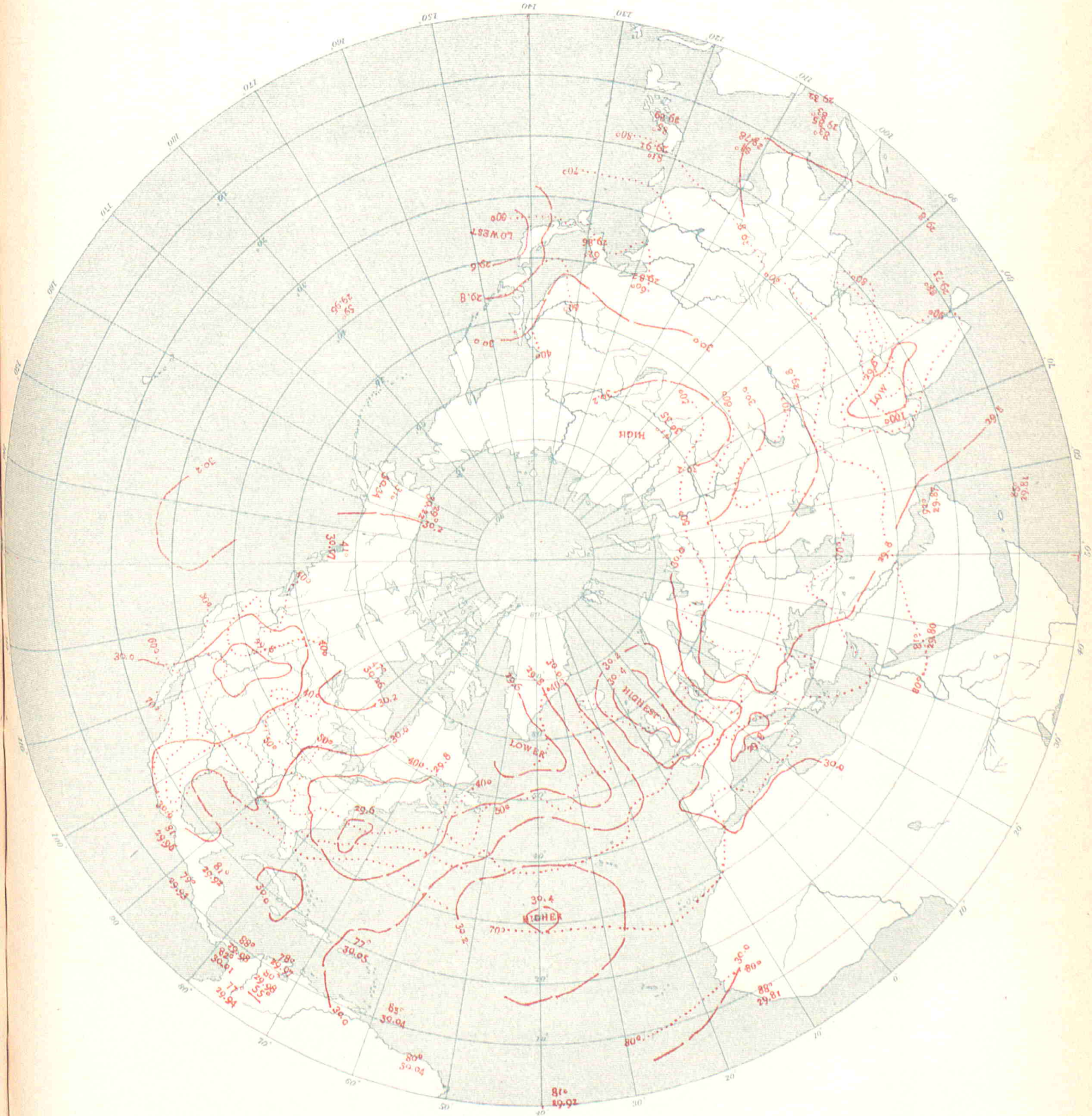
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Moorhead, Minnesota	29.17	740.9	30.15	765.8	40	4.4	82	calm	0	0		0	0			0	0	clear	H. Bessant.
Morgantown, W. Virginia	28.70	729.0	29.70	754.4	49.5	9.7	74	calm	0	0			10 s			0.03	0.8	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.49	596.6	29.67	753.6	34.0	1.1	92	ne.	7	3.1			fg		ne.	0.37	9.4	dense fog	J. G. Linsley.
Nashville, Tennessee	29.33	745.0	29.86	758.4	48.5	9.2	77	nw.	8	3.6			10 ks		nw.	0.14	3.6	cloudy	L. A. Jesunofsky.
New Haven, Connecticut	29.51	749.5	29.63	752.6	45	7.2	93	ne.	12	5.4			10s;sk		ne.	0.01	0.3	cloudy	J. H. Sherman.
New London, Connecticut	29.58	751.3	29.63	752.6	46	7.8	83	ne.	6	2.7			10 s		calm	0.01	0.3	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.94	760.5	29.99	761.7	65.0	18.3	54	sw.	4	1.8		8 c	0	sw.		0	0	cloudy	L. Dunne.
Newport, Rhode Island	29.58	751.3	29.63	752.6	45.0	7.2	86	n.	9	4.0			10 s		calm	0.03	0.8	cloudy	W. McGillivray.
New River, N. Carolina					55	12.8	70	w.			2	0	2 s			1.75	44.4	clear	C. C. Corbin.
New Shoreham, Rhode I'd.	29.60	751.8	29.63	752.6	44.0	6.7	83	ne.	17	7.6			10 ks		ne.	0	0	cloudy	W. Davis.
New York, New York	29.46	748.3	29.64	752.8	45	7.2	93	ne.	10	4.5			10 s		ne.	0.02	0.5	cloudy	E. B. Garriott.
Norfolk, Virginia	29.55	750.6	29.58	751.3	51	10.6	93	n.	5	2.2			10 n			0.85	21.6	light rain	J. T. Elker.
North Platte, Nebraska	27.21	691.1	30.08	764.0	51.6	10.9	73	e.	4	1.8		0	5 s			0	0	fair	E. F. Brady.
Olympia, Washington T'y	30.03	762.7	30.07	763.8	44.0	6.7	93	calm	0	0			10 n		s.	0.03	0.8	light rain	J. Dascomb.
Omaha, Nebraska	28.97	735.8	30.13	765.3	52.0	11.1	66	n.	4	1.8		8 cs	0			0	0	cloudy	A. Pollak.
Ogglaamie, Pt. Barrow, Alas.	30.20	767.1	30.22	767.6	28.6	— 1.9	100	w	10	4.5			10 n			inap.	inap.	light snow	P. H. Ray.
Oswego, New York	29.36	745.7	29.69	754.1	49.0	9.4	80	ne.	6	2.7			10 s		e.	0	0	cloudy	S. W. Beall.
Palestine, New York	29.54	750.3	30.09	764.3	56.5	13.6	74	n.	8	3.6		7 ck	0	w.		inap.	inap.	fair	L. M. Pindell.
Pensacola, Florida	29.96	761 0	29.98	761.5	57.1	13.9	77	n.	2	0.9		7 cs	0	w.		0	0	fair	M. McGauran.
Philadelphia, Pa.	29.54	750.3	29.64	752.8	48	8.9	100	ne.	8	3.6			10 s		ne.	0.03	0.8	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.72	450.1	29.78	756.4	18	— 7.8	80	sw.	26	11.6		0	0			0	0	clear	L. M. Dey.
Pioche, Nevada	23.85	695.8	29.77	756.1	40	4.4	40	s.	10	4.5		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	28.87	733.3	29.67	753.6	48.0	8.9	86	nw.	3	1.3			10 s		nw.	0.16	4.1	cloudy	J. H. Bryce.
Poplar River, Montana	27.98	710.7						n.			1	0	0			0	0	clear	U. D. Maxwell.
Port Eads, Louisiana	29.99	761.7	30.00	762.0	64.2	17.9	60	n.	12	5.4		0	9 s		n.	0	0	cloudy	H. G. Christian.
Port Huron, Michigan	29.11	739.4	29.79	756.7	42.2	5.7	92	n.	12	5.4		7 ck	0	n.		0.17	4.3	fair	W. O. Bailey.
Portland, Maine	29.60	751.8	29.65	753.1	49.0	9.4	86	ne.	11	4.9			10 s		ne.	0.04	1.0	cloudy	D. C. Murphy.
Portland, Oregon	30.00	762.0	30.07	763.8	43.2	6.2	93	s.	4	1.8			10 s		se.	0.01	0.3	cloudy	M. L. Hearne.
Portsmouth, N. Carolina					61	16.1	60	sw.	21	9.4		6 k	0	nw.		0	0	fair	F. P. Chaffee.
Prescott, Arizona	24.69	627.1	29.79	756.7	59	15.0	6	s.	12	5.4		0	0			0	0	clear	J. Mc N. Wright.
Provincetown, Mass.	29.59	751.6	29.62	752.3	42	5.6	100	ne.	11	4.9			10s;fg			0.31	7.9	cloudy	P. T. Jenkins.
Punta Rassa, Florida	29.88	758.9	29.89	759.2	80	26.7	58	w.	20	8.9		0	3 k		w.	0	0	clear	W. J. Evans.
Red Bluff, California	29.75	755.6	30.12	765.0	43.4	6.3	73	s.	4	1.8		1 k	0	s.		0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.77	756.1	30.01	762.2	64	17.8	90	nw.	9	4.0			10 s		nw.	0.05	1.3	cloudy	P. M. Wilson.
Rochester, New York	29.03	737.3	29.69	754.1	46	7.8	93	calm	0	0		10 cs	sk.	e.		0.01	0.3	cloudy	F. Gillam.
Roseburg, Oregon	29.54	750.3	30.09	764.3	39	3.9	82	s.	2	0.9		0	8 ks		sw.	0.05	1.3	cloudy	J. J. Naury.
Sacramento, California	30.06	763.5	30.14	765.5	44.0	6.7	76	se.	5	2.2		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.37	746.0	29.96	761.0	48.0	8.9	93	nw.	9	4.0		6ck;cs	0	nw.		inap.	inap.	fair	J. H. Webber.
St. Paul, Minnesota	29.26	743.2	30.11	764.8	46.0	7.8	60	nw.	1	0.4		0	hz.			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.35	745.5	30.21	767.3	43	6.1	74	w.	1	0.4		0	0			0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.45	646.4	29.77	756.1	46	7.8	44	calm	0	0		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.33	745.0	30.03	762.7	61	16.1	50	n.	7	3.1			10 s			0	0	cloudy	E. Lane.
San Diego, California	30.00	762.0	30.07	763.8	56.0	13.3	72	w.	4	1.8		5 k	1 s	s.		0	0	fair	A. C. Dobbins.
Sandusky, Ohio	29.08	738.6	29.75	755.6	47	8.3	93	n.	18	8.0			10 n		n.	0.95	24.1	light rain	M. H. Perry.
Sandy Hook, New Jersey	29.59	751.6	29.63	752.6	46.0	7.8	93	ne.	17	7.6			10 n		ne.	0.02	c.5	light rain	B. A. Blundon.
San Francisco, California	30.11	764.8	30.18	766.6	48	8.9	86	w.	5	2.2		0	0			0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.20	589.3	29.81	757.2	46	7.8	24	ne.	8	3.6		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia																			H. W. Ford.
Shreveport, Louisiana	29.83	757.7	30.07	763.8	55	12.8	69	n.	2	0.9		0	0			0	0	clear	E. N. Meekins.
Silver City, New Mexico	24.25	615.9	29.80	756.9	38	3.3	40	w.	2	0.9		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	30.01	762.2	30.07	763.8	41.2	5.1	82	ne.	4	1.8			10 ks		calm	0	0	cloudy	J. J. McLean.
Smithville, North Carolina	29.64	752.8	29.68	753.9	56	13.3	62	nw.	12	5.4		3 c	2 k	w.		0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.96	710.2	30.01	762.2	34	1.1	81	s.	1	0.4		2 k	0			0	0	clear	D. Moore.
Springfield, Illinois	29.26	743.2	29.92	760.0	50	10.0	64	n.	9	4.0			10 s		n.	0.03	0.8	cloudy	T. B. Jennings.
Springfield, Massachusetts	29.51	749.5	29.64	752.8	47.8	8.8	86	n.	5	2.2			10 s		ne.	0.13	3.3	cloudy	T. S. Outram.
Springfield, Mo.	28.62	726.9	30.10	764.5	46	7.8	73	n.	6	2.7		7ok;cs	0	n.		0.01	0.3	fair	J. B. Marbury.
Starkville, Miss.	29.52	749.8			52	11.1	86	nw.	6	2.7		0	0			0	0	clear	M. J. Wright.
Stockton, Texas	26.94	684.3	29.96	761.0	52.5	11.4	80	e.	8	3.6		0	0			0	0	clear	J. O'Dowd.
Thatcher's Island, Mass.	29.63	752.6	29.68	753.9	42.3	5.7	96	ne.	17	7.6			10s;fg			0.77	19.6	cloudy	F. R. Day.
Toledo, Ohio	29.10	739.1	29.78	756.4	46	7.8	93	n.	7	3.1			10 n		n.	0.89	22.6	light rain	A. Buell.
Tucson, Arizona	27.54	699.5	29.88	758.9	55	12.8	37	se.	4	1.8		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.73	755.1	30.10	764.5	47	8.3	61	w.	2	0.9		0	5 s		sw.	0	0	fair	J. Daly.
Uvalde, Texas	29.06	738.1	30.00	762.0	64	17.8	48	se.	2	0.9			10 s		se.	inap.	inap.	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.78	756.4	30.03	762.7	57	13.9	74	nw.	6	2.7		0	0			0	0	clear	H. T. Brisbane.
Visalia, California																			W. L. Seward.
Washington, D. C.	29.54	750.3	29.65	753.1	49.0	9.4	96	n.	3	1.3			10 n		n.	0.33	8.4	light rain	B. M. Purssell.
West Las Animas, Colorado	26.06	661.9	29.92	760.0	44	6.7	71	e.	10	4.5		0	0			0	0	clear	J. Grover.
Williamsport, Pa.	29.06	738.1	29.66	753.4	50.8	10.4	86	calm	0	0			10 s			0.04	1.0	threatening	B. F. Hough.
Wilmington, N. Carolina	29.60	751.8	29.65	753.1	57	13.9	64	nw.	12	5.4		7 k	0	nw.		0	0	fair	A. T. Sherwood.
Winnemucca, Nevada	25.57	649.5	29.92	760.0	34	1.1	46	s.	8	3.6		3 ck	0	sw.		0	0	clear	J. R. Williams.
Yankton, Dakota	28.85	732.8	30.13	765.3	45	7.2	77	nw.	2	0.9		0	0			0	0	clear	J. H. Atfield.
Yuma, Arizona	29.78	756.4	29.93	760.2	57.3	14.1	50	nw.	3	1.3		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.09	561.1			55.0	12.8	72	ne.	2	0.9		6 ck	3 ks;s			0.48	12.2	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.04	763.0	30.04	763.0	83	28.3	87	e.				5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.91	759.7	29.94	760.5	77	25.0	90	n.	2	0.9			10 ks		n.	0.01	0.3	cloudy	J. I. Plume.
Havana, Cuba, W. I.	29.94	760.5	30.00	762.0	79	26.1	77	calm	0	0		0	0			0.10	2.5	clear	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.00	762.0	30.01	762.2	79.2	26.2	70	calm	0	0		3 c	0	wnw.		0	0	fair	Robert Johnston.
Magua, San Domingo, W. I.					72	22.2		calm			0		10 n		w.	0	0		S. M. Pike.
Navassa, W. I.																			F. M. Everett.
Paramaribo, S. A.	30.04	763.0	30.04	763.0	80	26.7	87	e.			2	4 c	5 k	e.	e.	0.160	4.1	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.52	749.8	29.98	761.5	80	26.7	85	n.			1		10 s		calm	1.43	36.3	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							98	nw.			1	0	7 ks		nw.	1.83	46.5	cloudy	Earl Flint.
Santiago de Cuba, W. I.	29.97	761.2	30.00	762.0	77	25.0	86	calm	0	0		3 c	0			0.03	0.8	fair	Robert Mason.
York Factory, B. A.	30.21	767.3	30.26	768.6	47.0	8.3	96	s.	8	3.6		2 k	3 s	s.	s.	0	0	fair	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
British Naval.																		
H. M. S. Alert, Port Mozambique, Mozambique	29.99	761.7	83.2	28.4	76	sse.			1–2		2							d. clouds.
H. M. S. Alexandra, N. 39° 37′, E. 19° 58′	29.96	761.0	69	20.6	70	se.			2		4							d. clouds.
H. M. S. Amethyst, N. 24° 46′, W. 20° 54′	30.09	764.3	70.5	21.4	90	n.			3		2	nne.						d. clouds.
H. M. S. Champion, S. 0° 15′ W. 113° 10′			75	23.9	90	ene.			3		1					2	e.	blue sky.
H. M. S. Cleopatra, N. 11° 51′, E. 110° 08′	29.78	756.4	83.5	28.6	83	sse.			2		2							d. clouds.
H. M. S. Comus, N. 1° 25′ E. 104° 45′	29.82	757.4	82.5	28.1	89	calm			0		5	sw.						d. clouds.
H. M. S. Condor, N. 40° 17′, E. 18° 55′	29.95	760.7	68	20.0		s.			4–5		5	s.				4	sse.	misty.
H. M. S. Coquette, Alexandria, Egypt	30.02	762.5	70	21.1		wnw.			1		1	wnw.						blue sky.
H. M. S. Dido, N. 11° 25′, W. 60° 45′	30.07	763.8	79	26.1		ene.			3		3	e.				3	e.	d. clouds.
H. M. S. Druid, N. 16° 27′, W. 85° 54′	29.92	760.0	80.8	27.1	90	e.			2									misty.
H. M. S. Dwarf, S. 34° 36′, W. 58° 19′	30.02	762.5	45.8	7.7	98	wsw.			3–5		0					3	wsw.	squally.
H. M. S. Eclipse, S. 15° 55′, E. 45° 16′	30.00	762.0	82	27.8		nww.			1		4							d. clouds.
H. M. S. Emerald, S. 51° 40′ W. 160° 20′	29.20	741.7	50	10.0	?	n.			2–3		10	n.				6	ene.	drizzlling.
H. M. S. Euryalus, Trincomalee, Ceylon	29.73	755.1	88	31.1	80	sse.			1–4		10	w.						squally.
H. M. S. Fantome, N. 11° 45′, W. 71° 00′	29.97	761.2	78	25.6		ene.			2–3		9	ene.				3	ene.	d. clouds.
H. M. S. Flying Fish, N. 32° 44′, E. 129° 52′	29.95	760.7	66	18.9	94	calm			0		6							misty.
H. M. S. Fawn, N. 8° 35′ E. 58° 59′	29.81	757.2	84.5	29.2	63	calm			0		1					1	se.	blue sky.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.08	764.0	55	12.8	90	e.			2		10							misty.
H. M. S. Garnet, Colonia, Rio de La Plata, Uruguay	30.04	763.0	52	11.1	79	wsw.			6		0							squally.
H. M. S. Griffon, Halifax Nova Scotia	29.89	759.2	45	7.2	67	calm			0									foggy.
H. M. S. Inconstant, Simon's Bay, Cape Colony	30.00	762.0	65	18.3	78	calm			0		4							d. clouds.
H. M. S. Iron Duke, N. 31° 55′, E. 128° 50′	29.90	759.4	66	18.9	94	nne.			4		5					5	nne.	d. clouds.
H. M. S. Kingfisher, Callao, Peru	30.07	763.8	63	17.2		calm			0		9	calm						d. clouds.
H. M. S. Lark, S. 8° 14′, E. 156° 30′	29.91	759.7	80.3	26.8		calm			0		4							d. clouds.
H. M. S. Magpie, N. 34° 56′, E. 139° 52′	29.64	752.8	57.7	14.3	85	se.			1		10							raining.
H. M. S. Northampton, Bermuda, W. I.	29.86	758.4	73	22.8	93	sse.			5		10	sse.						overcast.
H. M. S. Pegasus, N. 1° 17′, E. 103° 51′	29.85	758.2	82.5	28.1	89	nw.			1		6							d. clouds.
H. M. S. Rambler, S. 7° 20′, E. 12° 10′	29.97	761.2	77	25.0	95	sw.			2		1					1	ssw.	blue sky.
H. M. S. Rocket, N. 48° 27′, W. 123° 27′	30.02	762.5	40	4.4	?	calm			0		2							d. clouds.
H. M. S. Tenedos, N. 45° 15′ W. 60° 00′	29.69	754.1	39	3.9	95	ene.			2		10					1	e.	raining.
H. M. S. Thetis, S. 22° 45′ W. 70° 40′	30.10	764.5	62	16.7	77	e.			1		10					2	sw.	overcast.
H. M. S. Triumph, Coquimbo, Chili	30.10	764.5	60	15.6	66	calm			0		10	calm						d. clouds.
H. M. S. Tyne, N. 37° 36′, E. 3° 31′	29.89	759.2	67	19.4	90	sw.			2		10							overcast.
H. M. S. Woodlark, Muscat Cove, Arabia	29.77	756.1	91.5	33.1	57	nw.			3		0					2	nw.	blue sky.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verde Islands	30.13	765.3	75.0	23.9	92	nne.			4		2					2		d. clouds.
Tamega, Macao, China	29.81	757.2	84.6	29.2	85	ssw.			3		7		sse.	1 h'r	1 h'r			raining.
United States Naval.																		
Navy Yard, Pensacola, Fla	29.94	760.5	57	13.9	75	nw.	4	1.8			8		nw.	0	0			fair.
Navy Yard, Portsmouth, N. H.	29.67	753.6	46	7.8	77	ne.	11	4.9			10		ne.	0.70	17.8			cloudy.
Naval Hospital, Yokohama, Japan	29.40	748.3	56	13.3	90	calm			0		10		n.	2.17	55.1			misty.
Adams, Mare Island, Cal	30.27	768.8	53	11.7	86	nw.			1		0			0	0	sm'h		clear.
Alaska, Payta, Peru	30.01	762.2	64	17.8	89	ese.			1		0			0	0	sm'h		clear.
Alert, Kobe, Japan*	29.71	754.6	61	16.1	62	nw.			1		5		n.	0	0	sm'h		fair.
Alliance, N. 36° 44′ W. 75° 22′	29.55	750.6	48	8.9	100	nw.			1		10			light	light	sm'h		overcast.
Ashuelot, Kobe, Japan	29.82	757.4	58	14.4	76	calm			0		2		calm					clear.
Brooklyn, Montevideo, Uruguay	29.95	760.7	55	12.8	87	wsw.	12	5.4			8		wsw.	0.7	18.	mod		cloudy.
Colorado, New York, N. Y	29.63	752.6	45	7.2	92	ne.	4	1.8			10		ne.	0.01	0.3			overcast.
Essex, S. 34° 40′ W. 52° 15′	29.91	759.7	56	13.3	75	wsw.			4		10					mod.	sw.	overcast.
Franklin, Norfolk, Va	29.60	751.8	52	11.1	100	n.	8.4	3.8			10		calm	0.49	12.4			rainy.
Galena, N. 38° 10′, E. 1° 14′	29.92	760.0	70	21.1	90	wsw.			1		2					sm'h		fair.
Independence, Navy Yard, Mare Island, Cal	30.03	762.7	47	8.3	55	w.			4		5			0	0			fair.
Iroquois, San Francisco, Cal	30.13	765.3	51	10.6	79	sw.			3		0							clear.
Kearsarge, N. 36° 37′, W. 75° 17′	29.55	750.6	48	8.9	?	nne.			1		10					long	ne.	drizzling.
Lackawanna, S. 10° 48′, W. 78° 35′*	30.05	763.3	66	18.9	84	se.			3		5		se.			sm'h	se.	cloudy.
Lancaster, N. 38° 09′ E. 1° 17′	29.87	758.7	71	21.7	85	wsw.			3		5		w.	0	0	sm'h		fair.
Marion, S. 26° 53′, W. 42° 22′	30.14	765.5	71	21.7	80	nnw.			2		8		calm	0	0	long	ese.	cloudy.
Michigan, Erie, Pa	29.64	752.8	44	6.7	100	ne.			2		10		e.					raining.
Minnesota, Newport, R. I.	29.48	748.8	43	6.1	100	nne.	15	6.7			10							cloudy.
Monocacy, Nagasaki, Japan	29.94	760.5	64	17.8	83	nne.			1		0							clear.
New Hampshire, Newport, R. I.	29.59	751.6	45	7.2	100	ne.			4		10					sm'h		cloudy.
Nipsic, N. 38° 07′, E. 1° 20′	29.91	759.7	69	20.6	75	sw.			2		2					sm'h		hazy.
Onward, Callao, Peru†	30.14	765.5	58	14.4	94	calm			0		2					long	w.	clear.
Palos, Kobe, Japan	29.86	758.4	57	13.9	69	sw.			1		5		n.					fair.
Passaic, Washington, D. C.	29.68	753.9	50	10.0	93	calm			0		10							cloudy.
Pensacola, Callao, Peru	30.02	762.5	61	16.1	100	calm	0	0			0			0	0	sm'h		misty.
Portsmouth, Plymouth, Eng	30.26	768.6	56	13.3	94	e.			4		0					sm'h		clear.
Powhatan, Hampton Roads, Va	29.62	752.3	52	11.1	93	wnw.			1		10							raining.
Quinnebaug, N. 38° 19′ E. 1° 40′	29.89	759.2	68	20.0	79	wsw.			1		2		w.			sm'h		clear.
Ranger, Pichilinque, Mexico*	29.88	758.9	69	20.6	70	s.			2		2		calm	0	0	sm'h		clear.
Richmond, Kobe, Japan*	29.79	756.7	59	15.0	70	calm			0		2		nw.	0	0			clear.
Saratoga, Plymouth, Eng	30.12	765.0	55	12.8	68	ese.			5		2		ese.	0	0	sm'h	se.	fair.
Shenandoah, New York, N. Y*	29.70	754.4	52	11.1	93	ne.			2		10							drizzling.
St. Louis, League Island, Pa	29.88	758.9	47	8.3	92	nnw.	7	3.1			10			0.04	1.0			raining.
Swatara, N. 37° 27′, E. 126° 33′*	29.76	755.9	62	16.7	77	s.			1		2		calm			sm'h		fair.
Tennessee, N. 36° 42′, W. 75° 15′	29.62	752.3	48	8.9	100	nw.	4	1.8			10			0.07	1.8	long	ne.	rainy.
Vandalia, N. 36° 54′, W. 75° 14′*	29.58	751.3	49	9.4	100	wnw.			3		10		wsw.			sm'h	ne.	rainy.
Wabash, Boston, Mass	29.66	753.4	46	7.8	92	ne.	5	2.2			10		ne.	0.33	8.4			misty.
Wachusetts, Fort Wrangle, Alaska	29.95	760.7	43	6.1	100	calm			0		10		e.					cloudy.
Wyoming, Port Royal, S. C.	29.80	756.9	57	13.9	81	wnw.	22	9.8			5		nw.	0	0			fair.
Yantic, N. 36° 43′, W. 75° 18′	29.55	750.6	49	9.4	100	nne.			2		8					mod.	n;e	rainy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, Off Cape Ray, N. F*	29.71	754.6	38	3.3	54	s.			4		9		sw.	0	0	1	s.	overcast.
S. S. Nova Scotian, N. 53° 24′, W. 21° 06′	29.74	755.4	49	9.4		s.			4		10		ssw.			mod.	w.	cloudy.
S. S. Prussian, N. 49° 10′, W 31° 49′*	29.84	757.9	51	10.6		nw.			7		7		nnw.	6 h'r	6 h'r	cross	wnw.	cloudy.
S. S. Scandinavian, N. 48° 59′, W. 33° 03′*	29.80	756.9	46	7.8		wnw.			7		4		wnw.	sh'rs	sh'rs	con.	wnw.	showery.
S. S. Waldensian, N. 42° 17′, W. 55° 53′*	29.98	761.5	48	8.9		se.			5		fg.		se.	3 h'r	3 h'r	light	wnw.	dense fog.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, N. 38° 46′, W. 74° 00′	29.45	748.0	50	10.0	93	ne.			5		10		nne.			sm'h	ne.	fair.
S. S. Indiana, Queenstown, Ireland†	30.38	771.6	55	12.8	80	se.			5		5		s.	0	0	mod.	se.	fair.
S. S. Lord Clive, Philadelphia, Pa.*	29.52	749.8				ne.			3		10			rain	rain			raining.
S. S. Ohio, N. 38° 53′ W. 71° 13′†	29.51	749.5	48	8.9	92	s.			3							long	nne.	foggy.
ANCHOR LINE.																		
S. S. Bolivia, N. 55° 14′, W. 12° 17′ †	30.12	765.0	52	11.1		se.			2					0	0	long	s.	clear
S. S. Devonia, N. 52° 32′ W 25° 22′†	29.68	753.9	56	13.3		s.			2		7		sse.			cross	se.	light haze.
S. S. Utopia, Cadiz, Spain†	30.22	767.6	66	18.9	78	wnw.			3		0			0	0			clear.
ATLAS LINE.																		
S. S. Ailsa, N. 17° 54′, W. 75° 03′†	29.97	761.2	82	27.8	83	ene.			2		2		ne.	0	0	light	ne.	fine.
S. S. Athos, Mayagues, Porto Rico, W. I.	29.51	749.5				calm			0					shr's	shr's			
S. S. Claribel, N. 30° 38′. W. 74° 06′*†	29.86	758.4	73	22.8	81	wnw.			4		9		wsw.	6 h'r	6 h'r	r'gh	wsw.	cloudy.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 38° 12′ W. 2° 15′	30.15	765.8	53.5	11.9	87	s.			8		10							overcast.
British Merchant, S. 35° 29′, E. 20° 59′	30.01	762.2	60.5	15.8	97	ese.			5		10							showery.
Bk. Commewyne, N. 49° 29′, W. 16° 35′	29.89	759.2	58.8	14.9	81	sse.			4		10							misty.
Bk. Coppename, N. 33° 57′, W. 20° 03′	30.16	766.1	64	17.8	80	wsw.			4		4							blue sky.
S. S Earnock, N. 42° 18′, W. 28° 15′	30.06	763.5	57.8	14.3	64	wnw.			5		4							d. clouds.
Glencairn, S. 26° 38′, E. 52° 11′	30.04	763.0	75	23.9	90	var.			0–1		7							showery.
Bkt. Hope, N. 19° 25′, W. 40° 25′	30.23	767.8	76	24.4	81	ene.			3		5							d. clouds.
Bkt, May Hulse, S. 20° 41′, W. 73° 24′	30.12	765.0	63	17.2	78	sse.			3		10							overcast.
S. S. Minho, Bahia, Brazil	30.13	765.3	78.4	25.8	86	s.			4		8							overcast.
S S. Pole Star, S. 38° 19′ W. 81° 57′	30.14	765.5	60	15.6	89	nw.			6		8							squally.
CUNARD LINE.																		
S. S. Gallia, N. 42° 55′, W. 46° 26′	30.15	765.8	56	13.3	78	ssw.			5		8		sw.	0	0	long	ne.	gloomy.
S. S. Scythia, N. 42° 06′, W. 55° 10′	29.80	756.9	51	10.6	100	s.			4		2		sw.	1 h'r	1 h'r		s.	foggy.
GENERAL TRANS-ATLANTIC COMPANY																		
S. S. St. Germain, N. 41° 04′, W. 49° 09′	30.10	764.6	59.0	15.0		s.			4				s.	rain	rain	sm'h	s.	hazy.
S. S. Ville de Marseilles, N. 37° 22′, W. 17° 52′*†	29.90	759.4	63	17.2		sw.			5		10		sw.	4 h'r	4 h'r	mod.	sw.	cloudy.
GUION LINE.																		
S. S. Arizona, N. 45° 48′ W. 36° 31′	30.11	764.8	50	10.0		wnw.			4		8		nw.	0	0	long	nnw.	
S. S. Wisconsin, N. 41° 50′, W. 55° 30′*†	29.84	757.9	47	8.3		calm			0		0			1 h'r	1 h'r	sm'h	se.	dense fog.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 40° 26′, W. 68° 39′*†	29.55	750.6				nw.			2		10			0	0	long	e.	foggy.
S. S. Lessing, N. 41° 15′ W. 50° 52′	29.93	760.2	62	16.7		s.			6		8		wsw.	0	0	r'gh	wnw.	cloudy.
S. S. Silesia, Hamburg, Germany†	30.21	767.3	56	13.3		nnw.			5		2		nnw.	0	0			fair.
S. S. Wieland, N. 40° 40′ W. 61° 05′	29.74	755.6	67.5	19.7		s.			4		10		ssw.	1 h'r	1 h'r	4–5	e.	drizzling.
INMAN LINE.																		
S. S. City of New York, N. 49° 08′ W. 32° 19′	29.86	758.4				nnw.			4		10		nne.	3 h'r	3 h'r	r'gh	w.	light rain.
JOHNSTON LINE.																		
S. S. Thanemore, N. 41° 45′, W. 50° 02′	29.93	760.2				sse.			6		10		s.	mist	mist			
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, S. 32 —′, W. 49° —′*†	30.10	764.5	67	19.4		sse.			3		0			0	0			clear.
S. S. Humboldt, N. 0° 30′, W. 39° 52′*	29.92	760.0	81	27.2	87	nne.			6		2 k			0	0	5	con.	d. clouds.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 31° 48′, W. 72° 42′†	29.69	754.1	72	22.2	95	wnw.			5		5		nw.	4 h'r	4 h'r	mod.	nw.	squally.
MERCHANT STEAMSHIP COMPANY.																		
S. S. Glenapp, S. 4° 48′, W. 34° 31′ *†	29.95	760.7				se.			3		5		se.	1 h'r	1 h'r	sm'h		fine.
NATIONAL LINE.																		
S. S. Canada, N. 41° 49′, W. 56° 01′†	29.84	757.9	58	14.4		s.			2		8		w.	0	0		s.	dense fog.
S. S. Denmark, London, Eng	30.34	770.6	62	16.7		nnw.			5		5		nnw.	0	0			fine.
S. S. England, N. 48° 56′, W. 26° 48′	29.76	755.9				w.			6		2		w.	0	0	r'gh	w.	clear.
S. S. Erin, New York, N. Y.	29.51	749.5	50	10.0		nne.			4		8		ne.	4 h'r	4 h'r			
S. S. Greece, N. 40° 32′, W. 64° 07′	29.63	752.6				s.			3		8		s.	0	0	sm'h	s.	foggy.
S. S. Italy, N. 49° 22′ W. 26° 32′	29.79	756.7	55	12.8		wsw.			6		2		w.	4 h'r	4 h'r	long	w.	fair.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, N. 21° 00′, W. 90° 30′*†	30.02	762.5	79	26.1	86	se.			2		10		calm	0	0			misty.
S. S. City of Puebla, N. 33° 08′, W. 75° 15′†	29.59	751.6	70	21.1		w.			4		8		w.			cross	w.	
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Maas, N. 45° 00′, W. 37° 40′*†	30.08	764.0	56	13.3		w.			1								w.	
S. S. Olbers, N. 50° 53′ W. 0° 44′*†	30.30	769.6	56	13.3		ese.			5								e.	clear.
NORTH GERMAN LLOYD.																		
S. S. Elbe, N. 48° 25′, W. 24° 50′	29.66	753.4	56.3	13.5	78	wsw.			4–5		5?		wsw.	2 h'r	2 h'r	r'gh	wsw.	clear?
S. S. Graf Bismark, Rio de Janeiro, Brazil	30.20	767.1	67.1	19.5		var.			2		4		var.	0	0	r'gh	sse.	fair.
S. S. Hapsburg, N. 49° 50′, W. 8° 17′	30.11	764.8	56.3	13.5		ese.			5–6		0			0	0	r'gh	sw.	hazy.
S. S. Hohenzollern, N. 40° 28′, W. 51° 54′*	29.94	760.5	61.7	16.5		sw.			3		8		sw.	rain	rain	mod.	sw.	fair.
S. S. Kronprinz F. Wilhelm, N. 51° 20′ E. 1° 50′	30.32	770.1	50.9	10.5		nne.			4		4		nne.	0	0	4	nne.	fair.
S. S. Main, N. 40° 59′, W. 51° 37′	29.98	761.5	59.0	15.0		sse.			4		10		se.	rain	rain	mod.	se.	light rain.
S. S. Mosel, N. 51° 48′, W. 19° 28′	29.88	758.9	57	13.9		sse.			6		8		s.	9½h'r	9½h'r	mod.	sse.	cloudy.
S. S. Ohio, Bremerhaven, Germany	30.13	765.3				nnw.			6		9		nnw.	1 h'r	1 h'r			cloudy.
S. S. Rhein, N. 41° 42′, W. 51° 21′	29.88	758.9				sw.			3		10		sw.	0	0	mod.	sw.	foggy.
S. S. Salier, N. 41° 48′, W. 03° 45′	29.61	752.1	51.8	11.0		s.			2		10		ssw.	3 h'r	3 h'r	mod.	se.	rain & fog.
S. S. Strassburg, N. 49° 24′ W. 15° 13′	30.03	762.7	56.0	13.3	?	sse.			3		4		sse	3 h'r	3 h'r	sm'h		cloudy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, Yokohama, Japan†	29.65	753.1	61	16.1	77	calm			0		8		nw.	0	0	sm'h		cloudy.
S. S. Gaelic, N. 36° 39′, E. 178° 57′†	29.96	761.0	59	15.0	70	wnw.			6		3		w.			mod.	nw.	clear.
S. S. Oceanic, N. 37° 07′, E. 144° 00′*	28.86?	733.3?	58	14.4	100	n.			9		10		n.			8	ne.	overcast.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, N. 33° 32′ W. 77° 42′.†	29.67	753.6				w.			4		8?		w.			h'vy	ene.	clear ?
S. S. City of Columbus, New York, N. Y†	29.52	749.8				ne.					10			0	0			cloudy.
S. S. Seminole, N. 38° 36′, W. 74° 35′†	29.52	749.8	48	8.9	85	ne.			5		10		ene.	24 h'r	24 h'r	long	ene.	rainy.
OREGON IMPROVEMENT COMPANY.																		
S. S. Willametta, Seattle, Wash. Ter†	30.11	764.8	45	7.2	84	ese.			1		7		ese.	0.05	1.3			rainy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, Klawack Alaska*†	30.12	765.0	45	7.2	92	n.			1		2?		n.					cloudy.?
S. S. Oregon, Portland Oregon†	30.03	762.7	44	6.7	92	se.			1		10		s.					light rain.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Calf	30.11	764.8	46	7.8	92	w.			1		0							hazy.
S. S. Dakota, Esquimalt, Vancouver Id., B. C†	30.23	767.8	51	10.6	86	var.			2		5		var.			sm'h		clear.
S. S. Orizaba, N. 33° 37′, W. 118° 07′ †	30.04	763.0	56	13.3	75	nw.			6				nw.			long	wnw.	fair.
S. S. State of California, San Francisco, Cal.†	30.05	763.3	45	7.2	84	calm			0		0							clear.
S. S. Victoria, N. 40° 25′, W. 124° 32′†	30.10	764.5	47	8.3	92	se.			4		8			0	0	long	w.	squally.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Australia, N. 33° 49′, W. 133° 29′	30.25	768.3	55	12.8	68	nw.			2		10		nw.	0	0	long	nw.	cloudy.
S. S. City of New York, Sydney, N. S. W†	29.97	761.2	63	17.2	83	sw.			2		1		sw.	0	0			clear.
S. S. City of Rio de Janeiro, N. 25° 00′, W. 112° 25′ *†	30.14	765.5	61	16.1	82	wnw.			4		6		nw.	0	0	mod.	nw.	cloudy.
S. S. City of Sydney, N. 24° 38′, W. 150° 13′†	30.16	766.1	70	21.1	80	ese.			3		5		se.			mod.	e.	drizzling.
S. S. City of Tokio, Hong Kong, China†	29.80	756.9	82	27.8	87	calm			0		8		sw.	5 h'r	5 h'r			cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
PACIFIC MAIL STEAMSHIP COMPANY.—Continued.																		
S. S. Colima, N. 14° 10′, W. 92° 53′†	29.96	761.0	81	27.2	87	calm			0		9		se.	0	0	small	s.	cloudy.
S. S. Colon, Aspinwall, Panama†	29.98	761.5	88	31.1		ssw.			1		0			0	0	sm'h		clear.
S. S. Granada, N. 11° 00′, W. 86° 47′†	29.93	760.2	79	26.1	95	n.			1		5?		nw.	2 h'r	2 h'r	light	sw.	clear.?
S. S. South Carolina, Panama, Panama†	30.01	762.2	82	27.8	79	nw.			1		8		n.	2 h'r	2 h'r	sm'h		cloudy.
S. S. Zelandia, Sydney, N. S. W	29.96	761.0	59	15.0	70	sw.			2		0							clear.
QUEBEC STEAMSHIP CO.																		
S. S. Muriel, N. 32° 43′, W. 70° 24′	29.64	752.8	74	23.3		sw.			5		8			0	0	r'gh	sw.	squally.
S. S. Bermuda, N. 19° 47′, W. 63° 50′†	30.10	764.5	51?	10.6?		se.			3		7		se.	0	0	long	se.	fine
RED STAR LINE.																		
S. S. Belgenland, N. 44° 46′, W. 35° 56′†	30.24	768.1	53	11.7	?	wnw.			5		7		nw.	0	0	hv'y	w.	overcast.
S. S. Nederland, N. 46° 11′, W. 31° 59′†	30.10	764.5	51	10.6		w.			5		8		wnw.	shr's	shr's	r'gh	w.	showery.
S. S. Rhynland, Antwerp, Belgium	30.26	768.6	53	11.7	79	nne.			5		8		nne.	0	0			cloudy.
S. S. Vaderland, N. 40° 30′ W. 70° 42′	29.51	749.5	43	6.1	83	nne.			3		10			6 h'r	6 h'r	sm'h		foggy.
S. S. Waesland, N. 40° 22′, W. 68° 00′	29.58	751.3	56	13.3		n.			2		10		wnw.	0	0	sm'h	n.	foggy.
ROTTERDAM LINE.																		
S. S. Schiedam, N. 50° 27′ W. 0° 39′*	30.25	768.3	55.0	12.8		ese.			6		0					mod		clear.
S. S. W A Scholten, Rotterdam, Holland	30.16	766.1	51	10.6	65	n.			4		8		nne.	0	0			
STATE LINE.																		
S. S. State of Florida, New York, N. Y	29.61	752.1	49	9.4		nne.			2		10		nne.	14 h'r	14 h'r			dull.
S. S. State of Georgia, Off North of Ireland†	30.43	772.9	53	11.7		e.			2		5		s.			sm'h		fine.
S. S. State of Indiana, N. 42° 20′, W. 52° 50′†	29.64	752.8	51	10.6		var.			1		7			0	0	sm'h		hazy.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 49° 43′, W. 32° 31′†	30.04	763.0	49.1	9.5		wnw.			5		5		wnw.	3 h'r	3 h'r	hv'y	wnw.	covered.
WHITE STAR LINE.																		
S. S. Adriatic, N. 40° 40′, W. 59° 58′†	29.87	758.7	63.5	17.5	97	s.			5		2		se.	sh'rs	sh'rs	sl't	e.	d clouds.
S. S. Baltic, N. 51° 10′ W. 12° 43′†	30.09	764.3	55	12.8	93	se.			5		10		se.	0	0			misty.
S S. Celtic, Liverpool, Eng†	30.41	772.4	57	13.9	62	e.			2		5		s.	0	0	sm'h		fair.
S. S. Republic, N. 46° 49′, W. 37° 19′†	30.15	765.8	53	11.7	73	w.			6		7		w.	0	0	r'gh	wnw.	d. clouds.
WILSON LINE.																		
S. S. Romano, N. 46° 25′, W. 23° 27′*†	29.78	756.4	64	17.8		w.					2			0	0	sm'h		clear.
MISCELLANEOUS.																		
Schr. Abbie Clifford, Barbadoes, W. I*†	30.04	763.0	82	27.8		ese.			4		5			0	0			
Schr. Addie Fuller, Newport News, Va†	29.67	753.6	50	10.0	100	nne.			2		10		ne.	0.16	4.1			raining.
Bk. Adelaide, S. 10° 10′, W. 34° 44′*†	30.08	764.0	84	28.9		ne.			3		4		ne.	16 h'r	16 h'r	mod.	cross	clear.
Schr. Ajax, Brazos, Texas†	29.94	760.5				se.			3		4		se.	0	0			hazy.
Bk. Alpha, Off St. Jago Light, Cuba, W. I†	29.94	760.5	82	27.8		calm			0		3			2 h'r	2 h'r	sm'h		fair.
Schr. Annie Lewis, Aransas Pass, Texas†	30.05	763.3	74	23.3		ne.			7		10		ne.	0	0	short	ne.	misty.
Bk. Anna Thormann, N. 31° 11′, W. 39° 27′	30.42	772.6	68.5	20.3	68	ne.			6	4 c		ne.		0	0	r'gh	nne.	fair.
Bk Antioch, S. 41° 52′, E. 119° —′*†	29.60	751.8	56	13.3		w.			7		3?		w.	0	0	rg'h	wsw.	cloudy.?
Antonio Lopez, Havana, Cuba *	29.98	761.5	74	23.3	90	s.			1		0			1 h'r	1 h'r			clear.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.30	769.6	71	21.7		nne.			1		7		ne.	0	0			hazy.
Sch'r Annie M. Smull, S. 6° 04′ E. 105° 54′*†	29.90	759.4	86	30.0										0	0			
Bk. Bergenseren, N. 36° 27′ W 3° 37′†	29.84	757.9				wsw.			1		hz.		w.	0	0	1	e.	fair.
Bk. Celestina, Montevideo, Uraguay*†	29.94	760.5				w.			7		0			0	0			clear.
S. S. Compton, Cardenas, Cuba, W. I.†	29.95	760.7				s.			1		1		calm	2 h'r	2 h'r			clear.
Schr. Edith R. Seward, Port Antonio, Jamaica, W.I*†.	30.19	766.8	83	28.3		ese.			1		2		calm	0	0			clear.
Bk. E. J. Spicer, London, Eng†	30.32	770.1				ese.			5		5		ese.	0	0			
S. Enoch Train, N. 40° 44′, W. 72° 15′*	29.52	749.8				nne.			2		10		ne.	0	0	sm'h		hazy.
S. Exporter, S. 38° 00′, W. 15° 00′*†	30.50	774.7				ese.			4		8		se.	0	0	h'vy	se.	cloudy.
Bk. Freya, Dublin, Ireland			59	15.0		nne.			4		0			0	0			fine.
S. Grecian, S. 16° 06′, —, 105° 28′*†	30.00	762.0	75	23.9		e.			6		2		e.	0	0	mod.	s.	clear.
Bk. Hattie G. McFarland, Boston, Mass*†	29.65	753.1	46	7.8		ne.			7		10		ne.	15 h'r	15 h'r			stormy.
Schr. Henry Denison, N. 26° 44′, W. 76° 00′†	29.88	758.9				sw.			4		3		sw.	0	0	high	sw.	fair.
Bk. Horace Scudder, N. 37° 10′ W. 74° 00′†	29.43	747.5	46	7.8		ne.			1		fog			light	light	short	n.	dense fog.
Bk. Johanne, N 46° 20′, W. 20° 35′*†	29.87	758.7	60	15.6		w.			4		8		wnw.	0	0	long	w.	misty.
Bkt. Josephine, Guanatamo, Cuba, W. I*†	30.11	764.8	80	26.7	78	n.			1		2			½ h'r	½ h'r			hazy.
Bk. Julia H., Havana, Cuba, W. I.	29.98	761.5	72.2	22.3	90	calm			0		0							blue sky.
Bk. Kate Cann, N. 41° 40′, W. 45° 50′*†	30.10	764.5				wsw.			4		10		wsw.	4 h'r	4 h'r	mod.	ne.	overcast.
Bkt. Kryolith, N. 58° 30′, W. 41° 20′*†	29.43	747.5				w.			6		2		w.	0	0	long	n.	clearing.
S. S. Lamperts, N. 23° 33′, E. 36° 50′*	29.80	756.9	81.2	27.3	82	nnw.			6		5 k		s.					misty.
S. S. Laurel, Saint Andrew's Bay, Fla.†	29.98	761.5	63	17.2		nnw.			3		7		nw.	0	0			cloudy.
S. S. Malabar, N. 5° 31′, E. 94° 08′*†	29.80	756.9				var.												
Bg. Medina, N. 32° 10′, W. 77° 00†	29.85	758.2				w.			7		8		w.			r'gh	w.	fine.
S. S. Nebo, N. 19° 32′, W. 64° 15′*†	30.10	764.5				ene.			1		2		ene.	0	0	sm'h		clear.
S. Paramita, S. 9° 00′ W 33° 45′†	29.85	758.2	89	31.7		calm			0		1		var.	2 h'r	2 h'r	sharp	var.	clear.
Bk. Peppina, Bordeaux, France†	29.93	760.2	72	22.2	67	nw.			2		5?		nw.					cloudy?
S. S. Ponca, N. 31° 30′, W. 71° 50′†	29.74	755.4	82	27.8		sw.			4		10		nw·sw.	rain	rain	hv'y	ssw.	cloudy.
Bg. Potomac, N. 35° 05′, W. 73° 47′*†	29.50	749.3				wsw.			7				nw.			h'vy	sw.	squally.
Bk. Princessen, N. 38° 14′, W. 62° 08′†	29.74	755.3	70	21.1		ssw.			6		8			4 h'r	4 h'r	sm'h	ssw.	rainy.
Bk. Rosebud, N. 34° 59′ W. 17° 00′*†	30.10	764.5	63	17.2	83	nw.			4		5		w.	0	0	sm'h		fine.
S. Salisbury, S. 39° 00′, W. 2° 05′*	30.28	769.0	52.5	11.4	83	se.			9		10		se.	0	0	hv'y	se.	cloudy.
Bk. Stella, S. 7° 43′. W. 103° 50′*	29.96	761.0	80.6	27.0	92	ene.			3		6 k		se.	0	0	sm'h	se.	d clouds.
Bk. Truro, N. 44° 55′, W. 31° 50′*†	30.00	762.0				wnw.			5		4		nnw.	2 h'r	2 h'r	long	nw.	showery.
U. S. F. C. S. Fish Hawk, Washington, D. C†	29.81	757.2	54	12.2	86	nne.			1		10		calm	0.27	6.9			drizzling.
Yacht Vega, N. 13° 04, W. 59° 36′*†	30.26	767.1	80	26.7		ene.			3				ene.	0	0	light	ese	
S. S. Victoria J Peed, Salamanca Id., U. S. C*†	29.12	739.6				s.			1		2							
Schr. Viola Reppard, Bridgeport, Conn. †	29.59	751.6	56	13.3		nne.			5		5		ne.	17 h'r	17 h'r			raining.
S. Washington, N. 53° 28′, E. 4° 00′*†	30.17	766.3				nnw.			5		2		n.	0	0	chop	nne.	fine.
Bg. Wauburn, N. 36° 01′, W. 73° 32′*†	29.70	754.4				sw.			4		5		sw.	hv'y	hv'y	cross	var.	foggy.
Bk. Wm. Wilcox, N. 34° 50′, W. 50° 00′*†	30.31	769.9	67	19.4		sse.			3		0			0	0	mod.	n.	clear.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 15, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.84	758.0	74.5	23.6	74	nw.			3		0			0	0	clear	Moiroud.
Algiers			29.77	756.2	71.2	21.8	74	nw.			1		0			0	0	clear	Nicolas.
La Calle			29.81	757.1	67.6	19.8		nw.			1		8			inap.	inap.	very cloudy	Fonfréde.
Tunis			29.71	754.6															Jacques.
Saida			29.90	759.4															Dumas.
Tebessa			29.87	758.7	60.4	15.8	91	se.			1		5			0.079	2.0	cloudy	Derché.
Geriville					67.3	19.6	52	nnw.			4		3			0.386	9.8	cloudy	Lonchamp.
Laghouat			29.88	759.0	82.4	28.0	66	w.			2		1			0	0	very fair	Abraham.
Biskra			29.88	759.0	92.1	33.4	67	w.			1		10			inap.	inap.	covered	Malau.
Australian.																			
Melbourne, Victoria	29.95	760.7	30.04	763.0	49.7	9.8	74	wnw.	5	2.2			1			0.12	3.0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.39	746.4	29.93	760.3	55.8	13.2	53	se.			2		10			0.051	1.3		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.08	738.5	29.85	758.3	44.2	6.8	82	wsw.	11.2	5.0			8			0.091	2.3		Dr. Wierzbiski.
Eperies	28.93	734.8	29.81	757.2	50.4	10.2	68	s.			2		10 ks		n.	0	0		Julius Mikolik.
Gratz	28.64	727.4	29.89	759.1	52.5	11.4	66	sw.			3		7			0.008	0.2		Andreas Rospini.
Hermannstadt	28.44	722.4	29.87	758.8	51.4	10.8	55	wnw.			3		10			0.228	5.8	raining	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.56	725.3	29.92	760.0	42.8	6.0	80	calm			0		9			0.217	5.5	raining	The Staff.
Lemberg	28.77	730.7	29.74	755.5	54.5	12.5	48	nw.			3		6			0	0		Dr. T. Stanecki.
Pola	29.66	753.4	29.77	756.2	55.4	13.0	53	e.			6		10			0.346	8.8		I. R. Hydrographic Office.
Szathmar	29.35	745.4	29.80	756.9	57.6	14.2	39	sw.			4		5			0.016	0.4		Joseph Midlinszky, S. J.
Szegedin	29.58	751.3	29.85	758.3	56.8	13.8	76	w.			2		8			0	0		Karl Stancel.
Trieste	29.75	755.7	29.85	758.3	56.5	13.6	49	ne.			4		10			0	0		Rieder.
Vienna	29.19	741.4	29.91	759.7	50.2	10.1	55	wnw.			3		8			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.34	770.6	30.44	773.2	44.8	7.1	58	ene.	21	9.4			5			0	0	squally	W. Boswell
Armagh, Observatory	30.15	765.8	30.39	771.9	53.1	11.7	58	ese.	8	3.6			2					d. clouds	S. Call.
Bidston, Liverpool Obs'y			30.34	770.6	51.0	10.6	72	ne.	16	7.2			7					misty	John Hartnup.
Bolton, Sharples	29.79	756.7	30.34	770.6	47.2	8.4	54	ene.	12	5.4			10					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.94	760.5	30.33	770.4	47.7	8.7	64	ne.			2		8			0	0	d. clouds	[A.S. J. McLandsborough, F. R
Bridgetown, Barbadoes	30.01	762.2	30.04	763.0	84.0	28.9	64	ne.			2		6					gloomy	Corpl. J. Surgenor, A. H. C.
Cardington			30.26	768.6	51.0	10.6	64	n.			2.0		8					overcast	John McLaren.
Chatham, School M. E.	30.11	764.8	30.24	768.1	53.9	12.2	58	ne.			2		6					d. clouds	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	30.03	762.7	30.26	768.6	50.5	10.3	56	e.			4		5					squally	The Staff.
Fort Napier, Natal	27.53	699.2	29.74	755.4	74.5	23.6	45	e.			1		0					blue sky	Pvt. E. K. Annis, A. H. C.
Free Town, Sierra Leone	29.68	753.9	29.91	759.7	85.0	29.4	71	w.			1		0					blue sky	Sergt. John Robinson.
Gibraltar, Mediterranean	29.83	757.7	29.89	759.2	72.9	22.7	73	w.			3		5					d. clouds	Cpl. O. Baldwin.
Glasgow, Observatory	30.20	767.1	30.41	772.4	51.0	10.6	45	e.			4		3					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.07	763.8	30.24	768.1	53.8	12.1	63	ne.			2		6					d. clouds	The Staff.
Guernsey	29.89	759.2	30.19	766.8	53.0	11.7	60	ene.			2		1					blue sky	A. Collenette, F. M. S.
Kew, Observatory	30.22	767.6	30.25	768.3	49.6	9.8	61	nne.	19	8.5			7					hazy	The Staff.
Leicester, Museum	30.04	763.0	30.30	769.6	48.0	8.9	60	ne.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	29.67	753.6	29.75	755.6	68.4	20.2	78	se.			3		8					overcast	I. H. Whysall.
Nassau, Bahamas	29.96	761.0	30.01	762.2	80.0	26.7	74	nw.			1		8					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.79	756.7	30.33	770.4	48.3	9.1	60	nne.			2		8					d. clouds	John Mac Email.
Oxford, Radcliffe Obs'y	30.04	763.0	30.27	768.8	51.3	10.7	53	ne.			4		7					squally	The Staff.
Plymouth	30.17	766.3	30.25	768.3	52.8	11.6	53	ene.			4		5					d. clouds	John Merrifield.
Sandwick Manse, Orkneys			30.48	774.2	47.2	8.4	58	ene.	12	5.4			10					overcast	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.77	756.1	29.83	757.7	72.2	22.3	39	w.			1		6					d. clouds	W. H. Lyne.
Sheffield	30.06	763.5	30.34	770.6	48.6	9.2	67	ne.			2		9			0	0	overcast	W. F. Cooper.
Silloth Rectory	30.35	770.9	30.38	771.6	50.4	10.2	55	e.			4		6			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.36	771.1	48.2	9.0	56	ne.	10	4.5			10					overcast	J. New.
Stratfield Turgiss	30.04	763.0	30.26	768.6	51.8	11.0	54	ne.			2-4		7					squally	Rev. C. H. Griffiths, F. M. S
Truro, Royal Institution	30.23	767.8	30.25	768.3	60	15.6	44	e.			4		4					d. clouds	W. Newcombe.
Valencia, Observatory	30.22	767.6	30.25	768.3	56.8	13.8	68	sse.	26	11.6			9					misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.75	755.6	29.78	756.4	34	1.1	95	n.	18	8.0			10 n		n.	0.455	11.6	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.85	758.2	29.92	760.0	36	2.2	58	nw.	16	7.2			10 ks		nw.	0	0	cloudy	G. A. Blair.
Father Point, Quebec*	29.97	761.2	29.99	761.7	31	— 0.6	96	ne.	35	15.6		5 c	5 k	calm	calm	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.33	745.0	30.17	766.3	45	7.2	68	e.	7	3.1		0	0			0	0	clear	James Stewart.
Halifax, N. S*	29.56	751.3	29.71	754.6	41	5.0	92	n.	13	5.8			10 k		ne.	0.93	23.6	cloudy	A. Allison.
Kingston, Ontario*	29.51	749.5	29.85	758.2	42	5.6	54	n.	15	6.7		2 c	0	w.		0	0	fair	A. P. Knight, M. A.
Montreal, Quebec*	29.63	752.6	29.84	757.9	42	5.6	43	ne.	28	12.5		2 c	0	n.		0	0	fair	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.30	744.2	30.01	762.2	37	2.8	53	n.	18	8.0		0	0			0	0	clear	Rev. R. Mosley.
Port Dover, Ontario	29.20	741.7	29.90	759.4	42	5.6	66	ne.	19	8.5		0	0			0	0	clear	H. Morgan.
Port Stanley, Ontario	29.24	742.7	29.90	759.4	41	5.0	57	n.	12	5.4		0	0			inap.	inap.	clear	M. Payne.
Quebec, Quebec*	29.58	751.3	29.91	759.7	37	2.8	61	e.			7	0	5 s		e.	0	0	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.55	750.6	30.01	762.2	38	3.3	44	nw.	5	2.2		0	0			0	0	clear	W. H. McIntyre.
Saugeen, Ontario*	29.27	743.4	30.00	762.0	38	3.3	61	ne.	17	7.6		0	0			0	0	clear	
St. Andrews, N. B.	29.66	753.4	29.71	754.6	36	2.2	83	ne.	13	5.8			10 n			0.37	9.4	cloudy	
Sydney, C. B*	29.62	752.3	29.69	754.1	37	2.8	96	n.	8	3.6			10 n			0.80	20.3	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.55	750.6	29.94	760.5	41	5.0	43	ne.	20	8.9		0	2 s			0	0	clear	Magnetic Observatory.
Yarmouth, N. S*	29.50	749.3	29.61	752.1	44	6.7	93	ne.	7	3.1			10 s		ne.	0.34	8.6	cloudy	Lt. F. E. Wilmot, R. N
Sub-series.																			
St. Johns, Newfoundland	29.80	756.9	30.05	763.3	51	10.6	100	s.	1	0.4			10			0.20	5.1	raining	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	29.75	755.6	29.78	756.4	65.0	18.3	83	w.	12.6	5.6		0	8 k			0.280	7.1		John Duthie.
Cape Town, C. G. H. Obs'y	29.81	757.2	29.85	758.2	57.5	14.2	87	nnw.	19	8.5		10	10			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Chinese (*Sub-series*).																			
Hankow	29.57	751.1	29.84	757.9	69.7	20.9	92	nnw.			2		0			2.96	75.2		N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.77	756.2	29.80	756.8	60.8	16.0	92	ese.	32.9	14.7			10 n			2.126	54.0	raining	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.99	761.8	30.04	763.0	46.6	8.1	57	nne.	20	9			10						Oversergent Fischer.
Fanöe	30.15	765.8	30.17	766.3	49.1	9.5	67	n.			4		8						Overloerer Lauridsen.
Godthaab, Greenland	29.60	751.8	29.61	752.1	26.6	— 3.0	80	nw.			2		10			0	0		S. Kleinschmidt.
Stykkisholm, Iceland	30.03	762.8	30.08	763.9	45.0	7.2	98	calm			0		5						A. O. Thorlacius.
Thorshavn	30.51	774.9	30.54	775.8	48.6	9.2	72	se.	16	7			0						Overloerer Bergh.
Vestervig	30.11	764.9	30.21	767.2	50.0	10.0	47	nne.			4		1						Loearer Oesterbol.
French.																			
Agen, Normal School	29.26	743.2	29.91	759.6	60.4	15.8	67	nne.			1		0			0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.61	752.0	30.16	766.0	50.0	10	79	n.			2		kn		n.	0	0		M. Nicot, Director.
Arras, Engineer School	29.82	757.3	30.08	763.9	54.5	12.5	59				4	ck	0	sw.		0	0		M. Fénéon, Command't.
Avignon, Normal School	29.67	753.5	29.74	755.5	64.4	18	36	n.			4		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.48	748.7	30.03	762.8	55.2	12.9	47	e.			4		8		e.	0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.88	759.0	30.15	765.8	52.9	11.6	46	ne.			3		8		ne.	0	0	very cloudy	M. Frère Eugène Marl.
Besançon, Normal School	29.00	736.7	29.88	759.0	56.8	13.8	48	ne.			1	0	2 cn		ne.	0	0	slightly cl'dy	M. Gobin, Director.
Bordeaux, Observatory	29.64	752.8	29.90	759.4	61.7	16.5	34	nne.			2		0			0	0	clear	M. Rayet, Director.
Bourges, Normal School	29.47	748.4	30.01	762.3	58.6	14.8	30	n.			2		k		n.	0	0		M. Postel, Director.
Brest, Naval Observatory	29.91	759.7	30.15	765.8	54.0	12.2	56	ne.			3		7		ne.	0	0		M. de Kermaree, Dir.
Caen, Normal School	30.09	764.3	30.13	765.2	54.7	12.6	59	e.			3		8		nne.	0	0	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.69	754.0	30.00	762.1	55.9	13.3	93	nne.			3		8		e.	0	0	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.58	751.3	30.09	764.3	55.4	13	75	e.			1		5			0	0	½ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.57	725.7	29.92	760.0	55.4	13.0	47	nw.			2		5			0	0	½ covered	M. Allnard, Director.
Cluny, Normal School	29.02	737.2	29.87	758.6	54.0	12.2	38	nw.			4		4		se.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.17	740.8	30.03	762.8	51.3	10.7	56	nne.			3		5 kn	nne.	nne.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.17	690.2	29.62	752.4	65.5	18.6	35						k			0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.58	725.9	29.67	753 5	68.0	20.0	50	sw.			2		4		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.03	737.3	29.78	756.4	59.4	15.2	48	nw.			4		kn			0	0		M. Ablard, Director.
Guéret, Normal School	28.39	721.1	29.98	761.4	51.6	10.9	44	ne.			3	c	0	e.		0	0		M. Rivoire, Director.
Lamballe, Normal School	29.87	758.6	30.14	765.6	54.0	12.2	54	n.			2		8		n.	0	0	very cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.29	744.0	29.84	758.0	69.8	21	49	w.			1		2			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	30.03	762.8	30.13	765.4	59.9	15.5	44	ne.			3		2		ne.	0	0	¼ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.84	732.5	29.89	759.2	54.0	12.2	31	n.			2	0	2 n		n.	0	0	clear	M. André, Director.
Mans, Normal School	29.81	757.2	30.12	765.1	52.5	11.4	53	ene.			6		5		e.	0	0	cloudy	M. Piboen, Director.
Marseille, Observatory	29.45	747.9	29.71	754.6	68.0	20.0	48	wnw.			2		2		ene.	0	0		M. Stephan, Director.
Montlouis l'instituteur	24.69	627.0	29.53	750.0	58.1	14.5	52	w.	7.4	3.3			2		sw.	0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.60	751.8	29 72	755.0	72.0	22.2	35	ene.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.24	742.8	30.02	762.6	53.2	11.8	54	n.			2		kn	nw.	nw.	0	0		M. Hasse, Director.
Nantes. Observatory	29.95	760.6	30.11	764.7	58.5	14.7	41	ene.			2-3	0	3 k		ene.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.63	752.6	29.74	755.3	72.7	22.6	45	n.	28.0	12.5			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.12	536.5			40.3	4.6		ne.			1		1		ne.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	28.75	730.3	29.80	756.8	61.9	16.6	31	n.			3		0			0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.00	635.1			33.4	0.8	82	ne.			4	0	2 k			0	0	¼ covered	M. Allnard, Director.
Rochefort, Naval Obs'y	29.97	761.2	30.00	762.0	62.4	16.9	100	ne.			3		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.82	757.3	30.03	762.7	58.6	14.8	44	ne.			3		2		e.	0	0	slightly cl'dy	M. Mouillot, Director.
Rodez, Normal School	27.70	703.6	29.80	757.0	62.2	16.8	26	e.			1		0			0	0	clear	M. Serger, Director.
Rouen, Normal School	30.10	764.4	30.14	765.6	54.7	12.6	46	ne.			2		2		e.	0	0	slightly cl'dy	M. Brotier.
Saint Maur, Observatory	29.94	760.5	30.11	764.7	52.9	11.6	45	nne.			1		9		ne.	0	0		M. Renou, Director.
Toulouse, Observatory	29.16	740.7	29.88	759.0	66.9	19.4	38	nw.			2		1	w.		0	0	clear	M. Baillaud, Director.
Tours	29.91	759.8	30.09	764.3	59.4	15 2	38	ne.			6	5 ck		ne.	ne.	0	0	cloudy	
Versailles, Observatory	29.61	752.1	30.10	764.6	52.2	11.2	37	ne.			4					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.83	757.6	30.12	765 0	52.9	11.6	41	ne.			2		8		ne.	0	0		M. Marié Davy, Director
German.																			
Bamberg	29.15	740.3	30.00	762.0	51.8	11.0	44	ne.			3	0	4 k		n.	0	0		Prof. Dr. Hoh.
Berlin	29.80	756.8	29.97	761.3	50.7	10.4	44	n.			4		8			0.016	0.4		Prof. Dr. Arndt.
Breslau	29.39	746.4	29.91	759.8	47.1	8.4	57	nnw.			4		8			0.094	2.4		Royal University Obs'y.
Carlsruhe	29.59	751.6	30.03	762.8	52.2	11.2	54	ne.			1		10	ne.		0.083	2.1		Albert Senz.
Cassel	29.32	744.7	30.03	762.8	47.1	8.4	56	nw.			3		8	n.		0.161	4.1		Dr. H. Möhl.
Frankfort-on-the-Main	29.68	753.8	30.04	763.1	53.4	11.9	39	n.			2		8			0	0		Physical Society.
Friedrichshafen	28.50	723.9	29.94	760.5	51.8	11.0	45	ne.			6		5	ene.		0	0		Wilhelm, Chief Tel.
Hamburg	29.99	761.8	30.09	764 2	47.8	8.8	55	nnw.			3		10			0.008	0.2		E. Preller.
Kiel	30.07	763.7	30.08	764.1	49.1	9.5	49	ne.			4		7			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.60	751.7	30.02	762.6	43.2	6.2	76	n.			2		10					light rain	H. Leppig, Asst.
Magdeburg	29.83	757.6	30.02	762.5	46.9	8.3	55	nnw.			3		10 ks		nnw.	0.012	0.3		Dr. Assmann.
Memel	29.76	756.0	29.81	757.2	43.7	6.5	93	ne.			4		9 n					raining	Issermann.
Munich	28.11	714.0	29.97	761.2	50.2	10.1	43	ne.			2		4	e.		0.004	0.1		Central Station.
Neufahrwasser	29.84	757.9	29.85	758.3	44.1	6.7	87	n.			4		9			0.150	3.8		A. Lothes.
Neustadt, Palatinate	29.51	749.6	30.04	763.0	51.6	10.9	56	n.			4		8	n.		0	0		Dicknether.
Stuttgart	29.05	737.9	29.95	760.7	52.7	11.5	43	n.					7	n.		0	0		Prof. Dr. Schoder.
Wustrow	30.04	763.0	30.06	763.6	49.5	9.7	57	n.			3	0	5 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.49	749.1			72.5	22.5		s.			2.0		9			0	0	misty	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.74	755.3	29.78	756.5	85.9	29.9	80	sw.	32.0	14.3			5		wsw.	0	0	misty	
Deesa	29.20	741.6	29.65	753.1	101.8	38.8	21	wsw.	14.8	6.6			0			0	0	blue sky	
Bombay	29.76	756.0	29.80	757.0	86.2	30.1	68	wnw.	19.0	8.5			0			0	0	blue sky	
Poona, Yarrowda	27.90	708.7	29.70	754.4	93.3	34.1	36	wnw.	29.0	13.0			4	ne.	ne.	0	0	d. clouds	
Bellary	28.23	717.0	29.66	753.4	89.5	31.9	42	sw.	7.9	3.5			9			0.C4	1.0	gloomy	
Belgaum	27.23	691.7	29.72	754.9	84.0	29.2	55	sw.	13.0	5.8			6	se.	ne.	0.02	0.5	thund'r st'm	
Lahore	29.02	737.1	29.75	755.5	92.7	33.7	25	n.	3.7	1.6			5			0	0	blue sky	
Roorkee	28.88	733.4	29.76	756.0	84.8	29.3	38	ne.	2.1	0.9			3			0	0		
Agra	29.12	739.6	29.67	753.6	91.2	32.9	39	e.	5.6	2.5			0			0.76	19.3		
Nagpur	28.62	727.0	29.62	752.3	102.9	39.4	18	calm	4.2	1.9			3		w.	0	0	d. clouds	
Jubbulpore	28.37	720.6	29.68	753.8	98.7	37.1	20	calm	2.5	1.1			1			0	0	blue sky	
Lucknow	29.35	745.6	29.72	754.9	93.0	33.9	30	calm	1.0	0.4			0			0.07	1.8	blue sky	
Allahabad	29.40	746.6	29.70	754.2	98.2	36.8	28	ne.	3.0	1.3			1			0	0	d. clouds	
Patna	29.56	750.9	29.74	755.5	91.0	32.8	39	ne.	4.2	1.9			2	ne.	ne.	0	0		
Hazaribagh	27.73	704.3	29.70	754.3	86.0	30.0	45	se.	6.8	3.0			4			0	0		
Cuttack	29.68	753.8	29.76	755.8	88.9	31.6	63	sse.	0.5	0.2			8			0	0	d. clouds	
Calcutta, Alipore	29.71	754.7	29.73	755.2	89.2	31.8	56	ene	2.0	0.9			0			0	0	blue sky	
Dhubri	29.65	753.0	29.76	756.0	85.8	29.9	63	calm	2.3	1.0			0			0	0	blue sky	
Chittagong	29.71	754.6	29.80	756.9	82.2	27.9	78	sw.	3.3	1.5			3			0	0	blue sky	
Sibsagar	29.46	748.4	29.80	756.9	83.0	28.3	75	calm	1.3	0.6			0			0.02	0.5	blue sky	
Jeypore	28.29	718.4	29.69	754.0	94.4	34.7	34	ne.	7.2	3.2			5		ne.	0.25	6.4	d. clouds	
Zanzibar, Africa	29.92	760.0			82.1	27.8	77	sw.	6.1	2.7			5		se.	0.03	0.8	d. clouds	
Italian.																			
Udine	29.44	747.8	29.85	758.1	58.3	14.6	56	s.	4.9	2.2			10			0.098	2.5		Prof. Giovanni Cloding.
Milan	29.33	744.9	29.84	757.0	55.4	13.0	45	e.	15.0	6.7			10	sse.		0	0		Prof. Schiaparelli.
Padua	29.74	755.3	29.85	758.1	55.8	13.2	45	nne.	9.8	4.4			10			0.114	2.9		Prof. Dott. Lorenzoni.
Moncalieri	28.92	734.5	29.82	757.3	52.0	11.1	81	n.	4.9	2.2			10			0.047	1.2		Prof. P. F. Denza.
Genoa	29.54	750.2	29.73	755.1	58.5	14.7	64	n.	1.8	0.8			10	s.		0	c		Prof. G. M. Garibaldi.
Mondovi	27.88	708.2	29.81	757.2	46.6	8.1	94	nw.			6		10			0.087	2.2		Prof. D. O. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
ITALIAN.—Continued.																			
Pesaro	29.74	755.5	29.79	756.7	55.2	12.9	77	e.	9.8	4.4			10			0.122	3.1		Prof. Luigi Guidi.
Florence	29.48	748.8	29.73	755.2	55.0	12.8	71	ne.			6		10			0.114	2.9		Prof. Costantino Pitter.
Leghorn	29.54	750.4	29.63	732.6	61.3	16.3	53	ene.	5.6	2.5			10			0	0		Prof. P. Monte.
Rome	29.52	749.7	29.69	754.1	68.7	20.4	63	sse.	19.9	8.9			10	s.		0.008	0.2		Prof. P. S. Ferrari.
Lecce	29.52	749.7	29.76	756.0	67.6	19.8	60	se.	21.7	9.7			10	se.		0	0		Prof. C. de Giorgi.
Cosenza	28.84	732.6	29.72	754.8	74.5	23.6	78	ese.	4.9	2.2			7	se.		0.008	0.2		Prof. D. Conti.
Cagliari	29.43	747.5	29.62	752.3	73.6	23.1	59	s.			4		4	w.		0	0		Prof. A. Pacinotti.
Palermo	28.29	718.5	29.72	754.8	70.2	21.2	56	ne.	2.5	1.1			9			0	0		Prof. G. Ciacciatore.
Syracuse	29.57	751.1	29.73	755.2	69.1	20.6	75	ssw.	15.0	6.7			10	ssw.		0	0		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.23	742.4	29.74	755.5	61.0	16.1	76	e.	2.5	1.1			10	nw.		0.138	3.5		Prof. T. Brioschi.
Stelvio	21.90	556.3			33.6	0.9	51	ne.			4		6			0	0	misty	Prof. P. F. Denza.
Valdobbia	21.94	557.2			29.8	— 1.2	85	e.			6		10			0.118	3.0	covered	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.94	760.5	29.97	761.2	54.3	12.4	73	sw.	11.8	5.3		0	5 ks			0	0	fair	K. Ogawa.
Hakodate	29.95	760.7	29.96	761.0	57.0	13.9	53	n.	10.6	4.7			4			0	0	fair	
Hiroshima, I. M. Obs'y	30.02	762.5	30.04	763.0	62.6	17.0	69	ne.	6.1	2.7		0	0			0	0	clear	J. Sogawa.
Kanazawa	30.04	763.0	30.14	765.5	55.0	12.8	92	nw.	0.6	0.3		ck	10 ks			inap.	inap.	overcast	S. Endo.
Kioto	29.90	759.4	30.08	764.0	52.6	11.4	87	nw.	1.0	0.4		0	0			0	0	clear	M. Tojima.
Kochi	30.04	763.0	30.06	763.5	63.9	17.7	79	n.	2.9	1.3		0	0			0	0	clear	K. Kusunose.
Nagasaki, I. M. Obs'y	29.83	757.7	30.03	762.7	61.3	16.3	76	s.	2.2	1.0		0	0			0	0	clear	S. Takehayashi.
Niigata	30.06	763.5	30.09	764.3	53.9	12.2	88	sw.	4.1	1.8		1 ck	0			0	0	fair	M. Morita.
Nobiru	29.95	760.7	29.97	761.2	50.7	10.4	89	wsw.	6.6	2.9		0	0			0	0	clear	H. Midzushina.
Supporo					50.8	10.4	75	n.	11.4	5.1			1			0	0	clear	
Tokei Obs'y, Yeddo	29.93	760.2	30.00	762.0	58.9	14.9	65	wnw.	7.3	3.3		0	0			0	0	clear	The Staff.
Wakayama	30.02	762.5	30.07	763.8	57.9	14.4	73	ne.	7.1	3.2		0	0			0	0	clear	Y. Kuwamura.
MAURITIUS.																			
Mauritius Observatory	29.86	758.4	30.05	763.3	78.4	25.8	67	ese.	10.5	4.7		0	2 k			0	0	clear	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.70	602.1	29.94	760.1	66.2	19.0	72	calm	0	0		1 c	0	nw.		0	0	foggy	Prof. Vicente Fernandez.
Leon	24.29	617.0	29.92	760.0	60.8	16.0	65	nnw.			1	1 c	0			0	0	dense fog	Prof. M. Leal.
Mazatlan	29.67	753.5	29.92	760.0	71.0	21.7	87	ene.	0.9	0.4		8 ck	1 k	sw.	n.			foggy	F. Quijano, C. E.
Mexico, Central Obs'y	23.13	587.4	30.13	765.3	57.6	14.2	68	calm	0	0		7 c	2 k			0	0	cloudy	The Staff.
Morelia	24.18	614.2	30.23	767.9	61.2	16.2	70	n.			2	0	0			0	0	clear	M. Tena, M. D.
Pabellon, Aguascalientes	23.96	608.5	29.87	758.6	66.4	19.1	60	w.			1	0	0			0	0	foggy	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.36	593.4	30.06	763.5	56.6	13.6	87	nw.	0.2	0.1		1	0			0.055	1.4	clear	Prof. P. Spina.
San Luis Potosi	24.17	614.0	30.17	766.4	62.6	17.0	65	se.			1	1	0	w.		0.091	2.3	cloudy	G. Barroeta, M. D.
Zacatecas	22.55	572.8	30.09	764.2	59.0	15.0	52	wnw.	5.2	2.3		2 c	0	w.		0	0	clear	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.20	767.0	30.20	767.0	52.2	11.2		nne.			4					0.028	0.7		
Groningen	30.14	765.5	30.19	766.7	49.5	9.7		nne.			4					0.106	2.7		
Helder	30.21	767.3	30.21	767.3	50.0	10.0		ne.			4					0	0		
Hellevoetsluis	30.19	766.7	30.19	766.7	52.9	11.6	59	ene.			1					0	0		
Utrecht	30.13	765.4	30.18	766.6	53.4	11.9	46	nne.			4		5			0.154	3.9	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	30.22	767.5	30.28	769.1	38.8	3.8	39	n.	11	5			0			0	0		
Brono	30.31	769.8	30.35	770.8	40.1	4.5	66	n.	27	12			8			0	0		
Christiania	30.06	763.6	30.21	767.4	49.1	9.5	40	nne.	13	6			8			0	0		
Gjesvær	30.18	766.6	30.21	767.2	30.6	— 0.8		n.			6		10						
Lodingen	30.28	769.2	30.33	770.4	34.7	1.5	57	nnw.			2		9			0.039	1.0		
PORTUGUESE.																			
Angra, Azores					59.7	15.4	62	nne.	11.2	5.0			4			0	0		Dr. J. A. Sampalo.
Campo Major	28.83	732.3	29.80	757.0	69.8	21.0	75	wsw.	4.3	1.9			9			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	29.95	760.6	30.03	762.8	67.3	19.6	75	sw.					9	nw.		0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.54	750.4	29.89	759.3	65.8	18.8	63	nnw.	10.5	4.7			7			0	0		The Staff.
Ponta Delgada, Azores	30.22	767.6	30.29	769.4	62.2	16.8	56	nne.	19.2	8.6			4			0.071	1.8		
Saint Paul de Loando	29.74	755.5	29.95	760.6	78.1	25.6	92	wsw.	1.3	0.6			10			0	0	foggy	
Serra da Estrella	25.13	638.3	29.75	755.6	56.3	13.5	59	se.	12.5	5.6			10			0	0		
RUSSIAN.																			
Akmolinski	28.92	734.5	29.95	760.8	72.3	22.4	20	e.	7	3		9 ck	0			0	0		Major K. Lasarew.
Archangel	29.81	757.1	29.83	757.6	55.9	13.3	48	nne.	13	6		0	8 ks			0.335	8.5		Capt. Sselliwerstow.
Astrakhan	29.78	756.4	29.70	754.3	71.4	21.9	64	wsw.	10	7			10 s;n			blank	blank		Capt. Wisganow.
Barnaul	29.61	752.2	30.10	764.5	65.3	18.5	28	calm	0	0			3			0	0	light clouds	Meteorological Obs'y.
Dorpat	29.48	748.9	29.73	755.2	41.5	5.3	86	nne.	11	5			10 n					light rain	Observatory.
Ekaterinburg	29.04	737.5	29.95	760.7	78.4	25.8	39	ssw.	2	1		0	8			0	0		Meteorological Obs'y.
Kasan	29.46	748.3	29.72	754.8	70.2	21.2	68	sw.	2	1			10			0.185	4.7		Observatory.
Kertch	29.87	758.6	29.89	759.1	59.9	15.5	83	s.	9	4		0	0			0	0		Lagorio & Sastyrex.
Kieff	29.14	740.2	29.77	756.1	57.6	14.2	32	sw.	9	4		6 k	5 ks			0	0		Observatory.
Lugan	29.61	752.2	29.82	757.3	68.5	20.3	46	wsw.	9	4			10			0	0		Meteorological Obs'y
Moscow	29.10	739.2	29.57	751.0	55.0	12.8	49	ssw.	13	6			7 ks						Meteorological Obs'y.
Nikolaiev	29.82	757.4	29.89	759.2	64.4	18.0	51	s.	18	8		3 cs	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.98	761.5	30.07	763.7	43.0	6.1	86	e.	9	4			1			0	0		Lieut. Iwanow.
Pekin, China	29.71	754.5	29.85	758.1	72.9	22.7	77	calm	0	0		0	8 n			0.059	1.5	thnd'rstorm	Physical Observatory
St. Petersburg	29.65	753.2	29.67	753.6	41.5	5.3	87	ne.	13	6			10 n			0.091	2.3	light rain	Central Physical Obs'y.
Semipalatinsk	29.41	747.0	30.04	763.1	71.4	21.9	17	ne.	9	4			10 s			0	0	light clouds	Major Lasareu.
Tashkend, Laboratory	28.33	719.0	29.81	757.2	82.0	27.8	41	nne.	9	4			6			0.004	0.1		Teich, A. M.
Tiflis	28.51	724.2	29.90	759.4	65.5	18.6	51	nw.	22	10		6 c	0			0.429	10.9		Physical Observatory
Vladivostock	29.96	761.0	30.03	762.7	50.0	10.0	64	e.	4	2		0	1 s			0	0		
Warsaw	29.31	744.5	29.74	755.3	47.5	8.6	74	nw.	11	5			10 ks						Astronomical Obs'y.
Wilna	29.28	743.7	29.70	754.3	52.9	11.6	54	n.	4	2			6			0.035	0.9		Berg, Assistant.
Yeniseisk	29.75	755.6	30.04	762.9	46.0	7.8	65	nw.	11	5			6			0	0		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.67	753.7	29.78	756.3	69.8	21.	54	s.	2.7	1.2			0			inap.	inap.	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.71	754.5	29.76	756.0	65.8	18.8	64	nw.	2.5	1.1		3	4	nw.		0.043	1.0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.94	684.3	29.85	758.1	61.5	16.5	64	ne.	6.9	3.1			6			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.58	700.6	29.71	754.5	78.4	25.8	39	se.	4.9	2.2		0	8			0.020	0.5	very cloudy	The Staff.
Murcia, Met. Obs'y	29.60	751.7	29.72	754.8	84.6	29.2	41	e.	5.4	2.4		2	5	nnw.		0	0	cloudy	Olayo Diaz, Director.
Santiago, Met. Obs'y	28.95	735.4	29.84	757.9	61.3	16.3	73	nne.	5.6	2.5			8			0	0	almost cov.	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	29.89	759.2	29.95	760.8	76.0	24.4	80	sse.	0	0		6 c;cs	2 k	w.	sw.	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.86	758.4	29.92	759.9	85.1	29.5	76	nw.	0	0		0	k			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.83	757.7	29.93	760.2	65.8	18.8	72	w.	4.7	2.1			10		w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.96	760.9	30.05	763.2	78.8	26.0	80	calm	0	0		5 cs	4 k	e.	e.	0.165	4.2		Manuel Maese.
Tuguegarao, Philippine Id's	29.81	757.2	29.94	760.5	79.7	26.5	83	nnw.	0	0		0	4 k		ne.	0.92	23.4	½ cloudy	José L. Yrastorza.
SWEDISH																			
Haparanda	30.06	763.6	30.10	764.6	45.7	7.6	59	n.			2		10			0	0		
Umea	30.05	763.2	30.10	764.5	47.3	8.5	56	ne.			4		6			0.047	1.2		
Hernosand	30.07	763.8	30.12	765.1	45.3	7.4	50	nne.			2		8			0	0		
Stockholm	29.84	757.9	30.02	762.4	46.0	7.8	33	nne.			7		5			0	0		
Wisby	29.85	758.2	29.91	759.7	42.8	6.0	76	nne.			6		3			0.024	0.6		
Sub-series.																			
Upsala	29.95	760.6	30.03	762.8	46.9	8.3	37	n.	23.9	10.7			6		nne.	0.004	0.1		S. G. Fineman.
SWISS.																			
Geneva	28.45	722.7	29.88	759.0	53.8	12.1	41	nne.			3					0	0	clear	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Clouds. Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
TURKISH.																			
Constantinople			29.90	759.4	71.2	21.8	40	se.	3	1.5			6		sw.	0	0		The Observatory.
Valona			29.89	759.3	73.0	22.8		sw.			2		10			blank	blank	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.02	762.6	70.0	21.1	69	nnw.			1	0	8 s		nw.	0.04	1.0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.66	753.4	29.74	755.4	45	7.2	76	n.	9	4.0			10 n			0.57	14.5	light rain	J. O. Barnes.
Alpena, Michigan	29.45	748.0	30.11	764.8	36	2.2	53	n.	15	6.7		0	0			0	0	clear	Jas. J. Fitzgerald.
Atlanta, Georgia	28.72	729.5	29.89	759.2	51.5	10.8	76	nw.	9	4.0		4 k	0	nw.		inap.	inap.	fair	H. Hall.
Atlantic City, New Jersey	29.64	752.8	29.64	752.8	48.1	8.9	86	n.	11	4.9			10 s		n.	0.87	22.1	cloudy	Jas. M. Watson.
Augusta, Georgia	29.69	754.1	29.88	758.9	52	11.1	80	nw.	3	1.3		9 k	0	nw.		0	0	cloudy	John Healy.
Baltimore, Maryland	29.68	753.9	29.73	755.1	54	12.2	67	n.	10	4.5		7 cs	hz.	nw.		0.38	9.7	fair	Robert Seyboth.
Barnegat, New Jersey	29.61	752.1	29.63	752.6	45.8	7.7	96	n.	17	7.6			10 n		ne.	1.54	39.1	light rain	Chas. F. Merritt.
Bismarck, Dakota	28.30	718.8	30.08	764.0	45	7.2	76	e.	6	2.7		0	0			0	0	clear	Cyrus Cramer.
Boise City, Idaho	27.19	690.6	30.03	762.7	42	5.6	76	w.	2	0.9		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.45	748.0	29.61	752.1	39.0	3.9	100	ne.	20	8.9			10 n		ne.	2.00	50.8	light rain	O. B. Cole.
Brownsville, Texas	29.87	758.7	29.91	759.7	74	23.3	90	e.	3	1.3			10 s		e.	inap.	inap.	cloudy	M. McCarty.
Buffalo, New York	29.12	739.6	29.86	758.4	42.2	5.7	49	n.	10	4.5		4 cs	0			inap.	inap.	fair	Wm. Finn.
Burlington, Vermont	29.47	748.5	29.76	755.9	44.5	6.9	48	n.	11	4.9			10 s		n.	0	0	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.60	751.8	30.00	762.0	51.7	10.9	68	n.	12	5.4		0	0			0	0	clear	W. H. Ray.
Campo, California	27.43	696.7	29.96	761.0	33.3	0.7	81	nw.	2	0.9		0	0			0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.16	689.9	29.83	757.7	48	8.9	46	n.			1	0	0			0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	29.72	754.9	29.74	755.4	54	12.2	74	nw.	16	7.2		0	0			0.88	22.4	clear	J. E. Lanouette.
Cape May, New Jersey	29.65	753.1	29.68	753.9	50	10.0	77	nw.	20	8.9		5 k	0	nw.		0.66	16.8	fair	W. Bolten.
Cedar Keys, Florida	29.92	760.0	29.94	760.5	59	15.0	64	nw.	9	4.0		0	7 ks		nw.	0	0	fair	F. W. Mixer.
Champaign, Illinois	29.18	741.2	29.98	761.5	43.3	6.3	74	n.	10	4.5		0	0			0	0	clear	L. A. Welsh.
Charleston, S. Carolina	29.77	756.1	29.82	757.4	55	12.8	69	w.	12	5.4		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	28.93	734.8	29.77	756.1	56.0	13.3	62	nw.	4	1.8		0	0			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.09	738.9	29.90	759.4	54.0	12.2	74	w.	8	3.6		3 cs	0	nw.		inap.	inap.	fair	B. L. Goulding.
Cheyenne, Wyoming	24.02	610.1	29.90	759.4	38.5	3.6	81	se.	8	3.6			10 s		se.	0.01	0.3	cloudy	E. McGovern.
Chicago, Illinois	29.33	745.0	30.03	762.7	42.9	6.1	83	n.	8	3.6		hz.	hz.			0	0	clear	J. Mitchell.
Chincoteague, Virginia	29.68	753.9	29.70	754.4	49	9.4	93	n.	10	4.5			10 s		w.	1.56	39.6	cloudy	V. P. Temple.
Cincinnati, Ohio	29.24	742.7	29.89	759.2	48	8.9	50	n.	9	4.0		5 c;ck	0	nw.		0.06	1.5	fair	R. B. Watkins.
Cleveland, Ohio	29.14	740.1	29.87	758.7	45.8	7.7	53	ne.	11	4.9		0	0			0.06	1.5	clear	J. B. Newlin.
Coleman City, Texas	28.22	716.8	30.01	762.2	60	15.0	67	e.	6	2.7			10 s			0	0	cloudy	L. Dorman.
Columbus, Ohio	28.99	736.3	29.83	757.7	44	6.7	68	n.	8	3.6		0	0			0.03	0.8	clear	D. Cuthbertson.
Concho, Texas	28.08	713.2	29.98	761.5	60	15.6	48	se.	4	1.8		5 c	0			0	0	fair	W. W. McConihe.
Davenport, Iowa	29.41	747.0	30.05	763.3	44	6.7	51	ne.	6	2.7		0	0			0	0	clear	R. R. Martin.
Dayton, Washington T'y	28.31	719.1	30.06	763.5	33	0.6	88	calm	0	0		0	7 ks		sw.	0.09	2.3	fair	H. Clifford.
Deadwood, Dakota	25.35	643.9	29.86	758.4	46	7.8	74	sw.	10	4.5		10 cs	0	sw.		0	0	cloudy	G. W. Scott.
Decatur, Texas					56	13.3	62	ne.	5	2.2		0	0			0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	29.66	753.4	29.68	753.9	50	10.0	77	n.	22	9.8		5 k	0	n.		0.81	20.6	fair	A. Schneider.
Denison, Texas	29.27	743.4	30.06	763.5	52.0	11.1	86	calm	0	0		0	0			0	0	clear	J. McGlone.
Denver, Colorado	24.69	627.1	29.85	758.2	43.0	6.1	76	nw.	12	5.4		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.23	742.4	30.12	765.0	47	8.3	63	e.	6	2.7		0	0			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.25	742.9	29.95	760.7	40.1	4.5	65	n.	18	8.0		0	0			0	0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.48	698.0	30.03	762.7	47	8.3	77	se.	2	0.9			10 k		se.	0	0	cloudy	E. A. Thomas.
Dubuque, Iowa	29.40	746.7	30.10	764.5	45.2	7.3	31	n.	3	1.3		0	0			0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.57	751.1	30.27	768.8	38	3.3	72	calm	0	0		0	0			0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.18	741.2	29.98	761.5	67.1	19.5	68	se.	4	1.8			10 s			0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.27	641.8	29.95	760.7	39	3.9	67	sw.	12	5.4		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.65	753.1	29.72	754.9	37.5	3.1	82	ne.	30	13.4			10 s		ne.	0.38	9.7	cloudy	J. H. Melton.
El Paso, Texas	26.22	666.0	29.86	758.4	56	13.3	35	nw.	8	3.6		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.16	740.7	29.88	758.9	45	7.2	60	ne.	18	8.0		0	0			0.03	0.8	clear	R. H. Paxton.
Escanaba, Michigan	29.50	749.3	30.16	766.1	38	3.3	62	n.	15	6.7		0	0			0	0	clear	C. Dill.
Fort Apache, Arizona	24.98	634.5	29.80	756.9	36	2.2	72	ne.	3	1.3		0	0			0	0	clear	W. O. Barnes.
Fort Assinnaboine, Montana	26.99	685.5	29.83	757.7	46	7.8	93	s.	10	4.5			10 n			0.40	10.2	light rain	B. O. Lenoir.
Fort Bennett, Dakota	28.45	722.6	30.01	762.2	45.0	7.2	93	se.	3	1.3		0	0			0	0	clear	A. Pritchard.
Fort Benton, Montana	27.08	687.8	29.87	758.7	46	7.8	86	w.	12	5.4			10 n		w.	0.04	1.0	light rain	G. W. Davis.
Fort Buford, Dakota	27.99	710.9	29.97	761.2	50	10.0	66	e.	17	7.6		0	0			0	0	clear	A. H. Bell.
Fort Custer, Montana	26.70	678.2	29.80	756.9	46	7.8	93	sw.	6	2.7			10 n		calm	0.56	14.2	light rain	V. Verge.
Fort Davis, Texas	25.12	638.0	29.84	757.9	56	13.3	55	sw.	1	0.4		0	0			0	0	clear	J. Williams.
Fort Elliott, Texas	27.27	692.6	29.97	761.2	48	8.9	80	e.	8	3.6			10 s		e.	0	0	cloudy	W. J. Cundall.
Fort Gibson, Indian T'y																			J. B. Campbell.
Fort Grant, Arizona	25.21	640.3	29.82	757.4	52	11.1	33	e.	3	1.3		0	0			0	0	clear	T. J. Macgowan.
Fort Keogh, Montana	27.36	694.9	29.81	757.2	52	11.1	61	se.	15	6.7		10 cs	0	s.		0.06	1.5	cloudy	W. B. Stockman.
Fort Macon, North Carolina	29.74	755.4	29.75	755.6	57	13.9	80	nw.	14	6.3		0	hz.		calm	0	0	clear	L. Leonardy.
Fort McKavett, Texas	27.75	704.8	29.99	761.7	61	16.1	90	se.	5	2.2			10 s			0	0	cloudy	J. E. Thatcher.
Fort Missoula, Montana	26.67	677.4	29.97	761.2	45	7.2	86	nw.	7	3.1			10 n		e.	0.04	1.0	light rain	J. H. Jones.
Fort St. Michaels, Alaska	30.37	771.4	30.41	772.4	24	— 4.4	87	n.	3	1.3		0	0			0	0	clear	A. P. Leavitt.
Fort Shaw, Montana	26.28	667.5	29.88	758.9	43	6.1	93	n.	4	1.8			10 s			0.15	3.8	cloudy	A. L. Mathews.
Fort Sill, Indian Territory	28.85	732.8	30.07	763.8	49	9.4	89	n.	8	3.6		0	0			0	0	clear	T. Cleary.
Fort Stevenson, Dakota	28.25	717.5	30.08	764.0	41	5.0	82	se.	4	1.8		0	0			0	0	clear	W. Burrows.
Fort Verde, Arizona					43.6	6.4	34	nw.			1	0	0			0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.38	619.2			32.8	0.4	88	sw.	3	1.3		0	0			0.06	1.5	clear	T. M. Ambler.
Fredericksburg, Texas	28.25	717.5	29.97	761.2	63	17.2	73	calm	0	0		10 cs	0			0	0	cloudy	H. S. Miles.
Galveston, Texas	29.96	761.0	30.00	762.0	68	20.0	74	e.	18	8.0		5 cs	0	nw.		0	0	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.39	746.5	30.05	763.3	44.5	6.9	45	ne.	10	4.5		0	0			0	0	clear	W. A. Reid.
Hatteras, North Carolina	29.73	755.1	29.75	755.6	61	16.1	72	nw.	8	3.6		0	0			0.25	6.3	clear	R. M. Crawford.
Helena, Montana	25.69	652.5	29.86	758.4	44	6.7	68	sw.	4	1.8			10 s		sw.	inap.	inap.	cloudy	S. Wheaton.
Henrietta, Texas	29.11	739.4	30.09	764.3	54.0	12.2	74	calm	0	0		0	0			0	0	clear	J. W. Byram.
Huron, Dakota	28.75	730.2	30.10	764.5	44.2	6.8	86	s.	3	1.3		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.14	740.1	29.93	760.2	46	7.8	54	n.	4	1.8		0	fg.		calm	0.02	0.5	clear	O. Schutze
Indianola, Texas	29.94	760.5	29.97	761.2	69.0	20.6	76	ne.	12	5.4		8 k	0	sw.		inap.	inap.	cloudy	I. A. Reed.
Jacksboro, Texas	28.90	734.0	30.04	763.0	53	11.7	80	e.	5	2.2		0	0			0	0	clear	J. P. Sherry.
Jacksonville, Florida	29.88	758.9	29.92	760.0	63	17.2	56	w.	4	1.8		4 k	0	w.		0	0	fair	J. W. Smith.
Keokuk, Iowa	29.39	746.5	30.04	763.0	47.5	8.6	60	ne.	4	1.8		0	0			0	0	clear	F. Z. Gosewisch
Key West, Florida	29.91	759.7	29.93	760.2	79.0	26.1	65	calm	0	0		5 cs	2 ks	w.		0	0	fair	L. M. Melbourne.
Kittyhawk, North Carolina	29.74	755.4	29.76	755.9	56	13.3	74	nw.	8	3.6		hz.	0			0.18	4.6	clear	E. A. Beals.
Knoxville, Tennessee	28.86	733.0	29.88	758.9	48.8	9.3	93	w	2	0.9		3 ck	2 s	n.		0.06	1.5	fair	J. A. Cody.
La Crosse, Wisconsin	29.40	746.7	30.16	766.1	47	8.3	35	n.	5	2.2		0	0			0	0	clear	S. C. Emery.
La Mesilla, New Mexico	26.05	661.7	29.81	757.2	44.5	6.9	48	calm	0	0		0	0			0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.20	741.7	30.08	764.0	50	10.0	64	calm	0	0		0	0			0	0	clear	A. W. Browne.
Lewiston, Idaho	29.23	742.4	30.07	763.8	41	5.0	82	se.	1	0.4		0	5 s			0	0	fair	J. M. Burlew.
Little Rock, Arkansas	29.70	754.4	30.01	762.2	54	12.2	86	nw.	5	2.2		0	0			0	0	clear	W. U. Simmons.
Los Angeles, California	29.69	754.1	30.09	764.3	47.4	8.6	86	sw.	5	2.2		0	0			0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.30	744.2	29.85	758.2	48	8.9	93	n.	8	3.6			8 k		n.	0.15	3.8	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.08	738.6	29.76	755.9	58.5	14.7	53	n.	4	1.8		7 ck	0	nw.		0.06	1.5	fair	W. R. Bushby.
Madison, Wisconsin	29.10	739.1	30.10	764.5	38	3.3	73	n.	15	6.7		0	0			0	0	clear	C. A. Shaw.
Marquette, Michigan	29.50	749.3	30.22	767.6	40	4.4	57	ne.	8	3.6		0	0			0	0	clear	J. Gilligan.
Memphis, Tennessee	29.64	752.8	29.97	761.2	54	12.2	86	w.	4	1.8		0	0			0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.33	745.0	30.07	763.8	42	5.6	74	n.	15	6.7		0	0			0	0	clear	W. Line.
Mobile, Alabama	29.98	761.5	30.02	762.5	53.5	11.9	80	n.	3	1.3		0	0			0	0	clear	J. D. Paxton.
Montgomery, Alabama	29.74	755.4	29.97	761.2	55	12.8	80	nw.	4	1.8		0	0			0	0	clear	J. B. McLaughlin.

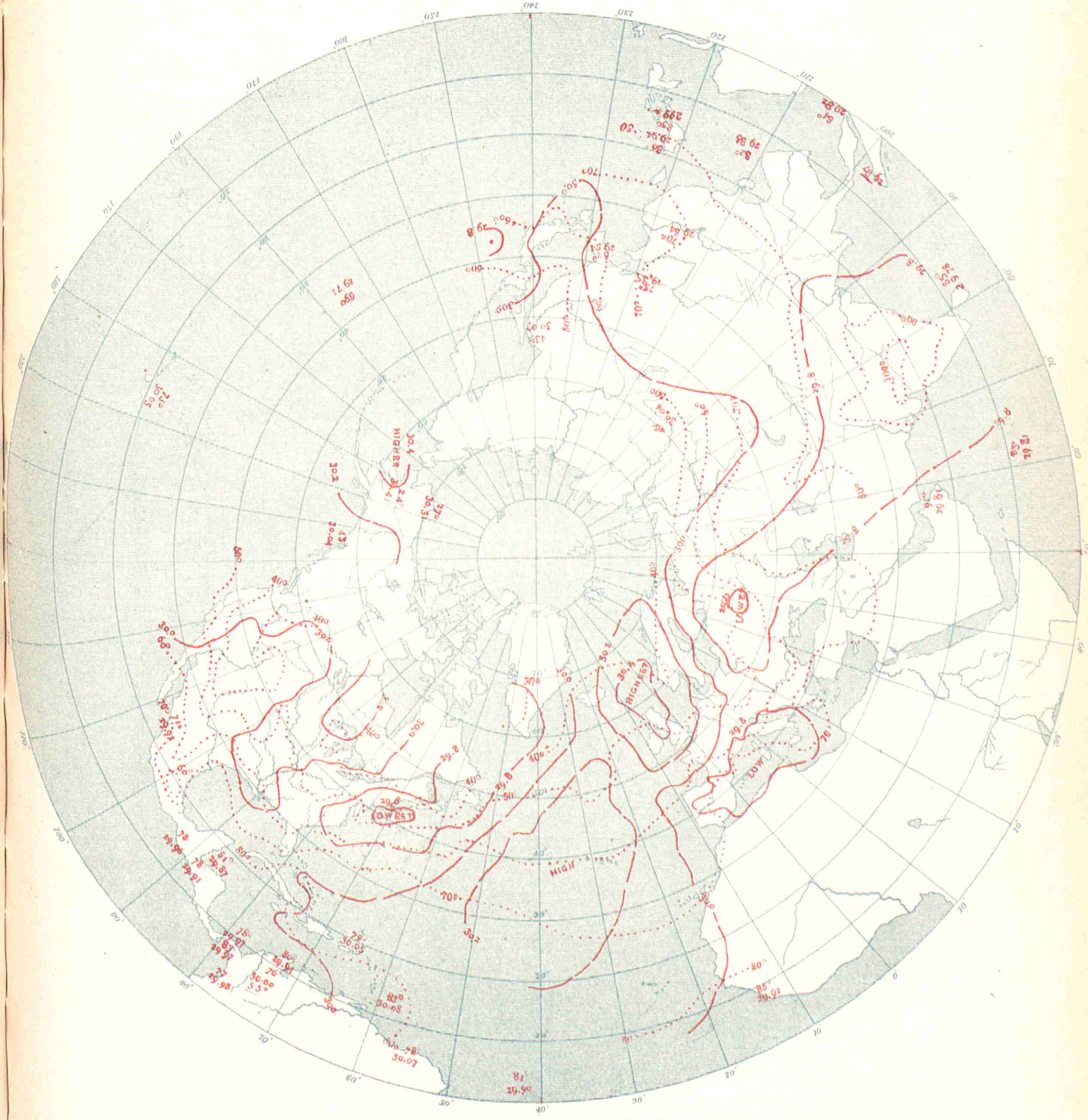
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Moorhead, Minnesota	29.16	740.7	30.14	765.5	47	8.3	63	s.	12	5.4		0	0			0	0	clear	H. Bessant.
Morgantown, W. Virginia	28.82	732.0	29.83	757.7	52.0	11.1	72	calm	0	0		0	7 k			0.15	3.8	fair	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.31	592.1	29.49	749.0	20.0	— 6.7	95	ne.	64	28.6			10n;fg		ne.	0.63	16.0	heavy snow	J. G. Linsley.
Nashville, Tennessee	29.38	746.2	29.91	759.7	49.0	9.4	93	calm	0	0			10 ks		w.	inap.	inap.	cloudy	L. A. Jesunofsky.
New Haven, Connecticut	29.47	748.5	29.59	751.6	44	6.7	76	n.	24	10.7		5 cs	4 s	n.	n.	1.58	40.1	cloudy	J. H. Sherman.
New London, Connecticut	29.53	750.0	29.58	751.3	43	6.1	100	ne.	11	4.9			10 n		ne.	1.18	30.0	light rain	J. G. Lynch.
New Orleans, Louisiana	29.96	761.0	30.01	762.2	62.8	17.1	65	n.	5	2.2		0	sk.			0	0	clear	L. Dunne.
Newport, Rhode Island	29.46	748.3	29.51	749.5	43.4	6.3	95	n.	15	6.7			10 s		n.	0.81	20.6	cloudy	W. McGillivray.
New River, N. Carolina					57	13.9	69	nw.			1	0	1 s			0	0	clear	C. C. Corbin.
New Shoreham, Rhode I'd.	29.47	748.5	29.50	749.3	43.4	6.3	93	ne.	36	16.1			10 s		ne.	0.49	12.4	cloudy	W. Davis.
New York, New York	29.47	748.5	29.65	753.1	48	8.9	86	nw.	12	5.4			10 s		n.	1.34	34.0	cloudy	E. B. Garriott.
Norfolk, Virginia	29.71	754.6	29.74	755.4	59	15.0	70	n.	6	2.7		0	0			0.36	9.1	clear	J. T. Elker.
North Platte, Nebraska	27.17	690.1	30.04	763.0	49.6	9.8	72	se.	7	3.1			10 s			0	0	cloudy	E. F. Brady.
Olympia, Washington T'y	30.04	763.0	30.08	764.0	36.0	2.2	89	s.	1	0.4		0	0			0.42	10.7	clear	J. Dascomb.
Omaha, Nebraska	28.97	735.8	30.13	765.3	49.1	9.5	68	n.	4	1.8		0	hz.			0	0	clear	A. Pollak.
Oogluamie, Pt. Barrow, Alas.	30.29	769.4	30.31	769.9	27.3	— 2.6	100	sse.	9	4.0			10 s			inap.	inap.	cloudy	P. H. Ray.
Oswego, New York	29.47	748.5	29.80	756.9	42.0	5.6	57	ne.	23	10.3		3 c	0			0	0	clear	S. W. Beall.
Palestine, Texas	29.51	749.5	30.06	763.5	55.0	12.8	86	n.	4	1.8		5 ck	0	w.		0	0	fair	L. M. Pindell.
Pensacola, Florida	29.98	761.8	30.01	762.2	57.0	13.9	77	n.	4	1.8		0	0			0	0	clear	M. McGauran.
Philadelphia, Pa.	29.60	751.8	29.70	754.4	50	10.0	71	nw.	10	4.5			10 s		nw.	1.29	32.8	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.70	449.6	29.76	755.9	16.5	— 8.6	71	sw.	34	15.2		0	0			0.01	0.3	clear	L. M. Dey.
Pioche, Nevada	23.95	608.3	29.87	758.7	37	2.8	58	nw.	5	2.2		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.01	736.8	29.81	757.2	46.5	8.1	63	n.	6	2.7		0	0			0.05	1.3	clear	J. H. Bryce.
Poplar River, Montana	27.81	706.4						se.			4	0	0			0	0	clear	U. D. Maxwell.
Port Eads, Louisiana	30.00	762.0	30.01	762.2	63.2	17.3	68	n.	15	6.7		0	0			0	0	clear	H. G. Christian.
Port Huron, Michigan	29.31	744.5	29.99	761.7	38.2	3.4	75	n.	22	9.8		0	0			0	0	clear	W. O. Bailey.
Portland, Maine	29.64	752.8	29.68	753.9	40.0	4.4	86	ne.	23	10.3			10n;fg		ne.	0.66	16.8	light snow	D. C. Murphy.
Portland, Oregon	30.02	762.5	30.09	764.3	39.0	3.9	89	calm	0	0			fg.		calm	0.19	4.8	dense fog	M. L. Hearne.
Portsmouth, N. Carolina					60	15.6	70	nw.	11	4.9		0	0			0.03	0.8	clear	F. P. Chaffee.
Prescott, Arizona	24.72	627.9	29.82	757.4	37	2.8	46	s.	4	1.8		0	0			0	0	clear	J. McN. Wright.
Provincetown, Mass.	29.49	749.0	29.52	749.8	41	5.0	92	ne.	13	5.8			10 n			0.81	20.6	light rain	P. T. Jenkins.
Punta Rassa, Florida	29.90	759.4	29.91	759.7	69	20.6	76	e.	6	2.7			10 s		sw.	0	0	cloudy	W. J. Evans.
Red Bluff, California	29.71	754.6	30.08	764.0	46.6	8.1	64	calm	0	0		0	1 s			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.72	754.9	29.96	761.0	71	21.7	94	nw	1	0.4			10 s		nw.	0.05	1.3	cloudy	P. M. Wilson.
Rochester, New York	29.18	741.2	29.84	757.9	41	5.0	57	n.	19	8.5		2 c	0	n.		inap.	inap.	clear	F. Gillam.
Roseburg, Oregon	29.54	750.3	30.09	764.3	40.5	4.7	90	e.	4	1.8			10 ks		s.	0.14	3.6	cloudy	J. J. Nanry.
Sacramento, California	30.03	762.7	30.11	764.8	45.0	7.2	76	se.	6	2.7		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.43	747.5	30.02	762.5	47.5	8.6	77	n	14	6.3		hz.	0			0	0	clear	J. H. Webber.
St. Paul, Minnesota	29.34	745.2	30.19	765.8	45.0	7.2	45	n.	5	2.2		1 cs	0			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.30	744.2	30.16	766.1	46	7.8	68	se.	6	2.7		0	0			0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.60	650.2	29.92	760.0	41	5.0	53	e.	3	1.3		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.29	744.0	29.99	761.7	65	18.3	73	n.	4	1.8			10 s			0	0	cloudy	E. Lane.
San Diego, California	29.96	761.0	30.03	762.7	53.2	11.8	80	e.	3	1.3		7 k	3 s	se.	se.	0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.23	742.4	29.90	759.4	44.2	6.8	68	n.	27	12.1		0	0			0.09	2.3	clear	M. H. Perry.
Sandy Hook, New Jersey	29.61	752.1	29.65	753.1	48.0	8.9	93	n.	21	9.4			10 n		n.	1.61	40.9	heavy rain	B. A. Blundon.
San Francisco, California	30.08	754.0	30.15	765.8	47	8.3	68	w.	11	4.9		0	0			0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.19	589.0	29.80	756.9	45	7.2	30	sw.	6	2.7		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	29.78	756.4	29.87	758.7	60	15.6	60	w.	8	3.6		0	0			0	0	clear	H. W. Ford.
Shreveport, Louisiana	29.82	757.4	30.06	763.5	56	13.3	80	calm	0	0		0	0			0	0	clear	E. N. Meekins.
Silver City, New Mexico	24.26	616.2	29.81	757.2	39	3.9	43	w.	3	1.3		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	29.98	761.5	30.04	763.0	42.7	5.9	72	s.	10	4.5			10 ks		sw.	0	0	cloudy	J. J. McLean.
Smithville, North Carolina	29.74	755.4	29.78	756.4	57	13.9	69	n.	7	3.1		0	2 k			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.99	710.9	30.04	763.0	39	3.9	92	nw.	1	0.4		7 cs	0			0	0	fair	D. Moore.
Springfield, Illinois	29.36	745.7	30.03	762.7	44	6.7	60	n.	9	4.0		0	0			0	0	clear	T. B. Jennings.
Springfield, Massachusetts	29.52	749.8	29.65	753.1	43.0	6.1	93	n.	12	5.4			10 n		n.	0.73	18.5	light rain	T. S. Outram.
Springfield, Mo.	28.60	726.4	30.08	764.0	52	11.1	69	nw.	6	2.7		0	0			0	0	clear	J. B. Marbury.
Starkville, Miss.	29.53	750.0			53.8	12.1	86	n.	9	4.0		0	0			0	0	clear	M. J. Wright.
Stockton, Texas	26.93	684.0	29.94	760.5	56.6	13.7	86	s.	20	8.9		0	0			0	0	clear	J. O'Dowd.
Thatcher's Island, Mass.	29.56	750.8	29.61	752.1	39.0	3.9	100	ne.	36	16.1			10 n		ne.	2.83	71.9	light rain	F. R. Day.
Toledo, Ohio	29.24	742.7	29.92	760.0	42	5.6	51	n.	15	6.7		3 c	0			0.02	0.5	clear	A. Buell.
Tucson, Arizona	27.51	698.7	29.85	758.2	52	11.1	55	s.	5	2.2		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.75	755.6	30.12	765.0	40	4.4	73	ne.	2	0.9		0	1 s			0	0	clear	J. Daly.
Uvalde, Texas	29.00	736.6	29.94	760.5	67	19.4	63	se.	2	0.9			10 s		se.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.79	756.7	30.04	763.0	57	13.9	80	calm	0	0		0	0			0	0	clear	H. T. Brisbane.
Visalia, California																			W. L. Seward.
Washington, D. C.	29.63	752.6	29.74	755.4	52.8	11.6	64	nw.	10	4.5		7 k	0	nw.		0.46	11.7	fair	B. M. Purssell.
West Las Animas, Colorado	26.01	660.6	29.87	758.7	48	8.9	71	se.	17	7.6		0	0			0	0	clear	J. Grover.
Williamsport, Pa.	29.14	740.1	29.74	755.4	48	8.9	56	n.	6	2.7			10 s			0.03	0.8	cloudy	B. F. Hough.
Wilmington, N. Carolina	29.72	754.9	29.77	756.1	56	13.3	74	nw.	5	2.2		0	0			inap.	inap	clear	A. T. Sherwood.
Winnemucca, Nevada	25.61	650.5	29.95	761.0	25	— 3.9	53	sw.	4	1.8		0	0			0	0	clear	J. R. Williams.
Yankton, Dakota	28.82	732.0	30.10	764.5	45	7.2	76	n.	2	0.9		0	0			0	0	clear	J. H. Atfield.
Yuma, Arizona	29.72	754.9	29.87	758.7	57.0	13.9	69	sw.	1	0.4		1 cs	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.07	560.6			55.0	12.8	74	calm	0	0		3 ck;k	4ks;s			0.05	1.3	fair	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.06	763.5	30.08	764.0	83	28.3	91	e.				5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.95	760.7	29.98	761.5	77	25.0	90	ne.	2	0.9			10 ks		n.	1.90	48.3	cloudy	J. I. Plume.
Havana, Cuba, W. I.	29.93	760.2	29.98	761.5	79	26.1	74	calm	0	0		8 cs	2 ks	calm	calm	0	0	cloudy	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.00	762.0	30.01	762.2	80.7	27.1	72	ese.	2	0.9		1 c	5 s		e.	0.20	5.1		Robert Johnston.
Magua, San Domingo, W. I.					70	21.1		calm			0	5 ks	0	e.		0	0		S. M. Pike.
Navassa, W. I.																			F. M. Everett.
Paramaribo, S. A.	30.07	763.8	30.07	763.8	78	25.6	86	se.			3	5 k	5 ps	e.	e.	0.910	23.1		Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.54	750.3	30.00	762.0	76	24.4	94	calm			0		10 s		calm	inap.	inap.	foggy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							98	nw.			1	2 ck	3 ks	se.	nw.	0	0	cloudy	Earl Flint.
Santiago de Cuba, W. I.	29.96	761.0	29.98	761.5	78	25.6	86	n.	1.2	0.5		2 ck	6 s			0.35	8.9	cloudy	Robert Mason.
York Factory, B. A.	30.22	767.6	30.27	768.8	51.0	10.6	90	se.	8	3.6		2 k	2 s	e.	se.	0	0	fair	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
British Naval.																		
H. M. S. Alert, Port Mozambique, Mozambique	29.98	761.5	82.5	28.1	76	se.			1-2		2							d. clouds.
H. M. S. Alexandra, N. 36° 55′ E. 21° 23′	29.94	760.5	67	19.4	74	sse.			3		5					1	sse.	d. clouds.
H. M. S. Amethyst, N. 22° 35′ W. 22° 19′	30.01	762.2	71.5	21.9	88	n.			5		3	nne.				1	n.	d. clouds.
H. M. S. S. S. Champion, N. 1° 00′ W. 115° 25′			78	25.6	82	e.			4		7					4	se.	d. clouds.
H. M. S. Cleopatra, N. 13° 54′, E. 110° 25′	29.85	758.2	81.5	27.5	95	sse.			3		3							d. clouds.
H. M. S. Comus, Singapore, Malay Peninsula	29.82	757.4	83.5	28.6	91	calm			0		5	sw.						d. clouds.
H. M. S. Candor, Baindisi, Italy	29.78	756.4	65	18.3		se.			3-5		8							showery.
H. M. S. Coquette, Alexandria, Egypt	29.99	761.7	70	21.1		calm			0		6							misty.
H. M. S. Dido, N. 13° 00′, W. 60° 00′	30.08	764.0	80	26.7		e.			3		3	e.				3	e.	d. clouds.
H. M. Dock Yard, Bermuda, W. I.	29.95	760.7	74	23.3	90	sse.			4-5		6	sse.						d. clouds.
H. M. S. Druid, N. 16° 27′, W. 85° 54′	29.87	758.7	80.5	26.9	89	e.			1									misty.
H. M. S. Dwarf, S. 34° 36′, W. 58° 19′	30.04	763.0	44.5	6.9	96	calm			0		10							overcast.
H. M. S. Eclipse, S 16° 37′, E. 43° 28′	29.93	760.2	82	27.8		sw.			2		3							d. clouds.
H. M. S. Emerald, S. 52° 00′, W. 157° 00′	29.03	737.3	49	9.4	?	nw.			3		10	nw.				6	nne.	drizzling.
H. M. S. Euryalus, Trincomalee, Ceylon	29.78	756.4	85	29.4	91	nw.			2-4		7	w.						squally.
H. M. S. Fantome, N. 11° 37′, W. 71° 08′	29.94	760.5	80	26.7		ene.			3-4		9	ene.				2	ene.	d. clouds.
H. M. S. Flying Fish, N. 32° 44′, E. 129° 52′	29.92	760.0	67	19.4	81	s.			3		10							drizzling.
H. M. S. Fawn, N. 6° 58′, E. 60° 22′	29.81	757.2	85	29.4	67	sse.			1		1					1	se.	blue sky.
H. M. S. Garnet, S. 29° 56′, W. 71° 20′	30.10	764.5	56	13.3	80	s.			1		5							misty.
H. M. S. Garnet, Colonia, Uruguay	30.07	763.8	52	11.1	86	calm			0		10							overcast.
H. M. S. Griffon, Halifax, Nova Scotia	29.90	759.4	45	7.2	76	n.			2		10							raining.
H. M. S. Inconstant, Simon's Bay, Cape Colony	29.87	758.7	60	15.6	70	n.			2-3		7	nw.				1	n.	d. clouds.
H. M. S. Iron Duke, N. 32° 24′, E. 129° 16′	29.99	761.7	67	19.4	94	nne.			2-3		4					3	nne.	misty.
H. M. S. Kingfisher, Callao, Peru	30.01	762.2	62	16.7		calm			0		9	calm						d. clouds.
H. M. S. Lark, S. 8° 14′, E. 156° 30′	29.94	760.5	83.3	28.5		se.			2		8							showery.
H. M. S. Magpie, N. 34° 56′, E. 139° 52′	29.96	761.0	63.7	17.6	89	calm			0		0					2	wnw.	blue sky.
H. M. S. Northampton, Bermuda, W. I.			75	23.9	93	s.			3		8	sse.						d. clouds.
H. M. S. Rambler, S. 5° 57′ E. 11° 28′	29.93	760.2	77	25.0	100	sse.			2		6	sse.				2	ssw.	d. clouds.
H. M. S. Rocket, N. 48° 27′ W. 123° 27′	30.09	764.3	38	3.3	?	calm			0		2							d. clouds.
H. M. S. Sylvia, Funchal, Madeira	30.02	762.5	70.5	21.4	75	sw.			1		8							d. clouds.
H. M. S. Tenedos, N. 45° 30′ W. 58° 30′	29.62	752.3	39	3.9	100	w.			1		2					1	sse.	foggy.
H. M. S. Triumph, Coquimbo, Chili	30.08	764.0	56	13.3	87	calm			0		10	calm						d. clouds.
H. M. S. Tyne, N. 37° 08′, W. 0° 23′	29.84	757.9	67	19.4	100	sw.			1		2	sw.				3	sw.	d. clouds.
H. M. S. Woodlark, Muscat Cove, Arabia	29.71	754.6	90.5	32.5	60	se.			1-2		0							misty.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verd Island	30.09	764.2	75.9	24.4	90	nne.			3		2		ne.			2		d. clouds.
Tamega, Macao, China	29.79	756.7	84.9	29.4	81	ssw.			3		6		sw.	2 h'r	2 h'r			d. clouds.
United States Naval.																		
Navy Yard, Pensacola, Fla	29.96	761.0	55	12.8	80	nw.	5	2.2			0			0	0			clear.
Navy Yard, Portsmouth, N. H.	29.73	755.1	38	3.3	100	ne.	27	12.1			10		ne.	1.00	25.4			raining.
Naval Hospital, Yokohama, Japan	29.82	757.4	62	16.7	66	calm			0		0			0.02	0.5			clear.
Adams, Mare Island, Cal.	29.90	759.4	51	10.6	79	w.			1-2		0			0	0	sm'h		clear.
Alaska, S. 6° 24′, W. 81° 24′	29.96	761.0	64	17.8	100	se.			2		0			0	0	sm'h		clear.
Alert, Kobe, Japan*	29.90	759.4	64	17.8	68	calm			0		0			0	0			clear.
Alliance, N. 37° 14′ W. 74° 48′	29.71	754.6	51	10.6	93	nne.			2		2			light	light	sm'h		clear.
Ashuelot, Kobe, Japan	30.04	763.0	60	15.6	82	calm			0		1							clear.
Brooklyn, Montevideo, Uruguay	30.03	762.7	52	11.1	93	sw.	3	1.3			8		calm	0	0	sm'h		cloudy.
Colorado, New York, N. Y.	29.83	757.7	49	9.4	71	n.	8	3.6			10		ne.	0.95	24.1			misty.
Essex, Rio de La Plata River, Uruguay	30.03	762.7	52	11.1	79	w.			5		8					sm'n	w.	fair.
Franklin, Norfolk, Va.	29.73	755.1	55	12.8	74	nnw.	12	5.4			5		calm	0.30	7.6			clear.
Galena, N. 36° 43′, W. 2° 05′	29.82	757.4	69	20.6	90	sw.			1		2		w.			mod.	wsw.	clear.
Independence, Mare Island, Cal.	30.00	762.0	46	7.8	84	w.			3		0			0	0			clear.
Iroquois, San Francisco, Cal.	30.12	765.0	50	10.0	72	wsw.			2		0							clear.
Kearsage, N. 37° 07′ W. 75° 00′	29.70	754.4	50	10.0	100	wnw.			3		0					sm'h		clear.
Lackawanna, S. 8° 24′, W. 79° 51′*	29.98	761.5	66	18.9	89	sse.			3		8		se.	0	0	sm'h	se.	cloudy.
Lancaster, N. 36° 43′, W. 2° 05′*	29.76	755.9	68	20.0	84	wsw.			2		2		sw.	0	0	sm'h		misty.
Marion, S. 27° 31′, W. 42° 42′	30.05	763.3	73	22.8	81	nnw.			1		2		calm			r'gh	se.	clear.
Michigan, Erie, Pa.	29.78	756.4	43	6.1	100	ne.			6		0							clear.
Minnesota, Newport, R. I.	29.46	748.3	43	6.1	92	nne.	15	6.7			10							cloudy.
Monocacy, Nagasaki, Japan	30.02	762.5	63	17.2	89	nnw.			2		0							clear.
New Hampshire, Newport, R. I.	29.45	748.0	43	6.1	100	ne.			6		10		ne.			mod.	ne.	stormy.
Onward, Callao, Peru†	30.13	765.3	61	16.1	100	calm			0		10		n.			long	w.	cloudy.
Palos, Kobe, Japan	30.09	764.3	58	14.4	82	calm			0		0							clear.
Passaic, Washington, D. C.	29.71	754.6	54	12.2	93	nw.			3		5		nw.					fair.
Pensacola, Callao, Peru	30.03	762.7	61	16.1	94	calm	0	0			10			0	0	sm'h		misty.
Portsmouth, Plymouth, Eng.	30.26	768.6	52	11.1	100	ese.					0							clear.
Powhatan, Hampton Roads, Va.	29.75	755.6	55	12.8	74	nw.			1		2							fair.
Quinnebaug, N. 36° 43′, W. 2° 08′	29.78	756.4	68	20.0	79	sw.			2		8?		calm			sm'h		clear ?
Ranger, Pichilinque, Mexico*	29.84	757.9	74	23.3	72	sse.			1		8		sse.	0	0	sm'h		cloudy.
Richmond, Kobe, Japan*	30.00	762.0	62	16.7	72	calm			0		0			0	0			clear.
Saratoga, Plymouth, Eng.	30.19	766.8	50	10.0	65	e.			2-3		8		e.	0	0	sm'h	e.	cloudy.
Shenandoah, New York, N. Y*	29.68	753.9	57	13.9	75	nnw.			4		10							cloudy.
St. Louis, League Island, Pa.	29.77	756.1	50	10.0	86	nnw.	1	0.4			5			1.53	38.9			fair.
Swatara, N. 37° 27′ E. 125° 33′*	29.84	757.9	62	16.7	77	nw.			1		0					sm'h		clear.
Tennessee, N. 37° 13′, W. 74° 56′	29.73	755.1	52	11.1	93	w.	5	2.2			2		w.	0.20	5.1	sm'h		fair.
Vandalia, N. 37° 20′ W. 74° 44′*	29.69	754.1	55	12.8	93	w.			2		2		wnw.			sm'h	nw.	fair.
Wabash, Boston, Mass.	29.58	751.3	41	5.0	91	nne.	10	4.5			10		ne.	2.04	51.8			raining.
Wachusetts, Fort Wrangle, Alaska	29.99	761.7	36	2.2	100	ene.			1		2			0	0			fair.
Wyoming, Port Royal, S. C.	29.87	758.7	56	13.3	87	w.	18	8.0			2		w.	0	0			clear.
Yantic, N. 37° 03′, W. 74° 46′*	29.68	753.9	50	10.0	100	w.			2		5					sm'h		fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mt's. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 49° 25′, W. 65° 30′*	29.89	759.2	31	—0.6	68	nne.			5		0			0	0	3	ne.	d. clouds.
S. S. Nova Scotian, N. 51° 34′, W. 28° 06′	30.26	768.6	47	8.3		nw.			3		2		nw.			mod.	wnw.	fair.
S. S. Prussian, N. 48° 11′, W. 36° 57′*	30.13	765.3	53	11.7		ssw.			4		10		ne.	3 h'r	3 h'r	con.	var.	clear.
S. S. Scandinavian, N. 51° 18′, W. 27° 24′*	30.24	768.1	49	9.4		nnw.			4		5		nnw.	0	0	mod.	var.	d. clouds.
S. S. Waldensian, N. 42° 14′, W. 59° 36′*	30.04	763.0	52	11.1		sw.			5		fg		sw.	0	0	long	ssw.	dense fog.*
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, Philadelphia, Pa.	29.58	751.3	52	11.1	93	nw.			2		8		nw.					cloudy.
S. S. Indiana, N. 50° 32′, W. 16° 10′†	30.21	767.3	58	14.4	93	s.			3		10		ssw.	12 h'r	12 h'r	mod.	se.	cloudy.
S. S. Lord Clive, Philadelphia, Pa*	29.59	751.6				nw.			1		9		nw.	16 h'r	16 h'r			cloudy.
S. S. Ohio, N. 39° 29′, W. 64° 52′†	29.50	749.3	56	13.3	100	sse.			4		10					mod.	ese.	cloudy.
ANCHOR LINE.																		
S. S. Bolivia, N. 54° 44′, W. 20° 04′†	30.07	763.8	52	11.1		wnw.			1					rain	rain	long	w.	overcast.
S. S. Devonia, N. 54° 06′, W. 18° 20′†	30.17	766.3	56	13.3		ene.			2		9		ene.			mod.	ene.	hazy.
S. S. Utopia, Cadiz, Spain†	30.09	764.3	72	22.2	85	w.			2		8		w.	0	0			cloudy.
ATLAS LINE.																		
S. S. Ailsa, N. 21° 10′, W. 74° 29′†	29.97	761.2	82	27.8	83	sw.			1		0			0	0	sm'h		very fine.
S. S. Athos, Ponce, Porto Rico, W. I	29.57	751.1																
S. S. Claribel, N. 33° 40′, W. 74° 04′*†	29.90	759.4	69	20.6	60	nnw.			1		8		wnw.	2 h'r	2 h'r	long	w.	cloudy.
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, N. 43° 23′, W. 66° 31′			46	7.8	92	e.			3					sh'rs	shr's		ene.	light rain.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S 38° 19′, W. 2° 56′	30.33	770.4	53.3	11.8	61	s.			3		9							d. clouds.
British Merchant, S. 35° 20′, E. 17° 28′	29.70	754.4	63.5	17.5	83	nw.			3–4		6							d. clouds.
Bk Commewyne, N. 48° 14′, W 18° 17′	30.08	764.0	55.5	13.1	74	nw.			3		4							d. clouds.
Bk Coppename, N. 31° 36′, W. 19° 57′	30.09	764.3	65.5	18.6	73	n.			4		9							d. clouds.
S. S. Earnock, N. 43° 15′ W. 25° 20′	30.29	769.4	56.6	13.7	69	n.			4		5							squally.
Glencairn, S. 26° 56′, E. 50° 30′	30.06	763.5	76	24.4	90	w.			5–6		9							d. clouds.
Bkt. Hope, N. 21° 24′ W. 41° 31′	30.22	767.6	76	24.4	76	ne.			3–4		2							overcast.
S. S. May Hulse, S. 21° 36′, W. 75° 12′	30.19	766.8	64	17.8	63	sse.			4		10							blue sky.
S. S. Minho. S. 16° 33′, W. 38° 25′	30.11	764.8	78.8	26.0	61	s.			2		1							drizzling.
S. S. Pole Star, S. 40° 47′, W 82° 04′	29.51	749.5	58.2	14.6	97	nw.			6		10							
CUNARD LINE																		
S. S. Bothnia, N. 51° 18′ W. 15° 20′	30.15	765.8				s.			5		10			6 h'r	6 h'r		se.	raining.
S. S. Gallia, N. 46° 01′, W. 30° 50′	30.24	768.1	58	14.4	76	sw			6		2		sw.	0	0	sm'h		fair.
S. S. Scythia, N. 41° 20′, W. 62° 24′	29.67	753.6	63	17.2	94	ssw.			2		1		ssw.	sh'rs	shr's	mod.	sw.	
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. St. Germain, N. 41° 20′ W. 55° 00′	30.07	763.8	62.6	17.0		s.			6				s.	0	0	h'vy	s.	hazy.
S. S. Ville de Marseilles, N. 37° 43′, W. 22° 45′ *†	30.10	764.5	62	16.7		nw.			5		3		nw.	1 h'r	1 h'r	long	w.	fair.
GUION LINE.																		
S. S. Arizona, N. 48° 32′, W. 28° 56′	30.37	771.4	50	10.0		n.			4		5		ne.	0	0	mod.	nw.	
S. S. Wisconsin, N. 41° 12′, W. 60° 30′ *†	29.84	757.9	62	16.7		sw.			2		2		sw.	3 h'r	3 h'r	mod.	sw.	clear.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S Bohemia, N. 40° 27′, W. 62° 16′*†	29.75	755.6				ssw.			6		6		sw.	0	0	long	s.	stormy.
S. S. Lessing, N. 41° 05′, W. 57° 17′	29.85	758.1	67	19.4		sw.			5		0			0	0	mod.	sw.	clear.
S. S. Silesia, Hamburg, Germany†	30.11	764.8	50	10.0		n.			4		10			0	0			overcast.
S. S. Wieland, N. 41° 05′ W. 54° 28′	30.06	763.5	67.5	19.7		sw.			4–5		5		ssw.	7 h'r	7 h'r	4	ssw.	fair.
INMAN LINE.																		
S. S. City of New York, N. 47° 13′, W. 37° 09′	30.35	770.9				s.			5		10		s.	0	0	r'gh	s.	hazy.
JOHNSTON LINE.																		
S. S. Thanemore, N. 41° 24′ W. 55° 03′	29.95	760.7				ssw.			4		2		w.	6 h'r	6 h'r		sw.	hazy.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, S. 28° —′ W. 47° —′.*†	30.19	766.8	71	21.7		nne.			2		7		se.	0	0	long	se.	cloudy.
S. S. Humboldt, N. 3° 24′, W. 42° 50′*	29.90	759.4	81	27.2	87	nne.			6		6 n			8 h'r	8 h'r	5	con.	raining.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 29° 02′ W. 71° 13′†	29.90	759.4	77	25.0	90	sse.			6		8			5 h'r	5 h'r	mod.	sw.	squally.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenapp, Pernambuca, Brazil*†	29.93	760.2				se.			3		4		ese.	0	0	light	se.	fine.
NATIONAL LINE.																		
S. S. Canada, N. 41° 22′, W. 61° 18′†	29.75	755.6	62	16.7		ssw			3		4		w.	2 h'r	2 h'r	hv'y	cross	showery.
S. S. Denmark, London, England	30.20	768.6	58	14.4		n.			5		8		n.	½ h'r	½ h'r			cloudy.
S. S. England, N. 50° 15′ W. 20° 10′	30.17	766.3				ne.			2		0			0	0	mod.	ene.	clear.
S. S. Erin, New York, N. Y.	29.65	753.1	55	12.8		nnw.			3		10		n.	20 h'r	20 h'r			
S. S. Greece, N. 41° 02′, W 58° 10′	29.90	759.4				ssw.			4		2		ssw.	0	0	mod.	ssw.	clear.
S. S. Italy, N. 47° 59′ W. 31° 40′	30.53?	775.4?	55	12.8		wsw.			2		8		wsw.	0	0	mod.	wnw.	cloudy.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S City of Alexandria, Progreso Roads, C. A.*†	29.96	761.0	75	23.9	85	e.			3		6		e.	6 h'r	6 h'r			raining.
S. S. City of Puebla, N. 28° 47′ W. 77° 54′†	29.81	757.2	74	23.3		wsw.			3		2		sw.			mod.	sw.	
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Mass, N. 43° 58′, W. 42° 16′*†	30.20	767.1	65	18.3		wsw.			1							high	wsw.	foggy.
S. S. Olbers, N. 53° 30′ W 4° 20′*†	30.45	773.4	52	11.1		e.			4–5									clear.
NORTH GERMAN LLOYD																		
S. S. Elbe, N. 46° 36′ W. 33° 05′	30.37	771.4	55.4	13.0	94	n.			2–3		5?		se.	0	0	long	nw.	clear.?
S. S. Graf Bismarck, Rio de Janeiro Brazil	30.08	764.0	67.1	19.5		var.			2		6		var.	0	0			hazy.
S. S. Hohenzollern, N. 40° 25′, W. 57° 53′*	29.96	761.0	66.2	19.0		w.			4		8		sw.	rain	rain	mod.	w.	fair.
S. S. Kronprinz F. Wilhelm, N 53° 44′, E. 6° 04′	30.21	767.3	50.0	10.0		ne.			3		0			0	0	3	ne.	clear.
S. S. Main, N. 43° 22′, W. 45° 40′	30.22	767.6	53.6	12.0		wsw.			2–3		10		w.	0	0	sm'h	wsw.	covered.
S. S. Mosel, N. 50° 08′, W. 12° 05′	30.23	767.8	66	18.9		ese.			6		8		ese.	7¾h'r	7¾h'r	mod.	e.	cloudy.
S. S. Oder, N. 51° 06′, E. 1° 26′	30.21	767.3	55.4	13.0		ne.			5		8		ne.	1 h'r	1 h'r	sm'h	ene.	cloudy.
S. S. Ohio, Bremerhaven, Germany	30.14	765.5				n.			5		8		nne.	½h'r	½h'r			cloudy.
S. S. Rhein, N. 41° 00′, W. 57° 49′	29.83	757.7				sw.			5		5		sw.	0	0	r'gh	sw.	fair.
S. S. Salier, N. 40° 44′, W. 70° 09′	29.51	749.5	41.9	5.5		s.			5		10		s.	2 h'r	2 h'r	mod.	s.	hazy.
S. S. Strassburg, N. 48° 44′, W. 21° 26′	30.12	765.0	63.0	17.2	67	wnw.			3		3		wnw.	0	0	sm'h	w.	fair.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic Yokohama, Japan†	30.08	764.0	67	19.4	64	ne.			2		5		nnw.	0	0	sm'h		fair.
S. S. Gaelic, N. 36° 15′, E. 174° 41′†	29.71	754.6	60	15.6	66	w.			3		10		wnw.			mod.	ssw.	overcast.
S. S. Oceanic, N. 38° 00′, E. 146° 49 *	29.66	753 4	51	10.6	?	nnw.			6		10		n.			7	nne.	overcast
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, N. 37° 50′, W. 74° 45′†	29.67	753.6				w.			4		8?		w.			long	e.	clear.?
S. S. City of Columbus, New York, N. Y.†	29.65	753.1				nnw.								0	0			cloudy.
S. S. Seminole, Off Hatteras Light, N.C.†	29.77	750.1	67	19.4	84	w.			1		1		nw.			sm'h	sw.	clear.
OREGON IMPROVEMENT COMPANY.																		
S. S. Willametta, Seattle, Wash. Ter.†	30.10	764.5	49	9.4	77	calm			0		2		sw.	0	0			fine.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, N. 56° 22′, W. 132° 30′*†	30.04	763.0	39	3.9	91	s.			1		3?		s.					cloudy?
S. S. Oregon, Portland, Oregon†	30.03	762.7	39	3.9	100	calm			0		0							foggy
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal.†	30.06	763.5	47	8.3	70	wnw.			2		0							clear.
S. S. Dakota, Victoria, B. C.†	30.17	766.3	50	10.0	86	calm			0		0					sm'h		clear.
S. S. Orizaba, N. 34° 25′, W. 120° 25′†	30.06	763.5	54	12.2	74	w.			6				wnw.			long	nw.	fair.
S. S. State of California, N. 41° 06′ W. 124° 30′†	30.07	763.8	47	8.3	85	ese.			3		5?					sm'h	w.	overcast.?
S. S. Victoria, N. 37° 49′, W. 122° 30′†	30.14	765.5	47	8.3	92	calm			0		0			0	0	long	w.	clear.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia. N. 34° 59′, W. 127° 16′	30.19	766.8	53	11.7	80	sw.			2		8		s.	0	0	mod.	nw.	cloudy.
S. S. City of New York, Sydney, N. S. W†	30.02	762.5	62	16.7	100	nw.			2		1		nw.	0	0			clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. City of Rio de Janeiro, N. 28° 15′, W. 115° 00′*†	30.16	766.1	58	14.4	76	nw.			6		4		nw.	0	0	rg'h	nw.	fair.
S. S. City of Sydney, N. 22° 26′, W. 155° 02′†	30.05	763.3	73	22.8	81	e.			4		5		s.	0	0	mod.	se.	fair.
S. S. City of Tokio, Hong Kong, China†	29.88	758.9	80	26.7	82	se.			3		10		se.	6 h'r	6 h'r			squally.
S. S. Colima, San Jose, Guatemala†	29.96	761.0	78	25.6	86	sse.			6		9		sse.	0	0	r'gh	sse.	threatening
S. S. Colon, Aspinwall, Panama†	29.97	761.2	78	25.6		sw.			1		3		nne.	0	0	sm'h		fair.
S. S. Grenada, La Libertad, San Salvador†	29.91	759.7	78	25.6	86	ne.			1		10		ne.	6 h'r	6 h'r	light	s.	cloudy.
S. S. South Carolina, Panama, Panama†	29.97	761.2	83	28.3	75	calm			0		0?			0	0	sm'h		cloudy.?
S. S. Zelandia, Sydney, N. S. W.	30.07	763.8	63	17.2	67	ne.			2		0							clear.
QUEBEC STEAMSHIP COMPANY.																		
S. S. Muriel, N. 30° 10′, W. 68° 23′	29.86	758.4	72	22.2		sw.			4		8			0	0	r'gh	sw.	fair.
S. S. Bermuda, N. 23° 18′, W. 65° 26′†	30.08	764.0	50?	10.0?		sse.			2		9		se.	0	0	g't'l	sse.	fine.
RED STAR LINE.																		
S. S. Belgenland, N. 46° 00′, W. 28° 56′†	30.23	767.8	58	14.4	100	nw.			5		6		n.	0	0	mod.	nw.	fair.
S. S. Nederland, N. 44° 19′, W. 36° 56′†	30.43	772.9	53	11.7		sse.			3		2		ssw.	sh'rs	sh'rs	mod.	nnw.	fair.
S. S. Rhynland, Antwerp, Belgium	30.12	765.0	54	12.2	80	ene.			5		8		ene.					hailing.
S. S. Vaderland, N. 40° 20′, W. 65° 06′	29.71	754.6	61	16.1	94	ssw.			3		10		sw.	0	0	high	sw.	cloudy.
S. S. Waesland, Off Sandy Hook, N. J.	29.57	751.1	46	7.8		n.			5		8		n.	4 h'r	4 h'r	mod.	n.	clearing.
ROTTERDAM LINE.																		
S. S. Schiedam, N. 49° 46′ W. 6° 43′*	30.21	767.3	52.3	11.3		e.			5		0			0	0	mod.		clear.
S. S. W. A. Scholten, Rotterdam, Holland	30.11	764.8	51	10.6	86	n.			4		6		n.	0	0			
STATE LINE.																		
S. S. State of Florida, New York, N. Y.	29.60	751.8	50	10.0		nnw.			5		10		nnw.	16 h'r	16 h'r			cloudy.
S. S. State of Georgia, N. 54° 43′, W. 15° 06′†	30.27	768.8	55	12.8		se.			3		8		sw.			sli't	w.	fine.
S. S. State of Indiana, N. 41° 30′, W. 58° 55′†	29.59	751.6	60	15.6		s.			4		3		sw.	6 h'r	6 h'r	mod.	sw.	hazy.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 52° 38′, W. 26° 59′†	30.51	774.9	52.7	11.5		nnw.			3		3		nnw.	0	0	r'gh	nnw.	clear.
WHITE STAR LINE.																		
S. S. Adriatic, N. 41° 05′ W. 52° 08′.†	30.16	766.1	64.5	18.1	97	ssw.			5		5		s.	sl't	sl't	slight	se.	misty.
S. S. Baltic, N. 52° 38′ W. 5° 20′†	30.39	771.9	48	8.9	77	se.			3		2		se.	0	0			blue sky.
S. S. Celtic, Liverpool, Eng†	30.39	771.9	36	2.2	7	e.			1		2		e.	0	0	sm'h		fair.
S. S. Republic, N. 44° 31′ W. 44° 07′†	30.20	767.1	55	12.8	80	sw.			5		10			5 h'r	5 h'r	mod.	sw.	foggy.
WILSON LINE.																		
S. S. Romano, N. 47° 23′, W. 17° 23′*†	29.97	761.2	57	13.9		ne.					2			0	0	sm'h		clear.
MISCELLANEOUS.																		
Schr. Abbie Clifford, Barbadoes, W. I*†	30.06	763.5	81	27.2		e.			4		5			0	0			
Sch. Addie Fuller, Newport News, Va†	29.78	756.4	55	12.8	62	nw.			3	0	0			0.34	8.6			clear.
Bk. Adelaide, S. 9° 03′, W. 34° 26′*†	30.02	762.5	83	28.3		n.			1		3		nw.	4 h'r	4 h'r	mod.	cross	squally.
Schr. Ajax, Brazos, Texas†	29.98	761.5				ese.			1		9		se.	2 h'r	2 h'r			cloudy.
Bk. Alpha, Guanatamo, Cuba, W. I.†	29.94	760.5	82	27.8		n.			1		1			0	0			fair.
Sch'r Annie R. Lewis, Aransas Pass, Texas†	30.03	762.7	78	25.6		e.			5		8		e.	0	0	short	e.	cloudy.
Bk. Annie Thorman, N. 28° 58′, W. 37° 39′	30.36	771.1	69.1	20.6	74	ne.			6		9 k		ne.	8 h'r	8 h'r	rg'h	ne.	squally.
Bk. Antioch, S. 41° 52′ E. 124° 24′*†	29.80	756.9	57	13.9		w.			8		6		w.	0	0	r'gh	wsw.	cloudy.
S. S. Antonio Lopez, Havana, Cuba*	29.97	761.2	72.5	22.5	95	e.			1	4 c	0			0	0			fair.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.20	767.1	74	23.3		ene.			1		5		wsw.	0	0			hazy.
Schr. Annie M. Smull, S. 6° 04′, E. 105° 54′*†	29.90	759.4	86	30.0										0	0			
Bk. Bergenseren, N. 36° 23′ W. 3° 41′†	29.67	753.6				w.			6		hz.		w.	0	0	6	w.	fair.
S. S. Compton, Cardenas, Cuba†	29.96	761.0				sw.			1		4		calm	0	0			clear.
Schr. Edith R. Seward, N. 18° 57′, W. 74° 52′*†	30.20	767.1	87	30.6		e.			1		4		e.	0	0	long	ene.	fair.
S. E. J. Spicer, London, Eng.†	30.27	768.8				ese.			5		7		ese.	3 h'r	3 h'r			
S. Enoch Train, N. 40° 30′, W 74° 30′.*	29.93	760.2				ne.			1		6		ne.	0	0			fine.
S. Exporter, S 39° 30′, W. 14° 00′*†	30.58	776.7				calm.			0					0	0	hv'y	se.	cloudy.
Bk. Freya, Dublin, Ireland			58	14.4		ene.			4		0			0	0			fair.
S. Grecian, S. 12° 17′, E. 105° 30′*†	29.95	760.7	78	25.6		e.			5		10		e.			mod.	s.	rainy.
Bk Hattie G. McFarland, Boston, Mass*†	29.60	751.8	40	4.4		ene.			7		10		ene.	20 h'r	20 h'r			stormy.
Schr. Henry Denison, N. 26° 12′, W. 75° 44′†	29.94	760.5				se.			3		3		sse.	0	0	high	sse.	fair.
Bk. Horace Scudder, N. 38° 20′ W. 74° 10′.†	29.61	752.1	48	8.9		nw.			1		0			0	0			clear.
Bk. Johanne, N 46° 58′, W. 18° 00′*†	30.21	767.3	57	13.9		ene.			3		5		e.	0	0	high	e.	hazy.
Bkt. Josephine, Guanatamo, W. I.*†	30.10	764.5	80	26.7	78	n.			2		2			0	0			hazy.
Bk. Julia H., Havana, Cuba, W. I.	29.97	761.2	73.2	22.9	90	sse.			1		9 ks.8		ssw.					d. clouds.
Bk. Kate Cann, N 42° 32′, W. 49° 34′*†	30.07	763.8				sw.			5		10			3 h'r	3 h'r	long	sw.	rain & fog.
Bkt. Kryolith, N. 59° 04′, W. 41° 35′*†	29.78	756.4				sw.			3		10		sw.	snow	snow	sharp	w.	snowing.
S. S. Lamperts, N. 20° 32′, E. 38° 31′*	29.80	756.9	83	28.3	74	nnw.			4	3 c	0	calm						blue sky.
Light House Tender, Laurel, St. Andrew's Bay, Fla†	30.02	762.5	63	17.2		n.			2		0			0	0			clear.
S. S. Malabar, N. 5° 12′, E. 97° 55′*†	29.87	758.7				var.										sm'h		
Bg. Medina, N. 33° 12′, W. 75° 22′†	29.87	758.7				wnw.			3		10		w.			chop	w.	squally.
S. S. Nebo, N. 22° 45′, W. 65° 49′†*	30.12	765.0				ene.			1		2		ne.	0	0	sm'h		clear.
S. Paramita, S. 9° 28′, W. 33° 33′†	29.81	757.2	85	29.4		calm			0		2		se.	3 h'r	3 h'r	cross	se.	clear.
Bk. Pawashick, N. 20° 26′ W. 59° 57′*†	30.35	770.9	77	25.0	86	e.			5		1		e.			mod	ese.	fine.
Bk. Peppina, Bordeaux, France†	29.91	759.7	69	20.6	43	nne.			4		0							clear.
S. S. Ponca, N 27° 44′, W. 70° 05.†.	29.98	761.5	75	23.9		nw.			4		10		nw.	h'vy	h'vy	mod.	wsw.	cloudy.
Bg. Potomac, N. 36° 40′, W. 73° 17′*†	29.90?	759.4?				nw.			3				nw.			hv'y	sw.	fine.
Bk. Princessen, N. 39° 07′ W. 57° 36′†	29.89	759.3	69	20.6		s.			5		8			3 h'r	3 h'r	long	ssw.	hazy.
Bk. Rosebud, N. 32° 56′, W. 19° 15′*†	30.00	762.0	68	20.0	74	n.			4		5		n.	sh'rs	sh'rs	sm'h		fine.
S. Salisbury, S. 38° 07′, W. 1° 07′*	30.36	771.1	52.0	11.1	76	se.			5		10		e.	0	0	long	ese.	cloudy.
Bk. Stella, S. 6° 35′, W. 106° 44′*	29.92	760.0	80.2	26.8	86	ene.			4		4 k		se.	0	0	sm'h	se.	d. clouds.
Bk. Truro, N. 45° 52′ W. 28° 05′*†	30.25	768.3				n.			4		8		n.	0	0	mod.	nnw.	cloudy.
U. S. F. C. S. FishHawk, Washington, D. C.†	29.92	760.0	55	12.8	73	nne.			3		6		n.	0.58	14.7			fair.
Yacht Vega, Barbadoes, W. I.*†	30.20	767.1	80	26.7		ene.			3				e.	0	0	light	ese.	
S. S. Victoria J. Peed, Barranquilla, U. S. C.*†	29.12?	739.6?				s.			2		2							
Schr. Viola Reppard, Bridgeport, Conn.†	29.51	749.5	55	12.8		nne.			5		5		ne.	2 h'r	2 h'r			fair.
S. Washington, N. 53° 36′, E 3° 45′*†	30.15	765.8				n.			4		0			0	0	sm'h		clear.
Bg. Wauburn, N. 37° 50′ W. 74° 23′*†	29.75	755.6				w.			3		4		nw.	light	light	sm'h		
Bk. Wm. Wilcox, N. 34° 30′, W. 49° 28′*†	30.51?	774.9?	69	20.6		ssw.			3		5		s.	0	0	sm'h		fair.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 16, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.87	758.6	69.8	21.0	82	nw.			3		3			0.055	1.4	pretty fair	Moiroud
Algiers			29.89	759.3	70.2	21.2	72	nw.			1		0			0	0	clear	Nicolas.
La Calle			29.88	759.0	68.7	20.4		nne.			3		2			0	0	fair	Fonfrède.
Tunis			29.94	760.4															Jacques.
Saida			29.94	760.4															Dumas.
Tebessa			29.95	760.8	68.0	20.0	49	nw.			3		1?			0.323	8.2	cloudy?	Derché.
Geriville					76.6	24.8	23	sw.			4		0			0	0	clear	Lonchamp.
Laghouat			29.96	760.9	78.8	26.0	69	s.			1		0			0.276	7.0	clear	Abraham.
Biskra			29.93	760.2	74.8	23.8	26	nnw.			1		2			0	0	fair	Malau.
Australian.																			
Melbourne, Victoria	30.03	762.7	30.12	765.0	56.0	13.3	80	nnw.	16	7.2			2			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.42	747.2	29.97	761.1	55.4	13.0	53	ne.			1		10			0.012	0.3	raining	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.26	743.1	30.03	762.7	51.3	10.7	67	sw.	1.3	0.6			10			0.024	0.6		Dr. Wierzbiski.
Eperies	29.08	738.6	29.96	761.0	51.8	11.0	51	n.			3		10 ks		s.	0.012	0.3		Julius Mikolik.
Gratz	28.74	729.9	29.99	761.8	52.2	11.2	69	e.			2		10			0.488	12.4		Andreas Rospini.
Hermannstadt	28.47	723.0	29.92	759.9	46.6	8.1	92	nw.			1		10			0.398	10.1	raining	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.66	727.9	29.99	761.8	54.7	12.6	70	e.			1		7			0.031	0.8	very cloudy.	The Staff.
Lemberg	28.97	735.7	29.95	760.7	53.2	11.8	57	nw.			2		10			0.035	0.9		Dr. T. Stanecki.
Pola	29.78	756.3	29.89	759.1	56.8	13.8	52	e.			6		0			0	0		I. R. Hydrographic Office.
Szathmar	29.42	747.3	29.88	758.9	56.1	13.4	58	se.			3		10			0.008	0.2		Joseph Midlinszky, S. J.
Szegedin	29.63	752.6	29.91	759.6	57.0	13.9	66	nw.			1		10			0.035	0.9		Karl Stancel.
Trieste	29.84	757.8	29.94	760.4	60.1	15.6	37	ne.			3		6			0	0		Rieder.
Vienna	29.31	744.4	30.03	762.7	54.0	12.2	37	nw			2		6			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.39	771.9	30.50	774.7	46.0	7.8	73	e.	12	5.4			2			0	0	blue sky	W. Boswell
Armagh, Observatory	30.26	768.6	30.50	774.7	54.4	12.4	53	ese.	3	1.3			2					d. clouds	S. Gall.
Bidston, Liverpool Obs'y			30.45	773.4	53.5	11.9	63	nw.	13	5.8			3					misty	John Hartnup.
Bolton, Sharples	29.88	758.9	30.43	772.9	55.7	13.2	40	nne.					0					blue sky	Thomas Mackereth, A.S.
Bradford, Yorkshire	30.04	763.0	30.43	772.9	52.3	11.3	56	nw.			2		4			0	0	d. clouds	J. McLandsborough, F. R
Bridgetown, Barbadoes	29.96	761.0	29.98	761.5	83.0	28.3	59	ne.			3		2					d. clouds	Corpl. J. Surgenor, A. H.C.
Cardington			30.40	772.1	59.0	15.0	55	e.			1.0		5					d. clouds	John McLaren.
Chatham, School M. E.	30.27	768.8	30.40	772.1	55.5	13.1	70	ne.			2		5					d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	30.16	766.1	30.39	771.9	52.0	11.1	56	e.			4		2					d. clouds	The Staff.
Fort Napier, Natal	27.42	696.5	29.64	752.8	81.0	27.2	30	nw.			3		2					blue sky	Pvt. E. K. Annis, A.H.C.
Free Town, Sierra Leone	29.66	753.3	29.90	759.4	88.0	31.1	59	sw.			1		2					blue sky	Sergt. John Robinson.
Gibraltar, Mediterranean	29.82	757.4	29.87	758.7	70.4	21.3	75	sw.			3		4					blue sky	Opl. O. Baldwin.
Glasgow, Observatory	30.27	768.8	30.47	773.9	54.4	12.4	50	n.			2							misty	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.22	767.6	30.39	771.9	58.0	14.4	48	ne.			3		6					d. clouds	The Staff.
Guernsey	30.06	763.5	30.36	771.1	55.5	13.1	55	ne.			3		2					blue sky	A. Collenette, F. M. S.
Kew, Observatory	30.37	771.4	30.41	772.4	54.0	12.2	33	ne.	18	8.0			6					d. clouds	The Staff.
Leicester, Museum	30.20	767.1	30.47	773.9	44.0	6.7	75	ne.			1		0					blue sky	J. C. Smith.
Malta, Mediterranean	29.72	754.9	29.79	756.7	69.8	21.0	80	nw.			2		4					d. clouds	I. H. Whysall.
Nassau, Bahamas	29.98	761.5	30.02	762.5	82.2	27.9	70	sw.			1		6					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.91	759.7	30.44	773.2	55.8	13.2	53	ne.			3		3					d. clouds	John Mac Email.
Oxford, Radcliffe Obs'y	30.19	766.8	30.42	772.7	53.9	12.2	48	ne.			3		6					squally	The Staff.
Plymouth	30.30	769.6	30.38	771.6	55.3	12.9	50	e.			3		3					d. clouds	John Merrifield.
Sandwick Manse, Orkneys			30.49	774.4	47.2	8.4	73	nw.	10	4.5			0					blue sky	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.85	758.2	29.91	759.7	75.8	24.3	54	sw.			1	6 c;cs	0					d. clouds	W. H. Lyne.
Sheffield	30.17	766.3	30.45	773.4	56.1	13.4	65	ne.			2		1			0	0	blue sky	W. F. Cooper.
Silloth Rectory	30.43	772.9	30.46	773.7	56.4	13.6	48	e.			1		0			0	0	blue sky	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.45	773.4	56.0	13.3	53	nw.	4	1.8			3					blue sky	J. New.
Stratfield Turgiss	30.18	766.6	30.40	772.1	58.8	14.9	41	ne.			1-2		0					squally	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	30.36	771.1	30.38	771.6	58	14.4	46	e.			4		3					d. clouds	W. Newcombe.
Valencia, Observatory	30.39	771.9	30.42	772.7	57.0	13.9	57	e.	12	5.4			8					misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.92	760.0	29.97	761.2	35	1.7	82	nw.	1	0.4		0	0			0.450	11.4	clear	H. J. Cundall, C. E.
Chatham, N. B*	29.91	759.7	29.97	761.2	40	4.4	42	s.	3	1.3		0	0			0	0	clear	G. A. Blair.
Father Point, Quebec*	29.85	758.2	29.87	758.7	42	5.6	52	sw.	23	10.3		5 k	1 s	w.	w.	0	0	fair	J. McWilliams.
Fort Garry, Manitoba*	29.31	744.5	30.14	765.5	50	10.0	80	s.	7	3.1		0	0			0	0	clear	James Stewart.
Halifax, N. S*	29.84	757.9	29.98	761.5	38	3.3	92	nw.	5	2.2			10 s			0.03	0.8	cloudy	A. Allison.
Kingston, Ontario*	29.76	755.9	30.11	764.8	45	7.2	53	n.	3	1.3		0	0			0	0	hazy	A. P. Knight, M. A.
Montreal, Quebec*	29.83	757.7	30.04	763.0	45	7.2	53	w.	2	0.9		5 c	0			0	0	fair	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.45	748.0	30.16	766.1	41	5.0	65	calm	0	0		0	0			0	0	clear	Rev. R. Mosley.
Port Dover, Ontario	29.46	748.3	30.16	766.1	42	5.6	66	nw.	7	3.1		0	0			0	0	clear	H. Morgan.
Port Stanley, Ontario	29.54	750.3	30.16	766.1	38	3.3	69	nw.	8	3.6		0	0			0	0	clear	M. Payne.
Quebec, Quebec*	29.68	753.9	30.01	762.2	37	2.8	53	nw.			1	0	2 s		nw.	0	0	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.65	753.1	30.12	765.0	38	3.3	44	nw.	6	2.7		0	0			0	0	clear	W. H. McIntyre.
Saugeen, Ontario*	29.45	748.0	30.18	766.6	42	5.6	82	calm	0	0		hz.	0			0	0	clear	
St. Andrews, N. B	29.95	760.7	30.00	762.0	36	2.2	67	n.	1	0.4		0	0			0.25	6.3	clear	
Sydney, C. B*	29.86	758.4	29.92	760.0	38	3.3	92	n.	2	0.9			10 n			0.06	1.5	cloudy	T. C. Hill, C. E
Toronto, Ontario*	29.77	756.1	30.16	766.1	45	7.2	47	n.	7	3.1		0	0			0	0	clear	Magnetic Observatory.
Yarmouth, N. S*	29.92	760.0	29.99	761.7	38	3.3	96	ne.	3	1.3			10 s		ne.	0.16	4.1	cloudy	Lt. F. E. Wilmot, R. N
Sub-series.																			
St. Johns, Newfoundland	29.84	757.9	30.10	764.5	41	5.0	100	w.	1	0.4		fg	fg.			0.10	2.5	foggy	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	29.74	755.4	29.77	756.1	65.0	18.3	73	w.	7.7	3.4		0	2 k			0	0	clear	John Duthie.
Cape Town, C. G. H. Obs'y	29.86	758.4	29.90	759.4	64.7	18.2	82	nw.	9	4.0		10	9			0.158	4.0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow	29.83	757.7	30.10	764.5	65.0	18.3	87	ene.			3		3			0.03	0.8		N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.64	752.8	29.67	753.5	64.4	18.0	93	w.	13.4	6.0		0	3 k			0.055	1.4	cloudy	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	30.19	766.8	30.24	768.0	50.2	10.1	56	n.	16	7			7						Oversergent Fischer.
Fanöe	30.27	768.9	30.29	769.4	53.8	12.1	50	nnw.			4		9						Overloerer Lauridsen.
Godthaab, Greenland	29.73	755.1	29.77	756.2	26.2	— 3.2	78	nne.			2		7			0.024	0.6		S. Kleinschmidt.
Stykkisholm, Iceland	29.87	758.6	29.91	759.7	41.7	5.4	78	se.			6		8						A. O. Thorlacius.
Thorshavn	30.37	771.5	30.41	772.4	49.1	9.5	84	wsw.	18	8			10						Overloerer Bergh.
Vestervig	30.22	767.7	30.32	770.0	50.0	10.0	55	n.			4		1						Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.37	746.1	30.01	762.2	63.7	17.6	49	nne.			1	0	2 k			0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.75	755.6	30.30	769.6	52.5	11.4	93	ne.			4		k		ne.	0	0		M. Nicot, Director.
Arras, Engineer School	30.02	762.5	30.28	769.1	52.7	11.5	55	se.			4	ck	0			0	0		M. Fénéon, Command't.
Avignon, Normal School	29.84	757.9	29.92	759.9	64.6	18.1	35	n.			4		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.64	752.9	30.21	767.2	53.8	12.1	45	e.			3		8			0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	30.03	762.8	30.30	769.7	54.5	12.5	41	ene.			3		8		ne.	0	0	very cloudy	M. Frère Eugène Marl.
Besançon, Normal School	29.14	740.1	30.03	762.7	51.6	10.9	48	ne.			2	0	5 n		ne.			raining	M. Gobin, Director.
Bordeaux, Observatory	29.75	755.7	30.01	762.3	61.9	16.6	35	ne.			2		0			0	0	clear	M. Rayet, Director.
Bourges, Normal School	29.62	752.3	30.17	766.2	56.3	13.5	30	nne.			2		k		nne.	0	0		M. Postel, Director.
Brest, Naval Observatory	30.03	762.7	30.27	768.9	55.8	13.2	45	ne.			3		3		ne.	0	0		M. de Kernaree, Dir.
Caen, Normal School	30.24	768.0	30.32	770.0	57.2	14	47	nne.			3		2		e.	0	0	slightly cl'dy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.88	758.9	30.20	767.1	55.2	12.9	39	e.			3		8	e.	e.	0.004	0.1	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.73	755.1	30.25	768.3	54.0	12.2	38	e.			1		5			0	0	½ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.73	729.7	30.09	764.2	53.6	12.0	37	n.			2		5		ne.	0	0	½ covered	M. Alluard, Director.
Cluny, Normal School	29.24	742.8	30.09	764.2	50.0	10	39	ne.			6		6		s.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.34	745.1	30.21	767.3	49.5	9.7	47	n.			3		5 kn	n.	n.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.26	692.4	29.74	755.5	62.2	16.8	29						k			0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.71	729.2	29.81	757.1	63.7	17.6	47	sw.			2		6		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.17	740.9	29.93	760.2	57.0	13.9	38	nw.			4	ck	0	ne.		0	0		M. Ablard, Director.
Guéret, Normal School	28.53	724.6	30.13	765.2	52.0	11.1	37	ene.			3	c	0	w.		0	0		M. Rivoire, Director.
Lamballe, Normal School	30.00	762.0	30.27	768.9	60.4	15.8	35	ne.			2		1		ne.	0	0	clear	M. Ollitrault, Director.
Lescar, Normal School	29.40	746.8	29.96	760.9	64.4	18	80	e.			1	0	1 k			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.17	766.2	30.27	768.8	63.3	17.4	57	ene.			6		0			0	0	clear	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.00	736.5	30.06	763.4	52.3	11.3	40	nne.			2		1 n	nne.	n.	0	0	clear	M. André, Director.
Mans, Normal School	29.94	760.4	30.25	768.3	54.1	12.3	47	e.			6		5		e.	0	0	cloudy	M. Piboen, Director.
Marseille, Observatory	29.61	752.1	29.88	758.9	63.3	17.4	51	wsw.			3		4		ssw.	0	0		M. Stephan, Director.
Montlouis	24.72	627.9	29.56	750.9	47.8	8.8	81	se.	9.4	4.2			9			0.047	1.2		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.76	755.9	29.88	759.0	67.3	19.6	39	nnw.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.41	747.0	30.20	767.1	49.3	9.6	42	n.			2		k		ne.	0.031	0.8		M. Hasse, Director
Nantes, Observatory	30.06	763.6	30.22	767.7	61.2	16.2	35	ene.			2–3	0	1 k		e.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.82	757.5	29.93	760.2	64.4	18.0	37	se.	9.4	4.2			2		w.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.15	537.3			39.6	4.2		sw.			1		1		sw.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	28.87	733.4	29.93	760.3	57.6	14.2	25	n.			4		5			0	0	cloudy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.11	637.8			29.5	— 1.4	89	ne.			4		8			0.008	0.2	¾ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	30.05	763.3	30.08	764.1	60.1	15.6	100	ene.			6		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.89	759.5	30.11	764.7	58.5	14.7	26	e.			4		0			0	0	clear	M. Mouillot, Director.
Rodez, Normal School	27.84	707.1	29.95	760.7	59.4	15.2	21	sw.			2		0			0	0	clear	M. Serger, Director.
Rouen, Normal School	30.26	768.7	30.31	769.9	56.1	13.4	43	e.			1		5		e.	0	0	cloudy	M. Brotier.
Saint Maur, Observatory	30.09	764.3	30.26	768.5	56.1	13.4	38	e.			3		4		e.	0	0		M. Renou, Director.
Toulouse, Observatory	29.26	743.3	29.99	761.7	69.8	21.0	43	ne.			1		1	w.		0	0	clear	M. Baillaud, Director.
Tours	30.01	762.3	30.19	766.8	58.1	14.5	44	ne.			4		2		ne.	0	0	slightly cl'dy	
Versailles, Observatory	29.76	756.0	30.26	768.5	52.5	11.4	37	e.			6					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.97	761.2	30.26	768.6	53.8	12.1	43	ne.			3		6		ne.	0	0		M. Marié Davy, Director
GERMAN.																			
Bamberg	29.29	743.9	30.15	765.7	50.0	10.0	33	ne.			5	0	2 s			0.039	1.0		Prof. Dr. Hoh.
Berlin	30.00	762.0	30.18	766.5	51.4	10.8	52	ne.			2		8			0.008	0.2		Prof. Dr. Arndt.
Breslau	29.60	751.7	30.13	765.2	47.8	8.8	56	n.			2		10			0.150	3.8	sprinkling	Royal University Obs'y.
Carlsruhe	29.73	755.2	30.18	766.6	45.1	7.3	77	n.			3		9	ne.		0.098	2.5	raining	Albert Senz.
Cassel	29.45	748.1	30.17	766.2	49.6	9.8	40	n.			6		8	ne.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.81	757.1	30.18	766.6	52.2	11.2	39	n.			3		6			0	0		Physical Society.
Friedrichshafen	28.62	727.0	30.08	763.9	48.6	9.2	49	nne.			6		8	ne.		0.224	5.7		Wilhelm, Chief Tel.
Hamburg	30.17	766.3	30.26	768.7	48.9	9.4	52	n.			3		7			0.035	0.9		E. Preller.
Kiel	30.25	768.4	30.27	768.8	49.1	9.5	51	n.			2		8			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.77	756.2	30.21	767.2	45.0	7.2	66	ne.			5		9	nw.		0.035	0.9	rain & hail	H. Leppig, Asst.
Magdeburg	30.03	762.7	30.22	767.6	45.5	7.5	76	nw.			2	0	7 ks		nw.	0.031	0.8		Dr. Assmann.
Memel	30.06	763.6	30.11	764.8	46.6	8.1	79	nw.			4	0	6 k						Issermann.
Munich	28.22	716.8	30.09	764.2	43.3	6.3	73	ne.			6		8	n.		0.008	0.2		Central Station.
Neufahrwasser	30.16	766.0	30.17	766.4	44.6	7.0	71	n.			3		3			0	0		A. Lothes.
Neustadt, Palatinate	29.61	752.2	30.14	765.6	49.1	9.5	66	n.			4		10	n.		0.079	2.0		Dicknether.
Stuttgart	29.16	740.6	30.06	763.6	50.9	10.5	47	n.			1		4	n.		0.051	1.3		Prof. Dr. Schoder.
Wustrow	30.25	768.4	30.28	769.0	49.1	9.5	57	n.			2	0	3 s			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.60	751.9			68.4	20.2		s.			3.0		8			0	0	misty	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.81	757.2	29.86	758.4	86.0	30.0	68	wsw.	27.0	12.1			6		w.	0	0	d. clouds	
Deesa	29.28	743.6	29.73	755.1	100.1	37.8	19	wnw.	14.2	6.4			8	wnw.		0	0	d. clouds	
Bombay	29.77	756.1	29.81	757.1	85.7	29.8	70	wnw.	20.0	8.9			1	nw.	wnw.	0	0	d. clouds	
Poona, Yarrowda	27.90	708.7	29.71	754.6	91.2	32.9	45	w.	32.0	14.3			8	s.	s.	0	0	d. clouds	
Bellary	28.35	720.0	29.84	757.8	72.2	22.3	94	nnw.	5.6	2.5			10			1.90	48.3	overcast	
Belgaum	27.25	692.2	29.81	757.1	71.8	22.1	74	sw.	8.0	3.6			10	nw.	nw.	0.06	1.5	thund'r st'm	
Lahore	29.02	737.0	29.74	755.3	95.2	35.1	23	w.	2.9	1.3			5			0	0	blue sky	
Roorkee	28.83	732.2	29.70	754.3	94.8	34.9	22	nw.	1.9	0.8			3			0	0		
Agra	29.18	741.3	29.73	755.1	96.6	35.9	26	nw.	3.2	1.4			2		n.	0	0		
Nagpur	28.65	727.8	29.66	753.4	95.3	35.2	32	sw.	4.2	1.9			7		w.	0	0	d. clouds	
Jubbulpore	28.41	721.5	29.75	755.7	81.8	27.7	49	s.	4.3	1.9			9		s.	0	0	overcast	
Lucknow	29.36	745.8	29.72	755.0	97.0	36.1	26	calm	0.4	0.2			0			0	0	blue sky	
Allahabad	29.40	746.9	29.71	754.5	98.7	37.1	25	calm	2.9	1.3			1			0.01	0.3	d. clouds	
Patna	29.54	750.4	29.72	755.0	94.7	34.8	40	ne.	3.8	1.7			2	ne.	ne.	0	0		
Hazaribagh	27.75	704.8	29.74	755.4	81.8	27.7	56	sw.	8.3	3.7			6	sw.	ne.	0	0		
Cuttack	29.68	753.7	29.76	755.8	90.3	32.4	62	s.	0.9	0.4			8			0	0	threatening	
Calcutta, Alipore	29.72	754.9	29.74	755.4	89.0	31.0	55	s.	3.0	1.3			7	sw.		0	0	d. clouds	
Dhubri	29.63	752.5	29.74	755.5	87.9	31.1	62	calm	2.2	1.0			0			0	0	blue sky	
Chittagong	29.70	754.4	29.79	756.6	83.3	28.5	74	w.	2.6	1.2			1			0	0	blue sky	
Sibsagar	29.43	747.5	29.76	756.0	84.2	29.0	73	s.	1.0	0.4			5	sw.	sw	0	0	d. clouds	
Jeypore	28.33	719.6	29.73	755.0	97.4	36.3	16	nw.	6.0	2.7			3		w.	0.02	0.5	d. clouds	
Zanzibar, Africa	29.96	761.0			83.1	28.4	74	s.	4.6	2.1			5		se.	0	0	d. clouds	
ITALIAN.																			
Udine	29.52	749.9	29.93	760.2	60.3	15.7	52	s.	8.1	3.6			5			0	0		Prof. Giovanni Clodig.
Milan	29.41	747.1	29.93	760.1	61.5	16.4	35	ne.	7.4	3.3			7	sse.		0.004	0.1		Prof. Schiaparelli.
Padua	29.82	757.5	29.93	760.3	59.2	15.1	39	ese.	1.3	0.6			2			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.02	737.0	29.91	759.7	57.0	13.9	44	n.	3.8	1.7			9	se.		0	0		Prof. P. F. Denza.
Genoa	29.66	753.4	29.85	758.3	63.7	17.6	34	n.	3.1	1.4			6	ne.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.00	711.2	29.93	760.2	50.0	10.0	64	w.			2		9			0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Velocity. Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	29.84	757.9	29.89	759.1	56.5	13.6	58	ne	13.0	5.8			8			0.197	5.0		Prof. Luigi Guidi.
Florence	29.61	752.0	29.86	758.4	62.1	16.7	38	ne.			6		5			0.106	2.7		Prof. Costantino Pitter.
Leghorn	29.71	754.7	29.80	756.9	62.1	16.7	45	nw.	9.8	4.4			4	wsw.		0	0		Prof. P. Monte.
Rome	29.61	752.2	29.79	756.6	60.3	15.7	73	n.	6.3	2.8			8	s.		0.138	3.5		Prof. P. S. Ferrari.
Lecce	29.60	751.8	29.85	758.1	70.7	21.5	60	ese.	37.8	16.9			5	se.		0	0		Prof. C. de Giorgi.
Cosenza	28.91	734.4	29.79	756.6	75.2	24.0	78	ssw.	3.1	1.4			9	sw.		0	0		Prof. D. Conti.
Cagliari	29.61	752.1	29.80	756.9	72.0	22.2	41	nw.			4		4	w.		0.008	0.2		Prof. A. Pacinotti.
Palermo	29.58	751.4	29.83	757.7	69.6	20.9	57	wnw.	22.4	10.0			2	sw.		0	0		Prof. G. Ciacciatore.
Syracuse	29.74	755.5	29.79	756.6	71.2	21.8	69	ssw.	9.8	4.4			10	sw.		0.039	1.0		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.26	743.1	29.77	756.1	68.0	20.0	70	se.	6.3	2.8			3	sw.		0	0		Prof. T. Brioschi.
Stelvio	21.97	558.1			41.4	5.2	90	ne.			4		10			1.075	27.3	covered	Prof. P. F. Denza.
Valdobbia	22.01	559.0			29.5	— 1.4	75	e.			2		10			0.709	18.0	covered	Prof. P. F. Denza.
JAPANESE.																			
Aomori	30.03	762.7	30.06	763.5	52.7	11.5	82	wsw.	4.0	1.8		0	0			0	0	clear	K. Ogawa.
Hakodate	30.02	762.5	30.03	762.7	54.0	12.2	64	w.	12.0	5.4			0			0	0	clear	
Hiroshima, I. M. Obs'y	30.01	762.2	30.03	762.7	61.2	16.2	80	nne.	2.0	0.9		10 cs	0			0	0	overcast	J. Sogawa.
Kanazawa	29.98	761.5	30.09	764.3	58.1	14.5	71	ese.	7.5	3.3		0	0			0	0	clear	S. Endo.
Kioto	29.92	759.9	30.10	764.5	59.0	15.0	84	sse.	2.6	1.2		0	0			0	0	clear	M. Tojima.
Kochi	30.09	764.3	30.11	764.8	65.1	18.4	79	nw.	3.2	1.4		cs	10 s		sw.	0	0	cloudy	K. Kusunose.
Nagasaki, I. M. Obs'y	29.79	756.6	29.99	761.7	67.1	19.5	65	se.	5.1	2.3			10 s			0.560	14.2	overcast	S. Takehayashi.
Niigata	30.10	764.5	30.13	765.3	53.9	12.2	88	e.	9.3	4.2		0	0			0	0	clear	M. Morita.
Nobiru	30.06	763.5	30.08	764.0	52.2	11.2	82	sse.	9.3	4.2		0	0			0	0	clear	H. Midzushina.
Sapporo					49.0	9.4	89	n.	3.0	1.3		0	0			0	0	clear	
Tokei Obs'y, Yeddo	30.02	762.5	30.09	764.3	61.9	16.6	89	se.	5.8	2.6		0	0			0	0	clear	The Staff.
Wakayama	30.03	762.7	30.09	764.3	64.7	18.2	81	s.	2.0	0.9		2 ck	0			0	0	fair	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.91	759.7	30.10	764.5	78.8	26.0	68	e.	7.5	3.4		0	5 k;n		s.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.69	601.8	29.91	759.8	64.4	18.0	60	calm	0	0		6 kcs	0	n.		0.079	2.0	fair	Prof. Vicente Fernandez.
Leon	24.28	616.7	29.90	759.4	61.5	16.4	80	nne.			1	1 c	0			0.394	10.0	foggy	Prof. M. Leal.
Mazatlan	29.60	752.0	29.86	758.5	71.5	21.9	95	n.	0.9	0.4		5 cs	0	sw.				foggy	F. Quijano, C. E.
Mexico, Central Obs'y	23.11	587.0	30.14	765.6	53.2	11.8	78	calm	0	0		0	0			0.122	3.1	fine	The Staff.
Morelia	24.17	614.0	30.22	767.6	61.7	16.5	75	se.			1	0	0			0	0	fine	M. Tena, M. D.
Pabellon, Aguascalientes	23.97	608.7	29.88	758.9	64.4	18.0	76	w.			1	3 c	0	w.		0.012	0.3	foggy	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.39	594.1	30.13	765.4	52.7	11.5	81	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
San Luis Potosi	24.22	615.0	30.15	765.6	61.4	16.3	71	e.			1	1	5	w.	w.	0.150	3.8	½ clouded	G. Barroeta, M. D.
Zacatecas	22.57	573.3	30.14	765.6	58.2	14.6	67					4 ck	0	nw.		0.067	1.8	½ clouded	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.36	771.1	30.36	771.1	55.0	12.8		n.			4					0	0		
Groningen	30.28	769.0	30.33	770.4	52.0	11.1		nne.			4					0.106	2.7		
Helder	30.35	771.0	30.35	771.0	50.7	10.4		n.			4					0	0		
Hellevoetsluis	30.34	770.6	30.34	770.6	53.8	12.1	57	nne.			3					0	0		
Utrecht	30.28	769.2	30.33	770.4	54.5	12.5	47	nne.			4					0	0	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	30.25	768.3	30.31	769.9	38.1	3.4	33	nnw.	18	8			3			0	0		
Brono	30.15	765.9	30.19	766.9	40.6	4.8	90	sw.	18	8			10			0.360	9.2	foggy	
Christiania	30.12	765.1	30.27	768.9	51.6	10.9	43	ne.	4	2			6			0	0		
Gjæsvær	30.06	763.6	30.09	764.2	39.7	4.3		nnw.			2		1						
Lodingen	30.06	763.6	30.11	764.8	34.9	1.6	94	ssw.			4		10			0.575	14.6	rain & snow	
PORTUGUESE.																			
Angra, Azores					57.6	14.2	67	ene.	9.8	4.4			5			0	0		Dr. J. A. Sampaio.
Campo Major	28.87	733.2	29.84	757.9	70.2	21.2	46	sw.	3.8	1.7			6			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	29.89	759.1	29.97	761.3	65.8	18.8	49	sw.					9			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.55	750.5	29.91	759.6	63.9	17.7	56	ssw.	11.9	5.3			3			0	0		The Staff.
Ponta Delgada, Azores	30.14	765.5	30.21	767.3	59.0	15.0	60	nnw.	15.0	6.7			3	ese.		0.102	2.6		
Saint Paul de Loando	29.75	755.6	29.95	760.7	77.0	25.0	93	w.	0.7	0.3			2	s.		0	0	foggy	
Serra da Estrella	25.13	638.3	29.81	757.1	50.7	10.4	76	sse.	17.4	7.8			9	se.		0.024	0.6	foggy	
RUSSIAN.																			
Akmolinski	28.85	732.9	29.88	759.0	75.2	24.0	29	e.	22	10		2 c	0			0	0		Major K. Lasarew.
Archangel	29.61	752.1	29.63	752.6	34.0	1.1	94	nw.	4	2			10			0.079	2.0		Capt. Sselliwerstow.
Astrakhan	29.98	761.5	29.90	759.4	65.7	18.7	67	nw.	24	11			9 ks			blank	blank		Capt. Wisganow.
Barnaul	29.58	751.2	30.06	763.4	68.9	20.5	35	n.	9	4			4			0	0	light clouds	Meteorological Obs'y.
Dorpat	29.79	756.0	30.04	762.9	49.3	9.6	47	w.	7	3			10 k			0	0		Observatory.
Ekaterinburg	28.97	735.8	29.88	759.0	70.3	24.6	51	s.	9	4		c	7 ks			0.421	10.7		Meteorological Obs'y.
Kasan	29.70	754.4	29.97	761.1	66.4	19.1	38	sw.	9	4		10 c	0			0	0		Observatory.
Kertch	29.94	760.4	29.96	760.9	68.0	20.0	77	e.	4	2		4 ck	0			0	0		Lagorio & Sastyrez.
Kieff	29.33	745.0	29.97	761.2	51.8	11.0	81	ese.	2	1			10 n			0.331	8.4	raining	Observatory.
Lugan	29.78	756.3	30.01	762.3	76.8	24.9	31	ssw.	13	6			6			0	0		Meteorological Obs'y
Moscow	29.39	746.5	29.85	758.3	59.0	15.0	37	ssw.	4	2			4 ks						Meteorological Obs'y.
Nikolaiev	29.91	759.8	29.98	761.6	68.5	20.3	54	se.	18	8		0	0			0.020	0.5		Capt. Kurdakow.
Nikolnievsk, on the Amoor	29.65	753.0	29.73	755.2	41.2	5.1	92	se.	18	8			10			0	0		Lieut. Iwanow.
Pekin, China	29.91	759.7	30.05	763.3	57.9	14.4	62	ne.	4	2		0	1 k			0	0		Physical Observatory
St. Petersburg	29.93	760.1	29.94	760.5	45.9	7.7	56	wnw.	13	6		0	2 k			0	0		Central Physical Obs'y.
Semipalatinsk	29.37	745.9	30.00	762.0	71.6	22.0	18	ne.	13	6			10			0	0	light clouds	Major Lasarew.
Tashkend, Laboratory	28.35	720.2	29.84	758.0	79.9	26.6	43	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.65	727.7	30.03	762.7	71.8	22.1	55	s.	9	4		0	3 k			0	0		Physical Observatory
Vladivostock	29.92	760.0	29.99	761.7	48.1	8.4	99	se.	9	4			10 n			0	0		
Warsaw	29.61	752.2	30.04	763.1	48.9	9.4	78	calm	0	0			10 ks						Astronomical Obs'y.
Wilna	29.60	751.8	30.02	762.5	53.2	11.8	59	nw.	2	1			9			0.028	0.7		Berg, Assistant.
Yeniseisk																			M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.83	757.6	29.92	760.0	61.9	16.6	65	ne.	2.5	1.1			10			0	0	covered	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.93	760.3	29.99	761.8	66.7	19.3	43	ne.	1.1	0.5		4	2	w.		0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.93	684.0	29.84	757.8	62.6	17.0	52	ne.	11.2	5.0			1			0	0	almost clear	Domingo Martin.
Madrid, Royal Obs'y	27.62	701.5	29.75	755.6	74.8	23.8	50	se.	6.9	3.1		0	5			0.146	3.7	cloudy	The Staff.
Murcia, Met. Obs'y	29.69	754.2	29.84	757.9	73.0	22.8	77	ene.	3.8	1.7		3	4	wsw.		0	0	cloudy	Olayo Diaz, Director.
Santiago, Met. Obs'y	28.91	734.4	29.78	756.5	68.4	20.2	56	e.	3.1	1.4			3			0	0	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	29.95	760.6	30.01	762.3	75.0	23.9	79	sse.	0	0		0	2 k		n.	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.83	757.7	29.89	759.2	85.9	29.9	72	sw.	12.1	5.4		0	8 n		w.	0	0	misty	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.81	757.1	29.91	759.6	66.4	19.1	69	w.	5.2	2.3		0	2		nw.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.94	760.5	30.03	762.8	79.9	26.6		s.	4.5	2.0		3 s	2 k	s.	s.	0	0		Manuel Maese.
Tuguegarao, Philippine Id's	29.76	755.9	29.89	759.2	78.1	25.6	84	n.	2.4	1.1		0	5 k		ne.	0.09	2.3	½ cloudy	Jose L. Yrastorza.
SWEDISH.																			
Haparanda	30.07	763.8	30.11	764.8	41.7	5.4	52	n.			4		8			0	0		
Umea	30.12	765.0	30.17	766.3	45.7	7.6	48	s.			4		5			0.012	0.3		
Hernosand	30.15	765.9	30.21	767.2	44.2	6.8	41	nne.			2		5			0.008	0.2		
Stockholm	30.04	763.0	30.22	767.5	42.4	5.8	50	nne.			6		10			0	0		
Wisby	30.08	763.9	30.13	765.4	42.8	6.0	79	ne.			6		0			0	0		
Sub-series.																			
Upsala	30.12	765.1	30.21	767.3	45.0	7.2	50	n.	14.8	6.6			9		n.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.58	725.9	30.02	762.4	50.9	10.5	45	ne.			3					0	0	clouds	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
TURKISH.																			
Constantinople			29.97	761.2	76.1	24.5	37	sw.	6	2.5			4		sw.	0	0		The Observatory.
Valona			29.96	760.9	73.8	23.2		sw.			1		10			0	0	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.01	762.3	71.1	21.7	74	nne.			3	0	0			0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.03	762.7	30.11	764.8	50	10.0	64	calm	0	0		hz.	hz.			0.03	0.8	clear	J. O. Barnes.
Alpena, Michigan	29.55	750.6	30.21	767.3	40	4.4	48	nw.	8	3.6		0	0			0	0	clear	Jas. J. Fitzgerald.
Atlanta, Georgia	28.90	734.0	30.07	763.8	50.0	10.0	74	nw.	8	3.6		0	0			0	0	clear	H. Hall.
Atlantic City, New Jersey	30.10	764.5	30.10	764.5	47	8.3	77	e.	12	5.4		0	0			0	0	clear	Jas. M. Watson.
Augusta, Georgia	29.87	758.7	30.06	763.5	53	11.7	80	nw.	3	1.3		1 c	0	nw.		0.13	3.3	clear	John Healy.
Baltimore, Maryland	30.07	763.8	30.12	765.0	53	11.7	80	n.	3	1.3			10n;fog		n.	0.11	2.8	light rain	Robert Seybolt.
Barnegat, New Jersey	30.09	764.3	30.11	764.8	46.8	8.2	87	e.	7	3.1		0	4 k		nw.	0.03	0.8	fair	Chas. F. Merritt.
Bismarck, Dakota	28.28	718.3	30.06	763.5	54	12.2	64	s.	8	3.6		1 c	0	s.		0	0	clear	Cyrus Cramer.
Boise City, Idaho	27.20	690.9	30.04	763.0	42	5.6	76	nw.	2	0.9			10 s		calm	0	0	cloudy	B. E. Light.
Boston, Massachusetts	29.93	760.2	30.09	764.3	42.0	5.6	65	nw.	9	4.0		0	0			0.16	4.1	clear	O. B. Cole.
Brownsville, Texas	29.96	761.0	30.00	762.0	78	25.6	82	e.	4	1.8		9 k	0	e.		0	0	cloudy	M. McCarty.
Buffalo, New York	29.40	746.7	30.14	765.5	43.5	6.4	52	w.	2	0.9		0	0			0	0	clear	Wm. Finn.
Burlington, Vermont	29.78	756.4	30.07	763.8	43.7	6.5	52	calm	0	0		0	0			0	0	clear	G. C. Schaeffer.
Cairo, Illinois	29.86	758.4	30.26	768.6	50.6	10.3	63	n.	8	3.6		0	0			0	0	clear	W. H. Ray.
Campo, California	27.39	695.7	29.92	760.0	33.6	0.9	81	s.	3	1.3		0	0			0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.17	690.1	29.84	757.9	48	8.9	46	s.			1	0	0			0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.06	763.5	30.08	764.0	51	10.6	80	ne.	21	9.4		5 k;c	0	ne.		0	0	fair	J. E. Lanouette.
Cape May, New Jersey	30.07	763.8	30.10	764.5	49	9.4	77	calm	0	0		0	0			0	0	clear	W. Bolten.
Cedar Keys, Florida	30.04	763.0	30.06	763.5	63	17.2	73	calm	0	0		0	0			0	0	clear	F. W. Mixer.
Champaign, Illinois	29.41	747.0	30.21	767.3	41.5	5.3	69	n.	7	3.1		0	0			0	0	clear	L. A. Welsh.
Charleston, S. Carolina	29.93	760.2	29.98	761.5	56.5	13.6	80	nw.	6	2.7		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.16	740.7	30.00	762.0	50.0	10.0	86	ne.	6	2.7			10 s		ne.	0.19	4.8	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.30	744.2	30.11	764.8	49.0	9 4	71	w.	6	2.7		0	0			0.15	3.8	clear	B. L. Goulding.
Cheyenne, Wyoming	24.10	612.1	29.97	761.2	41.2	5.1	92	sw.	5	2.2			fg.			0.34	8.6	dense fog	E. McGovern.
Chicago, Illinois	29.53	750.0	30.23	767.8	43.2	6.2	67	n.	4	1.8		hz.	hz.			0	0	clear	J. Mitchell.
Chincoteague, Virginia	30.06	763.5	30.08	764.0	49	9.4	77	e.	8	3.6		0	8 k		ne.	0	0	cloudy	V. P. Temple.
Cincinnati, Ohio	29.53	750 0	30.18	766.6	46	7.8	60	n.	10	4.5		0	0			0	0	clear	R. B. Watkins.
Cleveland, Ohio	29.44	747.8	30.17	766.3	45	7.2	87	ne.	4	1.8		0	0			0	0	clear	J. B. Newlin.
Coleman City, Texas	28.25	717.5	30.04	763.0	65	18.3	78	e.	7	3.1			10 s		s.	0	0	cloudy	L. Dorman.
Columbus, Ohio	29.31	744.5	30.15	765.8	43	6.1	74	n.	5	2.2		0	0			0	0	clear	D. Cuthbertson.
Concho, Texas	28.09	713.5	29.99	761.7	67	19.4	78	e.	6	2.7			10 s		s.	0	0	cloudy	W. W. McConlhe.
Davenport, Iowa	29.61	752.1	30.25	768.3	45	7.2	60	calm	0	0		1 cs	hz.	calm	calm	0	0	dense haze	R. R. Martin.
Dayton, Washington T'y	28.20	716.3	29.95	760.7	38.8	3.8	90	sw.	11	4.9			10 s		sw.	inap.	inap.	threatening	H. Clifford.
Deadwood, Dakota	25.43	645.9	29.94	760.5	46	7.8	80	sw.	5	2.2		1 c	0	w.		0	0	clear	G. W. Scott.
Decatur, Texas					60	15.6	60	se.	4	1.8		0	2 ks		s.	0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	30.09	764.3	30.11	764.8	48	8.9	77	e.	10	4.5		6 c;k	0			0	0	fair	A. Schneider.
Denison, Texas	29.33	745.0	30.12	765.0	58.0	14.4	81	calm	0	0		9 ck	0			0	0	cloudy	J. McGlone.
Denver, Colorado	24.78	629.4	29.94	760.5	51.0	10.6	74	s.	9	4.0		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.37	746.0	30.26	768.6	42	5.6	82	calm	0	0		0	fg.			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.51	749.5	30.21	767.3	44.0	6.7	60	n.	5	2.2		0	0			0	0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.54	699.5	30.09	764.3	53	11.7	72	sw.	5	2.2			10 s			0	0	cloudy	E. A. Thomas.
Dubuque, Iowa	29.55	750.6	30.25	768.3	44.7	7.1	76	ne.	1	0.4		0	0			0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.56	750.8	30.26	768.6	40	4.4	65	ne.	1	0.4		hz.	hz.			0	0	dense haze	N. B. Conger.
Eagle Pass, Texas	29.19	741.4	29.99	761.7	73.2	22.9	84	se.	6	2.7			10 s			0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.23	640.8	29.91	759.7	40	4.4	67	sw.	5	2.2		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.95	760.7	30.02	762.5	36.5	2.5	81	n.	7	3.1		0	0			0.31	7.9	clear	J. H. Melton.
El Paso, Texas	26.19	665.2	29.83	757.7	51	10.6	43	nw.	1	0.4		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.43	747.5	30.15	765.8	45	7.2	83	calm	0	0		0	0			0	0	clear	R. H. Paxton.
Escanaba, Michigan	29.59	751.6	30.25	768.3	40	4.4	40	nw.	1	0.4		0	0			0	0	clear	C. Dill.
Fort Apache, Arizona	25.00	635.0	29.82	757.4	35	1.7	69	ne.	2	0.9		0	0			0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.11	688.6	29.95	760.7	39	3.9	92	ne.	10	4.5		0	1 s		se.	0.21	5.3	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.46	722.9	30.02	762.5	55.0	12.8	64	se.	9	4.0		4 k	4 s	calm	calm	inap.	inap.	cloudy	A. Pritchard.
Fort Benton, Montana	27.08	687.8	29.87	758.7	48	8.9	71	s.	22	9.8		5 c	0			0.01	0.3	fair	G. W. Davis.
Fort Buford, Dakota	28.05	712.5	30.03	762.7	42	5.6	83	calm	0	0		0	0			0.22	5.6	clear	A. H. Bell.
Fort Custer, Montana	26.79	680.5	29.89	759.2	43	6.1	93	nw.	2	0.9		0	0			inap.	inap.	clear	V. Verge.
Fort Davis, Texas	25.12	638.0	29.84	757.9	56	13.3	45	sw.	2	0.9		0	0			0	0	clear	J. Williams.
Fort Elliott, Texas	27.31	693.7	30.01	762.2	50	10.0	80	e.	4	1.8		9 k	0	e.		0	0	cloudy	W. J. Cundall.
Fort Gibson, Indian T'y																			J. B. Campbell.
Fort Grant, Arizona	25.19	639.8	29.80	756.9	55	12.8	20	e.	4	1.8		3 c	0			0	0	clear	T. J. Macgowan.
Fort Keogh, Montana	27.49	698.2	29.94	760.5	42	5.6	76	e.	5	2.2		3 c	0			0.03	0.8	clear	W. B. Stockman.
Fort Macon, North Carolina	29.94	760.5	29.96	761.0	57	13.9	80	ne.	19	8.5		9 k	0	ne.		0.11	2.8	cloudy	L. Leonardy.
Fort McKavett, Texas	27.82	706.6	30.06	763.5	67	19.4	70	se.	10	4.5			10 s			0	0	cloudy	J. E. Thatcher.
Fort Missoula, Montana	26.54	674.1	29.84	757.9	37	2.8	82	sw.	2	0.9		5 k	0			0.03	0.8	fair	J. H. Jones.
Fort St. Michaels, Alaska	30.27	768.8	30.30	769.6	27	— 2.8	88	ne.	2	0.9		0	0			0	0	clear	A. P. Leavitt.
Fort Shaw, Montana	26.25	666.7	29.85	758.2	30	2.2	92	w.	5	2.2		6 k	0	sw.		0.04	1.0	fair	A. L. Mathews.
Fort Sill, Indian Territory	28.90	734.0	30.12	765.0	57.5	14.2	73	e.	2	0.9		3 ck	0	sw.		0	0	clear	T. Cleary.
Fort Stevenson, Dakota	28.20	716.3	30.03	762.7	52	11.1	80	calm	0	0		1 cs	0			0	0	clear	W. Burrows.
Fort Verde, Arizona					45	7.2	29	nw.			1	0	0			0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.43	620.5			34.4	1.3	65	calm	0	0		0	7 s		w.	0	0	fair	T. M. Ambler.
Fredericksburg, Texas	28.31	719.1	30.03	762.7	65	18.3	90	s.	2	0.9		6 k	0	sw.		0	0	fair	H. S. Miles.
Galveston, Texas	30.05	763.3	30.10	764.5	70	21.1	66	se.	8	3.6		3 c	6 k	w.	e.	0	0	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.58	751.3	30.24	768.1	47.5	8.6	48	ne.	1	0.4		0	0			0	0	clear	W. A. Reid.
Hatteras, North Carolina	29.96	761.0	29.98	761.5	53	11.7	48	ne.	25	11.2		9 k	0	ne.		0	0	cloudy	R. M. Crawford.
Helena, Montana	25.66	651.8	29.83	757.7	40	4.4	73	calm	0	0		6 k	0			0.01	0.3	fair	S. Wheaton.
Henrietta, Texas	29.13	739.9	30.11	764.8	60.0	15.6	70	ne.	6	2.7			10 s			0	0	cloudy	J. W. Byram
Huron, Dakota	28.82	732.0	30.17	766.3	45.2	7.3	86	se.	7	3.1		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.40	746.7	30.19	766.8	47	8.3	56	ne.	4	1.8		0	0			0	0	clear	O. Schutze
Indianola, Texas	30.02	762.5	30.05	763.3	74.0	23.3	76	se.	19	8.5		5 k	0	w.		0	0	fair	I. A. Reed.
Jacksboro, Texas	28.94	735.1	30.09	764.3	62	16.7	78	se.	8	3.6			10 ks		se.	0	0	cloudy	J. P. Sherry.
Jacksonville, Florida	29.99	761.7	30.03	762.7	64	17.8	63	w.	4	1.8		0	0			0	0	clear	J. W. Smith.
Keokuk, Iowa	29.60	751.8	30.25	768.3	49.0	9.4	71	calm	0	0		0	hz			0	0	clear	F. Z. Gosewisch
Key West, Florida	29.97	761.2	29.99	761.7	78.0	25.6	69	n.	12	5.4		0	4 k		n.	0	0	fair	L. M. Melbourne.
Kittyhawk, North Carolina	30.04	763.0	30.06	763.5	50	10.0	77	ne.	31	13.9		0	1 k		e.	0.23	5.8	clear	E. A. Beals.
Knoxville, Tennessee	29.08	738.6	30.10	764.5	43.8	6.6	100	calm	0	0		7 k	0	n.		0.41	10.4	fair	J. A. Cody.
La Crosse, Wisconsin	29.46	748.3	30.22	767.6	51	10.6	46	s.	2	0.9		0	0			0	0	clear	S. C. Emery.
La Mesilla, New Mexico	26.05	661.7	29.81	757.2	47.0	8.3	54	calm	0	0		0	0			0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.37	746.0	30.25	768.3	49	9.4	63	calm	0	0		0	0			0	0	clear	A. W. Browne.
Lewiston, Idaho	29.04	737.6	29.88	758 9	46.0	7.8	80	s.	4	1.8			10 s		se.	0	0	cloudy	J. M. Burlew.
Little Rock, Arkansas	29.85	758.2	30.16	766.1	55	12.8	74	ne.	4	1.8		0	0			0	0	clear	W. U. Simmons.
Los Angeles, California	29.65	753.1	30.05	763.3	44.0	6.7	83	n.	4	1.8		0	0			0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.58	751.3	30.13	765.3	47	8.3	68	n.	7	3.1		0	0			0	0	clear	H. O. Smyth.
Lynchburg, Virginia	29.41	747.0	30.09	764 3	54.5	12.5	68	calm	0	0		0	0			inap.	inap.	clear	W. R. Bushby.
Madison, Wisconsin	29.25	742.9	30.25	768.3	41	5.0	82	e.	2	0.9		0	0			0	0	clear	C. A. Shaw.
Marquette, Michigan	29.54	750.3	30.26	768.0	47	8.3	35	calm	0	0		0	hz.			0	0	clear	J. Gilligan.
Memphis, Tennessee	29.86	758.4	30.20	767.1	53	11.7	48	ne.	4	1.8		0	0			0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.50	749.3	30.24	768.1	43	6.1	68	n.	8	3.6		0	0			0	0	clear	W. Linn.
Mobile, Alabama	30.10	764.5	30.14	765.5	59	15.0	75	n.	3	1.3		0	0			0	0	clear	J. D. Paxton.
Montgomery, Alabama	29.89	759.2	30.12	765.0	53.6	12.0	67	n.	1	0.4		0	0			0	0	clear	J. B. McLaughlin.

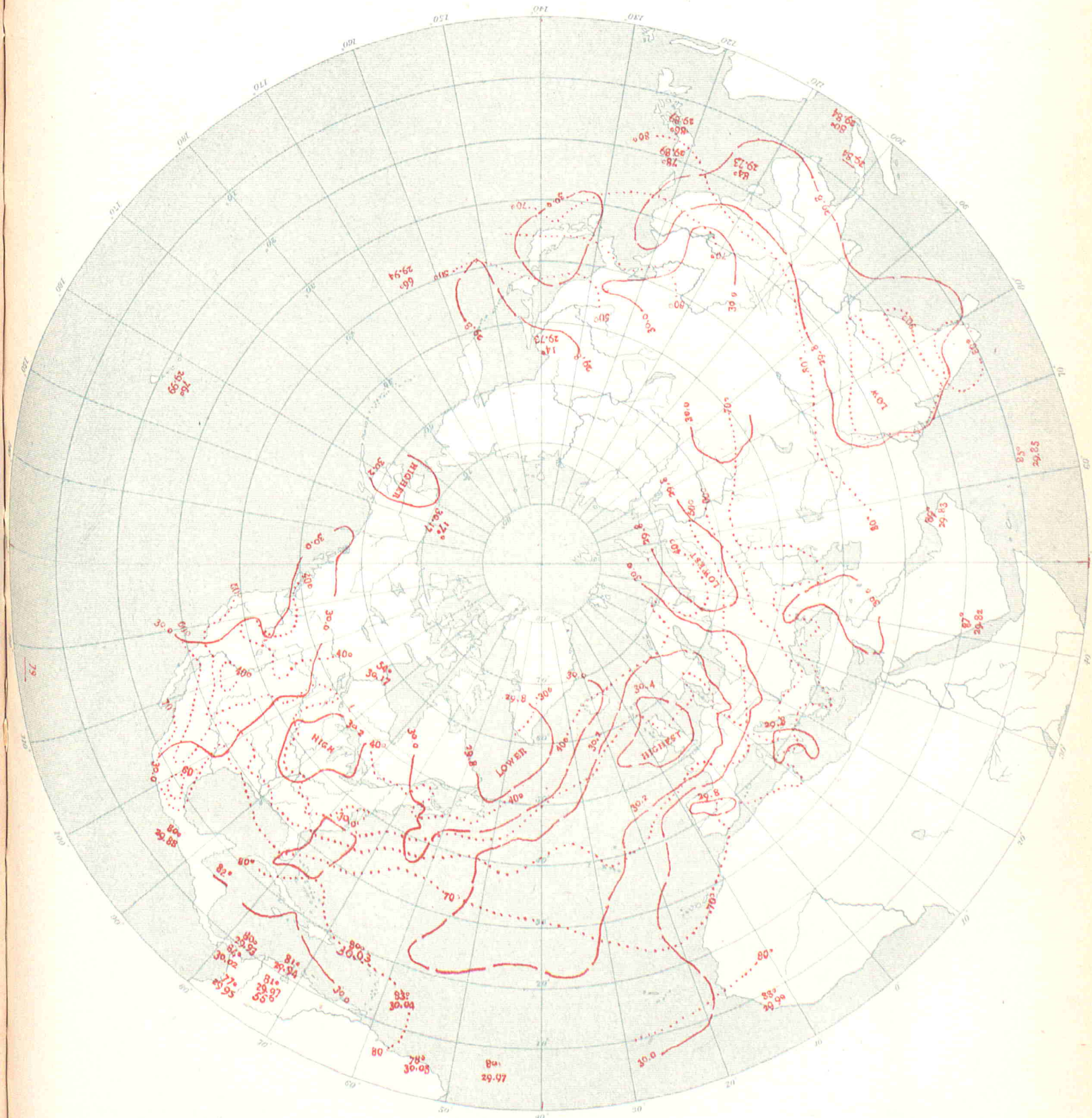
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Moorhead, Minnesota	29.20	741.7	30.18	766.6	45.2	7.3	76	s.	8	3.6	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.09	738.9	30.10	764.5	49.0	9.4	86	calm	0	0	.....	0	2 k	.....	.....	0	0	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.67	601.2	29.85	758.2	19.0	— 7.2	68	n.	47	21.0	.....	0	0	.....	.....	0.19	4.8	clear	J. G. Linsley.
Nashville, Tennessee	29.62	752.3	30.15	765.8	48.0	8.9	71	w.	2	0.9	.....	0	fg.	.....	.....	inap.	inap.	clear	L. A. Jesunofsky.
New Haven, Connecticut	29.99	761.7	30.11	764.8	43	6.1	83	ne.	4	1.8	.....	8 c	fg.	.....	.....	inap.	inap.	cloudy	J. H. Sherman.
New London, Connecticut	30.04	763 0	30.09	764.3	44	6.7	76	n.	3	1.3	.....	5 k	0	calm	.....	0.03	0.8	fair	J. G. Lynch.
New Orleans, Louisiana	30.06	763.5	30.11	764.8	67.0	19.4	68	ne.	5	2.2	.....	0	sk.	.....	.....	0	0	clear	L. Dunne.
Newport, Rhode Island	30.03	762.7	30.08	764.0	44.3	6.8	67	n.	7	3.1	.....	5 c	2 ks	e.	sw.	0	0	fair	W. McGillivray.
New River, N. Carolina	.....	.....	.....	.....	51	10.6	81	ne.	.....	.....	2	.....	10 s	.....	e.	0	0	threatening	C. C. Corbin.
New Shoreham, Rhode I'd.	30.06	763.5	30.09	764.3	42.0	5.6	73	n.	12	5.4	.....	4 cs	3 s	.....	ne.	0	0	fair	W. Davis.
New York, New York	29.94	760.5	30.12	765.0	45	7.2	83	se.	1	0.4	.....	4 cs	0	.....	.....	0	0	fair	E. B. Garriott.
Norfolk, Virginia	30.03	762.7	30.06	763.5	54	12.2	66	ne.	3	1.3	.....	4 c	3 s	w.	.....	0	0	fair	J. T. Elker.
North Platte, Nebraska	27.23	691.6	30.10	764.5	53.6	12.0	68	se.	8	3.6	.....	0	3 s	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.00	762.0	30.06	763.5	45.0	7.2	83	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. Dascomb.
Omaha, Nebraska	29.11	739.4	30.27	768.8	51.6	10.9	64	calm	0	0	.....	0	0	.....	.....	0	0	clear	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.15	765.8	30.17	766.3	17.3	— 8.2	100	se.	4	1.8	.....	4 c	fg.	.....	.....	0	0	foggy	P. H. Ray.
Oswego, New York	29.76	755.9	30.09	764.3	45.0	7.2	76	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	S. W. Beall.
Palestine, Texas	29.58	751.3	30.12	765.0	59.0	15.0	81	ne.	6	2.7	.....	5 ck	0	w.	.....	0	0	fair	L. M. Pindell.
Pensacola, Florida	30.09	764.3	30.12	765.0	61.8	16.6	56	n.	6	2.7	.....	0	3 s	.....	nw.	0	0	clear	M. McGauran.
Philadelphia, Pa.	30.01	762.2	30.11	764.8	50	10.0	77	se.	1	0.4	.....	3 ck	sk.	nw.	w.	0	0	fair	T. F. Townsend.
Pike's Peak, Colorado	17.81	452.4	29.87	758.7	16	— 8.9	76	sw.	8	3.6	.....	0	1 k	.....	.....	0	0	clear	L. M. Dey.
Ploche, Nevada	23.94	608.1	29.86	758.4	43	6.1	30	s.	4	1.8	.....	6 c	0	calm	.....	0	0	fair	C. N. Kitchel.
Pittsburg, Pennsylvania	29.30	744.2	30.10	764.5	48.0	8.9	56	ne.	3	1.3	.....	7 k	0	n.	.....	0	0	fair	J. H. Bryce.
Poplar River, Montana	27.92	709.2	.....	.....	.....	.....	.....	se.	.....	.....	1	0	0	.....	.....	0.10	2.5	clear	U. D. Maxwell.
Port Eads, Louisiana	30.11	764.8	30.12	765.0	67.1	19.5	63	n.	12	5.4	.....	0	0	.....	.....	0	0	clear	H. G. Christian.
Port Huron, Michigan	29.53	750.0	30.21	767.3	42.6	5.9	57	n.	8	3.6	.....	0	sk.	.....	.....	0	0	clear	W. O. Bailey.
Portland, Maine	30.00	762.0	30.05	763.3	44.0	6.7	68	n.	3	1.3	.....	0	0	.....	.....	0.10	2.5	clear	D. C. Murphy.
Portland, Oregon	30.03	762.7	30.10	764.5	44.8	7.1	83	s.	8	3.6	.....	.....	10 n	.....	s.	0.09	2.3	light rain	M. L. Hearne.
Portsmouth, N. Carolina	.....	.....	.....	.....	56	13.3	69	ne.	28	12.5	.....	6 k	1 ks	n.	ne.	0.10	2.5	fair	F. P. Chaffee.
Prescott, Arizona	24.75	628.6	29.85	758.2	38	3.3	41	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. McN. Wright.
Provincetown, Mass.	30.04	763.0	30.07	763.8	42	5.6	73	n.	11	4.9	.....	2 k	2 s	nw.	.....	0.16	4.1	fair	P. T. Jenkins.
Punta Rassa, Florida	29.99	761.7	30.00	762.0	67	19.4	57	n.	10	4.5	.....	0	0	.....	.....	0	0	clear	W. J. Evans.
Red Bluff, California	29.76	755.9	30.13	765.3	48.2	9.0	86	w.	3	1.3	.....	0	1 s	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.77	756.1	30.01	762.2	74	23.3	90	se.	8	3.6	.....	.....	10 ks	.....	se.	1.60	40.6	cloudy	P. M. Wilson.
Rochester, New York	29.45	748.0	30.11	764.8	43	6.1	68	w.	9	4.0	.....	0	hz.	.....	.....	0	0	clear	F. Gillam.
Roseburg, Oregon	29.59	751.6	30.14	765.5	43.7	6.5	84	e.	1	0.4	.....	.....	10 s	.....	sw.	0.19	4.8	threatening	J. J. Nanry.
Sacramento, California	30.06	763.5	30.14	765.5	45.4	7.4	83	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.65	753.1	30.24	768.1	44.6	7.0	78	n.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. H. Webber.
St. Paul, Minnesota	29.38	746.2	30.22	767.6	49.0	9.4	56	calm	0	0	.....	1 cs	0	.....	.....	0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.27	743.4	30.13	765.3	50	10.0	77	se.	10	4.5	.....	0	hz.	.....	calm	0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.50	647.7	29.82	757.4	53	11.7	50	se.	7	3.1	.....	.....	10 s	.....	.....	0	0	cloudy	J. Craig.
San Antonio, Texas	29.33	745.0	30.03	762.7	69	20.6	78	e.	6	2.7	.....	.....	10 s	.....	calm	0	0	cloudy	E. Lane.
San Diego, California	29.92	760.0	29.99	761.7	51.0	10.6	90	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.51	749.5	30.18	766.6	44.2	6.8	68	n.	8	3.6	.....	0	0	.....	.....	0	0	clear	M. H. Perry.
Sandy Hook, New Jersey	30.06	763.5	30.10	764.5	47.0	8.3	86	e.	2	0.9	.....	1 c	0	calm	.....	0.01	0.3	clear	B. A. Blundon.
San Francisco, California	30.09	764.3	30.16	766.1	51.5	10.8	90	w	6	2.7	.....	1 ck	fg.	w	w.	0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.22	589.8	29.84	757.9	47	8.3	35	se.	13	5.8	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Savannah, Georgia	29.92	760.0	30.01	762.2	60	15.6	60	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	H. W. Ford.
Shreveport, Louisiana	29.89	759.2	30.13	765.3	58	14.4	86	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	E. N. Meekins.
Silver City, New Mexico	24.24	615.7	29.79	756.7	44	6.7	37	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. B. Wallace.
Sitka, Alaska	29.89	759.2	29.95	760.7	34	1.1	79	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. J. McLean.
Smithville, North Carolina	29.92	760.0	29.90	761.0	55	12.8	93	ne.	8	3.6	.....	1 ck	3 ks	w.	ne.	0.07	1.8	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.85	707.4	29.90	759.4	40	4.4	82	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	D. Moore.
Springfield, Illinois	29.59	751.6	30.26	768.6	43.8	6.6	63	n.	7	3.1	.....	0	0	.....	.....	0	0	clear	T. B. Jennings.
Springfield, Massachusetts	29.97	761.2	30.10	764.5	45.6	7.6	76	w.	1	0.4	.....	1 c	fg.	.....	.....	0.01	0.3	clear	T. S. Outram.
Springfield, Mo.	28 76	730.5	30.24	768.1	49.5	9.7	71	e.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. B. Marbury.
Starkville, Miss.	29.71	754.6	.....	.....	53	11.7	80	n.	5	2.2	.....	0	hz.	.....	.....	0	0	clear	M. J. Wright.
Stockton, Texas	26.92	683.8	29.93	760.2	64.3	17.9	90	se.	20	8.9	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Thatcher's Island, Mass.	30.06	763.5	30.11	764.8	44.3	6.8	80	ne.	12	5.4	.....	0	0	.....	.....	0.39	9.9	clear	F. R. Day.
Toledo, Ohio	29.49	749.0	30.17	766.3	41	5.0	57	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	A. Buell.
Tucson, Arizona	27.50	698.5	29.84	757.9	54	12.2	40	s.	3	1.3	.....	1 c	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.65	753.1	30.02	762.5	44.5	6.9	88	sw.	4	1.8	.....	.....	10 n	.....	sw.	0.06	1.5	light rain	J. Daly.
Uvalde, Texas	29.04	737.6	29.99	761.7	71	21.7	84	se.	8	3.6	.....	.....	10 ks	.....	se.	0.02	0.5	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.89	759.2	30.14	765.5	59	15.0	65	e.	8	3.6	.....	3 ck	0	.....	.....	0	0	clear	H. T. Brisbane.
Visalia, California	29.69	754.1	30.06	763.5	48	8.9	67	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. L. Seward.
Washington, D. C.	29.99	761.7	30.10	764.5	50.2	10.1	90	calm	0	0	.....	.....	10 n	.....	.....	0.06	1.5	light rain	B. M. Purssell.
West Las Animas, Colorado	26.12	663.4	29.98	761.5	52.5	11.4	75	e.	26	11.6	.....	0	8 s	.....	sw.	0	0	cloudy	J. Grover.
Williamsport, Pa.	29.52	749.8	30.12	765.0	45	7.2	68	w.	6	2.7	.....	0	hz.	.....	.....	0	0	clear	B. F. Hough.
Wilmington, N. Carolina	29.93	760.2	29.98	761.5	54	12.2	93	n.	4	1.8	.....	.....	10 n	.....	.....	0.42	10.7	heavy rain	A. T. Sherwood.
Winnemucca, Nevada	25.60	650.2	29.95	760.7	38	3.3	37	sw.	16	7.2	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Yankton, Dakota	28.92	734.6	30.20	767.1	46	7.8	63	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. H. Atfield.
Yuma, Arizona	29.68	753.9	29.83	757.7	59.0	15.0	65	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.05	560.1	.....	.....	55.0	12.8	77	ne.	1	0.4	.....	2 ck	2ks;s	.....	w.	0.41	10.4	fair	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.04	763.0	30.04	763.0	83	28.3	87	ne.	.....	.....	.....	5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.92	760.0	29.95	760.7	77	25.0	90	ne.	4	1.8	.....	.....	10 ks	.....	n.	0.80	20.3	cloudy	J. I. Plume.
Havana, Cuba, W. I.	30.00	762.0	30.04	763.0	79	26.1	74	calm	0	0	.....	0	2 ks	.....	calm	inap.	inap.	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	29.99	761.7	30.00	762.0	79.8	26.6	82	e.	2	0.9	.....	.....	10 n; s	.....	e.	1.39	35.3	.....	Robert Johnston.
Magua, San Domingo, W. I	.....	.....	.....	.....	73	22.8	.....	calm	.....	.....	0	7 ks	0	.....	.....	0	0	.....	S. M. Pike.
Navassa, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. M. Everett.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	78	25.6	91	e.	.....	.....	2	4 c	5 k	e.	e.	0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.51	749.5	29.97	761.2	81	27.2	72	calm	.....	.....	0	.....	10 s	.....	calm	0	0	foggy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	97	se.	.....	.....	1	0	4 ks	.....	se.	0	0	fair	Earl Flint.
Santiago de Cuba, W. I.	29.98	761.5	30.00	762.0	75	23.9	90	nw.	1.2	0.5	.....	7 cs	3 s	.....	nw.	2.21	56.1	cloudy	Robert Mason.
York Factory, B. A.	30.12	765.0	30.17	766.3	54.0	12.2	97	se.	9	4.0	.....	2 k	1 s	s.	se.	0	0	fair	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	Upper. 0-10	Lower. 0-10	Upper. From.	Lower. From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Alert, Port Mozambique, Mozambique	30.03	762.7	81.5	27.5	74	ese.			1		2							d. clouds.
H. M. S. Alexandra, Suda Bay, Turkey in Europe	29.99	761.7	69.5	20.9	73	se.			1		10							overcast.
H. M. S. Amethyst, N. 20° 50′, W. 23° 17′	30.02	762.5	72	22.2	93	nne.			2		4	ssw.				2	n.	d clouds.
H. M. S. Champion, N. 2° 30′, W. 117° 00′			79	26.1	86	e.			2		5	sw.				3	se.	d. clouds.
H. M. S. Cleopatra, N. 16° 27′, E. 110° 47′	29.73	755.1	83.5	28.6	91	ssw.			3		4							d. clouds.
H. M. S. Comus, Singapore, Malay Peninsula	29.84	757.9	79.5	26.4	?	sw.			1		6	s.						d. clouds.
H. M. S. Condor, Brindisi, Italy	29.82	757.4	70	21.1		se.			3-5		6	s.					sse.	squally.
H. M. S. Coquette, Alexandria, Egypt	30.10	764.5	71	21.7		wnw.			1		1	nnw.						blue sky.
H. M. S. Dido, N. 13° 05′, W. 59° 30′	30.02	762.5	80	26.7		e.			3		3	e.						d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	30.03	762.7	78	25.6	71	sse.			4-5		6	sse.						d. clouds.
H. M. S. Druid, N. 16° 18′, W. 86° 35′	30.18?	766.6?	81.5	27.5	87	ene.			1		8	e.						misty.
H. M. S. Dwarf, S. 34° 36′, W. 58° 19′	30.12	765.0	49	9.4	100	nnw.			2-3		10					2	n.	
H. M. S. Eclipse, S. 18° 58′, E. 42° 30′	29.99	761.7	81	27.2		calm			0		0							blue sky.
H. M. S. Emerald, S. 52° 00′, W. 153° 40′	29.50	749.3	49	9.4	?	w.			3-4		10					5	w.	misty.
H. M. S. Euryalus, Trincomalee, Ceylon	29.80	756.9	85	29.4	87	ene.			1		9	calm						d. clouds.
H. M. S. Fantome, N. 11° 04′, W. 71° 43′	29.94	760.5	81	27.2		e.			2		7	e.				2	e.	d. clouds.
H. M. S. Flying Fish, N. 33° 08′, E. 128° 22′			62	16.7	94	w.			2		10					3	s.	drizzling.
H. M. S. Fawn, N. 5° 34′, E. 61° 29′	29.85	758.2	84.5	29.2	75	sw.			1		6	sw.				1	sw.	d. clouds.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.03	762.7	54.5	12.5	83	e.			2		5							misty.
H. M. S. Garnet, Colonia, Rio de La Plata, Uruguay	29.93	760.2	46	7.8	92	n.			3		3							d. clouds.
H. M. S. Griffon, Halifax, Nova Scotia	30.15	765.8	42	5.6	83	nw.			1		6							raining.
H. M. S. Inconstant, S. 34° 15′ E. 18° 27′	29.88	758.9	62.5	16.9	86	sw.			2		4	s.						d. clouds.
H. M. S. Iron Duke, N. 32° 44′ E. 129° 52′	30.00	762.0	67	19.4	94	calm			0		10							overcast.
H. M. S. Kingfisher, Callao, Peru	30.03	762.7	61	16.1		calm			0		9	calm						d. clouds.
H. M. S. Lark, S. 8° 05′, E. 156° 13′	29.92	760.0	82.3	27.9		s.			2		4					2	se.	d. clouds.
H. M. S. Magpie, N. 34° 56′, E. 139° 52′	30.06	763.5	64.5	18.1	83	ne.			1		0							misty.
H. M. S. Northampton, Bermuda, W. I.	29.99	761.7	74.5	23.6	93	s.			3		8	s.						d. clouds.
H. M. S. Rambler, S. 4° 42′, E. 10° 07′	29.90	759.4	79	26.1	95	ese.			2		7	sse.				2	ssw.	drizzling.
H. M. S. Rocket, N. 48° 27′, W. 123° 27′	29.95	760.7	39	3.9	91	calm			0		8							d. clouds.
H. M. S. Sylvia, Funchal: Maderia	29.96	761.0	68.5	20.3	61	e.			1		4							d. clouds.
H. M. S. Tenedos, N. 46° 50′ W. 56° 30′	29.85	758.2	36	2.2	100	e.			1		9							raining.
H. M. S. Triumph, Coquimbo, Chili	30.05	763.3	54	12.2	86	e.			1		10	calm						d. clouds.
H. M. S. Tyne, N. 36° 17′, W. 4° 17′	29.84	757.9	64	17.8	83	wsw.			3		3	sw.				3	sw.	d. clouds.
H. M. S. Woodlark, N. 23° 30′ E. 58° 40′	29.73	755.1	88.5	31.4	76	se.			2		2	se.				1	s.	d. clouds.
PORTUGUESE NAVAL.																		
Rio Lima, Porto Praya, Cape Verd Islands	30.07	763.8	73.9	23.3	97	nne.			2		2		ne.			1		d. clouds.
Tamega, Macao, China	29.77	756.1	86.0	30.0	78	sw.			4		6		sw.	5 h'r	5 h'r			d. clouds.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla.	30.07	763.8	62	16.7	42	nnw.	5	2.2			2		nw.	0	0			fair.
N. Yard, Portsmouth, N. H.	30.07	763.8	43	6.1	83	calm	0	0			0			0	0			clear.
Naval Hospital, Yokohama, Japan	29.91	759.7	62.5	16.9	77	calm			0		0			0	0			clear.
Adams, Mare Island, Cal.	29.93	760.2	56	13.3	87	wsw.			1		2		w.	0	0	sm'h		clear.
Alaska, S. 8° 19′ W. 79° 33′	29.97	761.2	66	18.9	89	s			1		5		s.	0	0	sm'h		fair.
Alert, Kobe, Japan*	29.94	760.5	68	20.0	74	w.			3		2		calm	0	0	sm'h		hazy.
Alliance, N. 36° 41′, W. 74° 56′	30.04	763.0	48	8.9	85	ne.			3		2		ne.	0	0	sm'h		clear.
Ashuelot, Kobe, Japan	30.04	763.0	66	18.9	84	nw.			1		2		calm					clear.
Brooklyn, Montevideo, Uruguay	29.94	760.5	44	6.7	92	n.	9	4.0			10		calm	0	0	sm'h		cloudy.
Colorado, New York, N. Y.			48	8.9	78	calm	0	0			8		calm	0	0			misty.
Essex, Rio de La Plata River, Uruguay	29.96	761.0	46	7.8	84	wsw.			3		10		w.			sm'h		overcast.
Franklin, Norfolk, Va.	30.07	763.8	53	11.7	67	ene.	10	4.5			5		ssw.	0	0			fair.
Galena, N. 36° 14′, W. 4° 25′	29.94	760.5	66	18.9	89	w.			4		2					mod.	w.	fair.
Independence, Mare Island, Cal.	30.00	762.0	54	12.2	87	wnw.			3		2		wnw.	0	0			clear.
Iroquois, San Francisco, Cal.	30.16	766.1	54	12.2	87	sw.			2		2		sw.					clear.
Kearsarge, N. 36° 47′, W. 74° 46′	30.02	762.5	48	8.9	92	ne.			4		0					sm'h		clear.
Lackawana, S. 5° 51′, W. 81° 22′*	29.98	761.5	64	17.8	89	ne.			2		8?		se.			sm'h	ne.	clear.?
Lancaster, N. 36° 14′, W. 4° 26′*	29.83	757.7	69	20.6	85	w.			5		2		w.	0	0	mod.	w.	fair.
Marion, S. 28° 20′, W. 43° 31′	30.06	763.5	73	22.8	100	calm			0		8		ne.			sm'h		cloudy.
Michigan, Erie, Pa.	30.10	764.5	49	9.4	93	calm			0		0							hazy.
Minnesota, Newport, R. I.	30.09	764.3	46	7.8	69	n.	4	1.8			5							fair.
Monocacy, Nagasaki, Japan	29.99	761.7	70	21.1	80	se.			1		10		calm					misty.
New Hampshire, Newport, R. I.	30.01	762.2	50	10.0	100	n.			2		8					sm'h		cloudy.
Nipsic, N. 36° 11′, W. 4° 23′	29.87	758.7	67	19.4	74	wsw.			3		2					sm'h		clear.
Onward, Callao, Peru	30.13	765.3	61	16.1	94	calm			0		10		n.			long	w.	cloudy.
Palos, Kobe, Japan	30.08	764.0	67	19.4	74	w.			2		2		calm					fair.
Passaic, Washington, D. C.	30.11	764.8	51	10.6	93	calm			0		10							cloudy.
Pensacola, Callao, Peru	30.02	762.5	61	16.1	94	n.	5	2.2			10		n.	0	0	sm'h		cloudy.
Portsmouth, Plymouth, Eng.	30.36	771.1	55	12.8	100	e.			4		5		e.			sm'h		clear.
Powhatan, Hampton Roads, Va.	30.06	763.5	55	12.8	68	ene.			3		5							fair.
Quinnebaug, N. 36° 14′, W. 4° 26′	29.86	758.4	66	18.9	74	wsw.			4		2		w.			sm'h		hazy.
Ranger, Pichilinque, Mexico*	29.83	757.7	71	21.7	66	sse.			2		5		calm	0	0	sm'h		fair.
Richmond, Kobe, Japan*	30.02	762.5	67	19.4	79	wsw.			1		0			0	0			clear.
Saratoga, Plymouth, Eng.	30.36	771.1	54	12.2	67	e.			3		0			0	0	sm'h	e.	clear.
Shenandoah, New York, N. Y.*	30.16	766.1	53	11.7	73	sw.			1		2		sw.					hazy.
St. Louis, League Island, Pa.	30.33	770.4	49	9.4	85	se.	4	1.8			5			0	0			fair.
Swatara, N. 37° 27′, E. 126° 33′*	29.79	756.7	63	17.2	72	calm			0		10		calm			sm'h		cloudy.
Tennessee, N. 36° 27′ W. 74° 48′	30.07	763.8	48	8.9	92	ne.	18	8.0			2			0	0	mod.	ene.	fair.
Vandalia, N. 36° 46′, W. 74° 54′*	30.01	762.2	47	8.3	85	nne.			4		2		calm			sm'h		fair.
Wabash, Boston, Mass.	30.08	764.0	42	5.6	74	nnw.	5	2.2			2		w.	0	0			hazy.
Wachusetts, Fort Wrangle, Alaska	29.92	760.0	36	2.2	100	w.			1		0			0	0			clear.
Wyoming, Port Royal, S. C.	30.02	762.5	56	13.3	100	nw.	10	4.5			2		calm	0	0			clear.
Yantic, N. 36° 40′, W. 74° 53′*	30.02	762.5	48	8.9	85	n.			4-5		2					mod.	n;e.	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Nova Scotian, N. 49° 14′, W. 34° 08′	30.06	763.5	54	12.2	.....	s.	.....	.....	4	.....	fg	.....	s.	.....	.....	slight	sw.	dense fog.
S. S. Prussian, N. 46° 48′, W. 41° 43*	29.99	761.7	54	12.2	.....	sw.	.....	.....	3	.....	9	.....	.....	16 h'r	16 h'r	light	sw.	dense fog.
S. S. Scandinavian, N. 53° 02′, W. 21° 43′*	30.16	766.6	53	11.7	.....	se.	.....	.....	4	.....	10	.....	se.	sh'rs	sh'rs	cross	se.	misty.
S. S. Waldensian, N. 42° 22′, W. 65° 02′*	30.10	764.5	48	8.9	.....	wsw.	.....	.....	2	.....	.....	.....	wsw.	sh'rs	sh'rs	long	ssw.	misty.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, Philadelphia, Pa	29.97	761.2	54	12.2	93	e.	.....	.....	1	.....	2	.....	e.	.....	.....	.....	.....	fine.
S. S. Indiana, N. 49° 22′, W. 23° 48′†	30.42	772.7	55	12.8	80	nnw.	.....	.....	3	.....	10	.....	w.	o	o	con.	nw.	cloudy.
S. S. Lord Clive, Philadelphia, Pa *	29.87	758.7	.....	.....	.....	se.	.....	.....	1	.....	8	.....	se.	o	o	.....	.....	fine.
S. S. Ohio, N. 39° 17′, W. 58° 24′†	30.10	764.5	72	22.2	95	ssw.	.....	.....	4	.....	5	.....	s.	.....	.....	sm'h	.....	fine.
ANCHOR LINE.																		
S. S. Boliva, N. 53° 45′ W. 28° 22′†	30.10	764.5	49	9.4	.....	sw.	.....	.....	5	.....	4?	.....	sw.	o	o	hv'y	sw.	overcast?
S. S. Devonia, N 55° 06′, W. 10°, 25′†	30.61	777.5	58	14.4	.....	se.	.....	.....	2	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
S. S. Utopia, Off Point Tarifa, Spain†	30.04	763.0	65	18.3	73	wsw.	.....	.....	3	.....	6	.....	wsw.	o	o	mod.	wnw.	fair.
ATLAS LINE.																		
S. S. Ailsa, N. 25° 34′, W. 74° 12′†	29.96	761.0	81	27.2	87	nw.	.....	.....	3–4	.....	10	.....	wnw.	1 h'r	1 h'r	light	nw.	squally.
S. S. Athos, Arroyo, Porto Rico, W. I.	29.57	751.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
S. S. Claribel, N. 36° 32′, W. 73° 57′*†	30.02	762.5	50	10.0	78	nne.	.....	.....	5	.....	10	.....	nne.	3 h'r	3 h'r	r'gh	nne.	
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, Halifax, N. S.	.....	.....	44	6.7	75	e.	.....	.....	1	.....	.....	.....	.....	o	o	.....	.....	hazy.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 38° 34′, W. 3° 00′	30.41	772.4	50.5	10.3	68	wsw.	.....	.....	2	.....	6	.....	.....	.....	.....	.....	.....	d. clouds.
British Merchant, S 34° 41′ E 15° 20′	29.91	759.7	60.5	15.8	89	ssw.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	.....	overcast.
Bk. Commewyne, N. 46° 27′, W. 19° 23′	30.12	765.0	58.6	14.8	76	e.	.....	.....	5	.....	10	.....	.....	.....	.....	.....	.....	d. clouds.
Bk. Coppename, N. 29° 30′, W. 20° 58′	30.07	763.8	66	18.9	71	nnw.	.....	.....	4	.....	7	.....	.....	.....	.....	.....	.....	d. clouds.
Earnock, N. 43° 43′, W. 22° 12′	30.06	763.5	57	13.9	75	n.	.....	.....	4	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
Glencairn, S. 26° 58′, E. 49° 51′	30.10	764.5	78	25.6	82	wsw.	.....	.....	1	.....	2	.....	.....	.....	.....	.....	.....	d. clouds.
Bkt. Hope, N. 23° 25′, W. 43° 05′	30.19	766.8	74	23.3	81	ene.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	.....	overcast.
May Hulse, S. 22° 44′, W. 76° 47′	30.06	763.5	63.2	17.3	72	sse.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	.....	overcast.
Minho, S. 20° 47′, W. 39° 47′	30.14	765.5	75.8	24.3	60	calm	.....	.....	0	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
Pole Star, S. 42° 14′, W. 81° 15′	29.46	748.3	49	9.4	71	wsw.	.....	.....	9	.....	8	.....	.....	.....	.....	.....	.....	squally.
CUNARD LINE.																		
S. S. Bothnia, N. 50° 31′, W. 23° 53′	30.24	768.1	.....	.....	.....	wnw.	.....	.....	2	.....	10	.....	.....	14 h'r	14 h'r	.....	wnw.	cloudy.
S. S. Gallia, N. 48° 32′, W. 30° 04′	30.26	768.6	57	13.9	81	s.	.....	.....	4	.....	0	.....	.....	o	o	sm'h	.....	fine.
S. S. Scythia, N. 40° 38′, W. 68° 56′	30.04	763.0	47	8.3	92	n.	.....	.....	2	.....	10	.....	n.	7 h'r	7 h'r	mod.	n.	overcast.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. St. Germain, N. 41° 11′, W. 60° 48′	30.03	762.7	66.2	19.0	.....	w.	.....	.....	1	.....	.....	.....	w.	o	o	.....	sw.	clear.
S. S. Ville de Marseilles, N. 38° 06′, W. 28° 10′*†	30.20	767.1	61	16.1	.....	wnw.	.....	.....	3	.....	9	.....	wnw.	o	o	mod.	w.	cloudy.
GUION LINE.																		
S. S. Arizona, N. 50° 25′, W. 20° 24′	30.29	769.4	56	13.3	.....	e.	.....	.....	3	.....	0	.....	.....	o	o	sm'h	.....	blue sky.
S. S. Wisconsin, N. 40° 45′ W. 67° 45′*†	30.02	762.5	39	3.9	.....	nne.	.....	.....	2	.....	10	.....	nne.	o	o	mod.	n.	cloudy.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 40° 34′, W. 55° 52′*†	30.15	765.8	.....	.....	.....	ssw.	.....	.....	5	.....	6	.....	s.	3 h'r	3 h'r	long	s.	fine.
S. S. Lessing, N. 41° 04′, W. 63° 31′	29.95	760.8	69	20.6	.....	w.	.....	.....	5	.....	0	.....	.....	o	o	sm'h	sw.	clear.
S. S. Silesia, Hamburg, Germany†	30.29	769.4	51	10.6	.....	ene.	.....	.....	5	.....	2	.....	n.	¼ h'r	¼ h'r	.....	.....	fair.
S. S. Wieland, N. 41° 54′, W. 47° 53′	30.34	770.6	57	13.9	.....	sw.	.....	.....	3	.....	10	.....	sw.	o	o	3	sw.	foggy.
INMAN LINE.																		
S. S. City of New York, N. 45° 17′, W. 41° 29′	30.26	768.6	.....	.....	.....	wnw.	.....	.....	4	.....	10	.....	wnw.	5 h'r	5 h'r	r'gh	wnw.	cloudy.
JOHNSTON LINE.																		
S. S. Thanemore, N. 41° 01′, W. 59° 47′	30.01	762.2	.....	.....	.....	sw.	.....	.....	2	.....	8	.....	w.	2 h'r	2 h'r	.....	wsw.	fair.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, S. 25° —′, W 45° —′*†	30.26	768.6	74	23.3	.....	calm	.....	.....	0	.....	6?	.....	nne.	o	o	long	se.	clear?
S. S. Humboldt, N. 5° 57′ W. 45° 53′*	29.97	761.2	80	26.7	91	nne.	.....	.....	4	.....	4 k;n	.....	.....	1 h'r	1 h'r	4	ne.	drizzling.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 25° 44′, W. 69° 59′†	30.02	762.5	74	23.3	95	e.	.....	.....	4	.....	5	.....	.....	4 h'r	4 h'r	sm'h	.....	squally.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenapp, Pernambuco, Brazil*†	29.95	760.7	.....	.....	.....	var.	.....	.....	2	.....	6	.....	se.	2 h'r	2 h'r	.....	.....	rainy.
NATIONAL LINE.																		
S. S. Canada, N. 40° 49′, W. 66° 39′†	29.99	761.7	44	6.7	.....	w.	.....	.....	1	.....	2	.....	sw.	o	o	sm'h	w.	clear.
S. S. Denmark, London, Eng.	30.39	771.9	62	16.7	.....	nnw.	.....	.....	4	.....	5	.....	n.	½ h'r	½ h'r	.....	.....	fine.
S. S. England, N. 50° 59′ W. 14° 01′	30.37	771.4	.....	.....	.....	ene.	.....	.....	5	.....	5?	.....	e.	o	o	mod.	ene.	cloudy.?
S. S. Erin, New York, N. Y.	30.07	763.8	61	16.7	.....	sw.	.....	.....	2	.....	2	.....	w.	o	o	.....	.....	fine.
S. S. Greece, N. 41° 23′, W. 52° 41′	30.20	767.1	.....	.....	.....	sw.	.....	.....	4	.....	8	.....	sw.	3 h'r	3 h'r	sm'h	sw.	foggy.
S. S. Italy, N 46° 15′, W. 36° 52′	30.27	768.8	59	15.0	.....	wsw.	.....	.....	2	.....	10	.....	wsw.	5 h'r	5 h'r	mod.	w.	misty.
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, Progreso Roads, C. A.*†	30.04	763.0	75	23.9	90	sse.	.....	.....	2	.....	4	.....	ene.	o	o	.....	.....	d. clouds.
S. S. City of Puebla, N. 24° 46′, W. 80° 32′†	29.95	760.7	74	23.3	.....	n.	.....	.....	3	.....	1	.....	n.	.....	.....	mod.	n	
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Maas, N. 43° 04′; W. 46° 53′*†	30.25	768.3	63	17.2	.....	wsw.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	wsw.	foggy.
NORTH GERMAN LLOYD.																		
S. S. Elbe, N. 43° 45′, W. 39° 48′	30.24	768.0	59.0	15.0	100	wsw.	.....	.....	2–3	.....	10	.....	.....	.....	.....	long	w.	drizzling.
S. S. Graf Bismarck, S. 22° 30′, W. 41° 24′	30.16	766.1	75.2	24.0	.....	nnw.	.....	.....	2	.....	2	.....	nw.	o	o	mod.	se.	fair.
S. S. Hohenzollern, N. 40° 09′, W. 63° 29′*	29.94	760.5	64.4	18.0	.....	w.	.....	.....	2–3	.....	5	.....	w.	o	o	sm'h	w.	fair.
S. S. Main, N 45° 39′, W. 39° 25′	30.26	768.6	60.8	16.0	.....	w.	.....	.....	1–2	.....	6	.....	wsw.	o	o	sm'h	wsw.	hazy.
S. S. Mosel, N. 50° 07′, W. 4° 28′	30.39	771.9	52	11.1	.....	ene.	.....	.....	6	.....	7	.....	e.	2 h'r	2 h'r	mod.	e.	cloudy.
S. S. Oder, Southampton, England	30.20	767.1	60.8	16.0	.....	ese.	.....	.....	3	.....	4	.....	ese.	o	o	.....	.....	fair.
S. S. Ohio, Bremerhaven, Germany	30.30	769.6	.....	.....	.....	nnw.	.....	.....	5	.....	7	.....	nnw.	o	o	.....	.....	cloudy.
S. S Rhein, N. 40° 26′ W. 64° 12′	29.93	760.2	.....	.....	.....	ne.	.....	.....	1	.....	4	.....	n.	o	o	mod.	n.	hazy.
S. S. Strassburg, N. 47° 40′, W. 27° 46′	30.27	768.8	52.5	11.4	93	nw.	.....	.....	1	.....	4	.....	wnw.	o	o	sm'h	nnw.	fair.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, N. 34° 05′, E. 138° 16′†	30.19	766.8	70	21.1	75	w.	.....	.....	2	.....	0	.....	.....	o	o	light	s.	clear.
S. S. Gaelic, N. 35° 49′, E. 169° 22′†	29.94	760.5	66	18.9	90	ssw.	.....	.....	7	.....	10	.....	wnw.	.....	.....	mod.	wsw.	cloudy.
S. S. Oceanic, N. 39° 02′ E. 151° 37′*	29.70	754.4	50	10.0	86	nnw.	.....	.....	6	.....	10	.....	n.	.....	.....	6	nne.	overcast.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y.†	30.04	763.0	.....	.....	.....	sw.	.....	.....	1	.....	5?	.....	w.	.....	.....	.....	.....	clear.?
S. S. City of Columbus, New York, N. Y.†	29.97	761.2	.....	.....	.....	s.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	cloudy.
S. S. Seminole, N. 33° 10′, W. 78° 30′†	29.97	761.2	62	16.7	83	n.	.....	.....	4	.....	1	.....	nne.	rain	rain	mod.	sw.	clear.
OREGON IMPROVEMENT COMPANY.																		
S. S. Willametta, Seattle, Wash. Ter†	30.13	765.3	50	10.0	86	calm	.....	.....	0	.....	3	.....	s.	o	o	.....	.....	fine.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, Portland, Oregon †	30.04	763.0	46	7.8	92	nw.	.....	.....	1	.....	10	.....	nw.	.....	.....	.....	.....	fair.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 35° 15′, W. 120° 56′ †.	30.05	763.3	51	10.6	86	nne.	.....	.....	2	.....	5	.....	nw.	.....	.....	sm'h	wnw.	fair.
S. S. Dakota, Port Townsend, Wash. Ter.†.	30.23	767.8	51	10.6	86	s.	.....	.....	3	.....	8?	.....	sw.	.....	.....	sm'h	.....	clear.?
S. S. Orizaba, N. 37° 25′ W. 122° 20′†	30.12	765.0	54	12.2	80	calm	.....	.....	0	.....	.....	.....	nw.	.....	.....	sm'h	nw.	overcast
S. S. State of California, N. 46° 16′, W. 124° 05′†	30.05	763.3	48	8.9	?	sw.	.....	.....	3	.....	10	.....	w.	.....	.....	sm'h	w.	showery.
S. S. Victoria, San Francisco, Cal.†	30.11	764.8	52	11.1	93	calm	.....	.....	0	.....	0	.....	.....	o	o	sm'h	.....	clear.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. City of New York, Sydney, N. S. W†	30.13	765.3	63	17.2	94	nw.	.....	.....	2	.....	1	.....	nw.	o	o	.....	.....	clear.
S. S. City of Rio de Janeiro, N 31° 32′, W. 117° 30′ *†	30.20	767.1	57	13.9	94	nw.	.....	.....	5	.....	8	.....	nw.	o	o	r'gh	nw.	fair.
S. S. City of Sydney, N. 20° 49′, W. 158° 07′†	29.99	761.7	76	24.4	82	ese.	.....	.....	2	.....	2	.....	sw.	o	o	mod.	se.	fair.
S. S. City of Tokio, Hong Kong, China†	29.84	757.9	83	28.3	87	w.	.....	.....	0	.....	10	.....	sw.	10 h'r	10 h'r	.....	.....	squally.
S. S. Colon, Aspinwall, Panama†	29.93	760.2	80	26.7	.....	s.	.....	.....	1	.....	0	.....	.....	o	o	sm'h	.....	clear.
S. S. Grenada, N. 14° 17′, W. 92° 47′†	29.88	758.9	80	26.7	91	nw.	.....	.....	2	.....	8	.....	nw.	2 h'r	2 h'r	light	ne.	rainy.
S. S. South Carolina, Panama, Panama†	30.02	762.5	84	28.9	79	calm	.....	.....	0	.....	1	.....	n.	o	o	sm'h	.....	fine.
S. S. Zelandia, Sydney, N. S. W.	30.19	766.8	65	18.3	53	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
QUEBEC S. S. COMPANY.																		
S. S. Muriel, N. 27° 25′, W. 67° 10′	30.01	762.2	74	23.3		ene.			5		10			0	0	mod.	e.	fair.
S. S. Bermuda, N. 26° 19′, W. 66° 55′†	30.16	766.1	68	20.0		s.			2		9		s.	½ h'r	½ h'r	long	n.	fine.
RED STAR LINE.																		
S. S. Belgenland, N. 47° 20′, W. 22° 00′†	30.34	770.6	55	12.8	?	n.			2		5		n.	0	0	mod.	nnw.	fair.
S. S. Nederland, N. 42° 14′, W. 42° 16′†	30.29	769.4	59	15.0		sw.			3		fg.		sw.			mod	sw.	misty.
S. S. Rhynland, Antwerp, Belgium	30.32	770.1	53	11.7	79	e.			5		7		e.	0	0			cloudy.
S. S. Vaderland, N. 40° 22′, W. 59° 31′	29.94	760.5	67	19.4	94′	s.			2		10		s.	0	0	long	ssw.	hazy.
S. S. Waesland, Jersey City, N. J.	30.04	763.0	50	10.0		wsw.			3		8		wnw.	2 h'r	2 h'r			fair.
ROTTERDAM LINE.																		
S. S. Schiedam, N. 50° 00′, W. 12° 55′*	30.32	770.1	56.8	13.8		e.			4		0			0	0	mod.		clear.
S. S. W. A. Scholten, Rotterdam, Holland	30.25	768.3	50	10.0	86	nne.			2		7		nnw.	0	0			
STATE LINE.																		
S. S. State of Florida, New York, N. Y	30.03	762.7	52	11.1		s.			2		6			0	0			fair.
S. S. State of Georgia, N. 53° 25′ W. 22° 55′†	30.36	771.1	54	12.2		sse.			2		8		s.			long	sw.	cloudy.
S. S. State of Indiana, N. 41° 07′ W. 64° 33′†	29.74	755.4	49	9.4		w.			2		4		w.	4 h'r	4 h'r	mod.	sw.	light rain.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 54° 59′, W. 21° 59′†	30.49	774.4	54.5	12.5		s.			2		10		s.	2 h'r	2 h'r	sm'h	s.	covered.
WHITE STAR LINE.																		
S. S. Adriatic, N. 44° 04′, W. 46° 06′†	30.33	770.4	61.5	16.4	97	w.			2		10		s.	shr's	sh'rs	sm'h		drizzling.
S. S. Celtic, Liverpool, England†	30.42	772.7	58	14.4	57	ne.			2		0			0	0	sm'h		fine.
S. S. Republic, N. 41° 16′, W. 48° 27′†	30.36	771.1	54	12.2	60	wsw.			3		10			3 h'r	3 h'r	mod.	sw.	foggy.
WILSON LINE.																		
S. S. Romano, N. 48° 12′, W. 12° 31′*†	30.13	765.3	56	13.3		ese.					6			6 h'r	6 h'r	mod	e.	cloudy.
MISCELLANEOUS.																		
Sch. Addie Fuller, Newport News, Va†	30.12	765.0	53	11.7	79	ene.			2	1 c	2 k			0	0			clear.
Bk. Adelaide, S. 8° 14′, W. 34° 10′*†	30.04	763.0	82	27.8		nnw.			1		5		se.	6 h'r	6 h'r	light	sw.	rainy.
Schr. Ajax, Brazos, Texas†	30.02	762.5				ese.			1		8		ese.	0	0			cloudy.
Bk. Alpha, Guanatamo, W. I†	29.96	761.0	79	26.1		n.			1		5?		n.	4 h'r	4 h'r			cloudy?
Schr Annie Lewis, Aransas, Pass, Texas†	30.11	764.8	77	25.0		e.			6		5?		e.	0	0	short	e.	cloudy.?
Bk. Anna Thormann, N. 27° 14′ W. 36° 24′	30.30	769.6	70.7	21.5	64	nne.			3		3 k		nne.	0	0	mod	ne.	fair.
Bk. Antioch, S. 41° 38′, E. 129° 13′*†	29.76	755.9	57	13.9		w.			7		4?		w.	½ h'r	½ h'r	r'gh	wsw.	cloudy.?
S. S. Antonio Lopez, N. 24° 53′ W 80° 16′*	30.05	763.3	74	23.3	81	n.			4		1 k			0	0	mod.	n.	clear.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.21	767.3	75	23.9		nnw.			1		0			0	0			clear.
Schr. Annie M. Smull, S. 6° 04′. E. 105° 54′*†	29.95	760.7	86	30.0										0	0			
Bk. Bergenseren. N. 36° 23′, W. 3° 41′†	29.77	756.1				w.			1		hz.			0	0	1	w.	fair.
S. S. Compton, Cardenas, Cuba, W. I†	30.00	762.0				wnw.			1		1		calm	0	0			clear.
Schr. Edith R. Seward, N. 19° 57′, W. 74° 15′*†	30.16	766.1	86	30.0		se.			1		9		ne.	¼ h'r	¼ h'r	long	ne.	cloudy.
S. E. J. Spicer, London, England†	30.42	772.7				ese.			4		3		e.	0	0			
S. Exporter, S. 40° 30′, W. 12° 50′*†	30.58	776.7				ne.			0–4				ne.	0	0	long	se.	cloudy.
Bk. Freya, Dublin, Ireland			59	15.0		e.			3		0			0	0			fine.
S. Grecian, S. 9° 15′ E. 165° 00′*†	29.94	760.5	80	26.7		e.			3		3		e.	1 h'r	1 h'r	mod.	sse.	fine.
Schr. Hattie G. McFarland, Boston, Mass*†	30.05	763.3	47	8.3		nw.			3		1		nw.	8 h'r	8 h'r			clear.
Schr. Henry Denison, N. 25° 28′, W. 76° 40′†	29.90	759.4				se.			3–6		3		se.	sh'rs	shr's	high	se.	fair.
Horace Scudder, Off Absecum, N. J†	30.01	762.2	48	8.9		ene.			1		0			0	0			clear.
Bk. Johanne, N. 48° 03′, W. 16° 10′*†	30.08	764.0	56	13.3		nne.			4		5		sw.	0	0	mod	n.	misty.
Schr. John L. Thomas, French Cays, C. A*†	30.00	762.0				calm			0		2		ene.	0	0	mod.	ene.	clear.
Bkt. Josephine, Guanatamo, W. I.*†	30.11	764.8	79	26.1	86	wnw.			2		10			4 h'r	4 h'r			gloomy.
Bk. Julia H., Havana, Cuba, W. I	30.03	762.7	72.8	22.7	85	calm			0		1 k							blue sky.
Bk. Kate Cann, N. 42° 58′, W. 52° 40′*†	30.00	762.0				sw.			4		10			24 h'r	24 h'r	sm'h	wsw.	rainy.
Bkt. Kryolith, N 59° 00′ W. 43° 00′*†	29.65	753.1				w.			9		2		w.	0	0	short		clear.
S. S. Lamperts, N. 17° 19, E. 40° 33′*	29.82	757.4	86.5	30.3	79	w.			1		3 k							misty.
Light House Tender, Laurel, St. Andrew's Bay, Fla†	30.10	764.5	65	18.3		n.			1		2		s.	0	0			clear.
S. S. Malabar, N. 4° 57′, E 100° 53′*†	29.84	757.9				var.			2		8		sw.			sm'h		cloudy.
Bg. Medina, N. 34° 05′. W. 76° 00′...†	30.01	762.2				n.			2		10		n.			chop	nne.	dull.
S. S. Nebo, N. 26° 30′, W. 67° 18′*†	30.12	765.0				ssw.			1		5?		nne.	0	0	long	nne.	clear.?
S. Paramita, S. 10° 00′ W. 32° 54′†	29.84	757.9	76	24.4					5		5		sw.	shr's	shr's	cross	var.	rainy.
Bk. Pawashick, N. 22° 53′. W. 59° 25′*†	30.40	772.1	77	25.0	86	e.			5		2		e.			mod.	ese.	fine.
Bk. Peppina, Bordeaux, France†	29.99	761.7	69	20.6	38	ne.			5		0							clear.
S. S. Ponca, N. 25° 50′, W. 68° 00′†	30.09	764.3	84	28.9		sse.			2		9		wsw.	light	light	light	se.	cloudy.
Bk. Princessen, N. 39° 47′, W. 53° 47′†	30.19	766.8	63	17.2		s.			4		10			3 h'r	3 h'r	mod.	ssw.	hazy..
Bk. Rosebud, N. 31° 55′, W. 19° 41*†	29.88	758.9	66	18.9	90	var.			2		8		nnw.	sh's	sh's	long	nw.	fine.
S. Salisbury, S. 38° 07′ E. 0° 05′*	30.39	771.8	52.2	11.2	75	ssw.			4		10		ssw.	2 h'r	2 h'r	mod.	ssw.	cloudy.
Bk. Stella, S. 4° 50′, W. 108° 30′*	29.87	758.7	80.6	27.0	92	ese.			3		3 k		se.	0	0	sm'h	se.	d. clouds.
Bk. Truro, N. 46° 00′ W. 24° 05′*†	30.18	766.6				nne.			4		2		ne.	0	0	mod.	nne.	clear.
U.S.F.C.S.S.Fish Hawk, Washington, D. C†	30.22	767.6	57	13.9	81	calm			0		10			0.02	0.5			light rain
Yacht Vega, Barbadoes W. I.*†	30.20	767.1	80	26.7		e.			3				e.	0	0	sharp	ese.	
Schr Viola Reppard, Hart Island N. Y*†	29.89	759.2	61	16.1		calm			0		3			2 h'r	2 h'r			fair.
S. Washington, N. 54° 07′ E. 3° 40′*†	30.29	769.4				nnw.			3		1		nnw.	0	0	sm'h		clear.
Bg. Wauburn, N. 38° 50′. W. 74° 30′*†	30.00	762.0				e.			3		3		e.	0	0	sm'h		
Bk. Wm. Wilcox, N. 35° 20′ W. 47° 15′*†	30.51?	774.9?	69	20.6		s.			3		2		se.	0	0	sm'h		fair.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 17, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.89	759.3	70.5	21.4	78	sw.			3		2			0.020	0.5	fair	Moiroud.
Algiers			29.97	761.1	67.6	19.8	61	nw.			1		10			inap.	inap.	covered	Nicolas.
La Calle			29.93	760.2	67.3	19.6		ne.			4		4			0	0	cloudy	Fonfrède.
Tunis			29.95	760.8															Jacques.
Saida			29.99	761.7															Dumas.
Tebessa			30.03	762.8	72.7	22.6	43	sw.			2		3			0.197	5.0	pretty fair	Derché.
Geriville					79.5	26.4	21	sse.			7		0			0	0	clear	Lonchamp.
Laghouat			30.04	763.1	80.6	27.0	77	e.			2		1			0	0	very fair	Abraham.
Biskra			30.00	762.0	84.6	29.2	30	se.			1		3			0	0	pretty fair	Malau.
Australian.																			
Melbourne, Victoria	30.05	763.3	30.14	765.5	58.1	14.5	75	nnw.	8	3.6			9			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.50	749.3	30.05	763.3	55.0	12.8	40	ne.			4		10			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.32	744.8	30.10	764.5	50.7	10.4	58	n.	5.6	2.5			10			0.535	13.6		Dr. Wierzbiski.
Eperies	29.12	739.7	30.01	762.3	47.5	8.6	70	n.			3		10 ks		s.	0	0		Julius Mikolik.
Gratz	28.84	732.6	30.10	764.6	53.1	11.7	62	nw.			5		5			0.028	0.7		Andreas Rospini.
Hermannstadt	28.43	722.1	29.87	758.6	49.8	9.9	92	nw.			1		10			0.339	8.6	raining	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.82	732.1	30.19	766.7	48.2	9.0	50	n.			2		7			0.134	3.4		The Staff.
Lemberg	29.01	736.8	30.00	762.0	49.6	9.8	76	ne.			2		10			0.701	17.8		Dr. T. Stanecki.
Pola	29.88	759.0	29.99	761.8	58.6	14.8	44	e.			4		5			0	0		I. R. Hydrographic Office.
Szathmar	29.43	747.5	29.89	759.1	50.7	10.4	82	n.			2		10			0.193	4.9		Joseph Midlinszky, S. J.
Szegedin	29.65	753.1	29.93	760.3	52.0	11.1	78	n.			2		10			0.146	3.7		Karl Stancel.
Trieste	29.93	760.3	30.04	762.9	63.0	17.2	30	ne.			3		8			0	0		Rieder.
Vienna	29.43	747.5	30.16	766.0	49.3	9.6	58	nne.			2		9			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.36	771.1	30.46	773.7	52.0	11.1	69	ese.	11	4.9			2			0	0	blue sky	W. Boswell
Armagh, Observatory	30.25	768.3	30.49	774.4	60.8	16.0	50	e.	6	2.7			0					blue sky	S. Gall.
Bidston, Liverpool Obs'y			30.46	773.7	57.1	13.9	78	w.	8	3.6			0					misty	John Hartnup.
Bolton, Sharples	29.90	759.4	30.44	773.2	60.8	16.0	12	ssw.	6	2.7			0					blue sky	Thomas Mackereth.
Bradford, Yorkshire	30.06	763.5	30.45	773.4	58.4	14.7	42	se.			1		0			0	0	blue sky	[A.S. J. McLandsborough, F.R
Bridgetown, Barbadoes	29.95	760.7	29.98	761.5	83.0	28.3	64	ne.			2		6					gloomy	Corpl. J. Surgenor, A. H.C.
Cardington			30.45	773.4	59.0	15.0	53	e.			0.4		0					blue sky	John McLaren.
Chatham, School M. E.	30.34	770.6	30.47	773.9	59.4	15.2	62	ne.			1		4					d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	30.23	767.8	30.40	773.7	55.0	12.8	62	ese.			3		1					misty	The Staff.
Fort Napier, Natal	27.59	700.8	29.80	756.9	69.0	20.6	56	se.			1		4					d. clouds	Pvt. E. K. Annis, A.H.C.
Free Town, Sierra Leone	29.57	751.1	29.80	756.9	88.0	31.1	69	w.			1		3					d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	29.90	759.4	29.95	760.7	64.0	17.8	85	e.			3		8					overcast	Cpl. O. Baldwin.
Glasgow, Observatory	30.25	768.3	30.45	773.4	63.7	17.6	46	wsw.			2							misty	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.29	769.4	30.46	773.7	58.2	14.6	55	ne.			1		3					blue sky	The Staff.
Guernsey	30.14	765.5	30.44	773.2	55.5	13.1	70	e.			1		0					blue sky	A. Collenette, F. M. S.
Kew, Observatory	30.44	773.2	30.47	773.9	54.2	12.3	50	n.	7	3.1			2					blue sky	The Staff.
Leicester, Museum	30.22	767.6	30.47	773.9	57.0	13.9	45	ne.			1		0					blue sky	J. C. Smith.
Malta, Mediterranean	29.86	758.4	29.93	760.2	70.8	21.6	69	nw			2		5					d. clouds	I. H. Whysall.
Nassau, Bahamas	30.03	762.7	30.07	763.8	75.5	24.2	72	ne.			4		8					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.95	760.7	30.48	774.2	55.0	12.8	55	ne.			1		0					blue sky	Warren Middleton.
Oxford, Radcliffe Obs'y	30.25	768.3	30.48	774.2	55.4	13.0	55	ne.			2		1					blue sky	The Staff.
Plymouth	30.38	771.6	30.46	773.7	58.0	14.4	53	se.			4		0					blue sky	John Merrifield.
Sandwick Manse, Orkneys			30.44	773.2	52.2	11.2	62	sw.	12	5.4			8					d. clouds	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.81	757.2	29.87	758.7	71.0	21.7	47	calm			0	cs	10 s			blank	blank	gloomy	W. H. Lyne.
Sheffield	30.20	767.1	30.48	774.2	58.9	14.9	53	e.			1		1			0	0	blue sky	W. F. Cooper.
Silloth Rectory	30.43	772.9	30.46	773.7	62.0	16.7	60	w.			1		0			0	0	blue sky	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.47	773.9	62.0	16.7		ene.	3	1.3			0					blue sky	J. New.
Stratfield Turgiss	30.25	768.3	30.47	773.9	61.8	16.6	48	ne.			1		0					blue sky	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	30.44	773.2	30.46	773.7	64	17.8	44	ne.			4		3					d clouds	W. Newcombe.
Valencia, Observatory	30.46	773.7	30.48	774.2	58.5	14.7		wnw.	8	3.6			0					misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.04	763.0	30.08	764.0	42	5.6	59	nw.	8	3.6		0	0			0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.08	764.0	30.14	765.5	42	5.6	54	nw.	10	4.5		0	0			0	0	clear	G. A. Blair.
Father Point, Quebec*	30.19	766.8	30.21	767.3	37	2.8	61	n.	16	7.2		0	1 k		calm	0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.19	741.4	30.00	762.0	60	15.6	84	se.	7	3.1		0	hz			0	0	hazy	James Stewart.
Halifax, N. S*	29.93	760.2	30.07	763.8	43	6.1	76	nw.	9	4.0		0	0			0	0	clear	A. Allison.
Kingston, Ontario*	29.84	757.9	30.18	766.6	45	7.2	56	ne.	20	8.9		5 c	0		sw.	0	0	fair	A. P. Knight, M. A.
Montreal, Quebec*	30.04	763.0	30.25	768.3	43	6.1	43	ne.	17	7.6		5 c	0		w.	0	0	fair	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.55	750.6	30.26	768.6	44	6.7	83	ne.	12	5.4		0	0			0	0	clear	Rev. R. Mosley.
Port Dover, Ontario	29.47	748.5	30.16	766.1	47	8.3	63	n.	6	2.7		0	0			0	0	clear	H. Morgan.
Port Stanley, Ontario	29.50	749.3	30.15	765.8	45	7.2	63	nw.	4	1.8		2 ck	hz.		nw.	0	0	hazy	M. Payne.
Quebec, Quebec*	29.92	760.0	30.25	768.3	40	4.4	48	ne.			1	0	0			0	0	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.80	756.9	30.27	768.8	44	6.7	49	n.	2	0.9		5 ck	0			0	0	fair	W. H. McIntyre.
Saugeen, Ontario*	29.49	749.0	30.22	767.6	46	7.8	86	ne.	10	4.5		hz.	0			0	0	hazy	
St. Andrews, N. B	30.07	763.8	30.12	765.0	43	6.1	46	ne.	4	1.8		0	0			0	0	clear	
Sydney, C. B*	29.92	760.0	29.98	761.5	44	6.7	83	sw.	15	6.7		0	0			0	0	clear	T. C. Hill, C. E
Toronto, Ontario*	29.81	757.2	30.20	767.1	49	9.4	46	ne.	10	4.5		0	hz.			0	0	clear	Magnetic Observatory.
Yarmouth, N. S*	30.02	762.5	30.09	764.3	41	5.0	89	n.	3	1.3		5 k	0		n.	0	0	fair	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.83	757.7	30.08	764.0	50	10.0	72	sw.	1	0.4		4 k	4 s			0.05	1.3	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.04	763.0	30.07	763.8	62.0	16.7	88	w.	20.1	9.0		2 s	0			2.020	51.3	clear	John Duthie.
Cape Town, C. G. H. Obs'y	30.18	766.6	30.22	767.6	58.6	14.8	87	nw.	7	3.1		9	10			0.490	12.4		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observer.
Chinese (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai.	29.81	757.2	29.84	757.9	61.5	16.4	80	nw.	16.3	7.3			10 k		nw.	0.008	0.2	covered	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	30.28	769.2	30.33	770.4	50.0	10.0	57	nnw.	11	5			10						Overselgent Fischer.
Fanöe	30.36	771.2	30.38	771.7	52.3	11.3	66	wnw.			4		8						Overloerer Lauridsen.
Godthaab, Greenland	29.79	756.7	29.84	757.8	29.8	− 1.2	71	sw.			2		10			0.004	0.1		S. Kleinschmidt.
Stykkisholm, Iceland	29.53	750.1	29.58	751.2	44.6	7.0	74	calm			0		5						A. O. Thorlacius.
Thorshavn	30.39	771.8	30.42	772.7	52.7	11.5	74	sw.	27	12			9						Overloerer Bergh.
Vestervig	30.26	768.6	30.35	770.9	51.3	10.7	74	wnw.			2		1						Loearer Oesterbol.
French.																			
Agen, Normal School	29.52	749.7	30.15	765.9	64.0	17.8	41	ne.			1	0	0			0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.87	758.6	30.42	772.6	53.2	11.8	71	ne.			1		k		ne.	0	0		M. Nicot, Director.
Arras, Engineer School	30.14	765.5	30.40	772.1	55.4	13.0	66				3		10		nw.	0	0	covered	M. Fénéon, Command't.
Avignon, Normal School	29.99	761.7	30.07	763.7	63.0	17.2	34	n.			4		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.78	756.3	30.34	770.5	56.5	13.6	33	e.			1		6		e.	0	0	cloudy	M. Saillard, Director.
Beauvais, Normal School	30.17	766.2	30.43	773.0	56.7	13.7	33	ene.			3		2		ne.	0	0	slightly cl'dy	M. Frère Eugène Marl.
Besançon, Normal School	29.31	744.4	30.21	767.3	57.9	14.4	45	nne.			2	2 c	0	ne.		0.138	3.5	slightly cl'dy	M. Gobin, Director.
Bordeaux, Observatory	29.92	760.0	30.18	766.6	61.3	16.3	30	ne.			1		0			0	0	clear	M. Rayet, Director.
Bourges, Normal School	29.77	756.2	30.32	770.2	60.4	15.8	27	nne.			2	e	0	nne.		0	0		M. Postel, Director.
Brest, Naval Observatory	30.14	765.5	30.38	771.7	58.3	14.6	47	ne.			3		2		ne.	0	0		M. de Kermaree, Dir.
Caen, Normal School	30.35	770.8	30.39	771.8	58.6	14.8	44	e.			3		0			0	0	clear	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.96	760.9	30.27	768.9	58.1	14.5	44	ne.			2		0			0	0	clear	M. Judot, Director.
Charleville, Normal School.	29.83	757.6	30.34	770.6	58.3	14.6	48	ne.			1		5			0	0	½ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.87	733.3	30.22	767.7	57.6	13.9	28	ne.			3		2 k			0	0	¾ covered	M. Allnard, Director.
Cluny, Normal School	29.37	745.9	30.20	767.1	57.2	14	47	ne.			4		3		s.	0	0		M. de Villemontée, Dir.
Commercy, Normal School.	29.48	748.8	30.36	771.1	53.1	11.7	36	ne.			4		5 k	ne.	ne.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.41	696.2	29.92	760.0	57.2	14	28						k			0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.90	734.1	30.01	762.2	63.5	17.5	52	w.			2		10		se.	0	0		M. Kina, Director.
Grenoble, Normal School	29.32	744.8	30.09	764.3	54.5	12.5	51	nw.			4		kn		ne.	0	0		M. Ablard, Director.
Guéret, Normal School	28.65	727.8	30.35	770.9	53.4	11.9	36	ne.			4	c	0	sw.		0	0		M. Rivoire, Director.
Lamballe, Normal School	30.11	764.8	30.39	771.8	60.1	15.6	44	ne.			2		1		ne.	0	0	clear	M. Ollitrault, Director.
Lescar, Normal School	29.50	749.3	30.06	763.4	66.2	19	23	e.			1	c	0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.28	769.1	30.38	771.7	64.4	18.0	41	ne.			2		0			0	0	clear	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.12	739.6	30.18	766.6	55.9	13.3	31	n.			3	0	2 n		ne.	0	0	¼ covered	M. André, Director.
Mans, Normal School	30.06	763.5	30.37	771.4	56.3	13.5	35	ene.			6		2		e.	0	0	slightly cl'dy	M. Piboen, Director.
Marseille, Observatory	29.77	756.2	30.04	763.0	64.2	17.9	60	wsw.			2		3		wsw.	0	0		M. Stephan, Director.
Montlouis	24.88	632.0	29.72	755.0	50.9	10.5	57	se.	13.0	5.8			0			0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.94	760.4	30.06	763.6	64.9	18.3	37	w.			3		0			0	0		M. Galzin, Director.
Nancy, Normal School	29.56	750.9	30.39	771.9	53.6	12.0	39	n.			2		k			0	0		M. Hasse, Director.
Nantes. Observatory	30.19	766.9	30.35	771.0	63.0	17.2	31	ese.			1–3		0			0	0	clear	M. Larocque, Director.
Perpignan, Observatory	29.97	761.2	30.08	763.9	65.3	18.5	30	se.	11.2	5.0			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit.	21.28	540.5			36.0	2.2		s.			1		1		s.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.04	737.5	30.10	764.4	59.0	15	36	n.			1		2		n.	0	0	slightly cl'd'y	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.24	641.0			33.1	0.6	61	ne.			6		2			0.008	0.2	¼ covered	M. Allnard, Director.
Rochefort, Naval Obs'y	30.21	767.3	30.24	768.1	61.2	16.2	98	ene.			3		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.07	763.7	30.28	769.1	60.1	15.6	38	ne.			4		0			0	0	clear	M. Mouillot, Director.
Rodez, Normal School	28.00	711.3	30.14	765.6	55.8	13.2	64	s.			2		0			0	0	clear	M. Serger, Director.
Rouen, Normal School	30.37	771.3	30.41	772.5	59.4	15.2	41	ne.			1		2		e.	0	0	slightly cl'dy	M. Brotier.
Saint Maur, Observatory	30.22	767.5	30.38	771.7	57.4	14.1	37	ene.			2		3		ne.	0	0		M. Renou, Director.
Toulouse, Observatory	29.45	747.9	30.17	766.4	66.7	19.3	39	ene.			1		0			0	0	clear	M. Baillaud, Director.
Tours	30.14	765.6	30.32	770.1	57.9	14.4	36	e.			3		0			0	0	clear	
Versailles, Observatory	29.85	758.3	30.35	770.8	55.4	13.0	36	e.			6					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	30.10	764.6	30.39	772.0	58.5	14.7	39	ne.			2		7		ne.	0	0		M. Marié Davy, Director
German.																			
Bamberg	29.43	747.6	30.30	769.5	51.8	11.0	36	ne.			4	0	5 k		ne	0	0		Prof. Dr. Hoh.
Berlin	30.13	765.2	30.31	769.8	51.8	11.0	42	ne.			2		10			0	0		Prof. Dr. Arndt.
Breslau	29.72	754.8	30.25	768.4	50.2	10.1	32	n.			3		7	wnw.		0	0		Royal University Obs'y.
Carlsruhe	29.89	759.2	30.34	770.6	53.2	11.8	38	ne.			2		9	ne.		0	0		Albert Senz.
Cassel	29.58	751.3	30.29	769.4	53.2	11.8	41	n.			4		8	n.		0	0		Dr. H. Möll.
Frankfort-on-the-Main	29.96	760.9	30.32	770.2	55.8	13.2	40	n.			2		7			0	0		Physical Society.
Friedrichshafen	28.80	731.5	30.26	768.6	49.3	9.6	45	ne.			6		8	e.		0	0		Wilhelm, Chief Tel.
Hamburg	30.27	768.9	30.37	771.3	54.0	12.2	46	nnw.			2		10			0	0		E. Preller.
Kiel	30.34	770.6	30.35	771.0	52.7	11.5	47	nne.			2		9			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.90	759.4	30.33	770.3	52.5	11.4	42	ne.			3		8	ne.		0.016	0.4		H. Leppig, Asst.
Magdeburg	30.14	765.6	30.34	770.6	50.9	10.5	59	nw.			2		10 ks		nw.	0.059	1.5		Dr. Assmann.
Memel	30.26	768.5	30.30	769.7	43.0	6.1	60	nnw.			5	0	2 ks						Issermann.
Munich	28.41	721.6	30.29	769.3	47.3	8.5	43	nw.			3		6	n.		0.004	0.1		Central Station
Neufahrwasser	30.32	770.2	30.34	770.6	44.4	6.9	53	nne.			1		0			0	0		A. Lothes.
Neustadt, Palatinate	29.79	756.6	30.32	770.1	53.2	11.8	45	ne.			3		8	n.		0	0		Dickneither.
Stuttgart	29.35	745.5	30.25	768.4	52.7	11.5	28	ne.			1		4	n.		0.016	0.4		Prof. Dr. Schoder.
Wustrow	30.35	770.8	30.37	771.4	52.7	11.5	64	n.			2	0	3 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.48	748.8			74.3	23.5		sw.			2.5		5 k			0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.72	754.9	29.77	756.2	84.9	29.4	76	wsw.	36.0	16.1			3			0	0	misty	
Deesa	29.20	741.6	29.65	753.0	103.2	39.6	18	se	6.4	2.9			3		w.	0	0	d. clouds	
Bombay	29.71	754.7	29.75	755.6	85.1	29.5	75	nw.	22.0	9.8			5	nw.	wnw.	0	0	d. clouds	
Poona, Yarrowda	27.86	707.6	29.69	754.2	82.3	27.9	39	w.	16.0	7.2			9		wsw.	0.28	7.1	thund'r st'm	
Bellary	28.22	716.9	29.66	753.1	90.0	32.2	38	se.	5.4	2.4			9	w.		0	0	overcast	
Belgaum	27.24	691.9	29.80	756.9	69.8	21.0	84	w.	11.0	4.9			9	ne.	nw.	0.81	20.6	thud'r storm	
Lahore	28.88	733.6	29.59	751.7	99.2	37.3	20	e.	0.9	0.4			4			0	0	d. clouds	
Roorkee	28.74	730.1	29.61	752.0	95.5	35.8	18	nw.	2.0	0.9			4			0	0	misty	
Agra	29.12	739.6	29.66	753.4	97.1	36.2	23	n.	3.5	1.6			8		n.	0	0		
Nagpur	28.61	726.8	29.62	752.4	94.7	34.8	34	sw.	7.2	3.2			8		sw.	0	0		
Jubbulpore	28.37	720.5	29.70	754.3	87.4	30.8	39	s.	4.4	2.0			9		s.	0	0	overcast	
Lucknow	29.31	744.4	29.67	753.6	98.5	36.9	19	calm	2.1	0.9			0			0	0	blue sky	
Allahabad	29.32	744.7	29.62	752.3	100.1	37.8	15	ne.	1.9	0.8			9		w.	0	0	d. clouds	
Patna	29.48	748.6	29.65	753.2	95.9	36.1	22	nw.	2.3	1.0			5	nw.	nw.	0	0	d. clouds	
Hazaribagh	27.68	703.2	29.64	752.8	89.8	32.1	29	n.	6.8	3.0			0			0	0	blue sky	
Cuttack	29.59	751.5	29.67	753.5	90.3	32.4	62	s.	1.0	0.4			6			0.02	0.5	d. clouds	
Calcutta, Alipore	29.63	752.5	29.65	753.0	91.2	32.9	52	ssw.	2.0	0.9			0			0	0	blue sky	
Dhubri	29.54	750.4	29.66	753.3	85.2	29.6	59	calm	2.6	1.2			0			0	0	blue sky	
Chittagong	29.61	752.1	29.70	754.3	84.2	29.0	78	w.	2.0	0.9			3			0	0	blue sky	
Sibsagar	29.37	746.0	29.70	754.4	83.3	28.5	68	nw.	1.3	0.6			0			0	0	blue sky	
Jeypore	28.26	717.9	29.65	753.1	98.7	37.1	18	ne.	3.4	1.5			4		ne	0	0	d. clouds	
Zanzibar, Africa	29.95	760.7			83.2	28.4	73	s.	5.2	2.3			5		sse.	0.40	10.2	d. clouds	
Italian.																			
Udine	29.62	752.3	30.02	762.6	62.1	16.7	43	ne.	1.3	0.6			6			0.028	0.7		Prof. Giovanni Clodig.
Milan	29.54	750.4	30.06	763.4	59.5	15.3	48	ne.	8.7	3.9			6	ene.		0.413	10.5		Prof. Schiaparelli.
Padua	29.93	760.2	30.04	763.0	61.9	16.6	30	ese.	7.4	3.3			4	ne.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.22	742.2	30.12	765.0	56.8	13.8	41	n.	4.3	1.9			7	ne		0.114	2.9		Prof. P. F. Denza.
Genoa	29.85	758.1	30.04	763.0	54.1	12.3	59	ne.	13.0	5.8			8	n.		0.185	4.7		Prof. G. M. Garibaldi.
Mondovi	28.18	715.7	30.11	764.7	48.7	9.3	66	nw.			6		7			0.358	9.1		Prof. D. O. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
ITALIAN.—Continued.																			
Pesaro	29.96	760.9	30.00	762.1	56.5	13.6	58	ne.	11.2	5.0			10			0	0		Prof. Luigi Guidi.
Florence	29.74	755.3	29.99	761.7	60.1	15.6	41	ne.			6		7			0	0		Prof. Costantino Pitter.
Leghorn	29.84	757.9	29.93	760.1	61.9	16.6	42	nne.	6.9	3.1			7			0	0		Prof. P. Monte.
Rome	29.73	755.1	29.90	759.5	66.9	19.4	33	nw.	8.7	3.9			7	w.		0	0		Prof. P. S. Ferrari.
Lecce	29.67	753.5	29.91	759.8	65.3	18.5	55	nnw.	11.2	5.0			4	nw.		0	0		Prof. O. de Giorgi.
Cosenza	29.02	737.1	29.89	759.3	68.4	20.2	76	ssw.	1.8	0.8			7	s.		0	0		Prof. D. Conti.
Cagliari	29.69	754.2	29.88	759.0	69.4	20.8	47	s.			4		2	wnw.		0	0		Prof. A. Pacinotti.
Palermo	29.71	754.5	29.95	760.8	66.6	19.2	65	ne.	6.9	3.1			1			0	0		Prof. G. Giacciatore.
Syracuse	29.82	757.3	29.86	758.4	72.7	22.6	44	wnw.	11.9	5.3			3	wnw.		0	0		Prof. Vincenzo Gulliano.
Sub-series.																			
Naples, S. R	29.36	745.7	29.87	758.7	66.2	19.0	60	sw.	11.2	5.0			4	w.		0	0		Prof. T. Brioschi.
Stelvio	22.11	561.5			35.8	2.1	69	ne.			2		10			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.15	562.5			27.5	− 2.5	72	e.			6		10			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.95	760.7	29.99	761.7	55.1	12.8	80	se.	2.1	0.9		4 ck	0			0	0	fair	K. Ogawa.
Hakodate	29.94	760.5	29.95	760.7	50.0	10.0	86	w.	3.0	1.3			6			0	0	fair	
Hiroshima, I. M. Obs'y	29.75	755.6	29.76	755.9	60.7	15.9	95	nne.	2.6	1.2			10 n			0.575	14.6	light rain	J. Sogawa.
Kanazawa	29.85	758.2	29.95	760.7	63.8	17.7	83	e.	2.5	1.1			10 s			0.065	1.6	covered	S. Endo.
Kioto	29.77	756.1	29.94	760.5	63.0	17.2	82	w.	2.3	1.0			10 s			0.169	4.3	cloudy	M. Tojima.
Kochi	29.91	759.7	29.93	760.2	66.9	19.4	71	se.	14.4	6.4			10 s		se.	2.315	58.8	cloudy	K. Kusunose.
Nagasaki, I. M. Obs'y	29.41	747.0	29.61	752.1	64.1	17.8	92	ese.	21.5	9.6			10 n			0.550	14.0	light rain	S. Takehayashi.
Niigata	29.90	759.4	29.94	760.5	58.6	14.8	84	wnw.	2.2	1.0		8 cs	0			0	0	cloudy	M. Morita.
Nobiru	29.97	761.2	29.99	761.7	60.1	15.6	68	se.	0.3	4.6		0	7 s			0	0	fair	H. Midzushina.
Sapporo					52.5	11.4	86	nw.	6.0	2.7			1			0	0	clear	
Tokei Obs'y, Yeddo	29.93	760.2	29.99	761.7	64.9	18.3	90	s.	7.3	3.3			10 s			0	0	overcast	The Staff.
Wakayama	29.87	758.7	29.93	760.2	67.9	19.9	58	s.	8.9	4.0			10 n			0.296	7.5	raining	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.86	758.4	30.05	763.3	78.1	25.6	65	e.	9.5	4.2		0	4 k;ks		s.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.69	601.7	29.91	759.7	63.0	17.2	69	calm	0	0		9 cs	0	ne.		0	0	fair	Prof. Vicente Fernandez.
Leon	24.28	616.7	29.87	758.7	62.2	16.8	79	nnw.			1	5 c	0	se;s		0.071	1.8	foggy	Prof. M. Leal.
Mazatlan	29.66	753.2	29.91	759.8	71.5	21.9	95	se.	1.6	0.8		0	8 n		sw.			foggy	F. Quijano, C. E.
Mexico, Central Obs'y	23.14	587.7	30.15	765.7	57.2	14.0	76	nw.	0.2	0.1		2 c	3 ks	nw.		0.008	0.2	½ clouded	The Staff.
Morelia	24.15	613.5	30.23	767.8	62.1	16.7	87	se.			2	1	2	s.	se.	inap.	inap.	raining	M. Tena, M. D.
Pabellon, Aguascalientes	23.97	608.9	29.89	759.1	64.9	18.3	80	wnw.			1	0	8 k		wnw.	0	0	cloudy	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.41	594.5	30.13	765.3	53.6	12.0	86	calm	0	0			6		nw.	0	0	cloudy	Prof. P. Spina.
San Luis Potosi	24.21	615.0	30.13	765.4	59.2	15.1	71	e.			1	4	2	w.	w.	0	0	½ clouded	G. Barrosta, M. D.
Zacatecas	22.57	573.3	30.13	765.3	57.7	14.3	77					8 ck	0	nw.		0.572	14.5	cloudy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.47	773.9	30.47	773.9	54.7	12.6		n.			3					0	0		
Groningen	30.36	771.1	30.41	772.5	53.2	11.8		n.			1					0	0		
Helder	30.44	773.2	30.44	773.2	49.6	9.8		nnw.			1					0	0		
Hellevoetsluis	30.45	773.3	30.45	773.3	55.9	13.3	40	nnw.			1					0	0		
Utrecht	30.39	771.8	30.43	773.0	56.3	13.5	53	nnw.			2		2			0	0	lightly cl'dy	H. van der Brink.
NORWEGIAN.																			
Bergen	30.30	769.7	30.37	771.3	42.8	6.0	61	w.	11	5			1			0	0		
Brono	30.21	767.4	30.25	768.4	43.7	6.5	93	sw.	18	8			10			0.059	1.5	rain & fog	
Christiania	30.11	764.9	30.26	768.6	57.6	14.2	50	ssw.	7	3			7			0	0		
Gjesvær	29.97	761.2	29.99	761.8	51.8	11.0		calm			0		0						
Lodingen	30.08	763.9	30.12	765.1	45.3	7.4	77	w.			4		9			0.484	12.3		
PORTUGUESE.																			
Angra, Azores					62.2	16.8	75	nne.	10.5	4.7			4			0	0		Dr. J. A. Sampaio.
Campo Major	28.88	733.6	29.85	758.2	70.5	21.4	18	ssw.	0.7	0.3			10			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	29.82	757.5	29.91	759.7	64.2	17.9	56	sw.					2			0.039	1.0		Capt. D. A. de Gunha.
Lisbon, Observatory	29.54	750.4	29.90	759.4	65.8	18.8	59	ese.	3.1	1.4			10			0	0		The Staff.
Ponta Delgada, Azores	30.06	763.5	30.13	765.3	63.0	17.2	68	nne.	15.0	6.7			3			0.114	2.9		
Saint Paul de Loando	29.75	755.6	29.95	760.7	76.5	24.7	93	wnw.	0.7	0.3			0	e.		0	0	foggy	
Serra da Estrella	25.21	640.2	29.86	758.5	53.6	12.0	67	se.	21.0	9.4			10			0	0		
RUSSIAN.																			
Akmolinski	28.70	729.0	29.72	754.9	77.0	25.0	31	ese.	13	6		0	8 k			0	0		Major K. Lasarew.
Archangel	30.17	766.3	30.19	766.8	36.1	2.3	66	nw.	4	2		0	4 ks			0	0		Capt. Sselivverstow.
Astrakhan	30.04	762.9	29.95	760.8	69.4	20.8	65	n.	16	7		0	8 k			0	0		Capt. Wisganow.
Barnaul	29.52	749.9	30.00	762.1	66.6	19.2	32	ne.	0	0			1			0	0		Meteorological Obs'y.
Dorpat	29.94	760.4	30.19	766.7	47.5	8.6	52	n.	9	4			10 k			0	0		Observatory.
Ekaterinburg	29.00	736.5	29.93	760.2	65.7	18.7	72	n.	13	6		c;cs	9 k;n			0.071	1.8		Meteorological Obs'y.
Kasan	29.76	756.0	30.03	762.7	67.6	19.8	41	calm	0	0		1 c	0			0	0		Observatory.
Kertch	29.90	759.5	29.92	760.0	71.4	21.9	68	s.	2	1		5 ck	0			0	0		Lagorio & Sastyres.
Kieff	29.36	745.8	30.00	762.1	50.2	10.1	84	ene.	4	2			10 n			0.181	4.6	raining	Observatory.
Lugan	29.76	755.9	29.96	760.9	70.2	26.2	35	sse.	13	6			9			0	0		Meteorological Obs'y
Moscow	29.51	749.5	29.99	761.7	48.0	8.9	81	n.	4	2			10 s						Meteorological Obs'y.
Nikolaiev	29.88	758.9	29.95	760.7	75.6	24.2	48	s	9	4		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.77	756.2	29.86	758.4	44.4	6.9	94	e.	4	2			10			0	0		Lieut. Iwanow.
Pekin, China	29.49	749.1	29.63	752.7	67.5	19.7	49	sw.	4	2		0	2 k			0	0		Physical Observatory
St. Petersburg	30.11	764.7	30.12	765.1	45.7	7.6	51	nw.	13	6		c	7 kn			0.004	0.1		Central Physical Obs'y.
Semipalatinsk	29.18	741.1	29.80	756.8	76.6	24.8	19	n.	18	8		0	4			0	0	light clouds	Major Lasareu.
Tashkend, Laboratory	28.35	720.1	29.87	758.6	72.0	22.2	68	calm	0	0			6			0	0		Teich, A. M.
Tiflis	28.56	725.5	29.91	759.8	78.4	25.8	45	se.	2	1		0	0			0	0		Physical Observatory
Vladivostock	29.79	756.7	29.86	758.4	49.1	9.5	67	se.	4	2			10 n			0.173	4.4	sleeting	Astronomical Obs'y.
Warsaw	29.72	755.0	30.16	766.0	46.2	7.9	78	nnw.	9	4			10ks;n						Berg, Assistant.
Wilna	29.74	755.5	30.17	766.2	52.9	11.6	65	nw.	2	1			7			0.256	6.5		M. O. Marks.
Yeniseisk																			
SPANISH.																			
Barcelona, Met. Obs'y	29.98	761.5	30.08	764.1	62.2	16.8	57	e.	4.7	2.1			0			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.08	764.0	30.14	765.5	66.6	19.2	47	e.	0.7	0.3		2	0	w.		0	0	almost clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.07	687.5	29.98	761.5	62.6	17.0	50	ne.	9.8	4.4			7			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.73	704.4	29.86	758.5	77.4	25.2	47	se.	9.4	4.2			9			0	0	almost cov'd	The Staff.
Murcia, Met. Obs'y	29.83	757.6	29.99	761.8	65.1	18.4	74	ene.	9.4	4.2		4	5	ene.		0.008	0.2	misty	Olayo Diaz, Director.
Santiago, Met. Obs'y	28.99	736.4	29.85	758.3	73.9	23.3	44	calm	0	0			6			0	0	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	29.98	761.4	30.04	763.1	78.2	25.7	57	nne.	6.3	2.8		0	5 k		ne.	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.77	756.2	29.83	757.6	80.4	26.9	84	ne.	2.2	1.0			10 n		ne.	0.020	0.5	light rain	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.87	758.7	29.97	761.2	65.5	18.6	68	se.	9.1	4.1			10		se.	0.053	1.3		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.91	759.8	30.00	762.1	78.4	25.8		se.	3.6	1.6		2 s	3 k	se.	se.	0	0		Manuel Maese.
Tuguegarao, Philippine Id's	29.71	754.6	29.84	757.9	82.3	27.9	74	nnw.	4.5	2.0		0	8 ks		nw.	0	0	very cloudy	Jose L. Yrastorza.
SWEDISH.																			
Haparanda	30.14	765.5	30.18	766.5	42.4	5.8	50	s.			2		5			0	0		
Umea	30.11	764.9	30.17	766.2	43.5	6.4	83	ne.			2		10			0	0		
Hernosand	30.09	764.3	30.14	765.6	50.7	10.4	60	n.			2		10			0.012	0.3		
Stockholm	30.06	763.4	30.23	767.9	49.1	9.5	65	w.			4		10			0	0		
Wisby	30.21	767.4	30.27	768.9	45.7	7.6	80	wnw.			2		5			0	0		
Sub-series.																			
Upsala	30.12	765.1	30.21	767.3	46.4	8.0	72	nw.	11.2	5.0			10		nw.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.73	729.7	30.16	766.1	51.1	10.6	65	ne.			8					0	0	clear	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather	OBSERVERS.
TURKISH.																			
Constantinople	.....	.....	30.06	763.4	73.6	23.1	34	ese.	3.4	1.5	.....	.....	10	.....	sw.	0.067	1.7	.....	The Observatory.
Valona	.....	.....	30.03	762.8	63.0	17.2	.....	nw.	.....	.....	1	.....	2	.....	.....	0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.93	760.2	71.1	21.7	78	nne.	.....	.....	3	0	0	.....	.....	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.04	763.0	30.12	765.0	52.5	11.4	50	n.	1	0.4	.....	0	hz.	.....	.....	0	0	clear	J. O. Barnes.
Alpena, Michigan	29.64	752.8	30.30	769.6	50	10.0	33	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	Jas. J. Fitzgerald.
Atlanta, Georgia	29.04	737.6	30.21	767.3	51.0	10.6	74	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	H. Hall.
Atlantic City, New Jersey	30.05	763.3	30.06	763.5	54	12.2	66	sw.	5	2.2	.....	10 ck	0	.....	.....	0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	30.05	763.3	30.24	768.1	52	11.1	86	calm	0	0	.....	0	fg.	.....	nw.	inap.	inap.	clear	John Healy.
Baltimore, Maryland	30.07	763.8	30.12	765.0	57	13.9	64	n.	6	2.7	.....	3 cs	hz.	nw.	.....	inap.	inap.	clear	Robert Seyboth.
Barnegat, New Jersey	30.05	763.3	30.07	763.8	50.0	10.0	77	nw.	6	2.7	.....	0	7 k	.....	ne.	0	0	fair	Chas. F. Merritt.
Bismarck, Dakota	28.06	712.7	29.84	757.9	56	13.3	69	s.	20	8.9	.....	.....	10 s	.....	s.	inap.	inap.	cloudy	Cyrus Cramer.
Boise City, Idaho	27.32	693.9	30.16	766.1	43	6.1	76	calm	0	0	.....	3 cs	0	calm	.....	0	0	fair	B. E. Light.
Boston, Massachusetts	29.96	761.0	30.12	765.0	49.0	9.4	56	n.	11	4.9	.....	7 k	0	.....	.....	0	0	fair	O. B. Cole.
Brownsville, Texas	29.99	761.7	30.03	762.7	75	23.9	90	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	M. McCarty.
Buffalo, New York	29.41	747.0	30.15	765.8	48.4	9.1	54	n.	1	0.4	.....	0	hz.	.....	.....	0	0	dense haze	Wm. Finn.
Burlington, Vermont	29.88	758.9	30.17	766.3	42.5	5.8	54	n.	15	6.7	.....	0	0	.....	.....	0	0	clear	G. C. Schaeffer.
Cairo, Illinois	29.94	760.5	30.34	770.6	53.6	12.0	70	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. H. Ray.
Campo, California	27.35	694.7	29.88	758.9	34	1.1	71	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.11	688.6	29.78	756.4	49.5	9.7	60	n.	.....	.....	1	6 cs	0	w.	.....	0	0	fair	J. T. Fitzgerald.
Cape Henry, Virginia	30.10	764.5	30.12	765.0	56	13.3	69	nw.	10	4.5	.....	2 c	0	.....	.....	0	0	clear	J. E. Lanouette.
Cape May, New Jersey	30.04	763.0	30.07	763.8	52	11.1	86	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	W. Bolten.
Cedar Keys, Florida	30.14	765.5	30.16	766.1	59	15.0	53	n.	12	5.4	.....	0	0	.....	.....	0	0	clear	F. W. Mixer.
Champaign, Illinois	29.49	749.0	30.29	769.4	48.0	8.9	68	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	L. A. Welsh.
Charleston, S. Carolina	30.12	765.0	30.17	766.3	56	13.3	69	n.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.31	744.5	30.15	765.8	55.0	12.8	74	n.	2	0.9	.....	0	sk.	.....	.....	0.02	0.5	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.43	747.5	30.24	768.1	50.0	10.0	71	nw.	2	0.9	.....	0	fg.	.....	.....	0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.03	610.4	29.90	759.4	44.2	6.8	65	nw.	1	0.4	.....	6 c	0	nw.	.....	0	0	fair	E. McGovern.
Chicago, Illinois	29.60	751.8	30.30	769.6	48.2	9.0	56	nw.	5	2.2	.....	hz.	hz.	.....	.....	0	0	clear	J. Mitchell.
Chincoteague, Virginia	30.06	763.5	30.08	764.0	54	12.2	86	s.	3	1.3	.....	3 c	4 ks	nw.	.....	0.03	0.8	fair	V. P. Temple.
Cincinnati, Ohio	29.63	752.6	30.28	769.1	50	10.0	77	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	R. B. Watkins.
Cleveland, Ohio	29.46	748.3	30.19	766.8	47.3	8.5	63	w.	6	2.7	.....	5 k	0	nw.	.....	0	0	fair	J. B. Newlin.
Coleman City, Texas	28.29	718.6	30.08	764.0	64	17.8	84	se.	8	3.6	.....	10 cs	0	.....	.....	0	0	cloudy	L. Dorman.
Columbus, Ohio	29.39	746.5	30.23	767.8	46	7.8	76	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	D. Cuthbertson.
Concho, Texas	28.13	714.5	30.03	762.7	67	19.4	84	sw.	24	10.7	.....	0	5 s	.....	s.	0.37	9.4	fair	W. W. McConihe.
Davenport, Iowa	29.65	753.1	30.29	769.4	53	11.7	61	e.	4	1.8	.....	hz.	hz.	calm	calm	0	0	clear	R. R. Martin.
Dayton, Washington T'y	28.42	721.9	30.17	766.3	36.3	2.4	91	sw.	1	0.4	.....	0	0	.....	.....	0.29	7.4	clear	H. Clifford.
Deadwood, Dakota	25.41	645.4	29.92	760.0	47.5	8.6	66	sw.	4	1.8	.....	10 k	0	s.	.....	inap.	inap.	cloudy	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	65	18.3	48	se.	10	4.5	.....	5 k	c	se.	.....	0	0	fair	D. J. Carr.
Delaware Breakwater, Del.	30.06	763.5	30.08	764.0	52	11.1	86	s.	5	2.2	.....	9 ck	0	calm	.....	0	0	cloudy	A. Schneider.
Denison, Texas	29.37	746.0	30.16	766.1	58.0	14.4	74	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. McGlone.
Denver, Colorado	24.72	627.9	29.88	758.9	50.5	10.3	94	n.	9	4.0	.....	.....	fg.	.....	calm	0.01	0.3	dense fog	F. M. Neal.
Des Moines, Iowa	29.39	746.5	30.28	769.1	50	10.0	71	calm	0	0	.....	1 cs	0	.....	.....	0	0	clear	F. W. Conrad.
Detroit, Michigan	29.50	749.3	30.20	767.1	50.0	10.0	59	nw.	10	4.5	.....	0	0	.....	.....	0	0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.47	697.7	30.02	762.5	57	13.9	69	se.	16	7.2	.....	.....	10 s	.....	se.	inap.	inap.	cloudy	E. A. Thomas.
Dubuque, Iowa	29.58	751.3	30.28	769.1	51.5	10.8	72	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.54	750.3	30.24	768.1	46	7.8	60	se.	3	1.3	.....	hz.	hz.	.....	.....	0	0	dense haze	N. B. Conger.
Eagle Pass, Texas	29.26	743.2	30.06	763.5	70.0	21.1	90	se.	9	4.0	.....	.....	10 s	.....	se.	1.32	33.5	cloudy	F. Belford.
Eagle Rock, Idaho	25.37	644.4	30.05	763.3	28	— 2.2	80	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. M. Clifford.
Eastport, Maine	30.09	764.3	30.16	766.1	43.5	6.4	44	n.	14	6.3	.....	0	0	.....	.....	0	0	clear	J. H. Melton.
El Paso, Texas	26.18	665.0	29.82	757.4	52	11.1	38	calm	0	0	.....	7 ak	0	calm	.....	0	0	fair	J. F. Marshall.
Erie, Pennsylvania	29.44	747.8	30.16	766.1	49	9.4	71	calm	0	0	.....	0	0	.....	.....	0	0	clear	R. H. Paxton.
Escanaba, Michigan	29.60	751.8	30.26	768.6	48	8.9	71	calm	0	0	.....	0	hz.	.....	.....	0	0	clear	C. Dill.
Fort Apache, Arizona	24.99	634.7	29.81	757.2	36	2.2	66	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.12	688.8	29.96	761.0	40	4.4	82	sw.	16	7.2	.....	0	2 s	.....	sw.	inap.	inap.	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.26	717.8	29.82	757.4	60.0	15.6	67	se.	8	3.6	.....	.....	10 s	.....	calm	0	0	cloudy	A. Pritchard.
Fort Benton, Montana	27.18	690.4	29.97	761.2	42	5.6	68	w.	14	6.3	.....	3 c	0	.....	.....	0.02	0.5	clear	G. W. Davis.
Fort Buford, Dakota	27.91	708.9	29.89	759.2	48	8.9	71	w.	22	9.8	.....	0	0	.....	.....	0.15	3.8	clear	A. H. Bell.
Fort Custer, Montana	26.88	682.7	29.98	761.5	45	7.2	63	nw.	13	5.8	.....	0	2 s	.....	calm	0	0	clear	V. Verge.
Fort Davis, Texas	25.15	638.8	29.87	758.7	61	16.1	72	calm	0	0	.....	0	7 ks	.....	calm	0	0	fair	J. Williams.
Fort Elliott, Texas	27.28	692.9	29.98	761.5	59	15.0	84	se.	16	7.2	.....	.....	10 s	.....	se.	0.43	10.9	threatening	W. J. Oundall.
Fort Gibson, Indian T'y	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. B. Campbell.
Fort Grant, Arizona	25.19	639.8	29.80	756.9	58	14.4	12	e.	4	1.8	.....	5 cs	0	.....	.....	0	0	fair	T. J. Macgowan.
Fort Keogh, Montana	27.51	698.7	29.96	761.0	41	5.0	76	sw.	9	4.0	.....	0	0	.....	.....	0	0	clear	W. B. Stockman.
Fort Macon, North Carolina	30.13	765.3	30.14	765.5	54	12.2	72	n.	12	5.4	.....	hz.	0	calm	.....	0	0	clear	L. Leonardy.
Fort McKavett, Texas	27.76	705.1	30.00	762.0	64	17.8	73	s.	10	4.5	.....	.....	10 s	.....	.....	0.37	9.4	cloudy	J. E. Thatcher.
Fort Missoula, Montana	26.82	681.2	30.12	765.0	40	4.4	82	se.	3	1.3	.....	.....	10 s	.....	.....	0.24	6.1	cloudy	J. H. Jones.
Fort St. Michaels, Alaska	30.27	768.8	30.31	769.9	29	— 1.7	89	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	A. P. Leavitt.
Fort Shaw, Montana	26.38	670.0	29.98	761.5	42	5.6	59	sw.	16	7.2	.....	8 cs	0	sw.	.....	0.12	3.0	cloudy	A. L. Mathews.
Fort Sill, Indian Territory	28.90	734.0	30.12	765.0	62.5	16.9	69	e.	7	3.1	.....	6 ck	4 s	s.	se.	0	0	cloudy	T. Cleary.
Fort Stevenson, Dakota	27.99	710.9	29.82	757.4	55	12.8	80	s.	14	6.3	.....	6 cs	0	se.	.....	0.02	0.5	fair	W. Burrows.
Fort Verde, Arizona	.....	.....	.....	.....	54.3	12.4	40	sw.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.48	621.8	.....	.....	36.8	2.7	53	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	T. M. Ambler.
Fredericksburg, Texas	28.36	720.3	30.08	764.0	63	17.2	90	calm	0	0	.....	8 k	0	s.	.....	0	0	cloudy	H. S. Miles.
Galveston, Texas	30.09	764.3	30.14	765.5	72	22.2	58	se.	8	3.6	.....	5 c	hz.	s.	.....	0	0	fair	E. O'C. MacInernev.
Grand Haven, Michigan	29.63	752.6	30.29	769.4	50.0	10.0	56	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. A. Reid.
Hatteras, North Carolina	30.13	765.3	30.15	765.8	56	13.3	69	n.	4	1.8	.....	hz.	0	.....	.....	0.02	0.5	clear	R. M. Crawford.
Helena, Montana	25.85	656.6	30.02	762.5	39	3.9	65	se.	4	1.8	.....	5 k	0	.....	.....	0	0	fair	S. Wheaton.
Henrietta, Texas	29.15	740.4	30.13	765.3	62.0	16.7	78	se.	9	4.0	.....	0	0	.....	.....	0	0	clear	J. W. Byram.
Huron, Dakota	28.70	729.0	30.05	763.3	51.1	10.6	66	se.	18	8.0	.....	10 cs	0	.....	.....	0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.50	749.3	30.28	769.1	51	10.6	52	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	O. Schutze
Indianola, Texas	30.07	763.8	30.10	764.5	73.6	23.1	71	se.	12	5.4	.....	4 c	2 k	nw.	se.	0	0	fair	I. A. Reed.
Jacksboro, Texas	28.95	735.3	30.10	764.5	65	18.3	78	e.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. P. Sherry.
Jacksonville, Florida	30.11	764.8	30.15	765.8	61	16.1	72	n.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. W. Smith.
Keokuk, Iowa	29.64	752.8	30.30	769.6	53.5	11.9	68	calm	0	0	.....	0	hz.	.....	.....	0	0	dense haze	F. Z. Gosewisch
Key West, Florida	30.01	762.2	30.03	762.7	77.0	25.0	56	n.	11	4.9	.....	2 ck	3 k	.....	n.	0	0	fair	L. M. Melbourne.
Kittyhawk, North Carolina	30.12	765.0	30.14	765.5	51	10.6	80	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	E. A. Beals.
Knoxville, Tennessee	29.22	742.2	30.24	768.1	49	9.4	80	ne.	3	1.3	.....	0	fg.	.....	.....	0.03	0.8	clear	J. A. Cody.
La Crosse, Wisconsin	29.49	749.0	30.25	768.3	56	13.3	57	calm	0	0	.....	0	0	.....	.....	0	0	clear	S. C. Emery.
La Mesilla, New Mexico	26.02	660.9	29.78	756.4	46.8	8.2	63	calm	0	0	.....	6 c	3 s	.....	.....	0	0	cloudy	N. D. Lane.
Leavenworth, Kansas	29.37	746.0	30.25	768.3	51	10.6	59	calm	0	0	.....	3 cs	0	sw.	.....	0	0	clear	A. W. Browne.
Lewiston, Idaho	29.32	744.7	30.16	766.1	41.0	5.0	82	e.	1	0.4	.....	0	0	.....	.....	0.29	7.4	clear	J. M. Burlew.
Little Rock, Arkansas	29.96	761.0	30.28	769.1	54	12.2	80	e.	5	2.2	.....	0	0	.....	.....	0	0	clear	W. U. Simmons.
Los Angeles, California	29.60	751.8	30.00	762.0	48.2	9.0	77	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.70	754.4	30.25	768.3	49	9.4	63	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	H. C. Smyth.
Lynchburg, Virginia	29.46	748.3	30.14	765.5	55.0	12.8	69	sw.	1	0.4	.....	6 cs	0	.....	.....	inap.	inap.	fair	W. R. Bushby.
Madison, Wisconsin	29.29	744.0	30.29	769.4	48	8.9	77	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	C. A. Shaw.
Marquette, Michigan	29.54	750.3	30.26	768.6	58	14.4	48	nw.	4	1.8	.....	hz.	0	.....	.....	0	0	clear	J. Gilligan.
Memphis, Tennessee	29.96	761.0	30.29	769.4	52	11.1	52	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.55	750.6	30.29	769.4	47	8.3	56	w.	7	3.1	.....	0	hz.	.....	.....	0	0	clear	W. Line.
Mobile, Alabama	30.19	766.8	30.23	767.8	56	13.3	62	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. D. Paxton.
Montgomery, Alabama	29.99	761.7	30.22	767.6	53.4	11.9	65	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. B. McLaughlin.

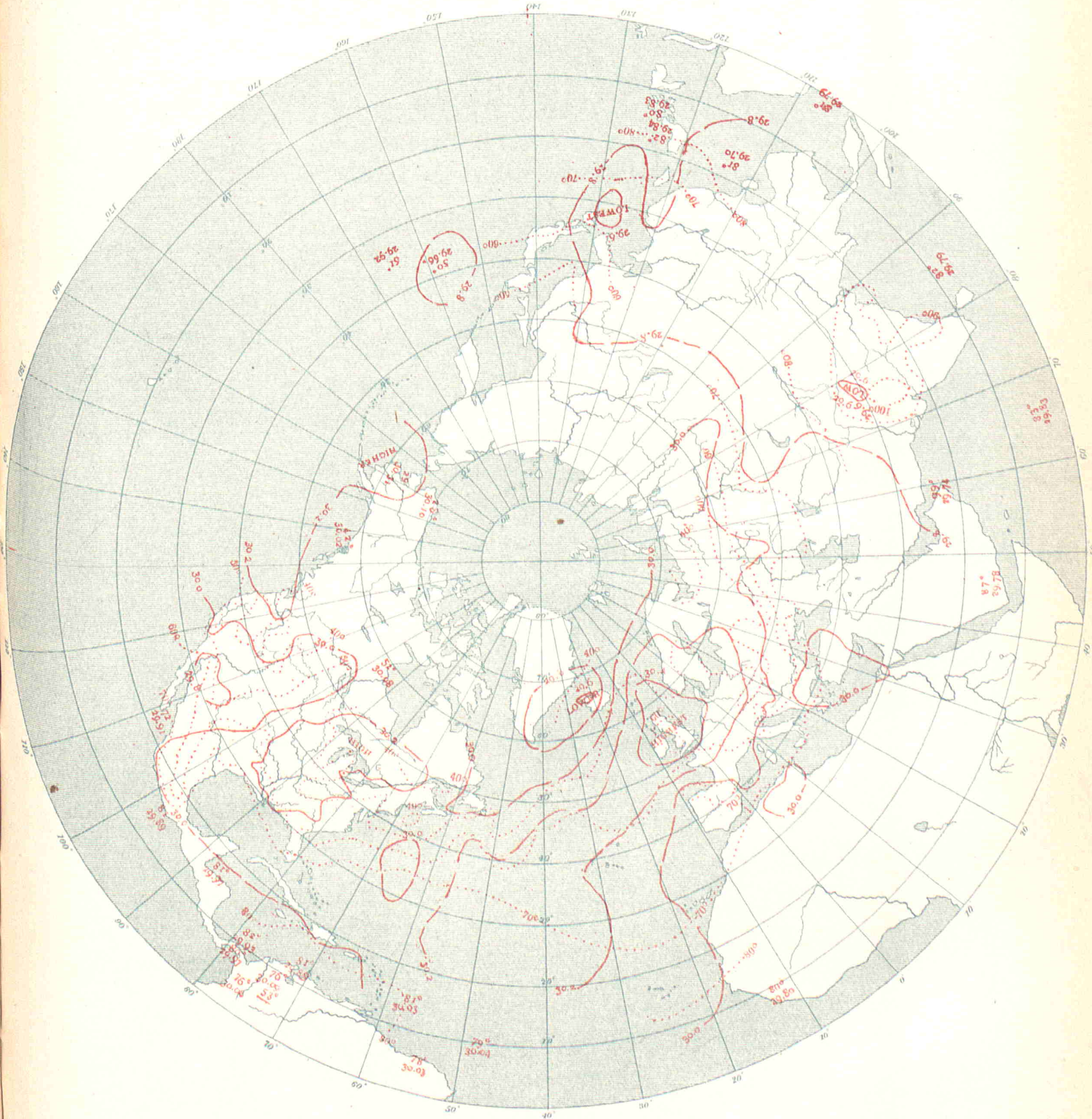
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Moorhead, Minnesota	29.09	738.9	30.07	763.8	52	11.1	72	se.	18	8.0			9 s		se.	0	0	cloudy	H. Bessant.
Morgantown, W. Virginia	29.22	742.2	30.23	767.8	48.0	8.9	86	calm	0	0		hz.	0			0	0	clear	J. C. Sprigg, jr.
Mt. Washington, N. H	23.82	605.0	30.00	762.0	27.0	— 2.8	72	nw.	18	8.0		0	sk.		nw.	0	0	clear	J. G. Linsley.
Nashville, Tennessee	29.75	755.6	30.28	769.1	47.5	8.6	86	nw.	1	0.4		0	fg.			0	0	clear	L. A. Jesunofsky.
New Haven, Connecticut	29.95	760.7	30.07	763.8	45	7.2	76	n.	9	4.0		10 cs	fg.	sw.		0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.03	762.7	30.08	764.0	47	8.3	63	calm	0	0		5 k	0	calm		0	0	fair	J. G. Lynch.
New Orleans, Louisiana	30.13	765.3	30.18	766.6	64.5	18.1	60	ne.	8	3.6		5 c	sk.			0	0	fair	L. Dunne.
Newport, Rhode Island	29.99	761.7	30.04	763.0	46.8	8.2	87	n.	7	3.1		4 c	2ks; sk	e.	n.	0	0	fair	W. McGillivray.
New River, N. Carolina					52	11.1	72	nw.			1	0	0			0.09	2.3	clear	C. C. Corbin.
New Shoreham, Rhode I'd	30.03	762.7	30.06	763.5	47.0	8.3	93	nw.	11	4.9			fg.			0	0	dense fog	W. Davis.
New York, New York	29.90	759.4	30.08	764.0	52	11.1	80	n.	3	1.3		4 cs	5 s	n.		0	0	cloudy	E. B. Garriott.
Norfolk, Virginia	30.08	764.0	30.11	764.8	58	14.4	74	nw.	4	1.8		0	0			0	0	clear	J. T. Elker.
North Platte, Nebraska	27.12	688.8	29.99	761.7	53.6	12.0	80	se.	12	5.4			10 s			0.12	3.0	cloudy	E. F. Brady.
Olympia, Washington T'y	30.19	766.8	30.23	767.8	39.0	3.9	86	s.	3	1.3		10 k	0	w.		inap.	inap.	cloudy	J. Dascomb.
Omaha, Nebraska	29.09	738.9	30.25	768.3	53.6	12.0	62	se.	4	1.8		6 c	hz.			0	0	fair	A. Pollak.
Ogdaamie, Pt. Barrow, Alas.	30.08	764.0	30.10	764.5	28.2	— 2.1	100	w.	10	4.5			10 s			inap.	inap.	cloudy	P. H. Ray.
Oswego, New York	29.79	756.7	30.12	765.0	44.3	6.8	65	ne.	20	8.9		0	hz.			0	0	clear	S. W. Beall.
Palestine, Texas	29.65	753.1	30.20	767.1	61.0	16.1	87	e.	4	1.8		4 cs	0	nw.		0	0	fair	L. M. Pindell.
Pensacola, Florida	30.18	766.6	30.21	767.3	61.3	16.3	50	ne.	5	2.2		0	0			0	0	clear	M. McGauran.
Philadelphia, Pa	29.99	761.7	30.09	764.3	52	11.1	59	nw.	8	3.6			10 s		nw.	0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.81	452.4	29.87	758.7	21.5	— 5.8	62	sw.	17	7.6		2 c	0			0	0	clear	L. M. Dey.
Pioche, Nevada	24.00	609.6	29.92	760.0	41	5.0	33	nw.	9	4.0		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.38	746.2	30.18	766.6	46.0	7.8	68	nw.	2	0.9		0	0			0	0	clear	J. H. Bryce.
Poplar River, Montana	27.75	704.8						nw.			4	0	0			0.10	2.5	clear	U. D. Maxwell.
Port Eads, Louisiana	30.18	766.6	30.19	766.8	68.1	20.1	70	n.	8	3.6		0	0			0	0	clear	H. G. Christian.
Port Huron, Michigan	29.53	750.0	30.21	767.3	45.0	7.2	74	n.	14	6.3		0	hz.			0	0	clear	W. O. Bailey.
Portland, Maine	30.10	764.5	30.15	765.8	46.0	7.8	54	ne.	17	7.6		0	hz.		calm	0	0	clear	D. C. Murphy.
Portland, Oregon	30.16	766.1	30.23	767.8	41.8	5.4	93	calm	0	0			fg.		calm	0.18	4.6	dense fog	M. L. Hearne.
Portsmouth, N. Carolina					55	12.8	74	ne.	10	4.5		0	0			0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.70	627.4	29.80	756.9	45	7.2	39	s.	2	0.9		0	0			0	0	clear	J. McN. Wright.
Provincetown, Mass	30.02	762.5	30.05	763.3	45	7.2	76	n.	6	2.7		0	3 s			0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.05	763.3	30.06	763.5	67	19.4	55	n.	9	4.0		0	0			0	0	clear	W. J. Evans.
Red Bluff, California	29.68	753.9	30.05	763.3	51.0	10.6	66	n.	4	1.8		0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.82	757.4	30.06	763.5	74	23.3	82	se.	8	3.6		8 ck	0	e.		0	0	cloudy	P. M. Wilson.
Rochester, New York	29.50	749.3	30.16	766.1	47	8.3	48	ne.	12	5.4		0	hz.			0	0	clear	F. Gillam.
Roseburg, Oregon	29.66	753.4	30.21	767.3	38.5	3.6	86	e.	1	0.4		4 ck	0	w.		0	0	fair	J. J. Nanry.
Sacramento, California	29.96	761.0	30.04	763.0	49.4	9.7	86	se.	6	2.7		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.73	755.1	30.32	770.1	50.0	10.0	100	ne.	2	0.9			fg.			0	0	dense fog	J. H. Webber.
St. Paul, Minnesota	29.35	745.5	30.20	767.1	52.0	11.1	72	e.	5	2.2		1 cs	0			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.14	740.1	30.00	762.0	55	12.8	62	se.	19	8.5		0	8 k; s		calm	0	0	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.68	652.3	30.00	762.0	44	6.7	56	nw.	4	1.8		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.39	746.5	30.09	764.3	63	17.2	93	ne.	2	0.9		2 cs	2 s			0	0	fair	E. Lane.
San Diego, California	29.87	758.7	29.94	760.5	52.6	11.4	91	e.	4	1.8		0	2 s		sw.	0	0	clear	A. O. Dobbins.
Sandusky, Ohio	29.52	749.8	30.20	767.1	49.9	9.9	63	w	9	4.0		5 ck	0	nw.		0	0	fair	M. H. Perry.
Sandy Hook, New Jersey	30.03	762.7	30.07	763.8	51.0	10.6	80	nw.	4	1.8		8 k	hz.	nw.	calm	0	0	cloudy	B. A. Blundon.
San Francisco, California	30.02	762.5	30.09	764.3	50	10.0	77	sw.	4	1.8		0	0			0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.21	589.5	29.82	757.4	51	10.6	34	e.	11	4.9		4 c	0			0	0	fair	H. U. Jones.
Savannah, Georgia	30.10	764.5	30.19	766.8	56	13.3	72	n.	8	3.6		0	0			0	0	clear	H. W. Ford.
Shreveport, Louisiana	29.98	761.5	30.22	767.6	60	15.6	65	e.	6	2.7		3 c	0	e.		0	0	clear	E. N. Meekins.
Silver City, New Mexico	24.22	615.2	29.77	756.1	49	9.4	50	nw.	4	1.8		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	29.96	761.0	30.02	762.5	41.7	5.4	73	ne.	3	1.3		0	0			0	0	clear	J. J. McLean.
Smithville, North Carolina	30.14	765.5	30.18	766.6	52	11.1	66	n.	6	2.7		0	0			0.29	7.4	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.09	713.5	30.14	765.5	38	3.3	92	s.	7	3.1		2 cs	0			0.48	12.2	clear	D. Moore.
Springfield, Illinois	29.65	753.1	30.32	770.1	54	12.2	55	calm	0	0		0	0			0	0	clear	T. B. Jennings.
Springfield, Massachusetts	29.95	760.7	30.08	764.0	52.6	11.4	72	n.	3	1.3		5 c	0	w.		0	0	fair	T. S. Outram.
Springfield, Mo	28.84	732.5	30.32	770.1	52	11.1	66	se.	7	3.1		0	0			0	0	clear	J. B. Marbury.
Starkville, Miss	29.80	756.9			54	12.2	74	n.	4	1.8		0	0			0	0	clear	M. J. Wright.
Stockton, Texas	26.99	685.5	30.00	762.0	65.0	18.3	90	se.	36	16.1			10 s		se.	0	0	cloudy	J. O'Dowd.
Thatcher's Island, Mass	30.02	762.5	30.07	763.8	43.8	6.8	73	ne.	25	11.2		5 c	hz.	nw.		0	0	fair	F. R. Day.
Toledo, Ohio	29.51	749.5	30.19	766.8	50	10.0	44	nw.	5	2.2		0	0			0	0	clear	A. Buell.
Tucson, Arizona	27.45	697.2	29.79	756.7	59	15.0	41	e.	3	1.3		3 c	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.87	758.7	30.24	768.1	38.5	3.6	84	e.	2	0.9		2 cs	0			0.01	0.3	clear	J. Daly.
Uvalde, Texas	29.12	739.6	30.07	763.8	69	20.6	78	se.	5	2.2			10 s		se.	inap.	inap.	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.99	761.7	30.24	768.1	60	15.6	50	calm	0	0		2 c	0			0	0	clear	H. T. Brisbane.
Visalia, California	29.65	753.1	30.02	762.5	52	11.1	59	nw.	4	1.8		2 c	0			0	0	clear	W. L. Seward.
Washington, D. C	30.02	762 5	30.13	765.3	53.8	12 1	72	n.	5	2.2		0	hz.			inap.	inap.	clear	B. M. Purssell.
West Las Animas, Colorado	25.98	659.9	29.84	757.9	58.9	14.9	81	ne.	6	2.7		5 cs	0	sw.		0	0	fair	J. Grover.
Williamsport, Pa	29.52	749.8	30.12	765.0	47	8.3	66	w.	6	2.7		3 ck	hz.	n.		0	0	fair	B. F. Hough.
Wilmington, N. Carolina	30.11	764 8	30.16	766.1	53	11.7	66	calm	0	0		0	0			0.08	2.0	clear	A. T. Sherwood.
Winnemucca, Nevada	25.67	652.0	30.02	762.5	35	1.7	48	ne.	8	3.6		0	0			0	0	clear	J. R. Williams.
Yankton, Dakota	28.89	733.8	30.17	766.3	51	10.6	66	s.	18	8.0		7 cs	0			0	0	fair	J. H. Atfield.
Yuma, Arizona	29.62	752.3	29.78	756.4	63.3	17.4	59	calm	0	0		0	1 s			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.10	561.3			53.0	11.7	82	calm	0	0			10 ks			0.48	12.2	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.02	762.5	30.03	762.7	81	27.2	91	e.				5 k	5 ks	e.	e.	0.30	7.6	cloudy	J. A. Racker.
Buenaventura, U. S. C	30.03	762.7	30.06	763.5	76	24.4	90	calm	0	0			10 n		n.	1.60	40.6	raining	J. I. Plume.
Havana, Cuba, W. I	30.02	762.5	30.07	763.8	78	25.6	69	n.	4.8	2.1		0	8 ks		ne.	0	0	cloudy	A. Van Caneghem.
Kingston, Jamaica, W. I	29.97	761.2	29.98	761.5	74.0	23.3	96	calm	0	0		1 cs	9 s		e.	0.38	9.7	rainy	Robert Johnston.
Magua, San Domingo, W. I					76	24.4		calm			0		10 k		nw.	0.97	24.6		S. M. Pike.
Navassa, W. I																			F. M. Everett.
Paramaribo, S. A	30.03	762.7	30.03	762.7	78	25.6	86	e.			2	3 c	4 k	e.		0	0		Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.63	752.6	30.09	764.3	76	24.4	89	calm			0		10			1.23	31.2	raining	Francisco J. Cisneros.
Rivas, Nicaragua, C. A							92	se.			1	0	6 ks		se.	0	0	cloudy	Earl Flint.
Santiago de Cuba, W. I	29.98	761.5	30.01	762.2	75	23.9	90	calm	0	0		3 cs	8 s			0.25	6.3	cloudy	Robert Mason.
York Factory, B. A	30.03	762.7	30.08	764.0	52.0	11.1	90	s.	6	2.7		1 k	1 s	sw.	s.	0	0	fair	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Alexandra, Suda Bay, Turkey in Europe	29.83	757.7	74	23.3	63	wsw.			1–2		3							d. clouds.
H. M. S. Amethyst, N. 19° 10′, W. 24° 08′	30.05	763.3	72	22.2	88	nne.			2		3	nne.						d. clouds.
H. M. S. Champion, N. 4° 00′ W. 119° 50′			81	27.2	87	s.			1		2	calm				2	n.	d. clouds.
H. M. S. Cleopatra, N. 18° 42′, E. 111° 18′	29.70	754.4	80.5	26.9	100	se.			2–3		6					2	e.	d. clouds.
H. M. S. Comus, Singapore, Malay Peninsula	29.79	756.7	80.5	26.9	91	s.			1		7							d. clouds.
H. M. S. Condor, N. 39° 49′, E. 19° 53′	29.88	758.9	66	18.9		nnw.			2		7							showery.
H. M. S. Coquette, Alexandria, Egypt	30.02	762.5	70	21.1		nne.			1		2	nnw.				3	sse.	showery.
H. M. S. Dido, N. 13° 05′, W. 59° 30′	30.07	763.8	78	25.6		ese.			2–3		2	se.						d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	29.91	759.7	70.5	21.4	97	ese.			1		10	ese.						d. clouds.
H. M. S. Druid, N. 16° 58′, W. 87° 21′	29.97	761.2	80.5	26.9	87	ne.			1–2		5	ne.						raining.
H. M. S. Dwarf, S. 34° 36′, W. 58° 19′	29.88	758.9	53	11.7	90	calm			0		10					2	ene.	d. clouds.
H. M. S. Eclipse, S. 21° 28′, E. 42° 45′	29.97	761.2	82	27.8		calm			0		2							overcast.
H. M. S. Emerald, S. 52° 55′ W. 150° 50′	29.10	739.1	46	7.8	100	nw.			1–2		4	nw.				3	nw.	d. clouds.
H. M. S. Euryalus, Trincomalee, Ceylon	29.79	756.7	82	27.8	91	se.			2		9	calm						d. clouds.
H. M. S. Fantome, N. 11° 04′, W. 71° 43′	29.89	759.2	81	27.2		ene.			1		7	ene.				2	ene.	d. clouds.
H. M. S. Flying Fish, N. 33° 42′, E. 126° 13′	29.54	750.3	63	17.2	94	ne.			2		10					4	ne	raining.
H. M. S. Fawn, N. 4° 07′ E. 62° 42′	29.83	757.7	82.5	28.1	79	nw.			1–2		9	sw.				2	sw.	d. clouds.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.04	763.0	56.5	13.6	90	calm			0		9	w.						misty
H. M. S. Garnet, Colonia, Rio de La Plata, Uruguay	29.91	759.7	57	13.9	87	calm			0		10							overcast.
H. M. S. Griffon, N. 45° 12′ W. 61° 17′	30.20	767.1	40	4.4	82	wsw.			1							5	ese.	foggy.
H. M. S. Inconstant, S. 33° 00′, E. 16° 00′	30.25	768.3	61	16.1	94	sw.			4–5		8	sw.				3	sw.	showery.
H. M. S. Iron Duke, N. 32° 44′, E. 129° 52′	29.69	754.1	66	18.9	94	se.			1–2		8							raining.
H. M. S. Kingfisher, S. 10° 19′, W. 78° 29′	30.04	763.0	63	17.2		ese.			2–3		8	calm				2	se.	d. clouds.
H. M. S. Lark, S. 7° 23′, E. 156° 27′	29.89	759.2	81.3	27.4		e.			1		2					1	se.	d. clouds.
H. M. S. Magpie, N. 34° 56′, E. 139° 52′	30.01	762.2	67.3	19.6	84	ssw.			1		10 s	sw.						d. clouds.
H. M. S. Northampton, Bermuda, W. I.	29.93	760.2	71	21.7	100	sse.			3									raining.
H. M. S. Orontes, N 17° 30′ W. 74° 12′	29.98	761.5	80.5	26.9	97	e.			3		10					2	e.	raining.
H. M. S. Rambler, S. 3° 22′, E. 8° 10′	29.92	760.0	78	25.6	95	ssw.			3		7	ssw.				3	ssw.	d. clouds.
H. M. S. Rocket, N. 48° 27′, W. 123° 27′	30.18	766.6	43	6.1	91	calm			0		2							d. clouds.
H. M. S. Sylvia, Funchal, Maderia	29.93	760.2	68.5	20.3	65	ssw.			1		3							d. clouds.
H. M. S. Tenedos, N. 47° 30′ W. 55° 28′	29.98	761.5	42	5.6	91	sw.			1		8					1	s.	d. clouds.
H. M. S. Thetis, S. 20° 18′ W. 70° 20′	30.07	763.8	62	16.7	77	ne.			1		8					2	sw.	d. clouds.
H. M. S. Triumph, Coqumibo, Chili	30.02	762.5	56	13.3	93	calm			0		10	calm						d. clouds.
H. M. S. Tyne, N. 36° 39′, W. 8° 02′	29.91	759.7	64	17.8	83	wnw.			2–3		4					2	wnw.	d. clouds.
H. M. S. Woodlark, N. 22° 35′ E. 59° 22′	29.64	752.8	98.5	36.9	69	s.			4		2					2	s.	d. clouds.
PORTUGUESE NAVAL.																		
Rio Lima, Porto Praya, Cape Verde Islands	30.11	764.8	75.9	24.4	80	ne.			2		2		ne.			1		d. clouds.
Tamega, Macao, China	29.79	756.6	83.3	28.5	88	calm			0		7							d. clouds.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	30.16	766.1	60	15.6	55	n.	5	2.2			0			0	0			clear.
Navy Yard, Portsmouth, N. H.	29.98	761.5	45	7.2	68	ne.	34	15.2			2		ne.	0	0			clear.
Naval Hospital, Yokohama, Japan	29.89	759.2	64.5	18.1	78	sw.			1		8		w.	0	0			clearing.
Adams, Mare Island, Cal	29.85	758.2	56	13.3	81	wsw.			1		2					sm'h		clear.
Alaska, S. 10° 37′, W. 78° 17′	29.97	761.2	64	17.8	83	se.			2		5			0	0	sm'h		fair.
Alert, Kobe, Japan*	29.82	757.4	69	20.6	65	calm			0		10		calm			sm'h		cloudy.
Alliance, N. 36° 10′ W. 73° 48′	30.09	764.3	51	10.6	79	n.			3		2			0	0	long		clear.
Ashuelot, Kobe, Japan	29.92	760.0	68	20.0	74	calm			0		10		calm					cloudy.
Brooklyn, Montevideo, Uruguay	29.89	759.2	54	12.2	87	n.	4	1.8			10		n.	0	0	sm'h		cloudy.
Colorado, New York, N. Y.	30.06	763.5	52	11.1	79	n.	1	0.4			10		calm	0	0			misty.
Essex, Montevideo, Uruguay	29.92	760.0	56	13.3	87	nnw.			3		8		nw.			sm'h		fair.
Franklin, Norfolk, Va.	30.15	765.8	56	13.3	75	nw.	5	2.2			2		calm	0	0			fair.
Galena, Gibraltar, Mediterranean	29.97	761.2	63	17.2	94	sw.			2–4		10					sm'h		cloudy.
Independence, Navy Yard, Mare Island, Cal	29.90	759.7	52	11.1	86	wsw.			2		2			0	0			clear.
Iroquois, San Francisco, Cal	30.13	765.3	53	11.7	73	wnw.			2		2							clear.
Kearsarge, N. 36° 16′, W. 73° 40′	30.05	763.3	52	11.1	93	nnw.			4		2					mod.		clear.
Lackawanna, S. 3° 11′, W. 81° 27′*	29.94	760.5	69	20.6	85	s.			4		2		s.			mod	s.	clear.
Lancaster, Gibraltar, Mediterranean	29.91	759.7	62	16.7	100	ne.			4		10		ne.			mod.	w.	cloudy.
Marion, S. 29° 34′, W. 44° 44′	30.04	763.0	72	22.2	100	n.			4		5		n.	sh'rs	sh'rs	long	n.	fair.
Michigan, Erie, Pa.	30.14	765.5	51	10.6	100	sse.			1		0							clear.
Minnesota, Newport, R. I.	30.04	763.0	45	7.2	84	n.	3	1.3			8		n.					misty.
Monocacy, Nagasaki, Japan	29.61	752.1	66	18.9	94	se.			3–5		10		calm					raining.
New Hampshire, Newport, R. I.	30.05	763.3	45	7.2	100	nne.			2		8					sm'h		foggy.
Nipsic, Gibraltar, Mediterranean	29.95	760.7	64	17.8	89	ene.			2		10		e.			sm'h		drizzling.
Onward, Callao, Peru†	30.13	765.3	62	16.7	94	s.			1		10		n.			long	w.	cloudy.
Palos, Kobe, Japan	29.95	760.7	66	18.9	74	calm			0		10		calm					cloudy.
Passaic, Washington, D. C.	30.13	765.3	56	13.3	94	nw.			1		0							clear.
Pensacola, Callao, Peru	30.04	763.0	64	17.8	89	sse.	4	1.8			10		ne.	0	0	sm'h		cloudy.
Portsmouth, Plymouth, Eng.	30.44	773.2	54	12.2	100	ese.			4		2					sm'h		clear.
Powhatan, Hampton Roads, Va.	30.10	764.5	56	13.3	81	w.			2		0							clear.
Quinnebaug, Gibraltar, Mediterreanan	29.95	760.7	63	17.2	89	nne.			1		10		e.			sm'h		raining
Ranger, Pichilinque, Mexico*	29.84	757.9	70	21.1	61	se.			2–3		8		calm	0	0	sm'h		cloudy.
Richmond, Kobe, Japan*	29.87	758.7	69	20.6	70	calm			0		10			0	0			cloudy.
Saratoga, Plymouth, Eng.	30.45	773.4	57	13.9	69	se.			2–3		0			0	0	sm'h		clear.
Shenandoah, New York, N. Y.*	30.10	764.5	56	13.3	81	n.			0–1		10		calm					hazy.
St. Louis, League Island, Pa.	30.30	769.6	49	9.4	85	calm	0	0			5			0	0			fair.
Swatara, N. 37° 27′, E. 126° 33′*	29.59	751.6	60	15.6	88	n.			2		8		ne.			sm'h		drizzling.
Tennessee, N. 36° 12′, W. 73° 51′	30.13	765.3	49	9.4	93	n.	12	5.4			0			0	0	freg.	nne.	clear.
Vandalia, N. 36° 04′, W. 73° 47′*	30.08	764.0	50	10.0	86	nnw.			3		0					mod.	ne.	clear.
Wabash, Boston, Mass.	30.07	763.8	51	10.6	72	n.	2	0.9			5		n.	0	0			fair.
Wachusetts, Port Wrangle, Alaska	29.93	760.2	39	3.9	100	ese.			1		8		ese.	0	0	sm'h		fair.
Wyoming, Port Royal, S. C.	30.19	766.8	55	12.8	80	n.	10	4.5			2		calm	0	0			clear.
Yantic, N. 36° 02′, W. 73° 35′*	30.05	763.3	52	11.1	93	n.			2		2					mod.	n.	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Nova Scotian, N. 46° 58′, W. 39° 58′	30.11	764.8	56	13.3		sw.			3		10		sw.			con.	sw.	misty.
S. S. Prussian, N. 45° 25′, W 46° 24′*	30.01	762.2	42	5.6		wsw.			4		5			24 h'r	24 h'r	light	s	dense fog.
S. S. Scandinavian, N. 54° 30′, W. 14° 47′*	30.29	769.4	53	11.7		s.			5		1		s.	0	0	light	s.	blue sky.
S. S. Waldensian, N. 42° 23′, W. 71° 00′*	30.21	767.3	44	6.7		n.			5		2		n.	0	0	light	ne.	clear
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, Philadelphia, Pa.	30.00	762.0	54	12.2	93	n.			2		8		n.					fair.
S. S. Indiana, N. 47° 46′, W. 31° 00′†	30.30	769.6	55	12.8	93	w.			3		10		w.	0	0	mod.	wnw.	foggy.
S. S. Lord Clive, Philadelphia, Pa.*	29.94	760.5				nnw.			1		8		nnw.	0	0			fine.
S. S. Ohio, N. 39° 58′ W. 52° 51′†	30.31	769.9	65	18.3	94	s.			4		4		s.			mod.	s.	clear.
ANCHOR LINE.																		
S. S. Bolivia, N. 51° 13′, W. 34° 46′ †	29.92	760.0	52	11.1		sw.			5		4		sw.	rain	rain	h'vy	sw.	rain & fog.
S. S. India, N. 18° 29′, E. 70° 31′*	29.75	755.6	84	28.9	91	wnw.			2		2			½ h'r	½ h'r	mod.	sw.	fair.
S. S. Utopia, N. 36° 26′, W. 3° 33′†	30.02	762.5	68	20.0	90	e.			4		8		e.					cloudy.
ATLAS LINE.																		
S. S. Ailsa, N. 29° 53′, W. 74° 07′†	29.96	761.0	71	21.7	67	nw.			4		2		nw.	0	0	short	w.	fair.
S. S. Alvo, N. 37° 56′, W. 74° 05′	30.18	766.6	73	22.8		wsw.			1		1		e.	0	0			
S. S. Athos, Arroyo, Porto Rico, W. I	29.57	751.1																
S. S. Claribel, N. 39° 30′. W. 73° 58′*†	30.10	764.5	50	10.0	78	n.			2		4		calm	0	0	sm'h		light fog.
BOSTON AND HALIFAX.																		
S. S. Carroll, N. 44° 32′, W. 62° 33′			32	0.0		w.			2					0	0		wsw.	foggy.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 39° 09′ W. 2° 10′	30.41	772 4	51	10.6	68	wnw.			2		10							overcast.
British Merchant, S. 32° 11′, E. 12° 14′	30.32	770.1	60.5	15.8	76	sw.			4		5							d. clouds.
Bk. Commewyne, N. 43° 14′, W. 20° 33′	30.15	765.8	59.1	15.1	70	ne.			4		8							d. clouds.
Bk. Coppename, N. 27° 10′, W. 22° 14′	30.05	763.3	66.5	19.2	68	w.			4		7							blue sky.
S. S Earnock, N. 44° 10′, W. 21° 47′	30.21	767.3	57.5	14.2	76	ne.			4		10							overcast.
Glencairn, S. 27° 06′, E. 48° 47′	30.11	764.8	79	26.1	78	e.			3		3							d. clouds.
Bkt. Hope, N. 25° 39′, W. 43° 56′	30.27	768.8	71	21.7	85	ne.			6		9							showery.
Bkt. May Hulse, S. 24° 44′, W. 78° 57′	30.13	765.3	64.7	18.2	68	se.			3		10							overcast.
S. S. Minho, Rio de Janeiro, Brazil	30.10	764.5	73.2	22.9	81	se.			3		2							d. clouds.
S. S. Pole Star, S. 43° 05′ W. 80° 55′	29.60	751.8	50	10.0	93	wsw.			7		7							squally.
CUNARD LINE.																		
S. S. Bothnia, N. 49° 15′, W 31° 17′	30.06	763.5				s.			6		10			2 h'r	2 h'r	sm'h		misty.
S. S. Gallia, N. 50° 20′, W. 21° 08′	30.34	770.6	59	15.0	81	s.			5		5		sw.	0	0		e.	fine.
GENERAL TRANS-ATLANTIC COMPANY																		
S. S. St. Germain, N. 40° 57′, W. 67° 17′	30.19	766.7	39.2	4.0		ne.			2				ne.	0	0	sm'h	ne.	hazy.
S. S. Ville de Marseilles, N. 38° 30′, W. 33° 30′*†	30.30	769.6	64	17.8		nnw.			6		6		nnw.	1 h'r	1 h'r	mod.	nw.	cloudy.
GUION LINE.																		
S. S. Arizona, N. 51° 22′ W. 11° 32′	30.44	773.2	57	13.9		e.			3		0			0	0	sm'h		blue sky.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 41° 22′, W. 49° 10′*†	30.26	768.6				sw.			5		7		ssw.	rain	rain	mod.	s.	fine.
S. S. Cimbria, N. 49° 56′, W 13° 22′	30.40	772.1	52.7	11.5		e.			4		1		e.	0	0	mod.	e.	fair.
S. S. Lessing, N. 45° 21′ W. 70° 23′	30.00	762.0	47	8.3		wnw.			6		10			0	0	sm'h	wnw.	covered.
S. S. Silesia, Hamburg, Germany†	30.44	773.2	55	12.8		ne.			1–2		10			0	0			overcast.
S. S. Wieland, N. 43° 54′ W. 41° 24′	30.32	770.1	63	17.2		sw.			3		10		sw.	0	0	3	sw.	hazy.
INMAN LINE.																		
S. S. City of New York, N. 43° 21′ W. 45° 46′	30.28	769.1				sw.			4		fg.			2 h'r	2 h'r	r'gh	sw.	foggy.
JOHNSTON LINE.																		
S. S. Thanemore, N. 40° 12′, W. 65° 08′	30.02	762.5				nne.			2		5		ne.	0	0			foggy.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, Rio de Janeiro, Brazil*†	30.26	768.6	74	23.3		e.			1		2		sw.	0	0			clear.
S. S. Humboldt, N. 8° 48′, W. 48° 38′*	30.04	763.0	79	26.1	86	ne.			4		3 k			0	0	3	ne.	d. clouds.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 22° 31′, W. 68° 36′†	30.05	763.3	73	22.8	95	ne.			4		2			12 h'r	12 h'r	sm'h		squally.
MERCHANT STEAMSHIP COMPANY.																		
S. S. Glenapp, Pernambuco, Brazil *†	29.96	761.0				var.			3		7		se.	2 h'r	2 h'r			rainy.
NATIONAL LINE.																		
S. S. Canada, N. 40° 27′, W. 72° 41′†	30.05	763.3	54	12.2		w.			1		6		wsw.	0	0	sm'h	w.	hazy.
S. S. Denmark, London, Eng	30.55	776.0	63	17.2		nne.			4		5		ne.	0	0			fine.
S. S. England, Off Ballycottin, Ireland	30.43	772.9				e.			2		1		e.	0	0	sm'h		clear.
S. S. Erin, New York, N. Y.	30.02	762.5	60	15.6		nnw.			2		5		ne.	0	0			hazy.
S. S. Greece, N. 42° 16′, W. 46° 49′	30.26	768.6				sw.			3		10		sw.	10 h'r	10 h'r	sm'h	sw.	clearing.
S. S. Italy, N. 44° 03′ W. 41° 46′	30.31	769.9	62	16.7		sw.			3		10			0	0	mod.	w.	foggy.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, N. 22° 01′, W. 88° 15′*†	30.13	765.3	79	26.1	65	ne.			5		5		ne.	0	0	small	ne.	misty.
S. S. City of Puebla, Havana, Cuba, W I.†	29.95	760.7	84	28.9		nne.			1		5		n.				n.	
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Maas, N. 42° 40′, W. 50° 38′*†	30.14	765.5	39	3.9		sw.			1								wsw.	foggy.
NORTH GERMAN LLOYD.																		
S. S. Elbe, N. 41° 20′, W. 46° 54′	30.30	769.6	58.1	14.5	73	wsw.			2–3		10		sw.	0	0	long	wnw.	covered.
S. S. Graf Bismark, N. 19° 48′, W. 39° 00′	30.18	766.6	71.6	22.0		var.			0–1		2			0	0	h'vy	se.	clear.
S. S. Hohenzollern, N. 39° 23′, W. 69° 17′*	30.09	764.3	43.7	6.5		n.			4		10		n.	rain	rain	sm'h	n.	cloudy.
S. S. Main, N. 47° 35′, W. 31° 02′	30.24	768.1	57.2	14.0		sw.			3–4		10		ssw.	light	light	mod.	ssw.	covered.
S. S. Mosel. N. 51° 43′, E. 2° 14′	30.47	773.9	51	10.6		ne.			2		4		ne.	0	0	sm'h		clear.
S. S Oder, N. 49° 50′, W. 8° 41′	30.46	773.7	59.0	15.0		e.			1		3		e.	0	0	sm'h	e.	clear.
S. S. Ohio, Bremerhaven, Germany	30.41	772.4				nnw.			6		5		n.	1 h'r	1 h'r			fair.
S. S. Rhein, N. 40° 22′, W. 71° 05′	30.05	763.3				w.			1		8		w.	0	0	mod.	w.	light haze.
S. S. Strassburg, N. 46° 24′ W. 33° 33′	30.22	767.6	63.0	17.2	83	w.			2–3		4		w.	10 h'r	10 h'r	sm'h	w.	foggy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, N. 32° 37′, E. 134° 18′†	30.03	762.7	73	22.8	71	sse.			6		10		s.	rain	rain	r'gh	s.	cloudy.
S. S. Gaelic, N. 35° 35′, E. 163° 30′†	30.12	765 0	61	16.1	77	wsw.			5		7		sw.			r'gh	w.	cloudy.
S. S. Oceanic, N. 40° 13′, E. 157° 07′*	29.56	750.8	50	10.0	86	nw.			6		10		nw.			6	nnw.	cloudy.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y.†	30.00	762.0				n.			2		8?							clear.
S. S. City of Columbus, New York, N. Y†	30.05	763.3				n.												cloudy.?
S. S. Seminole, Savannah River, Ga.†	30.17	766.3	62	16.7	77	nne.			5		1		ne.	0	0	sm'h		clear.
OREGON IMPROVEMENT COMPANY.																		
S. S. Willametta, Seattle, Wash. Ter†	30.23	767.8	55	12.8	93	calm			0		4		s.	0	0			fine.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, N. 42° 54′, W. 124° 25′†	30.23	767.8	49	9.4	93	calm			0		0					sm'h		clear.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 33° 35′ W. 118° 30′†	29.90	759.4	57	13.9	87	e.			1		0					sm'h	wnw.	clear.
S. S. Dakota, New Tacoma, Wash. Ter.†	30.23	767.8	52	11.1	80	calm			0		10?		var.			sm'h		clear?
S. S. State of California, Portland Oregon†	30.21	767.3	41	5.0	91	calm			0		6		nw.					cloudy.
S. S. Victoria. San Francisco, Cal.†	30.02	762.5	50	10.0	93	calm			0		10			0	0	sm'h		fair.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. City of New York, Sydney, N. S. W†	30.15	765.8	62	16.7	88	n.			3		1		n.	0	0			fair.
S. S. City of Pekin, N. 37° 42′, W. 125° 27′†	30.16	766.1	51	10.6	86	nw.			6		5		nw.			mod.	nw.	fair.
S. S. City of Rio de Janeiro, N. 33° 44′, W. 120° 16′ *†	30.10	764.5	53	11.7	93	nw.			8		8		nw.	0	0	r'gh	nw.	cloudy.
S. S. City of Sydney, N. 16° 08′, W. 160° 12′†	29.95	760.7	79	26.1	86	se.			2		5		sse			long	se.	drizzling.
S. S. City of Tokio, Hong Kong, China†	29.75	755.6	74	23.3	95	s.			2		8		ssw.	11 h'r	11 h'r			raining.
S. S. Colon, N. 10° 28′, W. 79° 01†	29.93	760.2	82	27.8		n.			2		3		nnw.	0	0	sm'h	nne.	fair.
S. S. Granada, N. 15° 34′, W. 97° —'†	29.89	759.2	81	27.2	87	calm			0		2?		w.	0	0	light	s.	cloudy ?
S. S. South Carolina, Panama, Panama†	29.97	761 2	80	26.7	82	nw.			2		2		n.	0	0	sm'h		fine.
S. S. Zelandia, Sydney, N. S. W	30.22	767.6	60	15.6	71	sw.			2		0							clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
QUEBEC STEAMSHIP CO.																		
S. S. Muriel, N. 24° 59′, W. 65° 00′	29.97	761.2	73	22.8		w.			2		10			4 h'r	4 h'r	mod.	e.	rainy.
S. S. Bermuda, N. 29° 40′, W. 68° 35′†	30.06	763.5	51?	10.6?		sw.			2		10		w.	½ h'r	½ h'r	g'tl	sw.	cloudy.
RED STAR LINE.																		
S. S. Belgenland, N. 48° 46′, W. 16° 00′†	30.49	774.4	58	14.4	93	se.			5		5		e.	o	o	mod.	e.	fine
S. S. Nederland, N. 40° 21′, W. 47° 25′†	30.26	768.6	53	11.7		s.			1		fog		s.			mod.	ssw.	hazy.
S. S. Rhynland, Antwerp, Belgium	30.48	774.2	62	16.7	77	calm			0		9		ne.	o	o			cloudy.
S. S. Vaderland, N. 40° 05′ W. 52° 48′	30.04	763.0	63	17.2	94	ssw.			3		2		sw.	o	o	mod.	sw.	fair.
S. S. Waesland, Jersey City, N. J.	30.02	762.5	59	15.0		n.			3		8		nne.	o	o			fair.
ROTTERDAM LINE.																		
S. S. Schiedam, N. 50° 00′ W. 19° 38′*	30.34	770.6	57.2	14.0		se.			5		3			o	o	mod.		clear.
S. S. W A Scholten, Rotterdam, Holland	30.29	769.4	52	11.1	72	n.			2		3		n.	o	o			
STATE LINE.																		
S. S. State of Florida, New York, N. Y.	29.99	761.7	54	12.2		nnw.			1		8		nnw.	o	o			fair.
S. S. State of Georgia, N. 52° 06′, W. 29° 33′†	30.06	763.5	50	10.0		sw.			6		10					short	sw.	heavy rain.
S. S. State of Indiana, N. 40° 31′, W. 70° 09′†	29.84	757.9	47	8.3		var.			1		5?			o	o	sm'h		clear.?
THINGVALLA LINE.																		
S. S. Thingvalla, N. 57° 28′, W. 14° 43′†	30.53	775.4	54.5	12.5		s.			4		4		s.	o	o	mod.	s.	clear.
WHITE STAR LINE.																		
S. S. Adriatic, N. 46° 54′, W 39° 10′†	30.28	769.1	57	13.9	?	nnw.			2		10		nw.	sh'rs	sh'rs	sm'h		foggy.
S S. Celtic, Liverpool, Eng†	30.47	773.9	59	15.0	70	nne.			2		0			o	o	sm'h		fine.
S. S. Republic, N. 41° 13′, W. 55° 30′†	30.24	768.1	65	18.3	94	ssw.			5		10		ssw.	4 h'r	4 h'r	mod	sw.	drizzling.
WILSON LINE.																		
S. S. Romano, N. 49° 11′, W. 8° 28′*†	30.22	767.6	54	12.2		ese.								o	o	mod.	e.	clear.
MISCELLANEOUS.																		
Schr. Abbie Clifford, Barbadoes, W. I*†	30.01	762.2	80	26.7		ese.			3		4			shr's	shr's			
Schr. Addie Fuller, Newport News, Va†	30.18	766.6	52	11.1	86	nw.			2	3 ck	0			o	o			clear.
Bk. Adelaide, S. 6° 20′, W. 34° 28′*†	30.03	762.7	85	29.4		ese.			4		1		e.	2 h'r	2 h'r	light	ese	clear.
Schr. Ajax, Brazos, Texas†	30.04	763.0				e.			3		8		ese.	o	o			cloudy.
Bk. Alpha, Guanatamo, W. I†	29.94	760.5	78	25.6		nne.			1		9		ne.	2 h'r	2 h'r			cloudy.
Schr. Annie Lewis, Aransas Pass, Texas†	30.16	766.1	77	25.0		e.			6		0			o	o	short	e.	clear.
Bk. Anna Thormann, N. 25° 22′, W. 34° 55′	30.29	769.3	70.2	21.2	83	ne.			6		6 k		ne.	4 h'r	4 h'r	mod	ne.	misty.
Bk Antioch, S. 41° 04′, E. 133° 54′*†	29.90	759.4	56	13.3		wnw.			6		3		wsw.	1½ h'r	1½ h'r	mod.	wsw.	fair.
Antonio Lopez, N. 30° 11′. W. 78° 47′*	30.11	764.8	69	20.6	61	n.			4		3 k			o	o	mod.	n.	fair.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.18	766.6	77	25.0		calm			0		0			o	o			clear.
Sch'r Annie M. Smull, S. 6° 04′ E. 105° 54′*†	29.90	759.4	89	31.7		se.								2 h'r	2 h'r			
Bk. Bergenseren, N. 36° 20′ W 4° 50′†	29.89	759.2				e.			1				nw.			2	se.	thnd'r storm.
S. S. Compton, Cardenas, Cuba, W. I.†	30.02	762.5				nne.			1		3		nne.	1 h'r	1 h'r			clear.
Schr. Edith R. Seward, N. 19° 59′, W. 73° 30′*†.	30.18	766.6	83	28.3		sse.			1		9		ene.	4 h'r	4 h'r	short	ene.	
Bk. E. J. Spicer, London, Eng†	30.37	771.4				e.			4		5		e.	o	o			
S. S. Essex, N. 39° 30′ W. 71° 40,*†	30.11	764.8	56	13.3		ene.			1		10		e.	o	o	hv'y	ene.	overcast.
S. Exporter, S. 41° 30′, W. 7° 50′*†	30.40	772.1				ne.			6				ne.	8 h'r	8 h'r	long	se.	cloudy.
Bk. Freya, Dublin, Ireland			59	15.0		ene.			4		0			o	o			fine.
Bk. Godfrey, Lynn Haven Road, Virginia	30.11	764.8	55.8	13.2	81	wnw.			2-3		3		wnw.	o	o	2	ne.	clear.
S. Grecian, S. 7° 34′, E. 105° 22′*†	29.85	758.2	81	27.2		e.			5		3		e.	o	o	sm'h		clear.
Bk. Hattie G. McFarland, Boston, Mass*†	30.07	763.8	54	12.2		n.			3		5		nw.	o	o			fair.
Schr. Henry Denison, N. 25° 28′, W. 76° 40′†	29.92	760.0				ne.			4		3		ne.	o	o			fair.
Bk. Horace Scudder, Off Sandy Hook, N. J†.	30.01	762.2	54	12.2		nne.			1					o	o			smoky.
Bk. Johanne, N 49° 45′, W. 15° 43′*†	30.38	771.6	57	13.9		e.			3		2		e.	o	o	mod.	e.	clear.
Schr. John L. Thomas, Punta Gorda, C. A*†	29.99	761.7				nw.			1		5		e.	½ h'r	½ h'r	mod.	e.	threatening.
Bkt. Josephine, Guanatamo, Cuba, W. I*†	30.10	764.5	79	26.1	78	n.			2		10			12 h'r	12 h'r			rainy.
Bk. Julia H., Havana, Cuba, W. I.	30.08	764.0	76.1	24.5	72	nne.			3		4 k;s		nne.	o	o			d. clouds.
Bk. Kate Cann, N. 42° 59′. W. 56° 06′*†	30.20	767.1				ne.			4				ne.	14 h'r	14 h'r	sm'h	sw.	overcast.
Bkt. Kryolith, N. 57° 32′, W. 42° 27′*†.	29.80	756.9				w.			5		5?		w.	o	o	short	w.	cloudy.
S. S. Lamperts, N. 14° 16′, E. 42° 35′*	29.78	756.4	87.0	30.6	88	n.			1		0							misty.
S. S. Laurel, Pensacola Bay, Fla.†	30.21	767.3	69	20.6		ne.			2		1		calm	o	o			clear.
S. S. Malabar, Singapore, India*†	29.92	760.0				sw.			2		2		sw.					clear.
Bg. Medina, N. 34° 36′, W. 74° 34†	30.15	765.8				n.			6		5		n.			short	n.	fine.
S. S. Nebo, N. 29° 07′. W. 68° 54′*†	30.05	763.3				nw.			1		8?		s.	6 h'r	6 h'r	mod.	s.	clear?
S. Paramita, S. 10° 04′ W. 32° 36′†.	29.87	758.7	85	29.4		var.			3		4		sw.	shr's	shr's	sm'h		clear.
Bk. Pawashick, N. 25° 25′, W. 59° 07′*†	30.42	772.7	76	24.4	91	e.			5		2		e.			mod.	ese.	fine.
Bk. Peppina, Bordeaux, France†	30.13	765.3	72	22.2	63	ne.			4		0							clear.
S S. Ponca, N. 22° 50′, W. 66° 30′†	30.05	763.3	84	28.9		se.			3		2		ese.	light	light	mod.	se.	clear.
Bk. Princessen, N. 40° 23′, W. 48° 57′†	30.29	769.3	65	18.3		ssw.			3		8					mod.	ssw.	sprinkling.
Bk. Rosebud, N. 30° 25′ W. 20° 27′*†	30.00	762.0	67	19.4	79	var.			3		5		nnw.	shr's	shr's	sm'h		fine.
S. Salisbury, S. 39° 07′, E. 4° 01′*.	30.41	772.5	54.1	12.3	80	ssw.			4		10		ssw.	1 h'r	1 h'r	long	ssw.	cloudy.
Bkt. Spotless, S. 22° 52′ W. 40° 13′*†	30.10	764.5				ne.							ne.			hv'y	sse.	clear.
Bk. Stella, S. 3° 25′, W. 110° 11′*.	29.85	758.2	80.6	27.0	92	ese.			3		3 k		se.	o	o	sm'h	se.	d clouds.
Bk. Truro, N. 45° 15′, W. 22° 10′*†	30.20	767.1				ene.			3		10		ene.	o	o	mod.	e.	cloudy.
U.S. F. C. S. Fish Hawk, Washington, D. C†	30.22	767.6	56	13.3	80	nnw.			1		2		calm	o	o			clear.
Yacht Vega, Barbadoes, W. I*†	30.10	764.5	80	26.7		e.			3				e.	1 h'r	1 h'r	sm'h	ese.	
S. S. Victoria J Peed, Barranquilla, U. S. C*†	29.11	739.4				calm			0		8							
Schr. Viola Reppard, Governor's I'd., N. Y†	29.88	758.9	66	18.9		calm			0		2			o	o			fair.
S. Washington, N. 54° 01′, E. 6° 28′*†.	30.30	769.6				n.			3		1		nnw.	o	o	sm'h		clear.
Bg. Wauburn, N. 40° 02′, W. 73° 10′*†	30.00	762.0				w.			3		3		w.	o	o	sm'h		
Bk. Wm. Wilcox, N. 35° 00′, W. 47° 15′*†	30.58	776.7	69	20.6		sse.			3		5		sse.	o	o	sm'h		fair.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 18, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours	.....	.....	29.99	761.8	67.3	19.6	82	sw.	.....	.....	3	.....	3	.....	.....	0.059	1.5	pretty fair	Moiroud.
Algiers	.....	.....	30.03	762.7	64.4	18.0	63	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Nicolas.
La Galle	.....	.....	30.00	762.0	64.0	17.8	.....	e.	.....	.....	4	.....	4	.....	.....	0.512	13.0	cloudy	Fonfrède.
Tunis	.....	.....	29.96	760.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.02	762.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Dumas.
Tebessa	.....	.....	30.04	762.9	66.9	19.4	64	sw.	.....	.....	3	.....	1	.....	.....	0	0	very fair	Derché.
Geriville	.....	.....	.....	.....	83.1	28.4	11	sw.	.....	.....	8	.....	0	.....	.....	0	0	clear	Louchamp.
Laghouat	.....	.....	30.04	763.1	85.3	29.6	64	s.	.....	.....	1	.....	0	.....	.....	0	0	clear	Abraham.
Biskra	.....	.....	30.01	762.3	87.4	30.8	26	se.	.....	.....	1	.....	0	.....	.....	0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	30.19	766.8	30.28	769.1	55.3	12.9	89	sw.	3	1.3	.....	.....	10	.....	.....	0.04	1.0	showery	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.48	748.8	30.04	763.1	43.5	6.4	79	nw.	.....	.....	2	.....	10	.....	.....	0.079	2.0	raining	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.24	742.6	30.02	762.6	41.4	5.2	87	n.	18.6	8.3	.....	.....	10	.....	.....	1.032	26.2	.....	Dr. Wierzbiski.
Eperies	28.98	736.2	29.87	758.8	45.0	7.2	83	nw.	.....	.....	4	.....	10n; s	.....	s.	1.024	26.0	.....	Julius Mikolik.
Gratz	28.80	731.4	30.06	763.4	50.4	10.2	64	nw.	.....	.....	5	.....	10	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.33	719.5	29.76	756.0	48.4	9.1	98	nw.	.....	.....	1	.....	10	.....	.....	1.303	33.1	raining	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.83	732.2	30.21	767.3	41.5	5.3	78	nw.	.....	.....	2	.....	10	.....	.....	0.075	1.9	rain & sleet	The Staff.
Lemberg	28.83	732.2	29.82	757.3	48.6	9.2	92	ne.	.....	.....	1	.....	10	.....	.....	0.445	11.3	.....	Dr. T. Stanecki.
Pola	29.91	759.8	30.02	762.6	59.2	15.1	51	s.	.....	.....	2	.....	5	.....	.....	0	0	.....	I. R.Hydrographic Office.
Szathmar	29.32	744.8	29.78	756.4	53.6	12.0	64	sw.	.....	.....	2	.....	10	.....	.....	0.122	3.1	.....	Joseph Midlinszky, S. J.
Szegedin	29.56	750.9	29.84	758.0	53.8	12.1	69	nw.	.....	.....	2	.....	10	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.95	760.6	30.05	763.2	64.0	17.8	42	w.	.....	.....	1	.....	8	.....	.....	0	0	.....	Rieder.
Vienna	29.37	745.9	30.10	764.6	43.5	6.4	79	wnw.	.....	.....	4	.....	10	.....	.....	0.661	16.8	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.32	770.1	30.42	772.7	53.3	11.8	70	ese.	11	4.9	.....	.....	0	.....	.....	0	0	blue sky	W. Boswell
Armagh, Observatory	30.15	765.8	30.38	771.6	65.4	18.6	37	s.	4	1.8	.....	.....	1	.....	.....	.....	.....	d. clouds	S. Oall.
Bidston, Liverpool Obs'y	.....	.....	30.36	771.1	64.7	18.2	70	n.	5	2.2	.....	.....	0	.....	.....	.....	.....	misty	John Hartnup.
Bolton, Sharples	29.81	757.2	30.35	770.9	64.8	18.2	46	sw.	.....	.....	.....	.....	0	.....	.....	.....	.....	blue sky	Thomas Mackereth, A.S.
Bradford, Yorkshire	29.97	761.2	30.37	771.4	61.0	16.1	43	w.	.....	.....	2	.....	0	.....	.....	0	0	blue sky	J.McLandsborough, F. R
Bridgetown, Barbadoes	29.96	761.0	29.99	761.7	81.0	27.2	74	ne.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds	Corpl.J.Surgenor, A. H.C.
Cardington	.....	.....	30.37	771.4	61.0	16.1	50	e.	.....	.....	0.4	.....	0	.....	.....	.....	.....	blue sky	John McLaren.
Chatham, School M. E.	30.25	768.3	30.38	771.6	58.4	14.7	64	ne.	.....	.....	1	.....	1	.....	.....	.....	.....	d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	30.13	765.3	30.36	771.1	56.8	13.8	65	ese.	.....	.....	3	.....	1	.....	.....	.....	.....	misty	The Staff.
Fort Napier, Natal	27.82	706.6	30.04	763.0	67.2	19.6	58	se.	.....	.....	1	.....	1	.....	.....	.....	.....	blue sky	Pvt. E. K.Annis, A.H.C.
Free Town, Sierra Leone	29.67	753.6	29.90	759.4	87.0	30.6	75	sw.	.....	.....	1	.....	3	.....	.....	.....	.....	blue sky	Sergt. John Robinson.
Gibraltar, Mediterranean	29.89	759.2	29.94	760.5	64.5	18.1	89	e.	.....	.....	3	.....	8	.....	.....	.....	.....	gloomy	Cpl. O. Baldwin.
Glasgow, Observatory	30.17	766.3	30.37	771.4	66.1	18.9	41	wnw.	.....	.....	1	.....	.....	.....	.....	.....	.....	misty	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.20	767.1	30.38	771.6	62.8	17.1	57	ene.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	The Staff.
Guernsey	30.02	762.5	30.32	770.1	55.0	12.8	68	ne.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	A. Collenette, F. M. S.
Kew, Observatory	30.34	770.0	30.38	771.6	57.8	14.3	53	ne.	9	4.0	.....	.....	0	.....	.....	.....	.....	misty	The Staff.
Leicester, Museum	30.14	765.5	30.39	771.9	62.6	17.0	36	ne.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	J. O. Smith.
Malta, Mediterranean	29.88	758.9	29.95	760.7	68.4	20.2	67	nw.	.....	.....	2	.....	8	.....	.....	.....	.....	overcast	I. H. Whysall.
Nassau, Bahamas	30.11	764.8	30.15	765.8	76.0	24.4	60	ne.	.....	.....	2	.....	4	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.86	758.4	30.38	771.6	61.7	16.5	42	nne.	.....	.....	2	.....	0	.....	.....	.....	.....	blue sky	Warren Middleton.
Oxford, Radcliffe Obs'y	30.15	765.8	30.38	771.6	60.5	15.8	48	ne.	.....	.....	2	.....	0	.....	.....	.....	.....	misty	The Staff.
Plymouth	30.28	769.1	30.35	770.9	61.5	16.4	46	ese.	.....	.....	3	.....	0	.....	.....	.....	.....	blue sky	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	30.39	771.9	56.8	13.8	61	sw.	7	3.1	.....	.....	0	.....	.....	.....	.....	blue sky	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.65	753.1	29.71	754.6	70.6	21.4	56	sw.	.....	.....	2	.....	4	.....	.....	blank	blank	d. clouds	W. H. Lyne.
Sheffield	30.10	764.5	30.38	771.6	65.1	18.4	52	e.	.....	.....	1	.....	1	.....	.....	0	0	blue sky	W. F. Cooper.
Silloth Rectory	30.34	770.6	30.36	771.1	67.5	19.7	52	w.	.....	.....	1	.....	0	.....	.....	0	0	blue sky	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.38	771.6	67.1	19.5	38	e.	3	1.3	.....	.....	0	.....	.....	.....	.....	blue sky	J. New.
Stratfield Turgiss	30.17	766.3	30.39	771.9	62.3	16.8	57	se.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	Rev.C.H.Griffiths,F.M.S
Truro, Royal Institution	30.33	770.4	30.35	770.9	66	18.9	59	e.	.....	.....	6	.....	4	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	30.32	770.1	30.35	770.9	64.6	18.1	52	sse.	9	4.0	.....	.....	0	.....	.....	.....	.....	misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.52	755.2	30.56	776.2	42	5.6	52	n.	8	3.6	.....	0	0	.....	.....	0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.53	775.4	30.59	777.0	44	6.7	56	e.	1	0.4	.....	0	0	.....	.....	0	0	clear	G. A. Blair.
Father Point, Quebec*	30.56	776.2	30.58	776.7	40	4.4	65	w.	5	2.2	.....	0	hz.	.....	.....	0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.20	741.7	30.03	762.7	47	8.3	89	s.	10	4.5	.....	0	hz	.....	.....	0.07	1.8	hazy	James Stewart.
Halifax, N. S*	30.40	772.1	30.53	775.4	45	7.2	76	ne.	12	5.4	.....	0	0	.....	.....	0	0	clear	A. Allison.
Kingston, Ontario*	30.07	763.8	30.42	772.7	46	7.8	60	ne.	12	5.4	.....	0	0	.....	.....	0	0	hazy	A. P. Knight, M. A.
Montreal, Quebec*	30.27	768.8	30.48	774.2	47	8.3	40	ne.	10	4.5	.....	2 c	0	e.	.....	0	0	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.72	754.9	30.44	773.2	45	7.2	60	e.	6	2.7	.....	0	sk.	.....	.....	0	0	smoky	Rev. R. Mosley.
Port Dover, Ontario	29.66	753.4	30.37	771.4	45	7.2	70	ne.	7	3.1	.....	0	0	.....	.....	0	0	clear	H. Morgan.
Port Stanley, Ontario	29.70	754.4	30.36	771.1	44	6.7	71	n.	5	2.2	.....	0	hz.	.....	.....	0	0	hazy	M. Payne.
Quebec, Quebec*	30.22	767.6	30.55	776.0	45	7.2	71	ne.	.....	.....	3	0	0	.....	.....	0	0	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	30.01	762.2	30.49	774.4	38	3.3	61	calm	0	0	.....	0	sk.	.....	.....	0	0	smoky	W. H. McIntyre.
Saugeen, Ontario*	29.67	753.6	30.41	772.4	40	4.4	89	calm	0	0	.....	hz.	0	.....	.....	0	0	hazy	
St. Andrews, N. B	30.48	774.2	30.54	775.7	42	5.6	62	calm	0	0	.....	0	0	.....	.....	0	0	clear	
Sydney, C. B*	30.47	773.9	30.54	775.7	40	4.4	62	nw.	1	0.4	.....	3 c	0	sw.	.....	0	0	fair	T. C. Hill, C. E.
Toronto, Ontario*	30.02	762.5	30.41	772.4	49	9.4	37	ne.	10	4.5	.....	0	hz.	.....	.....	0	0	hazy	Magnetic Observatory.
Yarmouth, N. S*	30.39	771.9	30.46	773.7	43	6.1	49	e.	12	5.4	.....	8 k	2 n	w.	e.	0	0	cloudy	Lt. F. E. Wilmot, R. N
Sub-series.																			
St. Johns, Newfoundland	30.24	768.1	30.50	774.7	40	4.4	82	w.	1	0.4	.....	5 k	5 s	.....	.....	0	0	.....	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.26	768.6	30.29	769.4	62.0	16.7	72	w.	24.7	11.0	.....	0	3 k	.....	.....	0.170	4.3	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	30.24	768.1	30.28	769.1	63.3	17.4	59	s.	8	3.6	.....	2	6	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observer.
Chinese (*Sub-series*).																			
Hankow	29.72	754.9	30.00	762.0	70.5	21.4	79	w.			2		9			0	0		N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.77	756.1	29.80	756.8	65.5	18.6	89	s.	4.5	2.0		0	5			0	0	cloudy	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	30.26	768.7	30.31	769.9	56.8	13.8	58	calm	0	0			9						Oversergent Fischer.
Fanöe	30.33	770.4	30.35	770.9	56.7	13.7	72	wnw.			4		3						Overloerer Lauridsen.
Godthaab, Greenland	29.54	750.2	29.58	751.3	28.8	— 1.8	76	nne.			2		7			0	0		S. Kleinschmidt.
Stykkisholm, Iceland	29.56	750.9	29.61	752.0	41.4	5.2	81	calm			0		8						A. O. Thorlacius.
Thorshavn	30.12	765.0	30.15	765.9	49.6	9.8	88	sw.	27	12			10						Overloerer Bergh.
Vestervig	30.24	768.2	30.34	770.5	56.5	13.6	61	wnw.			2		0						Loearer Oesterbol.
French.																			
Agen, Normal School	29.39	746.6	30.02	762.4	64.8	18.2	52	calm			0	ck	k			0	0		M. Labroue, Director.
Alençon, Normal School	29.71	754.5	30.26	768.5	54.3	12.4	86	n.			1					0	0		M. Nicot, Director.
Arras, Engineer School	30.02	762.4	30.27	768.8	58.1	14.5	59	wnw.			2		5		nw.	0	0	cloudy	M. Fénéon, Command't.
Avignon, Normal School	30.00	762.1	30.08	764.1	65.1	18.4	30	nnw.			3		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.69	754.2	30.25	768.4	57.0	13.9	40	ese.			1		8		e.	0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	30.06	763.6	30.33	770.4	58.8	14.9	45	e.			2		2		ne.	0	0	slightly cl'dy	M. Frère Eugène Marl.
Besançon, Normal School	29.26	743.3	30.17	766.2	59.7	15.4	58	nne.			1	0	2 cn		e.	0	0	slightly cl'dy	M. Gobin, Director.
Bordeaux, Observatory	29.83	757.7	30.09	764.2	63.5	17.5	29	ene.			1		8			0	0	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.67	753.7	30.22	767.6	62.6	17	26	nne.			2		k		nne.	0	0		M. Postel, Director.
Brest, Naval Observatory	30.04	762.9	30.28	769.1	60.8	16.0	44	e.			2		1		e.	0	0		M. de Kermaree, Dir.
Caen, Normal School	30.27	768.8	30.30	769.7	58.3	14.6	61	n.			3		2		ne.	0	0	slightly cl'dy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.95	760.8	30.28	769.0	58.8	14.9	67	ne.			2		8	e.	e.	0	0	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.81	757.2	30.32	770.2	57.6	14.2	67	ne.			1		5			0	0	½ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.80	731.6	30.15	765.8	60.1	15.6	27	n.			1		0			0	0	clear	M. Allnard, Director.
Cluny, Normal School	29.36	745.8	30.21	767.4	59.0	15	39	ne.			2		0			0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.41	746.9	30.28	769.1	52.0	11.1	68	ne.			1		5 kn	ne.	ne.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.43	696.7	29.92	760.0	61.2	16.2	16								se.	0	0		M. Jeanglrard, Director.
Gréasque, du Rhone	28.93	734.9	30.04	763.1	64.4	18.0	39	w.			2		5		s.	0	0		M. Kina, Director.
Grenoble, Normal School	29.32	744.8	30.09	764.2	59.7	15.4	42	nw.			3		k			0	0		M. Ablard, Director.
Guéret, Normal School	28.58	726.0	30.15	765.8	58.5	14.7	20	e.			3		0			0	0	clear	M. Rivoire, Director.
Lamballe, Normal School	30.01	762.2	30.28	769.1	59.7	15.4	56	ne.			2		5		ne.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.50	749.3	30.06	763.4	66.6	19.2	22	e.			1	0	0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.18	766.6	30.28	769.2	68.0	20.0	76	ne.			4		2		ne.	0	0	¼ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.08	738.7	30.13	765.4	58.8	14.9	22	n.			2	0	0			0	0	clear	M. André, Director.
Mans, Normal School	29.98	761.4	30.28	769.2	59.7	15.4	36	ene.			6		5		e.	0	0	cloudy	M. Piboen, Director.
Marseille, Observatory	29.81	757.2	30.08	764.1	61.3	16.3	47	wsw.			2.3		1		wsw.	0	0		M. Stephan, Director.
Montlouis	24.84	631.0	29.69	754.0	49.1	9.5	47	se.	7.4	3 3			0			0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.95	760.6	30.07	763.8	68.4	20.2	33	ne.			2		2			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.49	749.0	30.28	769.2	51.1	10.6	70	n.			1		kn		ne.	0	0		M. Hasse, Director
Nantes, Observatory	30.08	764.1	30.24	768.2	65.5	18.6	40	ene.			2-3	0	1 k		ene.	0	0		M. Larocque, Director.
Perpignan, Observatory	30.00	762.1	30.11	764.8	62.1	16.7	35	se.	5.6	2.5			2		ne.; sw	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.26	540.1			37.6	3.1		s.			1		1		s.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.04	737.6	30.10	764.4	60.1	15.6	20	n.			1		1		n.	0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.22	640.5			35.8	2.1	60	e.			4		0			0	0	clear	M. Allnard, Director.
Rochefort, Naval Obs'y	30.10	764.6	30.13	765.4	64.8	18.2	98	ne.			3		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.98	761.6	30.20	767.0	63.0	17.2	44	e.			2		0			0	0	clear	M. Mouillot, Director.
Rodez, Normal School	27.93	709.4	30.05	763.3	61.5	16.4	14	e.			1		2		w.	0	0	slightly cl'dy	M. Serger, Director.
Rouen, Normal School	30.27	768.8	30.32	770.0	63.3	17.4	40	ne.			1		2		e.	0	0	slightly cl'dy	M. Brotier.
Saint Maur, Observatory	30.13	765 2	30.29	769.4	61.0	16.1	39	ne.			2		3		e.	0	0		M. Renou, Director.
Toulouse, Observatory	29.39	746.6	30.12	765.0	62.1	16.7	64	se.			1		0			0	0	clear	M. Baillaud, Director.
Tours	30.01	762.2	30.22	767.7	64.0	17.8	62	ese.			1		k		e.	0	0		
Versailles, Observatory	29.80	756.9	30.29	769.4	59.7	15.4	39	e.			6					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	30.02	762.4	30.31	769.8	61.9	16.6	41	ne.			2		5		ne.	0	0		M. Marié Davy, Director
German.																			
Bamberg	29.40	746.8	30.26	768.7	53.6	12.0	50	ne.			3	0	7 k		ne.	0.039	1.0		Prof. Dr. Hoh.
Berlin	30.08	763.9	30.25	768.4	55.4	13.0	43	n.			2		8			0	0		Prof. Dr. Arndt.
Breslau	29.65	753.2	30.19	766.8	49.6	9.8	36	n.			4		1			0	0		Royal University Obs'y.
Carlsruhe	29.83	757.6	30.28	769.0	50.5	10.3	70	ne.			1		10	n.		0	0		Albert Senz.
Cassel	29.52	749.8	30.24	768.0	52.3	11.3	86	n.			5		8	n.		0.126	3.2		Dr. H. Möhl.
Frankfort-on-the-Main	29.91	759.6	30.28	769.1	48.9	9.4	80	nne.			1		9			0.071	1.8		Physical Society.
Friedrichshafen	28.77	730.7	30.22	767.5	52.2	11.2	55	s.			2		4	ne.		0	0		Wilhelm, Chief Tel.
Hamburg	30.24	768.1	30.34	770.5	55.4	13.0	54	n.			2		7	ne.		0	0		E. Preller.
Kiel	30.32	770.0	30.33	770.4	54.1	12.3	53	n.			2		2			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.84	758.0	30.27	768.8	54.3	12.4	32	ne.			3		7	nne.		0	0		H. Leppig, Asst.
Magdeburg	30.10	764.4	30.29	769.3	52.9	11.6	41	nne.			1	0	8 ks		ne.	0.020	0.5		Dr. Assmann.
Memel	30.21	767.4	30.26	768.6	49.3	9.6	73	nnw.			3		9 ks						Isermann.
Munich	28.37	720.7	30.25	768.4	47.3	8.5	58	se.			1		5	sw.		0.110	2.8		Central Station.
Neufahrwasser	30.25	768.3	30.26	768.7	48.0	8.9	80	nne.			2		4			0	0		A. Lothes.
Neustadt, Palatinate	29.74	755.3	30.27	768.8	50.7	10.4	72	nne.			3		10	n.		0	0		Dicknether.
Stuttgart	29.30	744.3	30.21	767 4	49.1	9.5	72	w.			1		7	e.		0.043	1.1		Prof. Dr. Schoder.
Wustrow	30.33	770.4	30.35	771.0	54.1	12.3	67	n.			1		10 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29 43	747.6			72.0	22.2		s.			1.5		8			0	0	misty	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.66	753.3	29.71	754.6	83.2	28.4	82	wsw.	25.0	11.2			7		sw.	0	0	gloomy	
Deesa	29.11	739.3	29.55	750.7	104.1	40.1	16	ssw.	9.1	4.1			1			0	0	d. clouds	
Bombay	29.67	753.5	29.70	754.4	85.6	29.8	74	nw.	20.0	8.9			4		wnw.	0	0	d. clouds	
Poona, Yarrowda	27.78	705.7	29.59	751.6	89.2	31.8	36	wsw.	28.0	12.5			8	w.	w.	0	c	d. clouds	
Bellary	28.18	715.6	29.61	752.0	89.5	31.9	44	sse.	6.8	3.0			10			0	0	overcast	
Belgaum	27.19	690.7	29.71	754.6	77.6	25.3	59	e.	2.0	0.9			9	e.	nw.	0.09	2.3	thund'r st'm	
Lahore	28.84	732.4	29.55	750.6	94.1	34.5	27	w.	1.4	0.6			10			0	0	misty	
Roorkee	28.67	728 2	29.53	750.0	98.3	36.8	22	sw.	1.4	0.6			2			0	0		
Agra	29.03	737.3	29.57	751.1	95.6	35.3	26	nw.	5.1	2.3			6		nw.	0	0		
Nagpur	28.57	725.8	29.58	751.3	95.5	35.8	30	calm	5.1	2.3			9		w.	0.11	2.8	d. clouds	
Jubbulpore	28.27	718.1	29.57	751.1	98.9	37.2	14	ssw.	3.2	1.4			6		s.	0	0		
Lucknow	29.21	742.0	29.58	751.2	98.2	36.8	18	w.	1.3	0.6			0			0	0	blue sky	
Allahabad	29.26	743.1	29.55	750.6	101.2	38.4	16	nne.	1.4	0.6			0			0	0	blue sky	
Patna	29.41	747.1	29.59	751.6	96.1	35.6	32	nne.	2.9	1.3			4	nne.	nne.	0	0	d. clouds	
Hazaribagh	27.62	701.5	29.55	750.6	93.8	34.3	18	n.	5.2	2.3			0			0	0	blue sky	
Cuttack	29.59	751.4	29.67	753.7	78.0	25.6	78	sse.	1.2	0.5			10					raining	
Calcutta, Alipore	29.60	751.8	29.62	752.3	87.2	30.7	58	sw.	9.0	4.0			7	w.		0	0	d. clouds	
Dhubri	29.52	749.9	29.64	752.9	85.7	29.8	66	calm	4.5	2.0			9		sw.	0	0	gloomy	
Chittagong	29.56	750.8	29.65	753.1	84.7	29.3	77	wsw.	2.5	1.1			2			0	0	blue sky	
Sibsagar	29.32	744.8	29.66	753.2	84.4	29.1	74	n.	1.0	0.4			7	w.	w.	0	0	d. clouds	
Jeypore	28.18	715.8	29.57	751.0	97.3	36.3	25	wnw.	4.2	1.9			9		w.	0	0	d. clouds	
Zanzibar, Africa	29.90	759.4			84.9	29.4	61	se.	5.0	2.2			4			0	0	d. clouds	
Italian.																			
Udine	29.62	752.3	30.02	762.6	61.3	16.3	49	ne.	1.8	0.8			4			0	0		Prof. Giovanni Clodig.
Milan	29.56	750 7	30.07	763.7	61.3	16.3	34	ne.	3.8	1.7			3	nne.		0.035	0.9		Prof. Schiaparelli.
Padua	29.93	760.1	30.04	762.9	61.9	16.6	25	wnw.	8.7	3.9			7	n.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.17	740.8	30.06	763.6	60.8	16.0	30	sw.	4.9	2.2			5	ne.		0	0		Prof. P. F. Denza.
Genoa	29.87	758 7	30.06	763.6	61.7	16.5	25	n.	6.9	3.1			2	e.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.17	715.4	30.10	764.4	54.9	12.6	43	w.			4		7	wnw.		0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Pesaro	30.03	762.8	30.08	764.0	57.7	14.3	41	n.	6.3	2.8			2			0	0		Prof. Luigi Guidi.
Florence	29.79	756.7	30.04	763.1	60.8	16.0	49	n.			6		7			0	0		Prof. Costantino Pitter.
Leghorn	29.92	760.0	30.01	762.2	63.1	17.3	39	wnw.	4.9	2.2			4	ne.		0	0		Prof. P. Monte.
Rome	29.80	756.9	29.97	761.3	65.5	18.6	23	wnw.	7.4	3.3			1			0	0		Prof. P. S. Ferrari.
Lecce	29.68	753.8	29.93	760.1	63.9	17.7	45	nnw.	16.8	7.5			3	nw.		0	0		Prof. C. de Giorgi.
Cosenza	29.04	737.7	29.92	759.9	63.7	17.6	74	wsw.	3.1	1.4			5	sw.		0	0		Prof. D. Conti.
Cagliari																			Prof. A. Pacinotti.
Palermo	29.74	755.4	29.99	761.7	64.0	17.8	50	ese.	8.7	3.9			7			0.051	1.3		Prof. G. Ciacciatore.
Syracuse	29.87	758.6	29.91	759.7	67.3	19.6	63	ne.	11.2	5.0			9	s.		0.035	0.9		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.36	745.7	29.87	758.8	63.1	17.3	46	n.	2.5	1.1			4	nw.		0.236	6.0		Prof. T. Brioschi.
Stelvio	22.12	561.7			43.2	6.2	69	ne.			4		8			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.15	562.7			28.8	— 1.8	52	e.			6		6			0	0	covered	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.75	755.6	29.79	756.6	54.0	12.2	93	nnw.	2.5	1.1			10 n			0.120	3.0	raining	K. Ogawa.
Hakodate	29.79	756.6	29.81	757.2	50.0	10.0	93	n.	4.6	2.1			10			0.235	6.0	covered	
Hiroshima, I. M. Obs'y	29.62	752.3	29.64	752.8	63.4	17.4	96	calm	0	0		ck	7 s			0.123	3.1	cloudy	J. Sogawa.
Kanazawa	29.59	751.6	29.70	754.4	59.3	15.2	91	se.	7.2	3.2		ck	10ks;n			0.130	3.3	raining	S. Endo.
Kioto	29.52	749.8	29.69	754.1	63.3	17.4	80	se.	3.6	1.6		ck	10 s			0.006	0.2	cloudy	M. Tojima.
Kochi	29.62	752.3	29.64	752.8	67.9	19.9	93	n.	1.9	0.8			10 s			0.290	7.4	cloudy	K. Kusunose.
Nagasaki, I. M. Obs'y	29.51	749.5	29.71	754.6	63.5	17.5	90	n.	1.0	0.4		0	2 s			0.020	0.5	clear	S. Takehayashi.
Niigata	29.71	754.6	29.74	755.4	61.6	16.4	74	se.	8.0	3.6		10 ck	0	w.		0.040	1.0	covered	M. Morita.
Nobiru	29.81	757.2	29.82	757.4	59 3	15.2	84	s.	26.8	12.0			10 n			0.030	0.8	stormy	H. Midzushina.
Supporo					57.5	14.2	76	s.	16.8	7.5			10			0	0	covered	
Tokei Obs'y, Yeddo	29.80	756.9	29.87	758.7	58.9	14.9	97	sse.	4.4	2.0			10 n			1.140	29.0	light rain	The Staff.
Wakayama	29.58	751.3	29.63	752.6	63.6	17.6	92	nw.	0.7	0.3		0	4 ks			0.034	0.9	fair	Y. Kuwamura.
MAURITIUS.																			
Mauritius Observatory	29.87	758.7	30.06	763.5	76.9	24.9	72	ese.	11.5	5.1		0	7 k;ks		ese.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.76	603.4	29.98	761.4	59.9	15.5	89	calm	0	0		0	6 km		se.	0.615	15.6	fair	Prof. Vicente Fernandez.
Leon	24.27	616.4	29.93	760.2	59.0	15.0	66	sw.			1	2 c	4 k	nw.	n.	0.270	6.9	cloudy	Prof. M. Leal.
Mazatlan	29.70	754.3	29.96	760.9	73.0	22.8	88	e.				10 cs	0					light fog	F. Quijano, C. E.
Mexico, Central Obs'y	23.14	587.6	30.16	765.9	55.6	13.1	90	ne.	0	0			10 kn		w.	0.957	24.3	covered	The Staff.
Morelia	24.02	610.2	30.03	762.6	62.4	16.9	86	se.			3	2	2	se.	s.	0.126	3.2	cloudy	M. Tena, M. D.
Pabellon, Aguascalientes	24.01	609.9	30.00	761.9	61.2	16.2	85	nnw.			2	0	9 ks		e.	0.050	1.3	cloudy	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.40	594.3	30.10	764.5	56.8	13.8	68	calm	0	0			4		nnw.	1.032	26.2	cloudy	Prof. P. Spina.
San Luis Potosi	24.23	615.5	30.08	764.0	59.9	15.5	63	e.			1		10		sw.	0.559	14.2	cloudy	G. Barroeta, M. D.
Zacatecas	22.61	574.3	30.24	768.2	50.9	10.5	92	se.	6.4	2.8		0	0			0.004	0.1	foggy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.38	771.7	30.38	771.7	55.0	12.8		n.			3					0	0		
Groningen	30.29	769.3	30.34	770.7	57.6	14.2		nne.			1					0	0		
Helder	30.36	771.2	30.36	771.2	52.2	11.2		ne.			4					0	0		
Hellevoetsluis	30.35	771.0	30.35	771.0	57.0	13.9	64	n.			1					0	0		
Utrecht	30.31	769.8	30.35	771.0	57.7	14.3	54	nne.			3		5			0	0	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	30.32	770.1	30.38	771.7	43.2	6.2	55	w.	9	4			0			0	0		
Brono	30.21	767.4	30.25	768.4	46.4	8.0	83	sw.	18	8			10			0.008	0.2		
Christiania	30.11	764.8	30.25	768.4	67.8	19.9	28	s.	4	2			0			0	0		
Gjessvær	29.87	758.6	29.89	759.2	45.1	7.3		sw.			6		10						
Lodingen	30.05	763.2	30.10	764.4	41.9	5.5	94	sw.			7		10					rain & fog	
PORTUGUESE.																			
Angra, Azores					62.2	16.8	63	nne	7.4	3.3			4			0	0		
Campo Major	28.93	734.9	29.92	759.9	66.2	19.0	63	sw.	3.8	1.7			9			0.130	3.3		Dr. A. M. R. dos Santos.
Funchal, Maderia	29.82	757.3	29.90	759.5	61.0	16.1	79	sw.					10			0.126	3.2	raining	Dr. J. A. Sampaio.
Lisbon, Observatory	29.59	751.5	29.94	760.5	64.9	18.3	63	ssw.	12.5	5.6			9			0.004	0.1		Capt. D. A. de Cunha.
Ponta Delgada, Azores	30.14	765.6	30.21	767.4	62.6	17.0	61	nne.	14.3	6.4			3			0.063	1.6		The Staff.
Saint Paul de Loando	29.69	754.2	29.89	759.3	80.2	26.8	86	wnw.	0.7	0.3			4	w.		0	0	foggy	
Serra da Estrella	25.21	640.2	29.96	761.0	44.6	7.0	78	s.	19.2	8.6			10			0.866	22.0	rain and fog.	
RUSSIAN.																			
Akmolinski	28.51	724.2	29.52	749.7	80.1	26.7	24	ene.	9	4		0	0			0	0		Major K. Lasarew.
Archangel	30.27	768.9	30.29	769.4	29.1	— 1.6	76	nw.	4	2			10			0	0	light clouds	Capt. Sseliwerstow.
Astrakhan	29.91	759.6	29.82	757.5	79.7	26.5	45	calm	0	0		0	4 k			0	0		Capt. Wisganow.
Barnaul	29.26	743.3	29.73	755.2	76.8	24.9	30	ne.	13	6			5			0	0	light clouds	Meteorological Obs'y.
Dorpat	30.03	762 7	30.28	769.0	47.1	8.4	48	ne.	11	5		0	4 k			0	0		Observatory.
Ekaterinburg	28.86	733.1	29.78	756.3	75 6	24.2	47	calm	0	0		ck	7 ks			0	0		Meteorological Obs'y.
Kasan	29.74	755.3	30.00	762.0	62.8	17.1	52	nnw.	11	5		0	3 k			0	0		Observatory.
Kertch	29.72	755.0	29.74	755.5	71.1	21.7	81	sse.	9	4		6 cs	0			0	0		Lagorio & Sastyrez.
Kieff	29.15	740.4	29.77	756.2	58.8	14.9	80	ne.	2	1			10 n			0.059	1.5	raining	Observatory.
Lugan	29.61	752.0	29.80	757.0	77.9	25.5	32	sse.	9	4			9			0	0		Meteorological Obs'y
Moscow	29.54	750.2	30.02	762.4	50.0	10.0	65	nnw.	4	2			10 s						Meteorological Obs'y.
Nikolaiev	29.71	754.5	29.78	756.3	75.2	24.0	54	calm	0	0		0	0			0.012	0.3		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.94	760.5	30.03	762.7	48.4	9.1	77	calm	0	0			10			0	0		Lieut. Iwanow.
Pekin, China	29.60	751.7	29.74	755.3	60.6	15.9	26	nw.	16	7		0	0			0	0		Physical Observatory
St. Petersburg	30.26	768.5	30.27	768.9	45.1	7.3	47	ne.	9	4		0	7 kn			0	0		Central Physical Obs'y.
Semipalatinsk	29.06	738.0	29.67	753.7	76.6	24.8	40	calm	0	0		0	5			0	0	light clouds	Major Lasareu.
Tashkend, Laboratory	28.28	718.4	29.80	756.8	72.0	22.2	70	calm	0	0			9			0.098	2.5	light clouds	Teich, A. M.
Tiflis	28.46	722.8	29.81	757.1	76.3	24.6	50	se.	9	4		0	2 k			0	0		Physical Observatory
Vladivostock	29.65	753.2	29.72	754.9	52.2	11.2	89	se.	13	6			10 n			0	0		
Warsaw	29.63	752.6	30.06	763.4	53.8	12.1	33	nne.	16	7		ck	10 ks						Astronomical Obs'y.
Wilna	29.69	754.1	30.11	764.8	52.5	11.4	49	n.	11	5			3			0	0		Berg, Assistant.
Yeniseisk																			M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.96	761.0	30.06	763.6	64.4	18.	53	se.	3.6	1.6		1 c;ck	0			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	29.99	761.7	30.05	763.2	71.1	21.7	47	e.	0.9	0 4		6	2	nw.		0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.07	687.5	30.07	763.8	50.0	10.0	100	n.	3.8	1.7			10			0.591	15.0	raining	Domingo Martin.
Madrid, Royal Obs'y	27.78	705.6	29.94	760.5	70.7	21.5	62	se.	12.5	5.6		0	7			0.122	3.1	almost cov.	The Staff.
Murcia, Met. Obs'y	29.89	759.3	30.04	763.0	70.2	21.2	58	e.	5.6	2.5		2	7	wsw.		0.004	0.1	misty	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.02	737.0	29.90	759.4	61.9	16.6	90	w.	2.5	1.1			10			0.134	3.4	raining	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	29.99	761.7	30.05	763.3	77.7	25.4	75	se.	3.6	1.6		0	3 k;s		e.	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.78	756.3	29.84	757.8	83.3	28.5	73	n.	0.9	0.4		0	1 ks			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.86	758.5	29.96	761.0	65.7	18.7	67	sse.	6.6	3.0		0	9		wsw.	0.212	5.4	light rain	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.94	760.5	30.03	762.8	79.5	26.4		calm	0	0		3 s	4 k	se.	se.	0	0		Manuel Maese.
Tuguegarao, Philippine Id's	29.72	754.9	29.86	758.4	82.6	28.1	77	nnw.	3.3	1.5		0	7 ks		nw.	0	0	cloudy	José L. Yrastorza.
SWEDISH.																			
Haparanda	30.18	766.5	30.22	767.5	40.6	4.8	78	s.			2		5			0	0		
Umea	30.21	767.2	30.26	768.5	49.3	9.6	71	sw.			4		7			0	0		
Hernosand	30.22	767.7	30.28	769.0	52.2	11.2	85	s.			4		5			0.028	0.7		
Stockholm	30.17	766.4	30.35	770.9	55.2	12.9	54	ene.			2		7			0	0		
Wisby	30.26	768.5	30.32	770.0	44.2	6.8	77	nne.			6		3			0	0		
Sub-series.																			
Upsala	30.23	767.9	30.32	770.1	54.0	12.2	60	wsw.	3.4	1.5			9		nne.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.71	729.1	30.13	765.4	53.1	11.7	37	nne.			6					0	0	clear	The Observatory.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
TURKISH.																			
Constantinople			29.72	754.9	75.4	24.1	46	sw.	4	2.0			0			0.181	4.6		The Observatory.
Valona			30.01	762.2	60.4	15.8		nw.			1		10			0	0	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.89	759.1	74.1	23.4	66	w.			1	0	0			0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.35	770.9	30.43	772.9	57	13.9	51	ne.	4	1.8		0	4 ks			0	0	fair	J. O. Barnes.
Alpena, Michigan	29.76	755.9	30.42	772.7	46	7.8	54	nw.	6	2.7		0	sk.			0	0	clear	Jas. J. Fitzgerald.
Atlanta, Georgia	29.11	739.4	30.28	769.1	55.0	12.8	60	nw.	5	2.2		0	0			0	0	clear	H. Hall.
Atlantic City, New Jersey	30.32	770.1	30.33	770.4	49.1	9.5	63	ne.	19	8.5		4 ck	5 s	n.		0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	30.10	764.5	30.29	769.4	54	12.2	86	calm	0	0		9 ck	0			0	0	cloudy	John Healy.
Baltimore, Maryland	30.35	770.9	30.40	772.1	53	11.7	55	e.	6	2.7		0	8 ks;hz		e.	0	0	cloudy	Robert Seyboth.
Barnegat, New Jersey	30.33	770.4	30.35	770.9	48.8	9.3	59	se.	14	6.3		6 cs	hz.	nw.		0	0	fair	Chas. F. Merritt.
Bismarck, Dakota	28.18	715.8	29.96	761.0	53	11.7	86	e.	8	3.6			10 s		se.	0	0	cloudy	Cyrus Cramer.
Boise City, Idaho	27.16	689.9	30.00	762.0	50	10.0	66	w.	1	0.4			10 s		w.	0	0	cloudy	B. E. Light.
Boston, Massachusetts	30.33	770.4	30.49	774.4	42.0	5.6	73	e.	9	4.0			10 n			inap.	inap.	light rain	O. B. Cole.
Brownsville, Texas	30.00	762.0	30.04	763.0	76	24.4	82	e.	8	3.6		10 k	0	s.		0	0	cloudy	M. McCarty.
Buffalo, New York	29.62	752.3	30.36	771.1	46.5	8.1	56	ne.	1	0.4		0	sk			0	0	clear	Wm. Finn.
Burlington, Vermont	30.16	766.1	30.45	773.4	49.3	9.6	51	calm	0	0		7 ck	0	e.		0	0	fair	G. C. Schaeffer.
Cairo, Illinois	29.95	760.7	30.35	770.9	57.6	14.2	66	se.	1	0.4		0	0			0	0	clear	W. H. Ray.
Campo, California	27.37	695.2	29.90	759.4	38.6	3.7	73	w.	3	1.3		0	0			0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.17	690.1	29.84	757.9	53.5	11.9	46	calm			0	0	0			0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.30	769.6	30.32	770.1	53	11.7	80	ne.	20	8.9			10 s		ne.	0	0	cloudy	J. E. Lanouette.
Cape May, New Jersey																			W. Bolten.
Cedar Keys, Florida	30.17	766.3	30.19	766.8	60	15.6	70	ne.	8	3.6		0	0			0	0	clear	F. W. Mixer.
Champaign, Illinois	29.52	749.8	30.32	770.1	56.0	13.3	60	e.	7	3.1		0	hz.			0	0	clear	L. A. Welsh.
Charleston, S. Carolina	30.19	766.8	30.24	768.1	61	16.1	72	nw.	5	2.2		0	fg.		calm	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.39	746.5	30.23	767.8	56.0	13.3	62	nw.	5	2.2		0	sk.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.49	749.0	30.30	769.6	52.0	11.1	72	nw.	1	0.4		0	sk.			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.04	610.6	29.91	759.7	39.7	4.3	83	w.	6	2.7		0	0			0.02	0.5	clear	E. McGovern.
Chicago, Illinois	29.63	752.6	30.33	770.4	54.6	12.6	54	e.	2	0.9		hz.	hz.			0	0	clear	J. Mitchell.
Chincoteague, Virginia	30.29	769.4	30.31	769.9	49	9.4	77	ne.	20	8.9		0	7 k		ne.	0	0	fair	V. P. Temple.
Cincinnati, Ohio	29.68	753.9	30.34	770.6	56.5	13.6	54	ne.	3	1.3		0	0			0	0	clear	R. B. Watkins.
Cleveland, Ohio	29.62	752.3	30.35	770.9	47	8.3	72	ne.	6	2.7		0	0			0	0	clear	J. B. Newlin.
Coleman City, Texas	28.27	718.0	30.06	763.5	64	17.8	90	se.	16	7.2			10 s		se.	0	0	cloudy	L. Dorman.
Columbus, Ohio	29.47	748.5	30.31	769.9	48	8.9	56	n.	7	3.1		0	0			0	0	clear	D. Cuthbertson.
Concho, Texas	28.09	713.5	29.99	761.7	69	20.6	70	se.	10	4.5			10 s			0	0	cloudy	W. W. McConihe.
Davenport, Iowa	29.63	752.6	30.27	768.8	57	13.9	64	se.	6	2.7		6 cs	sk.	sw.	calm	0	0	fair	R. R. Martin.
Dayton, Washington T'y	28.29	718.6	30.04	763.0	42.8	6.0	81	w.	2	0.9			10 s		w.	0	0	cloudy	H. Clifford.
Deadwood, Dakota	25.29	642.4	29.80	756.9	47	8.3	74	sw.	8	3.6		4 c	0	w.		0	0	fair	G. W. Scott.
Decatur, Texas					68	20.0	61	se.	11	4.9		0	5 s		se.	0	0	fair	D. J. Carr.
Delaware Breakwater, Del.	30.31	769.9	30.33	770.4	49	9.4	77	ne.	16	7.2		2 c	0	calm		0	0	clear	A. Schneider.
Denison, Texas	29.36	745.7	30.15	765.8	61.0	16.1	72	se.	8	3.6		5 cs	0			0	0	fair	J. McGlone.
Denver, Colorado	24.75	628.6	29.91	759.7	47.0	8.3	74	s.	8	3.6		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.31	744.5	30.20	767.1	56	13.3	69	s.	8	3.6		10 cs	0	w.		0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.68	753.9	30.38	771.6	44.5	6.9	83	n.	9	4.0		0	0			0	0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.39	695.7	29.94	760.5	59	15.0	93	s.	18	8.0			10 s		s.	0.79	20.1	cloudy	E. A. Thomas.
Dubuque, Iowa	29.59	751.6	30.29	769.4	55.7	13.2	74	se.	2	0.9		2 c	hz.	sw.	calm	0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.43	747.5	30.13	765.3	46	7.8	76	calm	0	0		hz.	hz.			0	0	dense haze	N. B. Conger.
Eagle Pass, Texas	29.23	742.4	30.03	762.7	70.1	21.2	90	se.	9	4.0			10 s		se.	0.83	21.1	cloudy	F. Belford.
Eagle Rock, Idaho	25.26	641.6	29.94	760.5	40	4.4	67	calm	0	0			10 s		sw.	0	0	cloudy	J. M. Clifford.
Eastport, Maine	30.48	774.2	30.55	776.0	41	5.0	60	ne.	16	7.2		4ck;cs	0	e.		0	0	fair	J. H. Melton.
El Paso, Texas	26.23	666.2	29.87	758.7	62	16.7	78	nw.	10	4.5		2 ck	0	w.		0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.62	752.3	30.34	770.6	48	8.9	50	ne.	2	0.9		0	0			0	0	clear	R. H. Paxton.
Escanaba, Michigan	29.66	753.4	30.32	770.1	51	10.6	72	calm	0	0		0	hz.			0	0	clear	C. Dill.
Fort Apache, Arizona	25.00	635.0	29.82	757.4	40	4.4	46	ne.	5	2.2		0	0			0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.08	687.8	29.92	760.0	42	5.6	82	se.	3	1.3			10 s		sw.	0	0	cloudy	B. O. Lenoir.
Fort Bennett, Dakota	28.30	718.8	29.86	758.4	53.0	11.7	93	se.	7	3.1			10 n		calm	inap.	inap.	light rain	A. Pritchard.
Fort Benton, Montana	27.08	687.8	29.87	758.7	43	6.1	76	sw.	10	4.5		0	9 s			0	0	cloudy	G. W. Davis.
Fort Buford, Dakota	27.97	710.4	29.95	760.7	44	6.7	68	e.	11	4.9		10 cs	0	calm		0	0	cloudy	A. H. Bell.
Fort Custer, Montana	26.69	677.9	29.79	756.7	45	7.2	71	sw.	4	1.8		0	6 s		calm	0	0	fair	V. Verge.
Fort Davis, Texas	25.15	638.8	29.87	758.7	58	14.4	84	calm	0	0			10 ks		se.	0	0	cloudy	J. Williams.
Fort Elliott, Texas	27.22	691.4	29.92	760.0	59	15.0	72	se.	16	7.2			10 s		se.	0.22	5.6	cloudy	W. J. Cundall.
Fort Gibson, Indian T'y																			J. B. Campbell.
Fort Grant, Arizona	25.27	641.8	29.88	758.9	55	12.8	20	se.	2	0.9		0	0			0	0	clear	T. J. Macgowan.
Fort Keogh, Montana	27.33	694.2	29.78	756.4	53	11.7	69	se.	8	3.6		8 cs	0	se.		0	0	cloudy	W. B. Stockman.
Fort Macon, North Carolina	30.23	767.8	30.24	768.1	58	14.4	81	n.	11	4.9		hz.	hz.	calm	calm	0.75	19.0	dense haze	L. Leonardy.
Fort McKavett, Texas	27.80	706.1	30.04	763.0	66	18.9	84	se.	10	4.5			10 s			0	0	cloudy	J. E. Thatcher.
Fort Missoula, Montana	26.66	677.2	29.96	761.0	39	3.9	100	s.	3	1.3			10 n		s.	0.21	5.3	light rain	J. H. Jones.
Fort St. Michaels, Alaska	30.33	770.4	30.36	771.1	36	2.2	90	n.	4	1.8		0	0			0	0	clear	A. P. Leavitt.
Fort Shaw, Montana	26.27	667.2	29.87	758.7	40	4.4	67	w.	9	4.0		6 cs	0			0	0	fair	A. L. Mathews.
Fort Sill, Indian Territory	28.87	733.3	30.09	764.3	61.5	16.4	82	se.	13	5.8		10 cs	0	sw.		0	0	cloudy	T. Cleary.
Fort Stevenson, Dakota	28.14	714.7	29.96	761.0	46	7.8	63	ne.	3	1.3		2 cs	0			0	0	clear	W. Burrows.
Fort Verde, Arizona					54.2	12.3	35	sw.			1	0	0			0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.41	620.0			35.0	1.7	69	w.	4	1.8		6 c	1 k	w.		0	0	fair	T. M. Ambler.
Fredericksburg, Texas	28 38	720.8	30.10	764.5	65	18.3	93	e.	6	2.7			10 n		se.	0.01	0.3	light rain	H. S. Miles.
Galveston, Texas	30.12	765.0	30.16	766.1	73	22.8	59	se.	13	5.8		4 cs	5 k		e.	0	0	cloudy	E. O'C. MacInernev.
Grand Haven, Michigan	29.70	754.4	30.36	771.1	52.5	11.4	54	e.	6	2.7		0	0			0	0	clear	W. A. Reid.
Hatteras, North Carolina	30.23	767.8	30.25	768.3	60	15.6	75	ne.	16	7.2		hz.	sk.			0	0	clear	R. M. Crawford.
Helena, Montana	25.73	653 5	29.90	759.4	40	4.4	67	se.	5	2.2			10 s		se.	0	0	cloudy	S. Wheaton.
Henrietta, Texas	29.14	740.1	30.12	765.0	62.0	16.7	84	se.	7	3.1		4 c	0			0	0	fair	J. W. Byram.
Huron, Dakota	28.61	726.7	29.96	761.0	51.9	11.1	96	se.	16	7.2			10 n			1.34	34.0	light rain	S. W. Glenn.
Indianapolis, Indiana	29.54	750.3	30.33	770.4	55	12.8	55	n.	2	0.9		0	hz.		calm	0	0	clear	O. Schutze
Indianola, Texas	30.09	764.3	30.12	765.0	74.0	23.3	71	se.	16	7.2			10 s		w.	0	0	cloudy	I. A. Reed.
Jacksboro, Texas	28.97	735.8	30.12	765.0	64	17.8	78	e.	7	3.1		5 c	0			0	0	fair	J. P. Sherry.
Jacksonville, Florida	30.18	766.6	30.22	767.6	62	16.7	78	ne.	2	0.9		0	0			0	0	clear	J. W. Smith.
Keokuk, Iowa	29 61	752.1	30.26	768.6	55.5	13.1	66	se.	9	4.0		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.05	763.3	30.07	763.8	76.0	24.4	69	ne.	22	9.8		1 c	3 k		ne.	0.01	0.3	fair	L. M. Melbourne.
Kittyhawk, North Carolina	30.28	769.1	30.30	769.6	54	12.2	86	ne.	16	7.2		hz.	2 k		e.	0	0	clear	E. A. Beals.
Knoxville, Tennessee	29.29	744.0	30.31	769.9	51	10.6	82	ne.	2	0.9		0	fg.			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.47	748.5	30.23	767.8	61	16.1	50	se.	8	3.6		0	0			0	0	clear	S. C. Emery.
La Mesilla, New Mexico	26.07	662.2	29.83	757.7	50.5	10.3	51	calm	0	0		3 ck	1 s	sw.		0	0	fair	N. D. Lane.
Leavenworth, Kansas	29.28	743.7	30.16	766.1	61	16.1	56	s.	8	3.6			10 s		s.	0	0	cloudy	A. W. Browne.
Lewiston, Idaho	29.19	741.4	30.03	762.7	48.5	9.2	56	w.	9	4.0		2 cs	8 ks		w.	0	0	cloudy	J. M. Burlew.
Little Rock, Arkansas	29.96	761.0	30.26	768.6	55	12.8	86	calm	0	0		6 c	0	calm		0	0	fair	W. U. Simmons.
Los Angeles, California	29.58	751.3	29.98	761.5	52.1	11.2	72	se.	4	1.8		0	0			0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.74	755.4	30.28	769.1	56	13.3	62	n.	4	1.8		0	0			0	0	clear	H. C. Smyth.
Lynchburg, Virginia	29.61	752.1	30.29	769.4	57.5	14.2	69	calm	0	0		hz.	0			0.01	0.3	clear	W. R. Bushby.
Madison, Wisconsin	29.31	744.5	30.31	769.9	53	11.7	80	s.	4	1.8		0	0			0	0	clear	C. A. Shaw.
Marquette, Michigan	29.57	751.1	30.29	769.4	57	13.9	45	sw.	3	1.3		sk.	0			0	0	clear	J. Gilligan.
Memphis, Tennessee	29.96	761.0	30.30	769.6	60	15.6	60	ne.	2	0.9		0	0			0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.58	751.3	30.32	770.1	57	13.9	57	s.	6	2.7		0	sk.			0	0	dense smoke	W. Line.
Mobile, Alabama	30.22	767.6	30.26	768.6	57.5	14.2	74	n.	4	1.8		2 c	0			0	0	clear	J. D. Paxton.
Montgomery, Alabama	30.04	763.0	30.27	768.8	56.2	13.4	62	ne.	2	0.9		0	0			0	0	clear	J. B. McLaughlin.

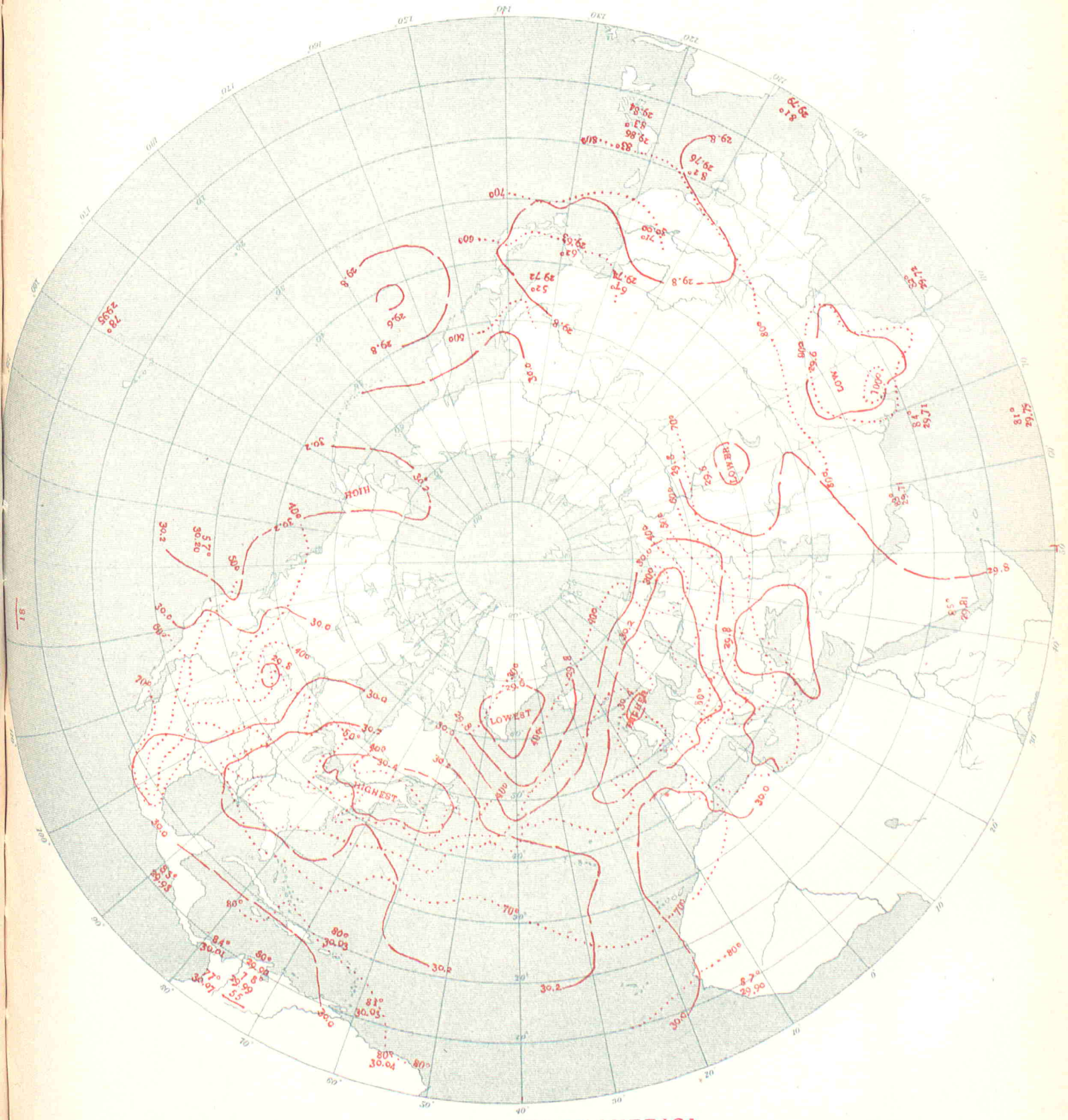
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Moorhead, Minnesota	29.08	738.6	29.06	763.5	54	12.2	86	se.	2	0.9			10 s			0.03	0.8	cloudy	H. Bessant.
Morgantown, W. Virginia	29.28	743.7	29.29	769.4	50.5	10.3	74	calm	0	0		hz.	0			inap.	inap.	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	24.06	611.1	30.24	768.1	22.0	— 5.6	82	e.	33	14.8			10s;fg		e.	0	0	cloudy	J. G. Linsley
Nashville, Tennessee	29.77	756.1	30.30	769.6	51.5	10.8	83	calm	0	0		0	0			0	0	clear	L. A. Jesunofsky.
New Haven, Connecticut	30.29	769.4	30.41	772.4	47	8.3	56	ne.	11	4.9		6 cs	3 s		ne.	0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.37	771.4	30.42	772.7	48	8.9	56	ne.	14	6.3		6 k	0	ne.		0	0	fair	J. G. Lynch.
New Orleans, Louisiana	30.18	766.6	30.23	767.8	66.5	19.2	64	e.	3	1.3		7 c	sk.	w.		0	0	fair	L. Dunne.
Newport, Rhode Island	30.35	770.9	30.40	772.1	45.0	7.2	70	ne.	13	5.8			10 s		ne.	0	0	cloudy	W. McGillivray.
New River, N. Carolina					57	13.9	74	nw.			1	0	hz.			0	0	clear	C. C. Corbin.
New Shoreham, Rhode I'd.	30.35	770.9	30.38	771.6	44.0	6.7	93	ne.	30	13.4			10 n		ne.	0.01	0.3	light rain	W. Davis.
New York, New York	30.21	767.3	30.39	771.9	49	9.4	50	ne.	26	11.6		4 cs	5 s	n.		0	0	cloudy	E. B. Garriott.
Norfolk, Virginia	30.29	769.4	30.32	770.1	53	11.7	86	ne.	10	4.5			10 s		ne.	0	0	cloudy	J. T. Elker.
North Platte, Nebraska	27.04	686.8	29.90	759.4	55.6	13.1	92	nw.	4	1.8			10 s			0.38	9.7	cloudy	E. F. Brady.
Olympia, Washington T'y	30.07	763.8	30.11	764.8	46.5	8.1	83	s.	6	2.7			10 n		s.	0.05	1.3	light rain	J. Dascomb.
Omaha, Nebraska	28.91	734.3	30.07	763.8	55.8	13.2	86	se.	11	4.9			10 n		s.	0.28	7.1	light rain	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.22	767.6	30.24	768.1	30.8	— 0.7	100	sse.	4	1.8			10 n			0.02	0.5	light snow	P. H. Ray.
Oswego, New York	30.04	763.0	30.38	771.6	50.0	10.0	52	se.	4	1.8		1 c	hz.			0	0	clear	S. W. Beall.
Palestine, Texas	29.65	753.1	30.20	767.1	59	15.0	81	e.	6	2.7		0	3 s			0	0	clear	L. M. Pindell.
Pensacola, Florida	30.21	767.3	30.24	768.1	61.3	16.3	62	n.	6	2.7		0	0			0	0	clear	M. McGauran.
Philadelphia, Pa	30.27	768.8	30.37	771.4	53	11.7	48	ne.	16	7.2		0	3 k;hz		ne.	0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.80	452.1	29.86	758.4	18.5	— 7.5	80	w.	24	10.7		0	1 s			0.03	0.8	clear	L. M. Dey.
Pioche, Nevada	24.05	610.9	29.97	761.2	47	8.3	31	nw.	0	2.7		2 c	0	calm		0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.48	748.8	30.28	769.1	51.2	10.7	59	e.	4	1.8		0	0			0	0	clear	J. H. Bryce.
Poplar River, Montana	27.78	705.6						se.			1	0	0			0	0	clear	U. D. Maxwell.
Port Eads, Louisiana	30.22	767.6	30.24	768.1	68.6	20.3	61	ne.	8	3.6		0	2 s			0	0	clear	H. G. Christian.
Port Huron, Michigan	29.72	754.9	30.40	772.1	46.0	7.8	80	ne.	3	1.3		0	hz.			0	0	clear	W. O. Bailey.
Portland, Maine	30.47	773.9	30.52	775.2	46.0	7.8	68	n.	7	3.1			10 s		ne.	0	0	cloudy	D. C. Murphy.
Portland, Oregon	30.09	764.3	30.16	765.1	48.0	8.9	77	s.	6	2.7			10 s		s.	inap.	inap.	cloudy	M. L. Hearne.
Portsmouth, N. Carolina					61	16.1	72	ne.	18	8.0		0	hz.		calm	0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.76	628.9	29.86	758.4	41	5.0	54	s.	4	1.8		0	0			0	0	clear	J. McN. Wright.
Provincetown, Mass	30.38	771.6	30.42	772.7	42.5	5.8	83	ne.	14	6.3			10 s		ne.	0	0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.11	764.8	30.12	765.0	67	19.4	73	ne.	19	8.5		0	hz.			0	0	clear	W. J. Evans.
Red Bluff, California	29.64	752.8	30.01	762.2	56.3	13.5	50	n.	4	1.8		0	2 s			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.81	757.2	30.05	763.3	74	23.3	82	e.	12	5.4			10 s		e.	0	0	cloudy	P. M. Wilson.
Rochester, New York	29.70	754.4	30.36	771.1	45	7.2	68	calm	0	0		hz	sk.			0	0	dense smoke	F. Gillam.
Roseburg, Oregon	29.66	753.4	30.21	767.3	47.7	8.7	75	calm	0	0		8 k	0	w.		0	0	cloudy	J. J. Nanry.
Sacramento, California	29.91	759.7	29.99	761.7	53.7	12.1	74	se.	5	2.2		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.74	755.4	30.33	770.4	55.5	13.1	86	se.	4	1.8		3 cs;hz	0			0	0	clear	J. H. Webber.
St. Paul, Minnesota	29.32	744.7	30.17	766.3	54.0	12.2	74	se.	10	4.5		3 cs	7 s	s.	se.	0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.17	740.9	30.03	762.7	51	10.6	93	se.	5	2.2			10 s		s.	0.08	2.0	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.64	651.2	29.96	761.0	45	7.2	41	calm	0	0		9 k	0	w.		0	0	cloudy	J. Craig.
San Antonio, Texas	29.40	746.7	30.10	764.5	69	20.6	84	e.	6	2.7			10 s		se.	0	0	cloudy	E. Lane.
San Diego, California	29.87	758.7	29.94	760.5	58.6	14.8	85	se.	4	1.8			fg.		s.	0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.68	753.9	30.35	770.9	51.2	10.7	66	n.	15	6.7		0	0			0	0	clear	M. H. Perry.
Sandy Hook, New Jersey	30.34	770.6	30.38	771.6	49.5	9.7	71	ne.	27	12.1		8 k	0	nw.		0	0	cloudy	B. A. Blundon.
San Francisco, California	29.97	761.2	30.04	763.0	50	10.0	86	sw.	7	3.1		2 cs	0	nw.		0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.22	589.8	29.83	757.7	48	8.9	40	ne.	2	0.9		2 k	0	sw.		0	0	clear	H. U. Jones.
Savannah, Georgia	30.16	766.1	30.25	768.3	59	15.0	75	nw	6	2.7		0	hz.			0	0	clear	H. W. Ford.
Shreveport, Louisiana	30.01	762.2	30.25	768.3	58	14.4	74	calm	0	0		8 c	0			0	0	cloudy	E. N. Meekins.
Silver City, New Mexico	24.25	615.9	29.80	756.9	46	7.8	58	n.	1	0.4		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	30.06	763.5	30.12	765.0	39.2	4.0	76	ne.	3	1.3		0	0			0	0	clear	J. J. McLean.
Smithville, North Carolina	30.20	767.1	30.24	768.1	58	14.4	74	n.	7	3.1		0	0			0.03	0.8	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.91	708.9	29.96	761.0	43	6.1	60	sw.	7	3.1		2 k	0			0	0	clear	D. Moore.
Springfield, Illinois	29.66	753.4	30.33	770.4	58	14.4	57	se.	2	0.9		0	hz.			0	0	clear	T. B. Jennings.
Springfield, Massachusetts	30.34	770.6	30.47	773.9	48.0	8.9	56	ne.	8	3.6		4 ck	5 ks	ne.	ne.	0	0	fair	T. S. Outram.
Springfield, Mo	28.83	732.3	30.31	769.9	54	12.2	77	se.	7	3.1		8 c	0	w.		0	0	cloudy	J. B. Marbury.
Starkville, Miss	29.84	757.9			55.2	12.9	80	n.	6	2.7		2 c	0			0	0	clear	M. J. Wright.
Stockton, Texas	26.97	685.0	29.98	761.5	65.2	18.4	78	s.	20	8.9			10 s		s.	0	0	cloudy	J. O'Dowd.
Thatcher's Island, Mass	30.33	770.4	30.38	771.6	39.7	4.3	86	ne.	18	8.0			10 s		ne.	0	0	cloudy	F. R. Day.
Toledo, Ohio	29.66	753.4	30.34	770.6	50	10.0	63	ne.	7	3.1		0	0			0	0	clear	A. Buell.
Tucson, Arizona	27.54	699.5	29.88	758.9	57	13.9	39	s.	5	2.2		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.72	754.9	30.09	764.3	48	8.9	50	w.	16	7.2		7 ck	1 s	nw.		0	0	cloudy	J. Daly.
Uvalde, Texas	29.08	738.6	30.03	762.7	69	20.6	93	se.	6	2.7			10 n		se.	0.20	5.1	light rain	E. C. Imlay.
Vicksburg, Mississippi	30.01	762.2	30.26	768.6	60	15.6	54	e.	3	1.3		7 c	0			0	0	fair	H. T. Brisbane.
Visalia, California	29.62	752.3	29.99	761.7	53	11.7	80	nw.	1	0.4		2 cs	0	nw.		0	0	clear	W. L. Seward.
Washington, D. C.	30.26	768.6	30.38	771.6	50.9	10.5	72	ne.	8	3.6		5 k	hz.	ne.		inap.	inap.	fair	B. M. Purssell.
West Las Animas, Colorado	26.06	661.9	29.92	760.0	55	12.8	80	nw.	8	3.6			10 s		w.	0.15	3.8	cloudy	J. Grover.
Williamsport, Pa	29.78	756.4	30.38	771.6	47.5	8.6	76	calm	0	0		6 k	hz.	n.		0	0	fair	B. F. Hough.
Wilmington, N. Carolina	30.19	766.8	30.24	768.1	59	15.0	68	nw.	4	1.8		hz.	hz.			inap.	inap	dense haze	A. T. Sherwood.
Winnemucca, Nevada	25.64	651.2	30.00	762.0	38	3.3	56	sw.	6	2.7		8 cs	0	sw.		0	0	cloudy	J. R. Williams.
Yankton, Dakota	28.68	728.5	29.96	761.0	53	11.7	93	se.	20	8.9			10 n		se.	1.81	46.0	light rain	J. H. Atfield.
Yuma, Arizona	29.67	753.6	29.82	757.4	64.0	17.8	68	nw.	1	0.4		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8			54.5	12.5	85	calm	0	0		3 ck	4ks;s			0.80	20.3	fair	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.02	762.5	30.03	762.7	81	27.2	91	e.				5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	30.04	763.0	30.07	763.8	77	25.0	95	s.	4	1.8			10 ks		s.	0.70	17.8	cloudy	J. I. Plume.
Havana, Cuba, W. I.	30.02	762.5	30.07	763.8	79	26.1	74	se.	1.2	0.5		0	2 ks		calm	0	0	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	29.97	761.2	29.98	761.5	78.9	26.1	75	calm	0	0		1 cs	8 s		e.	0	0	cloudy	Robert Johnston.
Magua, San Domingo, W. I					72	22.2						0	0			0.61	15.5		S. M. Pike.
Navassa, W. I.																			F. M. Everett.
Paramaribo, S. A.	30.04	763.0	30.04	763.0	80	26.7	78	e.			2	4 c	5 k	e.		1.420	36.1	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.53	750.0	29.99	761.7	78	25.6	84	calm			0		9 s		calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							90	ne.			1	3 cs	0	se.		0	0	fair	Earl Flint.
Santiago de Cuba, W. I.	29.98	761.5	30.01	762.2	77	25.0	82	n.	3.6	1.6		6 cs	2ks			0.05	1.3	cloudy	Robert Mason.
York Factory, B. A.	29.94	760.5	29.99	761.7	47.0	8.3	96	sw.	10	4.5		4 k	2 s	sw.	sw.	0	0	cloudy	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Alert, Port Mozambique, Mozambique	29.97	761.2	81.8	27.7	75	e.			1-2		2							d. clouds.
H. M. S. Alexandra, Suda Bay, Turkey in Europe	29.88	758.9	72.5	22.5	56	wnw.			1		3							d. clouds.
H. M. S. Amethyst, N. 17° 42′ W. 24° 46′	30.09	764.3	73	22.8	89	n.			3		2	ssw.				2	n.	d. clouds.
H. M. S. S. S. Champion, N. 6° 05′ W. 122° 30′			81	27.2	91	sw.			2		9	calm				2	sw.	d. clouds.
H. M. S. Cleopatra, N. 19° 48′, E. 112° 22′	29.76	755.9	81.5	27.5	95	s.			1-2		4	n.						d. clouds.
H. M. S. Comus, Singapore, Malay Peninsula	29.79	756.7	80.5	26.9	87	sw.			1		8							showery.
H. M. S. Candor, N. 37° 24′ E. 21° 03′	29.91	759.7	70	21.1		ssw.			2		6	ssw.						showery.
H. M. S. Coquette, Alexandria, Egypt	29.89	759.2	74	23.3		ne.			4		3	nne.						d. clouds.
H. M. S. Dido, N. 13° 05′, W. 59° 30′	30.10	764.5	78	25.6		e.			2-3		3	e.						d. clouds.
H. M. Dock Yard, Bermuda, W. I.	30.06	763.5	70	21.1	97	ese.			1-2		10	ese.						raining.
H. M. S. Druid, N. 17° 29′, W. 88° 11′	29.99	761.7	80.5	26.9	82	ene.			2-3		4	ene.						d. clouds.
H. M. S. Dwarf, S. 34° 36′, W. 58° 19′	30.11	764.8	49.5	9.7	96	calm			0		10							foggy.
H. M. S. Eclipse, S 23° 30′, E. 43° 46′	30.00	762.0	77	25.0		ese.			3-4		3							d. clouds.
H. M. S. Emerald, S. 52° 40′, W. 147° 40′	29.41	747.0	42	5.6	100	s.			5-6		4	s.				4	s.	squally.
H. M. S. Euryalus, Trincomalee, Ceylon	29.72	754.9	82	27.8	78	sw.			2-4		9	calm						squally.
H. M. S. Fantome, N. 11° 04′, W. 71° 43′	29.90	759.4	80	26.7		ene.			2		7	ene.				2	ene.	d. clouds.
H. M. S. Flying Fish, N. 34° 41′, E. 125° 26′	29.72	754.9	61	16.1	70	calm			0		4							d. clouds.
H. M. S. Fawn, N. 2° 28′, E. 64° 12′	29.79	756.7	80.5	26.9	76	s.			3		10	sse.				2	s.	showery.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.08	764.0	53	11.7	91	calm			0		8							foggy.
H. M. S. Garnet, Colonia, Uruguay	30.05	763.3	53	11.7	79	e.			1		0							blue sky.
H. M. S. Griffon, N. 45° 36′ W. 58° 20′	30.51	774.9	36	2.2	62	nne.			2		5	nne.				2	ene.	d. clouds.
H. M. S. Inconstant, S. 31° 45′, E. 14° 00′	30.25	768.3	62	16.7	88	ese.			3		7	se.				2	se.	d. clouds.
H. M. S. Iron Duke, N. 32° 44′, E. 129° 52′	29.64	752.8	65	18.3	94	nw.			1		5							d. clouds.
H. M. S. Kingfisher, S. 8° 47′ W. 79° 49′	30.01	762.2	65	18.3		sse.			2		8	calm				2	se.	d. clouds.
H. M. S. Lark. S. 7° 23′, E. 156° 27′	29.89	759.2	81.3	27.4		ne.			1		4					1	e.	d. clouds.
H. M. S. Magpie, N. 34° 56′, E. 139° 52′	29.86	758.4	61.3	16.3	91	e.			1		10							raining.
H. M. S. Northampton, Bermuda, W. I.	30.01	762.2	71.5	21.9	98	ese.			2									raining.
H. M. S. Orontes, N. 17° 08′, W. 70° 42′	29.98	761.5	81.5	27.5	93	e.			3		5	ese.				3	e.	showery.
H. M. S. Rambler, S. 1° 40′ E. 6° 15′	29.90	759.4	79	26.1	100	ssw.			3		9	ssw.				3	ssw.	d. clouds.
H. M. S. Rocket, N. 48° 27′ W. 123° 27′	30.05	763.3	46	7.8	92	wsw.			3		6							d. clouds.
H. M. S. Sylvia, N. 30° 42′, W. 18° 17′	29.96	761.0	64.7	18.2	70	wnw.			2-3		6	wsw.				3	wsw.	d. clouds.
H. M. S. Swiftsure, N. 49° 54′ W. 4° 32′	30.39	771.9	60	15.6	82	ese.			3		7	ene.				2	ese.	d. clouds.
H. M. S. Tenedos, N. 47° 40′ W. 55° 07′	30.42	772.7	42	5.6	65	nnw.			1		1							blue sky.
H. M. S. Triumph, Coquimbo, Chili	30.05	763.3	52	11.1	93	calm			0		10	calm						foggy.
H. M. S. Tyne, N. 36° 20′, W. 9° 35′	29.94	760.5	65	18.3	89	ssw.			2		8	ssw.				1	sse.	d. clouds.
H. M. S. Woodlark, N. 22° 37′ E. 59° 28′	29.61	752.1	82.5	28.1	79	sse.			5		1					4	s.	blue sky.
PORTUGUESE NAVAL.																		
Rio Lima, Porto Praya, Cape Verd Island	30.20	767.1	73.9	23.3	89	nne.			3		1		nne.			2		d. clouds.
Tamega, Macao, China	29.81	757.2	84.2	29.0	81	se.			3		2		se.	3 h'r	3 h'r			d. clouds.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	30.19	766.8	65	18.3	45	ne.	5	2.2			0			0	0			clear.
Navy Yard, Portsmouth, N. H.	30.55	776.0	43	6.1	36	ene.	8	3.6			10		ne.	0	0			cloudy.
Naval Hospital, Yokohama, Japan	29.76	755.9	58.5	14.7	94	sw.			1		10		w.	0.27	6.9			drizzling.
Adams, Mare Island, Cal	29.80	756.9	57	13.9	87	sw.			1		0					sm'h		clear.
Alaska, Callao, Peru	29.95	760.7	61	16.1	94	calm			0		8			0	0	sm'h		cloudy.
Alert, Kobe, Japan*	29.54	750.3	66	18.9	100	ene.			5		10		calm			sm'h		cloudy.
Alliance, N. 36° 29′ W. 73° 46′	30.28	769.1	53	11.7	86	nne.			3		2			0	0	sm'h		clear.
Ashuelot, Kobe, Japan	29.63	752.6	65	18.3	89	ne.			6		10		ne.					squally.
Brooklyn, Montevideo, Uruguay	30.06	763.5	56	13.3	100	e.	1	0.4			5		calm	0	0	sm'h		fair.
Colorado, New York, N. Y.	30.40	772.1	50	10.0	52	ne.	10	4.5			10		ne.	0	0			cloudy.
Essex, Montevideo, Uruguay	29.95	760.7	55	12.8	87													
Franklin, Norfolk, Va.	30.31	769.9	54	12.2	80	ene.	12	5.4			10		ene.	0	0			cloudy.
Galena, Gibralter, Mediterranean	29.98	761.5	63	17.2	94	n.			5		10.		ene.			sm'h		cloudy.
Independence, Mare Island, Cal	29.87	758.7	54	12.2	80	sw.			3		2			0	0			fair.
Iroquois, San Francisco, Cal	30.02	762.5	51	10.6	86	sw.			2		2							clear.
Kearsage, N. 36° 27′ W. 74° 03′	30.25	768.3	52	11.1	100	n.			4		2					sm'h		clear.
Lackawanna, S. 0° 20′, W. 81° 01′*	29.91	759.7	75	23.9	81	sw.			2		10		w.			sm'h	w.	cloudy.
Lancaster, Gibralter, Mediterranean	29.92	760.0	63	17.2	94	ne.			5		10		ne.			mod.	w.	cloudy.
Marion, S. 30° 43′, W. 46° 10′	30.01	762.2	70	21.1	?	n.			2		10		n.	0	0	sm'h		cloudy.
Michigan, Erie, Pa	30.38	771.6	45	7.2	100	ne.			3		0							clear.
Minnesota, Newport, R. I.	30.39	771.9	46	7.8	77	ne.	10	4.5			8							cloudy.
Monocacy, Nagasaki, Japan	29.72	754.9	65	18.3	94	calm			0		2		calm					fair.
New Hampshire, Newport, R. I.	30.36	771.1	45	7.2	100	ne.			6		10					sm'h		cloudy.
Nipsic, Gibralter, Mediterranean	29.98	761.5	63	17.2	78	nne.			4		10					sm'h		cloudy.
Onward. Callao, Peru†	30.09	764.3	61	16.1	100	sse.			1		10		n.			long	n.	cloudy.
Palos, Kobe, Japan	29.65	753.1	64	17.8	78	ene.			6		10		ene.					cloudy.
Passaic, Washington, D. C.	30.37	771.4	51	10.6	79	ne.			1		10							cloudy.
Pensacola, Callao, Peru	30.01	762.2	63	17.2	94	ssw.	4	1.8			10			0	0	sm'h		foggy.
Portsmouth, Plymouth, Eng.	30.33	770.4	59	15.0	100	ese.			4		2					sm'h		clear.
Powhatan, Hampton Roads, Va.	30.29	769.4	54	12.2	87	ne.			2		5							fair.
Quinnebaug, Gibralter, Mediterranean	29.96	761.0	63	17.2	83	wsw.			5		10		calm			r'gh	s.	overcast.
Ranger, N. 24° 36′, W. 109° 00′*	29.83	757.7	77	25.0	82	se.			3		5		calm	0	0	sm'h		fair.
Richmond, Kobe, Japan*	29.55	750.6	66	18.9	94	nne.			5		10		ne.	0.26	6.6			cloudy.
Saratoga, Plymouth, Eng.	30.34	770.6	59	15.0	59	ene.			3		0			0	0	sm'h		clear.
Shenandoah, New York, N. Y.*	30.44	773.2	56	13.3	57	ene.			3		8							hazy.
St. Louis, League Island, Pa.	30.58	776.7	51	10.6	65	nne.	12	5.4			5		ne.	0	0			fair.
Swatara, N. 37° 27′ E. 125° 33′*	29.53	750.0	62	16.7	77	n.			1		0					sm'h		clear.
Tennessee, N. 36° 26′, W. 74° 02′	30.29	769.4	51	10.6	93	n.	17	7.6			8		n.	0	0	sm'h		hazy.
Vandalia, N. 36° 23′ W. 73° 49′*	30.22	767.6	54	12.2	87	n.			4		2		n.			sm'h		hazy.
Wabash, Boston, Mass.	30.48	774.2	45	7.2	84	ene.	7	3.1			10		e.					cloudy.
Wachusetts, Fort Wrangle, Alaska	30.00	762.0	39	3.9	100	calm			0		2			0	0	sm'h		fair.
Wyoming, Port Royal, S. C.	30.24	768.1	61	16.1	71	nnw.	4	1.8			0			0	0			clear.
Yantic, N. 36° 22′, W. 73° 45′*	30.20	767.1	53	11.7	86	n.			3		5					sm'h		fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Nova Scotian, N. 44° 27′, W. 44° 45′	30.20	767.1	43	6.1	.....	w.	.....	.....	4	.....	10	.....	wnw.	.....	.....	mod.	wnw.	cloudy.
S. S. Prussian, N. 45° 29′, W. 50° 00′*	30.22	767.6	38	3.3	.....	wnw.	.....	.....	1	.....	4	.....	nnw.	15 h'r	15 h'r	light	wnw.	clear.
S. S. Scandinavian, N. 55° 20′, W. 8° 08′*	30.24	768.1	58	14.4	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	wnw.	misty.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, Philadelphia, Pa	30.29	769.4	56	13.3	93	ne.	.....	.....	2	.....	2	.....	ne.	.....	.....	.....	.....	fair.
S. S. Indiana, N. 45° 26′, E. 37° 23′†	30.22	767.6	59	15.0	94	w.	.....	.....	5	.....	5?	.....	w.	light	light	mod.	nw.	cloudy.?
S. S. Lord Clive, Philadelphia, Pa*	30.13	765.3	.....	.....	.....	ne.	.....	.....	3	.....	4	.....	ne.	0	0	.....	.....	fine.
S. S. Ohio, N. 43° 30′, W. 44° 55′†	30.29	769.4	61	16.1	94	w.	.....	.....	6	.....	5	.....	w.	.....	.....	mod.	w.	misty.
ANCHOR LINE.																		
S. S. Bolivia, N. 48° 29′, W. 39° 10′†	29.76	755.9	49	9.4	.....	wsw.	.....	.....	6	.....	6	.....	wsw.	7 h'r	7 h'r	h'vy	wsw.	raining.
S. S. India, N. 17° 54′, N. 67° 26′*	29.71	754.6	84	28.9	91	w.	.....	.....	2	.....	2	.....	.....	.....	.....	sm'h	.....	fair.
S. S. Utopia, Off Alicante, Spain†	30.26	768.6	65	18.3	73	ne.	.....	.....	5	.....	2	.....	ne.	0	0	mod.	.....	clear.
ATLAS LINE.																		
S. S. Ailsa, N. 33° 55′, W. 74° 31′†	30.15	765.8	66	18.9	64	ne.	.....	.....	6	.....	10	.....	ne.	0	0	mod.	ne.	fair.
S. S. Alvo, N. 34° 03′ W. 74° 05′	30.36	771.1	85	29.4	.....	nne.	.....	.....	3	.....	4	.....	s.	0	0	.....	ssw.	
S. S. Athos, San Juan, Porto Rico, W. I	29.68	753.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S 40° 04′, E. 1° 07′	29.91	759.7	56.3	13.5	90	nw.	.....	.....	6	.....	8	.....	.....	.....	.....	.....	.....	d. clouds.
British Merchant, S. 30° 37′, E. 10° 13′	30.29	769.4	63	17.2	76	se.	.....	.....	3	.....	9	.....	.....	.....	.....	.....	.....	d. clouds.
Bk. Commewyne, N. 40° 57′, W 21° 32′	30.10	764.5	60	15.6	70	nne.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	.....	d. clouds.
Bk Coppename, N. 24° 16′, W. 23° 02′	30.15	765.8	69	20.6	61	nnw.	.....	.....	4	.....	1	.....	.....	.....	.....	.....	.....	blue sky.
S. S. Earnock, N. 43° 26′ W. 20° 00′	30.10	764.5	58	14.4	76	ne.	.....	.....	4	.....	9	.....	.....	.....	.....	.....	.....	d. clouds.
Glencairn, S. 27° 10′, E. 46° 12′	30.01	762.2	79	26.1	90	var.	.....	.....	4	.....	9	.....	.....	.....	.....	.....	.....	gloomy.
Bkt. Hope, N. 27° 47′ W. 44° 39′	30.36	771.1	72.6	22.6	81	ne.	.....	.....	4	.....	4	.....	.....	.....	.....	.....	.....	squally.
S. S. May Hulse, S. 24° 58′, W. 80° 29′	30.14	765.5	64.2	17.9	78	se.	.....	.....	4	.....	9	.....	.....	.....	.....	.....	.....	showery.
S. S. Minho, Rio de Janeiro, Brazil	30.11	764.8	72.5	22.5	80	se.	.....	.....	3	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
CUNARD LINE.																		
S. S. Bothnia, N. 47° 07′ W. 38° 33′	29.90	759.4	.....	.....	.....	wsw.	.....	.....	6	.....	8	.....	w.	12 h'r	12 h'r	r'gh	wsw.	foggy.
S. S. Gallia, N. 51° 20′, W. 11° 55′	30.32	770.1	56	13.3	87	e.	.....	.....	3	.....	5	.....	e.	0	0	sm'h	.....	hazy.
S. S. Marathon, N. 51° 55′, W. 60° 54′	30.47	773.9	60	15.6	.....	sw.	.....	.....	1	.....	0	.....	.....	0	0	sm'h	.....	clear.
S. S. Scythia, New York, N. Y	30.36	771.1	53	11.7	73	ne.	.....	.....	4	.....	8	.....	ne.	0	0	.....	.....	fine.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. St. Germain, N. 40° 30′ W. 74° 10′	30.28	769.1	46.4	8.0	.....	ne.	.....	.....	2	.....	.....	.....	ne.	0	0	sm'h	ne.	
S. S. Ville de Marseilles, N. 38° 52′, W. 39° 06′*†	30.40	772.1	68	20.0	.....	nnw.	.....	.....	4	.....	9	.....	nnw.	0	0	mod.	nnw.	cloudy.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S Bohemia, N. 42° 37′, W. 42° 55′*†	30.28	769.1	.....	.....	.....	sw.	.....	.....	5	.....	3	.....	sw.	0	0	mod.	sw.	fine.
S. S. Cimbria, N. 40° 39′, W. 20° 25′	30.19	766.8	52.2	11.2	.....	s.	.....	.....	5	.....	1	.....	s.	0	0	mod.	s.	very fair.
S. S. Lessing, New York, N. Y	30.26	768.7	56	13.3	.....	ne.	.....	.....	4	.....	5?	.....	ne.	0	0	.....	.....	cloudy.
S. S. Silesia, Hamburg, Germany†	30.38	771.6	58	14.4	.....	nw.	.....	.....	5	.....	10	.....	.....	0	0	.....	.....	overcast.
S. S. Wieland, N. 45° 56′ W. 33° 53′	30.11	764.8	61	16.1	.....	sw	.....	.....	3	.....	10	.....	sw.	0	0	1	sw.	hazy.
INMAN LINE.																		
S. S. City of New York, N. 41° 30′, W. 51° 20′	30.23	767.8	.....	.....	.....	ssw.	.....	.....	5	.....	fg	.....	.....	3 h'r	3 h'r	cross	ssw.	foggy.
JOHNSTON LINE.																		
S. S. Thalemore, N. 38° 35′ W. 70° 38′	30.17	766.3	.....	.....	.....	n.	.....	.....	4	.....	10	.....	nne.	driz	driz	.....	.....	foggy.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, Rio de Janeiro, Brazil*†	30.29	769.4	76	24.4	.....	nne.	.....	.....	1	.....	2	.....	ese.	0	0	.....	.....	clear.
S. S. Humboldt, N. 11° 57′, W. 51° 20′*	30.01	762.2	79	26.1	82	e.	.....	.....	3	.....	3k	.....	.....	0	0	3	ne.	d. clouds.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, San Juan, Porto Rico, W. I. †	30.05	763.3	81	27.2	91	se.	.....	.....	4	.....	1	.....	sw.	8 h'r	8 h'r	mod.	se.	squally.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenapp, Pernambuca, Brazil*†	29.96	761.0	.....	.....	.....	var.	.....	.....	3	.....	4	.....	se.	0	0	.....	.....	fine.
NATIONAL LINE.																		
S. S. Denmark, N. 50° 32′ W. 1° 33′	30.49	774.4	62	16.7	.....	ne.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. England, Liverpool, Eng	30.36	771.1	.....	.....	.....	ese.	.....	.....	3	.....	1	.....	ese.	0	0	.....	.....	clear.
S. S. Erin, New York, N. Y	30.32	770.1	58	14.4	.....	ne.	.....	.....	6	.....	7	.....	ne.	0	0	.....	.....	fine.
S. S. Greece, N. 44° 25′, W. 40° 31′	30.17	766.3	.....	.....	.....	wsw.	.....	.....	4	.....	8	.....	wsw.	0	0	mod.	sw.	
S. S. Italy, N. 42° 24′ W. 45° 38′	30.32	770.1	62	16.7	.....	wnw.	.....	.....	4	.....	8	.....	nw.	6 h'r	6 h'r	mod.	w.	misty.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S City of Alexandria, N. 23° 09′ W. 85° 02′.*†	30.14	765.5	75	23.9	64	ene.	.....	.....	5	.....	4	.....	ene.	0	0	small	ene.	d. clouds.
S. S. City of Puebla, N. 22° 55′ W. 84° 27′†	29.99	761.7	76	24.4	.....	ne.	.....	.....	3	.....	1	.....	nne.	.....	.....	mod.	nne.	
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Mass, N. 41° 47′, W. 56° 44′*†	30.38	771.6	36	2.2	.....	ene.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	ne.	rainy.
NORTH GERMAN LLOYD																		
S. S. Elbe, N. 41° 13′ W. 55° 37′	30.31	769.9	44.6	7.0	100	ne.	.....	.....	5-6	.....	10	.....	ne.	0	0	r'gh	ne.	covered.
S. S. Graf Bismarck, S. 15° 45′ W. 38° 24′	30.22	767.6	82.4	28.0	.....	sse.	.....	.....	2-3	.....	3	.....	se.	0	0	mod.	sse.	clear.
S. S. Hermann, N. 51° 46′, E. 2° 14′†	30.25	768.3	53.6	12.0	.....	nne.	.....	.....	4	.....	2	.....	n.	0	0	mod.	nne.	fair.
S. S. Hohenzollern, N. 37° 17′, W. 75° 17′*	30.36	771.1	48.2	9.0	.....	n.	.....	.....	4	.....	2	.....	n.	0	0	sm'h	n.	clear.
S. S. Main, N. 48° 50′, W. 22° 36′	30.20	767.1	56.3	13.5	.....	sw.	.....	.....	4-5	.....	8	.....	sw.	0	0	sm'h	sw.	fine.
S. S. Oder, N. 49° 34′, W. 16° 57′	30.28	769.1	60.8	16.0	.....	s.	.....	.....	3	.....	4	.....	ssw.	0	0	sm'h	sse.	fair.
S. S. Ohio, N. 51° 58′, E. 2° 40′	30.43	772.9	.....	.....	.....	n.	.....	.....	3	.....	2	.....	n.	0	0	sm'h	n.	clear.
S. S. Saller, N. 40° 37′, W. 70° 06′	30.24	768.1	40.1	4.5	.....	nne.	.....	.....	7	.....	10	.....	ne.	2 h'r	2 h'r	cross	ne.	hazy.
S. S. Strassburg, N. 45° 03′, W. 38° 32′	30.10	764.5	64.0	17.8	89	w.	.....	.....	5	.....	4	.....	wnw.	2 h'r	2 h'r	mod.	w.	foggy
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic N. 30° 05′, E. 131° 54′†	29.96	761.0	73	22.8	76	w.	.....	.....	4	.....	8	.....	wnw.	0	0	mod.	s.	cloudy.
S. S. Gaelic, N. 35° 03′, E. 160° 40′†	30.06	762.0	64	17.8	63	w.	.....	.....	6	.....	9	.....	w.	.....	.....	high	nw.	overcast.
S. S. Oceanic, N. 42° 02′, E. 163° 20 *	29.45	748.0	46	7.8	92	wnw.	.....	.....	6	.....	9	.....	nw.	.....	.....	4	nw.	cloudy.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y.††	30.87	784.1	.....	.....	.....	e.	.....	.....	3	.....	6?	.....	e.	.....	.....	.....	.....	clear.?
S. S. City of Columbus, N. 37° 40′, W. 74° 43′†	30.22	767.6	.....	.....	.....	ne.	.....	.....	1	.....	6	.....	.....	.....	.....	mod.	ne.	cloudy.
S. S. Seminole, Savannah, Ga.†	30.27	768.8	66	18.9	68	nw.	.....	.....	1	.....	1	.....	ne.	0	0	.....	.....	clear.
OREGON IMPROVEMENT COMPANY.																		
S. S. Willametta, Seattle, Wash. Ter.†	30.14	765.5	46	7.8	76	nne.	.....	.....	2	.....	10	.....	nne.	0.09	2.3	.....	.....	rainy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, N. 37° 55′, W. 122° 49′†	30.09	764.3	51	10.6	78	ne.	.....	.....	2	.....	0	.....	.....	.....	.....	sm'h	.....	hazy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 32° 39′, W. 117° 13′†	29.92	760.0	59	15.0	94	sse.	.....	.....	2	.....	8	.....	s.	.....	.....	sm'h	wnw.	cloudy.
S. S. Dakota, Seattle, Wash. Ter.†	30.17	766.3	51	10.6	93	se.	.....	.....	4	.....	10?	.....	se.	.....	.....	sm'h	.....	clear.
S. S. State of California, Portland, Oregon†	30.14	765.5	49	9.4	1	s.	.....	.....	2	.....	8	.....	s.	.....	.....	.....	.....	cloudy.
S. S. Victoria, San Francisco, Cal.†	29.94	760.5	49	9.4	100	calm	.....	.....	0	.....	0	.....	.....	0	0	sm'h	.....	clear.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. City of New York, S. 33° 58′, E 152° 30′†	30.25	768.3	71	21.7	80	ese.	.....	.....	4	.....	5	.....	e.	0	0	light	se.	fair.
S. S. City of Pekin, N. 37° 56′ W. 131° 02′†	30.26	768.6	57	13.9	87	nw.	.....	.....	3	.....	10	.....	nw.	.....	.....	light	nw.	overcast.
S. S. City of Rio de Janeiro, N. 37° 00′, W. 122° 40′*†	30.22	767.6	52	11.1	86	nw.	.....	.....	5	.....	6	.....	nw.	0	0	mod.	nw.	cloudy.
S. S. City of Sydney, N. 11° 39′, W. 161° 56′†	29.95	760.7	78	25.6	91	e.	.....	.....	3	.....	5	.....	sse.	.....	.....	long	se.	drizzling.
S. S. City of Tokio, Hong Kong, China†	29.80	758.4	77	25.0	86	ssw.	.....	.....	2	.....	10	.....	ssw.	8 h'r	8 h'r	.....	.....	raining.
S. S. Colima, N. 10° 40′, W. 86° 54′†	29.93	760.2	83	28.3	71	ene.	.....	.....	3	.....	10	.....	se.	0.25	6.3	sm'h	ne.	cloudy.
S. S. Colon, N. 13° 44′, W. 76° 57′†	29.95	760.7	82	27.8	.....	ene.	.....	.....	4	.....	9	.....	ene.	0	0	mod.	ne.	cloudy.
S. S. Granada, Acapulco, Mexico†	29.93	760.2	79	20.1	95	calm	.....	.....	0	.....	2	.....	W.	0	0	.....	.....	clear.
S. S. South Carolina, Panama, Panama†	30.01	762.2	84	28.9	75	n.	.....	.....	1	.....	2	.....	ne.	2 h'r	2 h'r	sm'h	.....	showery.
S. S. Zelandia, Sydney, N. S. W	30.27	768.8	60	15.6	65	e.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	clear.
QUEBEC STEAMSHIP COMPANY.																		
S. S. Muriel, N. 21° 50′, W. 63° 56′	29.98	761.5	78	25.6	.....	se.	.....	.....	3	.....	0	.....	.....	.....	.....	mod.	sw.	rainy.
S. S. Bermuda, N. 32° 43′, W. 70° 35′†	30.09	764.3	47?	8.3?	.....	nne.	.....	.....	3	.....	3	.....	nne.	0	0	long	ne.	fine.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
RED STAR LINE.																		
S. S. Belgenland, N. 49° 22′, W. 9° 18′†	30.43	772.9	60	15.6	94	e.			5		1		e.	0	0	sm'h	e.	clear.
S. S. Nederland, N. 39° 57′, W. 52° 41′†	30.22	767.6	62	16.7		ssw.			2		10		ssw.	1 h'r	1 h'r	short	ssw.	hazy.
S. S. Rhynland, Antwerp, Belgium	30.35	770.9	64	17.8	83	n.			4		7		n.	0	0			cloudy.
S. S. Switzerland, N. 38° 49′ W. 72° 03′†	30.22	767.6				n.			5		10		n.	0	0	mod.	n.	cloudy.
S. S. Vaderland, N. 41° 13′, W. 47° 00′	30.11	764.8	65	18.3	94	sw.			3		8		w.	0	0	sm'h	wsw.	cloudy.
S. S. Waesland, Jersey City, N. J	30.30	769.6	51	10.6		nne.			4		5		nne.	0	0			fair.
ROTTERDAM LINE.																		
S. S. Schiedam, N. 49° 36′ W. 26° 14′*	29.95	760.7	57.6	14.2		ssw.			6		10			3 h'r	3 h'r	r'gh	sw.	foggy.
S. S. W. A. Scholten, Rotterdam, Holland	30.17	766.3	64	17.8	89	nne.			3		2		ne.	0	0			
STATE LINE.																		
S. S. State of Florida, New York, N. Y.	30.30	769.6	55	12.8		nne.			2		6		ne.	0	0			fair.
S. S. State of Georgia, N. 50° 18′, W. 36° 01′†	29.75	755.6	52	11.1		wsw.			6		10					short	wsw.	heavy rain.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 58° 36′, W. 6° 27′†	30.58	776.7	59.9	15.5		sw.			3		2		sw.	0	0	sm'h	sw.	clear.
WARREN LINE.																		
S. S. Iowa, N. 42° 20′, W. 66° 05′*†	30.40	772.1	37	2.8		ene.			6		10		e.	1 h'r	1 h'r	rg'h	e.	threatening
WHITE STAR LINE.																		
S. S. Adriatic, N. 48° 53′ W. 32° 10′.†	30.11	764.8	55.5	13.1	97	s.			5		10		sw.	24 h'r	24 h'r	mod.	sw.	foggy
S. S. Celtic, Liverpool, Eng†	30.44	773.2	58	14.4	76	n.			1		0			0	0	sm'h		fine.
S. S. Republic, N. 40° 55′ W. 62° 52′†	30.35	770.9	52	11.1	53	ne.			5		10		se.	7 h'r	7 h'r	mod.	ene.	overcast.
WILSON LINE.																		
S. S. Otranto, N. 40° 16′, W. 72° 08′†	30.37	771.4	44	6.7		ne.			6		10		nne.			cross	nne.	cloudy.
MISCELLANEOUS.																		
Sch. Addie Fuller, Newport News, Va†	30.36	771.1	54	12.2	86	ne.			3	0	hz			0	0			hazy.
Bk. Adelaide, S. 3° 59′, W. 35° 29′*†	30.04	763.0	85	29.4		ese.			4		1		ese.	0	0	light	ese.	clear.
Schr. Ajax, Brazos, Texas†	30.10	764.5				ese.			3		1		se.	0	0			clear.
Bk. Alpha, Guanatamo, Cuba, W. I.†	29.94	760.5	80	26.7		n.			1		3			0	0			fair.
Sch'r Annie R. Lewis, Aransas Pass, Texas†	30.19	766.8	78	25.6		se.			7		8		se.	0	0	short	se.	cloudy.
Bk. Annie Thorman, N. 22° 53′, W. 33° 27′	30.26	768.6	71.4	21.9	70	ne.			5		1 k		ne.	0	0	mod.	ne.	clear.
Bk. Antioch, S. 40° 39′ E. 137° 30′*†	30.20	767.1	56	13.3		ssw.			5		3		ssw.	0	0	sm'h	wsw.	fair.
S. S. Antonio Lopez, N. 31° 27′ W. 73° 50′*	30.21	767.3	66	18.9	64	nne.			5		3 k			3 h'r	3 h'r	mod.	nne.	fair.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.17	766.3	79	26.1		calm			0		0			0	0			clear.
Schr. Annie M. Smull, S. 4° 50′, E. 106° 26′*†	29.95	760.7	89	31.7		ssw.								0	0			
Bk. Bergenseren, N. 35° 48′ W. 6° 30′†	29.82	757.4				se.			4		hz.		se.	0	0	3	ese.	overcast
S. S Compton, Cardenas, Cuba†	30.04	763.0				ne.			5		4		ne.	0	0			clearing.
Schr. Edith R. Seward, N. 20° 59′, W. 74° 29′*†	30.19	766.8	81	27.2		ne.			1		5		ne.	½ h'r	½ h'r	short	ne.	fair.
S. E. J. Spicer, London, Eng.†	30.42	772.7				e.			2		3		e.	0	0			
Essex, N. 38° 30, W. 69° 30′*†	30.15	765.8	56	13.3		e.			1		8		ne.	0	0	hv'y	ne.	hazy.
S. Exporter, S 41° 56′, W. 4° 00′*†	30.00	762.0				ne.			6				w.	10 h'r	10 h'r	cross		cloudy.
Bk. Freya, Dublin, Ireland			59	15.0		e.			2		0			0	0			fine.
Godfrey, N. 36° 38′ W. 74° 57′	30.28	769.1	47.1	8.4	97	ne.			4–5		10		ne.	0	0	mod.	ene.	foggy.
S. Grecian, Anjer, Java*†	29.85	758.2	81	27.2		calm.			0		6		e.	0	0			fair.
Bk Hattie G. McFarland, Boston, Mass*†	30.45	773.4	50	10.0		ene.			3		10		e.	2 h'r	2 h'r			stormy.
Schr. Henry Denison, N. 25° 28′, W. 76° 40′†	29.96	761.0				ne.			3		2		ne.	0	0			fair.
Bk. Johanne, N 50° 25′. W. 14° 45′*†	30.31	769.9	58	14.4		ese.			3		2		ese.	0	0	long	se.	clear.
Schr. John L. Thomas, Monkey Point, C. A*†	29.98	761.5				nw.			1		8		n.	2 h'r	2 h'r	mod.	e.	cloudy.
Bkt. Josephine, Guanatamo, W. I.*†	30.09	764.3	79	26.1	73	nnw.			2		2			5 h'r	5 h'r			fair.
Bk. Julia H., Havana, Cuba, W. I.	30.08	764.0	74.5	23.6	85	se.			2		3 ks		e.					d. clouds.
Bk. Kate Cann, N. 41° 21′, W. 59° 38′*†	30.20	767.1				se.			4					0	0	mod.	se.	dense fog.
Bkt. Kryolith, N. 58° 10′, W. 42° 34′*†	29.50	749.3				w.			8		8		wnw.	0	0	sharp	w.	cloudy.
S. S. Lamperts, N. 12° 44′, E. 45° 00′*	29.81	757.2	84.6	29.2	79	sw.			3		2 k							blue sky.
Light House Tender, Laurel, Pensacola Bay, Fla†	30.27	768.8	68	20.0		ne.			1		2			0	0			clear.
S. S. Malabar, Singapore, Malay Peninsula*†	29.90	759.4				sw.												cloudy.
Bg. Medina, N. 35° 20′, W. 74° 00′†	30.31	769.9				nne.			3		0					small	nne.	fine.
S. S. Nebo, N. 32° 26′, W. 70° 07′†*	30.16	766.1				nne.			4		2		n.	7 h'r	7 h'r	mod	n.	clear.
S. Paramita, S. 13° 22′, W. 33° 07′†	29.94	760.5	81	27.2		ese.			4		5		var.	1 h'r	1 h'r	sharp	s.	
Bk. Pawashick, N. 27° 38′ W. 57° 38′*†	30.48	774.2	76	24.4	91	ese.			5		2		ese.			mod.	ese.	fine.
Bk. Peppina, Bordeaux, France†	30.05	763.3	69	20.6	35	ene.			2		0							clear.
S. S. Ponca, N 19° 50′, W. 65° 25.′†	30.02	762.5	84	28.9		e.			3		1		e.	little	little	mod.	ese.	clear.
Bk. Princessen, N. 41° 52′ W. 45° 48′†	30.29	769.3	65	18.3		sw.			5		10			0	0	mod.	sw.	cloudy.
Bk. Rosebud, N. 27° 53′, W. 21° 44′*†	30.10	764.5	69	20.6	75	n.			3		0			0	0	sm'h		very fine.
S. Salisbury. S. 40° 07′, E. 7° 03′*	30.10	764.4	55.2	12.9	83	wnw.			5		10		wnw.	0	0	long	wnw.	cloudy.
Bkt. Spotless, S. 21° 30′, W. 40° 00′*†	30.20	767.1				ne.							ne.			mod.	var.	fine.
Bk. Stella, S. 2° 00′, W. 112° 00′*	29.86	758.4	78.8	26.0	92	ese.			3		3 k		se.	0	0	sm'h	se.	d. clouds.
Bk. Truro, N. 44° 16′ W. 21° 00′*†	30.15	765.8				ne.			3		6		ne	0	0	long	e.	fair.
U. S. F. C. S. FishHawk, Washington, D. C.†	30.46	773.7	54	12.2	79	nne.			3		6		calm	0	0			fair.
Yacht Vega, N. 12° 17′, W. 60° 40′*†	30.18	766.6	82	27.8		e.			3				e.	0	0	long	ese	
S. S. Victoria J. Peed, Salamanca Id, U. S. C.*†	29.11	739.4				s.			1		3							
Schr. Viola Reppard, N. 38° 00′. W. 74° 06′†	30.01	762.2	58	14.4		ene.			3		1		ne.	0	0	small	nne.	fair.
S. Washington, Bremerhaven, Germany*†	30.24	768.1				sse.			2		0			0	0			clear.
Bk. Wm. Wilcox, N. 32° 50′, W. 47° 20′*†	30.61?	777.5?	71	21.7		sse.			4		8		se.	0	0	mod.	s.	fair.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 19, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours			29.87	758.6	70.5	21.4	86	w.			3		2			0	0	fair	Moiroud.
Algiers			29.81	757.1	71.6	22.0	64	nw.			1		5			0	0	cloudy	Nicolas.
La Calle			29.85	758.2	77.7	25.4	65	s.			5		3			0	0	pretty fair	Fonfréde.
Tunis			29.93	760.2															Jacques.
Saida			29.95	760.8															Dumas.
Tebessa			29.98	761.6	59.4	15.2	93	nw.			3		4			0	0	cloudy	Derché.
Geriville					81.3	27.4	31	wsw.			3		6			0	0	cloudy	Lonchamp.
Laghouat			29.98	761.5	76.6	24.8	64	e.			1		1			0.039	1.0	fair	Abraham.
Biskra			29.97	761.3	91.4	33.0	39	sw.			2		5			inap.	inap.	cloudy	Malau.
Australian.																			
Melbourne, Victoria	30.37	771.4	30.47	773.9	48.0	8.9	80	se.	4	1.8			1			0.09	2.3	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.40	746.7	29.94	760.5	59.9	15.5	40	ne.			1		10			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.18	741.2	29.95	760.8	50.4	10.2	48	n.	15.4	6.9			10			0.063	1.6		Dr. Wierzbiski.
Eperies	28.94	735.1	29.83	757.6	46.0	7.8	64	n.			4		10 ns		s.	0.055	1.4		Julius Mikolik.
Gratz	28.72	729.5	29.98	761.4	51.3	10.7	59	nw.			4		7			0	0		Andreas Rospini.
Hermannstadt	28.08	713.3	29.52	749.9	45.0	7.2	100	se.			2		10			0.732	18.6	raining	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.72	729.5	30.08	763.9	48.7	9.3	56	nw			1		10			0	0	gloomy	The Staff.
Lemberg	28.77	730.8	29.77	756.1	45.5	7.5	76	e.			5		10			0.028	0.7		Dr. T. Stanecki.
Pola	29.91	759.6	30.02	762.4	61.3	16.3	54	w.			2		3			0.098	2.5		I. R. Hydrographic Office.
Szathmar	29.06	738.2	29.52	749.7	52.3	11.3	52	n.			5		10			0.228	5.8		Joseph Midlinszky, S. J.
Szegedin	29.45	748.0	29.73	755.2	47.7	8.7	93	nw.			3		10			0.913	23.2		Karl Stancel.
Trieste	29.93	760.2	30.03	762.8	62.6	17.0	54	calm			0		3			0	0		Rieder.
Vienna	29.31	744.5	30.04	763.0	49.3	9.6	59	nw.			2		10			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.22	767.6	30.32	770.1	47.2	8.4	83	sse.	13	5.8			0			0	0	foggy	W. Boswell
Armagh, Observatory	29.90	759.4	30.14	765.5	60.0	15.6	31	sse.	16	7.2			0					blue sky	S. Oall.
Bidston, Liverpool Obs'y			30.18	766.6	61.0	16.1	70	ese.	24	10.7			1					blue sky	John Hartnup.
Bolton, Sharples	29.95	753.1	30.18	766.6	60.8	16.0	51	e.	18	8.0			2					blue sky	Thomas Mackereth. [A.S.
Bradford, Yorkshire	29.82	757.4	30.22	767.6	59.6	15.3	56	w.			2		3			0	0	blue sky	J. McLandsborough, F. R
Bridgetown, Barbadoes	29.97	761.2	30.00	762.0	84.0	28.9	67	ne.			1		3					d. clouds.	Corpl. J. Surgenor, A. H.C.
Cardington			30.13	765.3	63.4	17.4	42	e.			2.0		4					d. clouds	John McLaren.
Chatham, School M. E.	30.04	763.0	30.18	766.6	58.4	14.7	69	ne.			3		3					d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.79	756.7	30.02	762.5	56.0	13.3	70	e.			5		5					misty	The Staff.
Fort Napier, Natal	27.86	707.6	30.08	764.0	69.8	21.0	31	n.			3		0					blue sky	Pvt. E. K. Annis, A. H.C.
Free Town, Sierra Leone	29.70	754.4	29.93	760.2	87.0	30.6	58	w.			1		5					blue sky	Sergt. John Robinson.
Gibraltar, Mediterranean	29.83	757.7	29.88	758.9	65.4	18.6	83	se.			2		5					d. clouds	Cpl. O. Baldwin.
Glasgow, Observatory	29.98	761.5	30.19	766.8	65.6	18.7	31	ene.			3							misty	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.98	761.5	30.14	765.5	62.0	16.7	59	e.			4		4					d. clouds	The Staff.
Guernsey	29.68	753.9	29.98	761.5	60.0	15.6	59	e.			2		0					blue sky	A. Collenette, F. M. S.
Kew, Observatory	30.12	765.0	30.16	766.1	60.0	15.6	46	e.	30	13.4			5					d. clouds	The Staff.
Leicester, Museum	30.03	762.7	30.29	769.4	62.3	16.8	50	se.			2		0					d. clouds	J. O. Smith.
Malta, Mediterranean	29.89	759.2	29.97	761.2	67.6	19.8	68	e.			2		7					d. clouds	I. H. Whysall.
Nassau, Bahamas	30.09	764.3	30.14	765.5	76.0	24.4	62	ne.			3		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.65	753.1	30.18	766.6	58.7	14.8	62	ene.			4		7					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.92	760.0	30.15	765.8	59.0	15.0	53	e.			4		5					squally	The Staff.
Plymouth	29.96	761.0	30.04	763.0	57.1	13.9	62	ese.			5		5					d. clouds	John Merrifield.
Sandwick Manse, Orkneys			30.25	768.3	48	8.9	85	se.	30	13.4			0					blue sky	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.68	753.9	29.74	755.4	66.4	19.1	66	s.			1		6			blank	blank	d. clouds	W. H. Lyne.
Sheffield	29.94	760.5	30.21	767.3	62.4	16.9	71	ese.			4		5			0	0	d. clouds	W. F. Cooper.
Silloth Rectory	30.15	765.8	30.18	766.6	65.0	18.3	51	w.			1		0			0	0	blue sky	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.21	767.3	61.0	16.1	46	e.	13	5.8			0					blue sky	J. New.
Strathfield Turgiss	29.93	760.2	30.16	766.1	60.5	15.8	48	e.			3-4		6					squally	Rev. O. H. Griffiths, F.M.S
Truro, Royal Institution	29.96	761.0	29.98	761.5	58	14.4	57	e.			7		4					d. clouds	W. Newcombe.
Valencia, Observatory	29.94	760.5	29.96	761.0	61.6	16.4	57	se.	32	14.3			3					misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.46	773.7	30.51	774.9	45	7.2	63	ne.	1	0.4			10 s			0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	30.45	773.4	30.52	775.2	48	8.9	50	se.	1	0.4		4 c	0	se.		0	0	fair	G. A. Blair.
Father Point, Quebec*	30.47	773.9	30.49	774.4	44	6.7	63	calm	0	0		2 ck	0	calm		0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	28.87	733.3	29.68	753.9	53	11.7	93	se.	8	3.6		5 k	5 n	se.	se.	0.02	0.5	cloudy	James Stewart.
Halifax, N. S*	30.33	770.4	30.46	773.7	42	5.6	73	ne.	14	6.3			10 ks			0	0	cloudy	A. Allison.
Kingston, Ontario*	30.02	762.5	30.36	771.1	47	8.3	68	e.	6	2.7		8 ck	0	ne.		0	0	fair	A. P. Knight, M. A.
Montreal, Quebec*	30.21	767.3	30.42	772.7	48	8.9	58	e.	4	1.8		5 ck	5 ks	se.		0	0	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.67	753.6	30.38	771.6	46	7.8	68	e.	6	2.7		0	sk			0	0	smoky	Rev. R. Mosley.
Port Dover, Ontario	29.57	751.1	30.28	769.1	46	7.8	86	ne.	7	3.1		0	0			0	0	clear	H. Morgan.
Port Stanley, Ontario	29.59	751.6	30.25	768.3	48	8.9	71	ne.	7	3.1		0	0			0	0	clear	M. Payne.
Quebec, Quebec*	30.15	765.8	30.47	773.9	50	10.0	68	ne.			1	2 k	2 s	ne.	ne.	0	0	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.90	759.4	30.37	771.4	43	6.1	71	calm	c	0		0	sk			0	0	smoky	W. H. McIntyre.
Saugeen, Ontario*	29.55	750.6	30.27	768.8	53	11.7	59	e.	4	1.8		0	0			0	0	hazy	
St. Andrews, N. B	30.37	771.4	30.42	772.7	46	7.8	56	e.	6	2.7			9 ks			0	0	cloudy	
Sydney, C. B*	30.49	774.4	30.55	776.0	40	4.4	62	nw.	1	0.4		4 cs	0			0	0	fair	T. C. Hill, C. E.
Toronto, Ontario*	29.93	760.2	30.32	770.1	48	8.9	68	e.	11	4.9		0	hz.			0	0	light haze	Magnetic Observatory.
Yarmouth, N. S*	30.28	769.1	30.34	770.6	45	7.2	65	e.	8	3.6			10 k		e.	0.05	1.3	cloudy	Lt. F. E. Wilmot, R. N
Sub-series.																			
St. Johns, Newfoundland	30.32	770.1	30.57	776.5	52	11.1	86	sw.	1	0.4		0	0			0	0		John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.10	764.5	30.13	765.3	68.0	20.0	78	w.	6.4	2.9		0	0			0	0	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	30.01	762.2	30.04	763.0	69.4	20.8	60	sse.	9	4.0		0	0			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow	29.65	753.1	29.93	760.2	72.5	22.5	81	nne.			2		10			0	0		N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.77	756.1	29.79	756.7	63.7	17.6	94	ese.	7.4	3.3		0	8			0	0	very cloudy	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	30.27	768.9	30.32	770.1	51.4	10.8	50	se.	10.1	4.5			2						Oversergent Fischer.
Fanöe	30.24	768.1	30.26	768.6	63.0	17.2	63	se.			4		1						Overloerer Lauridsen.
Godthaab, Greenland	29.78	756.4	29.82	757.5	27.9	− 2.3	67	nne.			6		1			0	0		S. Kleinschmidt.
Stykkisholm, Iceland	29.28	743.7	29.32	744.8	48.9	9.4	89	calm			0		8					raining	A. O. Thorlacius.
Thorshavn	30.14	765.6	30.18	766.5	54.0	12.2	82	se.	9	4			0						Overloerer Bergh.
Vestervig	30.18	766.5	30.27	768.8	64.8	18.2	57	e.			2		0						Loerer Oesterbol.
FRENCH.																			
Agen, Normal School	29.15	740.4	29.79	756.7	61.9	16.6	46	se.			2		10		sw.	0	0	covered	M. Labroue, Director.
Alençon, Normal School	29.40	746.8	29.95	760.8	56.8	13.8	58	ne.			4					0	0		M. Nicot, Director.
Arras, Engineer School	29.82	757.5	30.08	764.0	61.2	16.2	53	e.			3		5		wnw.	0	0	cloudy	M. Fénéon, Command't.
Avignon, Normal School	29.87	758.7	29.95	760.7	66.6	19.2	54	sw.			2		5		s.	0	0	cloudy	M. Girnud, Director.
Bar-sur-Seine	29.46	748.2	30.00	762.1	61.7	16.5	30	se.			1		2			0	0	slightly cl'dy	M. Saillard, Director.
Beauvais, Normal School	29.82	757.5	30.09	764.3	59.9	15.5	44	ene.			2		2		e.	0	0	slightly cl'dy	M. Frère Eugène Marl.
Besançon, Normal School	29.05	737.8	29.95	760.6	61.9	16.6	42	nne.			1		0			0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.51	749.5	29.76	756.0	63.1	17.3	48	se.			2		8		sse.	0	0	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.37	746.0	29.91	759.6	66.2	19	25	ene.			2		n		ene.	0	0		M. Postel, Director.
Brest, Naval Observatory	29.68	753.9	29.93	760.1	61.5	16.4	47	ene.			3		4		ene.	0	0		M. de Kermaree, Dir.
Caen, Normal School	29.96	761.0	30.03	762.8	64.0	17.8	32	e.			2		0			0	0	clear	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.72	754.8	30.03	762.7	65.3	18.5	39	e.			1		0			0	0	clear	M. Jadot, Director.
Charleville, Normal School	29.63	752.5	30.13	765.2	64.8	18.2	44	e.			3		2			0	0	¼ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.52	724.5	29.84	757.8	67.5	19.7	34	se.			1		2		ese.	0	0	¼ covered	M. Alluard, Director.
Cluny, Normal School	29.08	738.7	29.91	759.8	63.1	17.3	25	e.			1		0			0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.21	741.9	30.08	763.9	57.4	14.1	41	e.			4		5 k	e.	e.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.22	691.3	29.72	754.8	55.4	13	38						1 kn		ne.	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.84	732.6	29.96	760.9	61.3	16.3	47	e.			2		8		se.	0	0		M. Kina, Director.
Grenoble, Normal School	29.18	741.1	29.93	760.3	62.2	16.8	41	ese.			1		ckn		ssw.	0	0		M. Ablard, Director.
Guéret, Normal School	28.32	719.2	29.91	759.6	60.8	16	25	e.			1		0			0	0	clear	M. Rivoire, Director.
Lamballe, Normal School	29.64	752.8	29.91	759.6	65.3	18.5	42	e.			3		2		e.	0	0	slightly cl'dy	M. Olitrault, Director.
Lescar, Normal School	29.20	741.6	29.76	755.9	57.2	14	67	ne.			1		5		calm	0.051	1.3	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.80	756.8	29.90	759.4	66.2	19.0	81	e.			4		2		e.	0	0	¼ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.91	734.2	29.95	760.6	61.7	16.5	28	se.			1	0	2 kn		sse.	0	0	slightly cl'dy	M. André, Director.
Mans, Normal School	29.69	754.1	30.00	761.9	61.9	16.6	31	se.			6		0			0	0	clear	M. Piboen, Director.
Marseille, Observatory	29.67	753.7	29.94	760.5	65.7	18.7	75	se.			3		10		ssw.	0	0		M. Stephan, Director.
Montlouis	24.63	625.6	29.47	748.6	50.0	10.0	52	sw.	11.2	5.0			7		sw.	0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.80	757.0	29.93	760.2	62.2	16.8	64	ssw.			3		5		se.			light rain	M. Galzin, Director.
Nancy, Normal School	29.26	743.2	30.04	762.9	60.1	15.6	35	n.			1		k		e.	0	0		M. Hasse, Director
Nantes, Observatory	29.74	755.3	29.91	759.6	68.0	20	37	ese.			2–3		0			0	0	clear	M. Larocque, Director.
Perpignan, Observatory	29.76	755.8	29.86	758.5	67.1	19.5	54	s.	28.0	12.5			10		s;se.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.01	533.6			31.3	− 0.4		sw.			1		10		sw.	0.059	1.5	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.88	733.6	29.93	760.2	62.6	17	43	calm			0		5			0	0	cloudy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.03	635.8			41.0	5.0	74	ese.			3	0	2 k		ese.	0	0	¼ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	29.76	755.9	29.79	756.7	69.8	21.0	100	ene.			2		0			0.039	1.0	clear	Lt. E. Decaute, Director.
Roche-sur-Yon, N. School	29.63	752.7	29.84	758.0	66.2	19	31	e.			3		0			0	0	clear	M. Mouillot, Director.
Rodez, Normal School	27.71	703.9	29.83	757.7	56.1	13.4	69	e.			4		5		se.	0	0	cloudy	M. Serger, Director.
Rouen, Normal School	30.03	762.7	30.08	763.9	62.2	16.8	38	e.			1		2		e.	0	0	slightly cl'dy	M. Brotier.
Saint Maur, Observatory	29.87	758.7	30.04	762.9	63.1	17.3	36	ene.			2		1		e.	0	0		M. Renou, Director.
Toulouse, Observatory	29.14	740.1	29.86	758.4	57.7	14.3	68	sse.			4		10	w.		0	0	covered	M. Baillaud, Director.
Tours	29.72	754.9	29.90	759.4	64.2	17.9	37	e.			8		0			0	0	clear	
Versailles, Observatory	29.53	750.0	30.02	762.4	60.8	16.0	32	e.			8					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.76	755.9	30.05	763.3	62.2	16.8	35	ene.			3		4		ese.	0	0		M. Marié Davy, Director
GERMAN.																			
Bamberg	29.26	743.3	30.12	765.1	51.8	11.0	55	ne.			3	0	8 ks			0	0		Prof. Dr. Hoh.
Berlin	30.00	761.9	30.17	766.4	57.9	14.4	41	n.			2		8			0	0		Prof. Dr. Arndt.
Breslau	29.59	751.5	30.12	765.0	52.7	11.5	31	nne.			5		2			0	0		Royal University Obs'y.
Carlsruhe	29.65	753.2	30.10	764.4	57.0	13.9	47	ne.			2		9	ne.		0	0		Albert Senz.
Cassel	29.40	746.7	30.11	764.8	59.5	15.3	42	e.			4		2	e.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.74	755.4	30.11	764.7	58.8	14.9	33	ne.			1		3			0.012	0.3		Physical Society.
Friedrichshafen	28.59	726.2	30.02	762.6	55.4	13.0	47	ne.			5		1	ne.		0	0		Wilhelm, Chief Tel.
Hamburg	30.17	766.4	30.27	768.8	55.0	12.8	51	ne.			3		3			0	0		E. Preller.
Kiel	30.26	768.6	30.28	769.0	52.9	11.6	40	ne.			4		2			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.76	756.0	30.19	766.8	52.3	11.3	53	ne.			3		9	ne.		0	0		H. Leppig, Asst.
Magdeburg	30.01	762.3	30.20	767.1	55.2	12.9	48	ne.			2	0	7 ks		ne.	0	0		Dr. Assmann.
Memel	30.21	767.3	30.25	768.4	54.1	12.3	35	ne.			4	0	0						Issermann.
Munich	28.25	717.6	30.12	765.0	52.5	11.4	42	ne.			2		6	e.		0	0		Central Station.
Neufahrwasser	30.25	768.3	30.26	768.7	48.4	9.1	56	nne.			3		0			0	0		A. Lothes.
Neustadt, Palatinate	29.56	750.9	30.09	764.3	56.8	13.8	54	e.			1		9			0	0		Dickuether.
Stuttgart	29.10	739.2	29.99	761.7	59.0	15.0	30	e.			2		7	e.		0	0		Prof. Dr. Schoder.
Wustrow	30.30	769.5	30.32	770.2	52.0	11.1	63	ne.			3	c	5 s			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.49	749.0			71.8	22.1		nw.			4.0		0			0	0	clear	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.69	754.2	29.74	755.5	86.0	30.0	80	wsw.	32.0	14.3			3			0	0	d. clouds	
Deesa	29.14	740.3	29.60	751.7	102.6	39.2	25	w.	9.6	4.3			4	wsw.		0	0	d. clouds	
Bombay	29.67	753.6	29.71	754.5	84.6	29.2	74	nw.	21.0	9.4			5		nw.	0	0	d. clouds	
Poona, Yarrowda	27.80	700.2	29.61	752.1	89.3	31.8	51	w.	27.0	12.1			9	w.	w.	0	0	d. clouds	
Bellary	28.17	715.4	29.60	751.8	90.0	32.2	45	se.	4.6	2.1			10			0	0	overcast	
Belgaum	27.16	689.9	29.71	754.5	71.6	22.0	84	wsw.	5.0	2.2			10	ne.	ne.	0.25	6.4	thund'r st'm	
Lahore	28.98	736.0	29.71	754.6	86.8	30.4	42	ne.	3.2	1.4			0			0.22	5.6	blue sky	
Roorkee	28.74	730.0	29.60	751.9	96.3	35.8	22	nw.	3.8	1.7			5			0	0	blue sky	
Agra	29.05	738.0	29.60	751.7	98.9	37.2	25	w.	4.3	1.9			4		nw.	0	0		
Nagpur	28.56	725.3	29.55	750.5	101.7	38.7	22	e.	3.9	1.7			3	w.		0	0	d. clouds	
Jubbulpore	28.27	718.1	29.57	751.0	101.7	38.7	15	e.	2.3	1.0			4		n.	0	0	d. clouds	
Lucknow	29.24	742.8	29.60	751.9	99.0	37.2	21	wnw.	2.5	1.1			0			0	0	blue sky	
Allahabad	29.26	743.2	29.56	750.8	103.5	39.7	14	nw.	1.9	0.8			1			0	0	d. clouds	
Patna	29.41	747.1	29.59	751.6	98.3	36.8	30	ne.	3.9	1.7			0			0	0	blue sky	
Hazaribagh	27.63	701.7	29.56	750.8	95.0	35.0	18	nw.	5.7	2.6			0			0	0	blue sky	
Cuttack	29.60	751.8	29.68	753.9	83.9	28.8	62	ene.	0.9	0.4			9			1.60	40.6	overcast	
Calcutta, Allpore	29.61	752.0	29.63	752.6	89.5	31.9	56	ssw.	6.0	2.7			1			0	0	d. clouds	
Dhubri	29.48	748.8	29.60	751.7	89.7	32.1	55	calm	3.4	1.5			1			0	0	d. clouds	
Chittagong	29.59	751.7	29.68	753.9	84.7	29.3	77	sw.	2.6	1.2			2			0	0	blue sky	
Sibsagar	29.33	744.9	29.66	753.3	87.2	30.7	69	sw.	1.1	0.5			0			0	0	blue sky	
Jeypore	28.23	717.0	29.62	752.3	96.7	35.9	27	w.	7.1	3.2			6		w.	0.03	0.8	d. clouds	
Zanzibar, Africa	29.96	761.0			84.3	29.1	66	s.	6.0	2.7			7		sse.	0.12	3.0	d. clouds	
ITALIAN.																			
Udine	29.59	751.5	29.99	761.8	63.0	17.2	55	w.	1.8	0.8			2			0	0		Prof. Giovanni Clodig.
Milan	29.80	749.3	30.01	762.3	63.9	17.7	29	sw.	6.9	3.1			2	wnw.		0	0		Prof. Schiaparelli.
Padua	29.89	759.2	30.00	762.0	62.4	16.9	28	wnw.	4.3	1.9			1	w.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.10	739.2	30.00	762.0	63.3	17.4	24	s.	2.5	1.1			4	e.		0	0		Prof. P. F. Denza.
Genoa	29.86	758.4	30.05	763.3	61.0	16.1	38	sw.	7.4	3.3			2	sw.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.09	713.4	30.02	762.4	58.6	14.8	42	se.			4		5	wsw.		0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Pesaro	29.98	761.4	30.02	762.6	61.7	16.5	36	e.	5.6	2.5			2			0	0		Prof. Luigi Guidi.
Florence	29.76	755.8	30.01	762.2	64.4	18.0	21	sw.			2		1			0	0		Prof. Costantino Pitter.
Leghorn	29.87	758.7	29.96	760.9	64.9	18.3	32	sw.	3.1	1.4			5			0	0		Prof. P. Monte.
Rome	29.84	757.8	30.01	762.2	65.1	18.4	32	ssw.	0	0			8	w.		0	0		Prof. P. S. Ferrari.
Lecce	29.76	755.9	30.01	762.2	61.3	16.3	37	nnw.	31.1	13.9			3	nw.		0	0		Prof. C. de Giorgi.
Cosenza	29.11	739.5	29.99	761.7	63.0	17.2	74	sw.	1.8	0.8			3	w.		0	0		Prof. D. Conti.
Cagliari	29.70	754.3	29.89	759.1	71.1	21.7	39	ese.			6		6			0	0		Prof. A. Pacinotti.
Palermo	29.76	756.0	30.01	762.3	63.5	17.5	57	ne	11.9	5.3			6			0	0		Prof. G. Ciacciatore.
Syracuse	29.94	760.5	29.98	761.6	69.4	20.8	56	ese.	12.5	5.6			10	ese.		0	0		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.46	748.3	29.98	761.5	64.4	18.0	44	ne.	1.3	0.6			3	w.		0.008	0.2		Prof. T. Brioschi.
Stelvio	22.10	561 4			32.0	0.0	45	e.			2		2			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.12	561.9			34.5	1.4	57	se.			2		8			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.71	754.6	29.75	755.6	55.0	12.8	88	n.	5.9	2.6		0	0			0.366	9.3	clear	K. Ogawa.
Hakodate	29.76	755.9	29.77	756.1	51.5	10.8	93	sse.	4.8	2.1			5			0	0	fair	
Hiroshima, I. M. Obs'y	29.72	754.9	29.73	755.1	63.2	17.3	91	wnw.	1.5	0.7		1 cs	0			0	0	clear	J. Sogawa.
Kanazawa	29.67	753.6	29.77	756.1	60.9	16.1	94	wnw.	4.8	2.1		ck	9 s			0.010	0.2	overcast	S. Endo.
Kioto	29.57	751.1	29.75	755.6	61.6	16.4	85	nnw.	2.3	1.0		0	0			0	0	clear	M. Tojima.
Kochi	29.74	755.4	29.76	755.9	68.7	20.4	88	wsw.	3.3	1.5		cs	7 s		nw.	0	0	fair	K. Kusunose.
Nagasaki, I. M. Obs'y	29.01	752.1	29.81	757.2	62.4	16.9	86	n.	0.8	0.4		0	0			0	0	clear	S. Takehayashi.
Niigata	29.71	754.6	29.75	755.6	62.8	17.1	85	n.	1.1	0.5		ck	10 s			0.010	0.2	covered	M. Morita.
Nobiru	29.71	754.6	29.73	755.1	60.8	16.0	98	e.	8.1	3.6			10 n			0.620	15.8	light rain	H. Midzushina.
Sapporo					54.5	12.5	86	se.	19.2	8.6			3			0.021	0.5	clear	
Tokei Obs'y, Yeddo	29.59	751.6	29.66	753.3	65.5	18.7	96	nw.	2.5	1.1		0	9 ks;s			0	0	cloudy	The Staff.
Wakayama	29.67	753.6	29.72	754.9	64.4	18.0	84	e.	0.2	0.1		0	0			c	0	clear	Y. Kuwamura.
MAURITIUS																			
Mauritius Observatory	29.92	760.0	30.11	764.8	77.2	25.1	62	e.	13.0	5.8		0	2 k;ks			0.01	0.3	clear	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.70	601.9	29.82?	759.9?	61.2	16.2	83	calm	0	0		0	8 kn		ese.	0	0	cloudy	Prof. Vicente Fernandez.
Leon	24.31	617.5	29.92	760.0	62.2	16.8	87	nnw.			1	2 c	8 k	sw.	sw.	0.465	11.8	covered	Prof. M. Leal.
Mazatlan	29.68	753.9	29.94	760.5	73.0	22.8	85	calm	0	0		2 cs	1 k	sw.	n.			foggy	F. Quijano, C. E.
Mexico, Central Obs'y	23.10	586 8	30.12	765.0	55.0	12.8	87	nw.	0.7	0.3		1 c	4 ks	n.		0.244	6.2	fine	The Staff.
Morelia	24.02	610.0	30.00	761.9	66.2	19.0	58	se.			2	1	2	s.	s.	0.051	1.3	cloudy	M. Tena, M. D.
Pabellon, Aguascalientes	23.98	608.9	29.89	759.3	64.9	18.3	89	ne.			1		10 k		s.	0	0	covered	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.43	594.8	30.15	765.7	53.6	12.0	86	ne.	0.2	0.1			8		s.	0.248	6.3	cloudy	Prof. P. Spina.
San Luis Potosi	24.23	615.3	30.13	765.2	58.9	14.9	72	e.			1		10		e.	0	0	cloudy	G. Barroeta, M. D.
Zacatecas	22.58	573.6	30.16	766.1	55.4	13.0	90	nw.	3.8	1.7		5 cs	0	nw.		0.753	19.1	½ clouded	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.18	766.6	30.18	766.6	61.0	16.1		ene.			3					0	0		
Groningen	30.15	765.9	30.21	767.3	60.8	16.0		nne.			2					0	0		
Helder	30.23	767.8	30.23	767.8	55.2	12.9		ne.			3					0	0		
Hellevoetsluis	30.08	764.0	30.08	764.0	62.6	17.0	50	e.			2					0	0		
Utrecht	30.14	765.6	30.19	766.8	61.9	16.6	50	ne.			2		5			0	0	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	30.24	768.0	30.30	769.6	41.7	5.4	38	nnw.	18	8			0			0	0		
Brono	30.37	771.5	30.41	772.5	50.2	10.1	73	calm	0	0			9			0	0	foggy	
Christiania	30.13	765.3	30.27	768.9	67.1	19.5	37	sw.	4	2			0			0	0		
Gjessvær	29.95	760.7	29.97	761.3	41.0	5.0		w.			7-8		10					foggy	
Lodingen	30.19	766.8	30.24	768.0	46.6	8.1	90	wsw.			4		7			1.791	45.5		
PORTUGUESE.																			
Angra, Azores					59.7	15.4	78	nnw.	19.9	8.9			7			0	0	foggy	Dr. J. A. Sampaio.
Campo Major	28.72	729.5	29.70	754.3	60.8	16.0	81	sse.	4.9	2.2			10			1.661	42.2		Dr. A. M. R. dos Santos.
Funchal, Maderia	29.81	757.2	29.90	759.4	65.8	18.8	64	wsw.					3			0.346	8.8		Capt. D. A. de Cunha.
Lisbon, Observatory	29.39	746.5	29.74	755.5	59.0	15.0	78	ssw.	14.3	6.4			10			0.303	7.7		The Staff.
Ponta Delgada, Azores	29.88	759.0	29.95	760.8	63.0	17.2	88	nw.	14.3	6.4			10			0.114	2.9	light rain	
Saint Paul de Loando	29.76	755.8	29.96	760.9	78.6	25.9	86	sw.	0.7	0.3			10			0	0	foggy	
Serra da Estrella	24.99	634.8	29.72	754.8	43.9	6.6	99	ese.	11.2	5.0			10			0.953	24.2	light fog	
RUSSIAN.																			
Akmolinski	28.54	724.8	29.57	751.0	68.9	20.5	51	se.	13	6			10 n			0.256	6.5		Major K. Lasarew.
Archangel	30.23	767.8	30.25	768.3	57.0	13.9	42	calm	0	0		1 cs	0			0	0		Capt. Sseliwerstow.
Astrakhan	29.84	757.9	29.76	755.8	79.7	26.5	41	s.	7	3		0	3 ks			0	0		Capt. Wisganow.
Barnaul	29.13	739.9	29.60	751.7	80.6	27.0	29	calm	0	0			3			0	0	light clouds	Meteorological Obs'y.
Dorpat	30.01	762.2	30.25	768.4	53.4	11.9	39	ne.	7	3		0	0			0	0		Observatory.
Ekaterinburg	29.00	736.4	29.94	760.4	59.5	15.3	38	nw.	11	5		4 c	0			0	0	light clouds	Meteorological Obs'y.
Kazan	29.78	756.5	30.05	763.3	55.4	13.0	56	nne.	16	7		9 ck	0			0	0		Observatory.
Kertch	29.57	751.0	29.59	751.5	65.3	18.5	93	s.	9	4		6 cs	0			0	0		Lagorio & Sastyres.
Kieff	29.04	737.5	29.67	753.5	52.9	11.6	80	n.	13	6			10 n			0.335	8.5	raining	Observatory.
Lugan	29.40	746.8	29.60	751.7	81.1	27.3	37	sse.	9	4			7			0	0		Meteorological Obs'y
Moscow	29.42	747.3	29.90	759.5	45.5	7.5	98	sw.	7.8	3.5			10 s					raining	Meteorological Obs'y.
Nikolaiev	29.58	751.3	29.65	753.1	64.9	18.3	82	s.	13	6			10 n			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.95	760.6	30.03	762.8	47.3	8.5	66	se.	20	9			10			0	0		Lieut. Iwanow.
Pekin, China	29.60	751.8	29.74	755.4	55.9	13.3	33	nw.	11	5		0	0			0	0		Physical Observatory
St. Petersburg	30.26	768.5	30.27	768.9	53.6	12.0	32	ne.	7	3		0	0			0	0		Central Physical Obs'y.
Semipalatinsk	29.00	736.7	29.61	752.2	81.0	27.2	27	w.	4	2		0	8			0	0	light clouds	Major Lasareu.
Tashkend, Laboratory	28.30	718.7	29.79	756.6	78.1	25.6	47	calm	0	0			9			0	0	light clouds.	Teich, A. M.
Tiflis	28.34	719.9	29.69	754.1	75.7	24.3	54	s.	7	3			9 n			0	0		Physical Observatory
Vladivostock	29.55	750.5	29.61	752.2	41.7	5.4	100	se.	2	1			10 k			0.382	9.7		
Warsaw	29.60	751.7	30.02	762.4	54.1	12.3	39	nne.	22	10			10 ks						Astronomical Obs'y.
Wilna	29.65	753.1	30.07	763.8	52.9	11.6	54	n.	13	6			9			0.015	0.4		Berg, Assistant.
Yeniseisk																			M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.78	756.4	29.88	759.0	64.4	18.	66	se.	4.0	1.8			7			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	29.65	753.2	29.71	754.7	66.2	19.0	65	se.	1.1	0.5			10			0.142	3.6	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.76	679.7	29.72	754.8	51.8	11.0	80	s.	2.5	1.1			8			0.709	18.0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.52	699.0	29.71	754.7	59.5	15.3	77	w.	18.1	8.1			10			1.268	32.2	rainy	The Staff.
Murcia, Met. Obs'y	29.70	754 3	29.85	758.2	63.3	17.4	86	ene.	5.6	2.5		2	3	w.		0.059	1.5	light rain	Olayo Diaz, Director.
Santiago, Met. Obs'y	28.73	729.8	29.61	752.1	61.2	16.2	80	calm	0	0			10			0.453	11.5	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	30.01	762.3	30.08	764.0	73.5	23.1	71	e.	0	0		6 c;cs	1 k	wnw	ne.	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.76	755.9	29.82	757.4	83.1	28.4	78	nne.	0	0		4 c	4 ck		e.	0	0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.75	755.7	29.85	758.2	66.7	19.3	77	ne.	13.4	6.0			10		s.	0.005	0.1	light rain	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.92	759.9	30.01	762.2	79.5	26.4		se.	6.9	3.1		2 cs	2 k	se.	se.	0	0		Manuel Maese.
Tuguegarao, Philippine Id's	29.69	754.1	29.82	757.4	83.0	28.3	78	nnw	6.3	2.8		0	5 ks		nw.	0	0	cloudy	José L. Yrastorza.
SWEDISH																			
Haparanda	30.21	767.4	30.25	768.4	46.0	7.8	69	s.			2		8			0	0		
Umea	30.21	767.3	30.26	768.6	65.7	18.7	44	n.			2		5			0	0		
Hernosand	30.27	768.8	30.32	770.1	59.7	15.4	47	sw.			2		3			0	0		
Stockholm	30.15	765.9	30.33	770.4	56.8	13.8	49	wsw.			2		1			0	0		
Wisby	30.28	769.0	30.34	770.5	45.3	7.4	83	n.			2		0			0	0		
Sub-series.																			
Upsala	30.20	767.0	30.28	769.2	60.8	16.0	56	sse.	6.9	3.1			8		wnw.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.57	725.6	30.00	761.9	54.5	12.5	46	nne.			3					0	0	clear	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
TURKISH.																			
Constantinople			29.76	755.9	62.6	17.0	67	s.	8	3.5			8		n.	0	0		The Observatory.
Valona			30.04	763.1	63.3	17.4		nw.			1		10			0	0	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.87	758.6	78.3	25.7	61	w.			1	0	0			0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.32	770.1	30.40	772.1	45	7.2	68	n.	4	1.8			10 s			0.03	0.8	cloudy	J. O. Barnes.
Alpena, Michigan	29.60	751.8	30.26	768.6	43	6.1	83	se.	3	1.3		0				0	0	clear	Jas. J. Fitzgerald.
Atlanta, Georgia	29.09	738.9	30.26	768.6	64.0	17.8	48	se.	3	1.3		0	0			0	0	clear	H. Hall.
Atlantic City, New Jersey	30.33	770.4	30.34	770.6	43	6.1	74	ne.	10	4.5		9 ck	0	nw.		0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	30.14	765.5	30.32	770.1	57	13.9	80	calm	0	0		0	fg.			0	0	clear	John Healy.
Baltimore, Maryland	30.36	771.1	30.41	772.4	49	9.4	63	se.	4	1.8			10 s		se.	0	0	cloudy	Robert Seyboth.
Barnegat, New Jersey	30.32	770.1	30.34	770.6	45.0	7.2	74	n.	22	9.8		0	7 k		ne.	0	0	fair	Chas. F. Merritt.
Bismarck, Dakota	27.90	708.6	29.68	753.9	49	9.4	80	nw.	12	5.4			10 s		sw.	0.04	1.0	cloudy	Cyrus Cramer.
Boise City, Idaho	27.35	694.7	30.19	766.8	47	8.3	77	w.	4	1.8			10 s		calm	0	0	cloudy	B. E. Light.
Boston, Massachusetts	30.20	767.1	30.36	771.1	39.0	3.9	89	ne.	19	8.5			10n; fog			0.15	3.8	light rain	O. B. Cole.
Brownsville, Texas	29.92	760.0	29.96	761.0	69	20.6	100	se.	4	1.8		7 ck	0			2.98	75.7	fair	M. McCarty.
Buffalo, New York	29.53	750.0	30.27	768.8	51.9	11.1	56	ne.	3	1.3		1 cs	hz.			0	0	clear	Wm. Finn.
Burlington, Vermont	30.11	764.8	30.40	772.1	46.3	7.9	67	calm	0	0			10 s		e.	0.02	0.5	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.80	756.9	30.20	767.1	62.6	17.0	75	s.	2	0.9		2 c	0	w.		0	0	clear	W. H. Ray.
Campo, California	27.38	695.4	29.91	759.7	39.5	4.2	73	s.	2	0.9		0	0			0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.18	690.4	29.85	758.2	53	11.7	52	calm			0	0	0			0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.36	771.1	30.38	771.6	49	9.4	77	ne.	12	5.4			10 s		ne.	0	0	cloudy	J. E. Lanouette.
Cape May, New Jersey																			W. Bolten.
Cedar Keys, Florida	30.21	767.3	30.23	767.8	61	16.1	65	ne.	9	4.0		0	4 ks			0	0	fair	F. W. Mixer.
Champaign, Illinois	29.32	744.7	30.12	765.0	56.4	13.6	76	s.	8	3.6		2 c	8 s	sw.	s.	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.23	767.8	30.28	769.1	61	16.1	84	ne.	9	4.0		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.45	748.0	30.29	769.4	55.0	12.8	80	e.	5	2.2		0	sk.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.44	747.8	30.25	768.3	53.0	11.7	80	calm	0	0		1 cs	0			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	23.79	604.3	29.66	753.4	41.8	5.4	52	ne.	8	3.6		3 c	0	w.		0	0	clear	E. McGovern.
Chicago, Illinois	29.44	747.8	30.14	765.5	55.8	13.2	65	se.	6	2.7			10 s			0	0	cloudy	J. Mitchell.
Chincoteague, Virginia	30.34	770.6	30.36	771.1	45	7.2	83	n.	12	5.4		0	7 ks		w.	0	0	fair	V. P. Temple.
Cincinnati, Ohio	29.00	751.8	30.24	768.1	53.3	11.8	71	e.	1	0.4		hz.	0			0	0	clear	R. B. Watkins.
Cleveland, Ohio	29.50	749.3	30.23	767.8	48.4	9.1	68	se.	6	2.7		hz.	0			0	0	clear	J. B. Newlin.
Coleman City, Texas	28.17	715.5	29.96	761.0	63	17.2	100	se.	6	2.7			10 s		se.	0.14	3.6	cloudy	L. Dorman.
Columbus, Ohio	29.38	746.2	30.22	767.6	53	11.7	61	n.	2	0.9		0	0			0	0	clear	D. Cuthbertson.
Concho, Texas	28.02	711.7	29.92	760.0	66	18.9	90	se.	6	2.7			10 s		s.	0.18	4.6	cloudy	W. W. McConihe.
Davenport, Iowa	29.41	747.0	30.05	763.3	61	16.1	72	s.	4	1.8			10 n		sw.	inap.	inap.	light rain	R. R. Martin.
Dayton, Washington T'y	28.58	725.9	30.32	770.1	36.8	2.7	86	calm	0	0		0	0			0.06	1.5	clear	H. Clifford.
Deadwood, Dakota	25.22	640.6	29.72	754.9	38.5	3.6	92	ne.	3	1.3			10 n			0.11	2.8	light snow	G. W. Scott.
Decatur, Texas					64	17.8	78	s.	14	6.3			10 s		se.	0.02	0.5	cloudy	D. J. Carr.
Delaware Breakwater, Del.	30.34	770.6	30.36	771.1	44	6.7	76	n.	14	6.3		9 ck	0	nw.		0	0	cloudy	A. Schneider.
Denison, Texas	29.22	742.2	30.01	762.2	66.0	18.9	78	s.	6	2.7			10 n		sw.	0.04	1.0	light rain	J. McGlone.
Denver, Colorado	24.45	621.0	29.61	752.1	56.0	13.3	35	s.	10	4.5		1 k	0	w		0	0	clear	F. M. Neal.
Des Moines, Iowa	29.04	737.6	29.93	760.2	58	14.4	69	s.	3	1.3		10 cs	0	sw.		0.02	0.5	cloudy	F. W. Conrad.
Detroit, Michigan	29.56	750.8	30.26	768.6	52.0	11.1	72	n.	7	3.1		0	0			0	0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.22	691.4	29.77	756.1	61	16.1	93	s.	23	10.3		0	4 s		s.	0.40	10.2	fair	E. A. Thomas.
Dubuque, Iowa	29.34	745.2	30.04	763.0	59.2	15.1	75	s.	5	2.2			10 n		calm	inap.	inap.	light rain	J. Harvey Smith.
Duluth, Minnesota	29.21	741.9	29.91	759.7	52	11.1	93	nw.	3	1.3			10 s		calm	0.25	6.3	cloudy	N. B. Conger.
Eagle Pass, Texas	29.16	740.7	29.96	761.0	66.0	18.9	90	se.	1	0.4		0	0			0.37	9.4	clear	F. Belford.
Eagle Rock, Idaho	25.30	642.6	29.98	761.5	35	1.7	69	n.	14	6.3		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	30.35	770.9	30.42	772.7	44	6.7	56	ne.	19	8.5		2 c	7 s		e.	inap.	inap.	cloudy	J. H. Melton.
El Paso, Texas	26.21	665.7	29.85	758.2	64	17.8	58	nw.	10	4.5		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.52	749.8	30.24	768.1	54	12.2	74	s.	1	0.4		hz.	0			0	0	clear	R. H. Paxton.
Escanaba, Michigan	29.47	748.5	30.13	765.3	52	11.1	66	s.	7	3.1		7 c	3 s			0	0	cloudy	C. Dill.
Fort Apache, Arizona	24.98	634.5	29.80	756.9	39	3.9	46	ne.	3	1.3		0	0			0	0	clear	W. O. Barnes.
Fort Assinnaboine, Montana	27.24	691.9	30.08	764.0	38	3.3	82	w.	6	2.7		0	9 k		w.	0.05	1.3	cloudy	B. O. Lenoir.
Fort Bennett, Dakota	28.09	713.5	29.65	753.1	52.0	11.1	74	n.	13	5.8			10 s		calm	inap.	inap.	cloudy	A. Pritchard.
Fort Benton, Montana	27.28	692.9	30.07	763.8	39	3.9	73	nw.	15	6.7		0	8 s			inap.	inap.	cloudy	G. W. Davis.
Fort Buford, Dakota	27.86	707.6	29.84	757.9	40	4.4	73	n.	28	12.5			10 s		n.	0.03	0.8	cloudy	A. H. Bell.
Fort Custer, Montana	26.82	681.2	29.92	760.0	38	3.3	92	nw.	16	7.2			10 n		calm	0.23	5.8	light rain	V. Verge.
Fort Davis, Texas	25.13	638.3	29.85	758.2	61	16.1	72	calm	0	0		0	0			inap.	inap.	clear	J. Williams.
Fort Elliott, Texas	27.05	687.1	29.75	755.6	56	13.3	60	se.	20	8.9		0	0			2.30	58.4	clear	W. J. Cundall.
Fort Gibson, Indian T'y																			J. B. Campbell.
Fort Grant, Arizona	25.23	640.8	29.84	757.9	58	14.4	12	sw.	8	3.6		0	0			0	0	clear	T. J. Macgowan.
Fort Keogh, Montana	27.40	695.9	29.85	758.2	40	4.4	73	nw.	18	8.0		9 cs	0	nw.		0.01	0.3	cloudy	W. B. Stockman.
Fort Macon, North Carolina	30.33	770.4	30.34	770.6	52	11.1	86	ne.	19	8.5		2 k	hz.	n.	calm	0	0	clear	L. Leonardy.
Fort McKavett, Texas	27.84	707.1	30.08	764.0	61	16.1	84	se.	5	2.2			10 ks		se.	0.05	1.3	cloudy	J. E. Thatcher.
Fort Missoula, Montana	26.90	683.2	30.20	767.1	37	2.8	92	nw.	1	0.4			10 ks			0.05	1.3	cloudy	J. H. Jones.
Fort St. Michaels, Alaska	30.40	772.1	30.43	772.9	37	2.8	90	sw.	3	1.3		0	0			0	0	clear	A. P. Leavitt.
Fort Shaw, Montana	26.46	672.6	30.08	764.0	35	1.7	82	w.	8	3.6		8 k	0	nw.		0.06	1.5	cloudy	A. L. Mathews.
Fort Sill, Indian Territory	28.73	729.7	29.95	760.7	63.5	17.5	98	s.	14	6.3			10 s		s.	0.59	15.0	cloudy	T. Cleary.
Fort Stevenson, Dakota	27.87	707.9	29.70	754.4	46	7.8	100	sw.	14	6.3		0	9 s			0.25	6.3	cloudy	W. Burrows.
Fort Verde, Arizona					52.4	11.3	33	n.			1	0	0			0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.40	619.7			30.6	— 0.8	90	se.	5	2.2			10 n			0.31	7.9	light snow	T. M. Ambler.
Fredericksburg, Texas	28.22	716.8	29.94	760.5	64	17.8	100	se.	10	4.5			10 s			0.06	1.5	cloudy	H. S. Miles.
Galveston, Texas	30.02	762.5	30.06	763.5	73	22.8	63	se.	16	7.2		10 cs	0			0	0	cloudy	E. O'C. MacInernev.
Grand Haven, Michigan	29.54	750.3	30.20	767.1	53.5	11.9	48	e.	4	1.8			10 s			0	0	cloudy	W. A. Reid.
Hatteras, North Carolina	30.31	769.9	30.33	770.4	49	9.4	86	ne.	22	9.8		3 k	hz.	ne.		0	0	clear	R. M. Crawford.
Helena, Montana	25.90	657.8	30.07	763.8	37	2.8	64	w.	6	2.7		8 c	0	w.		0.03	0.8	cloudy	S. Wheaton.
Henrietta, Texas	29.01	736.8	29.99	761.7	66.0	18.9	90	s.	14	6.3			10 s			0.08	2.0	cloudy	J. W. Byram.
Huron, Dakota	28.31	719.1	29.66	753.4	61.2	16.2	87	s.	13	5.8			10 n		sw.	0.49	12.4	thnd'r str'm	S. W. Glenn.
Indianapolis, Indiana	29.40	746.7	30.19	766.8	57	13.9	51	e.	1	0.4		0	hz.		calm	0	0	clear	O. Schutze
Indianola, Texas	29.97	761.2	30.00	762.0	73.8	23.2	76	s.	16	7.2			10 k		s.	0	0	cloudy	I. A. Reed.
Jacksboro, Texas	28.84	732.5	29.99	761.7	65	18.3	90	se.	8	3.6			10 s		s.	0.07	1.8	cloudy	J. P. Sherry.
Jacksonville, Florida	30.19	766.8	30.23	767.8	63	17.2	73	ne.	3	1.3		0	0			0	0	clear	J. W. Smith.
Keokuk, Iowa	29.37	746.0	30.02	762.5	60.5	15.8	66	se.	10	4.5		10 k	0	w.		0	0	cloudy	F. Z. Gosewisch.
Key West, Florida	30.07	763.8	30.09	764.3	75.0	23.9	64	ne.	16	7.2		3 c	2 k	s.	ne.	0	0	fair	L. M. Melbourne.
Kittyhawk, North Carolina	30.34	770.6	30.36	771.1	47	8.3	77	ne.	19	8.5		0	5 k		ne.	0	0	fair	E. A. Beals.
Knoxville, Tennessee	29.23	742.4	30.25	768.3	52.3	11.3	86	ne.	1	0.4		1 c	fg.			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.23	742.4	29.99	761.7	61	16.1	60	s.	12	5.4			10 s		s.	0.08	2.0	cloudy	S. C. Emery.
La Mesilla, New Mexico	26.04	661.4	29.80	756.9	56.2	13.4	47	se.	2	0.9		0	1 s			0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.06	738.1	29.94	760.5	60	15.6	70	s.	4	1.8			10 s		sw.	0.09	2.3	cloudy	A. W. Browne.
Lewiston, Idaho	29.48	748.8	30.32	770.1	41.0	5.0	73	e.	2	0.9		0	0			0	0	clear	J. M. Burlew.
Little Rock, Arkansas	29.80	756.9	30.11	764.8	59	15.0	93	calm	0	0		9 ck	fg.	sw.		0	0	cloudy	W. U. Simmons.
Los Angeles, California	29.57	751.1	29.97	761.2	53.2	11.8	72	n.	2	0.9		0	2 s		calm	0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.63	752.6	30.18	766.6	57	13.9	69	calm	0	0		3 cs	sk.			0	0	dense smoke	H. C. Smyth.
Lynchburg, Virginia	29.68	753.9	30.36	771.1	51.5	10.8	76	e	1	0.4			10 ks			inap.	inap.	cloudy	W. R. Bushby.
Madison, Wisconsin	29.08	738.6	30.08	764.0	58	14.4	74	se.	8	3.6			10 s		sw.	0	0	cloudy	C. A. Shaw.
Marquette, Michigan	29.38	746.2	30.10	764.5	57	13.9	45	s.	10	4.5		6 c	sk.	s.		0	0	fair	J. Gilligan.
Memphis, Tennessee	29.83	757.7	30.16	766.1	64	17.8	52	se.	2	0.9		hz.	4 ks		se.	0	0	fair	D. T. Flannery.
Milwaukee, Wisconsin	29.38	746.2	30.12	765.0	53	11.7	72	se.	6	2.7			10 s			0	0	cloudy	W. Line.
Mobile, Alabama	30.17	766.3	30.21	767.3	61.4	16.3	84	n.	3	1.3		2 c	0			0	0	clear	J. D. Paxton.
Montgomery, Alabama	30.01	762.2	30.24	768.1	61.5	16.4	63	e.	2	0.9		0	0			0	0	clear	J. B. McLaughlin.

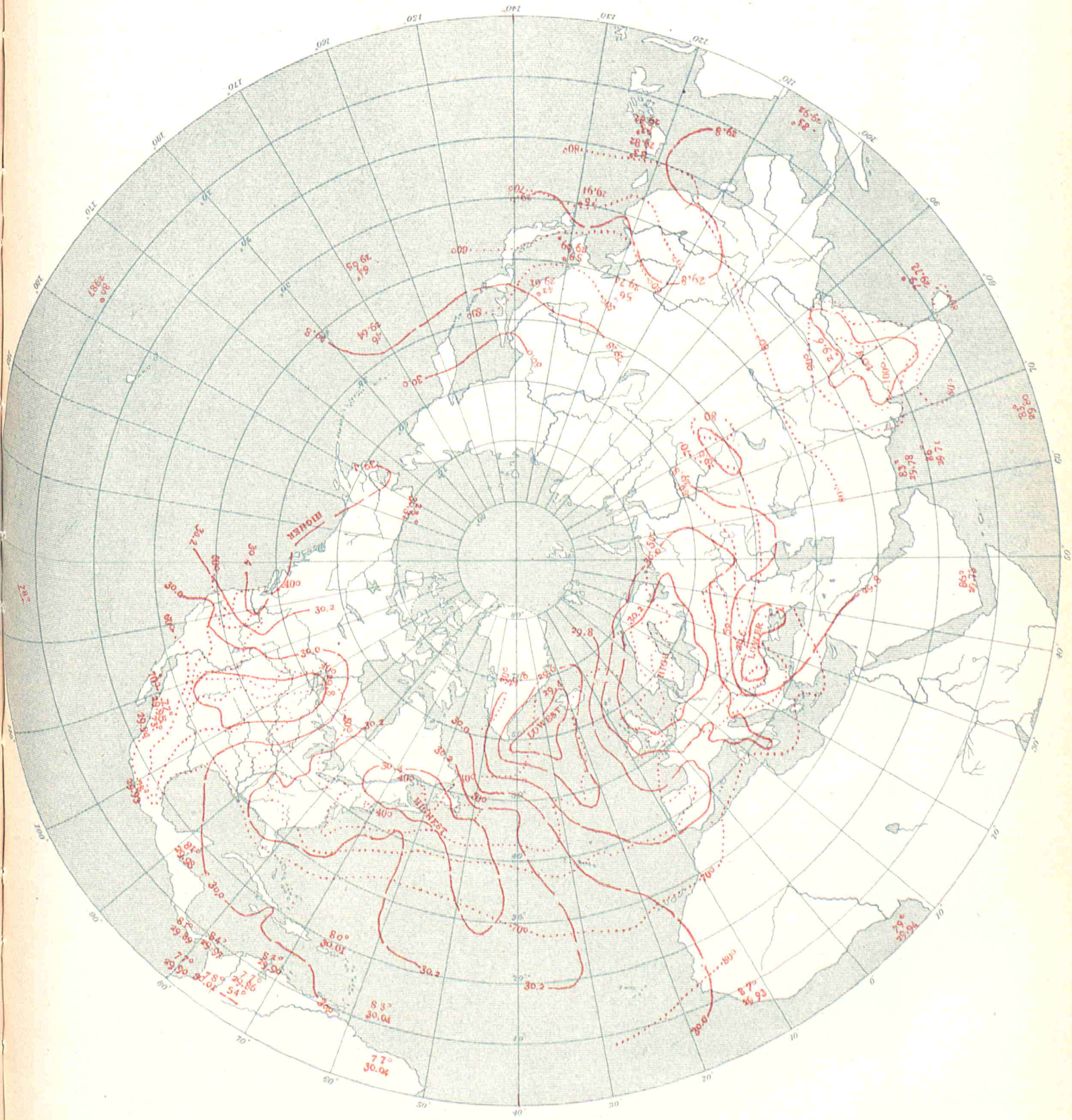
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Moorhead, Minnesota	28.63	727.2	29.61	752.1	57	13.9	86	s.	16	7.2	.....	0	5 s	.....	s.	0.61	15.5	fair	H. Bessant.
Morgantown, W. Virginia	29.23	742.4	30.24	768.1	58.0	14.4	53	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	24.00	609.6	30.18	766.6	24.5	— 4.2	94	e.	41	18.3	.....	.....	fg.	.....	e.	0.52	13.2	dense fog	J. G. Linsley
Nashville, Tennessee	29.67	753.6	30.20	767.1	55.5	13.1	83	calm	0	0	.....	8 cs	fg.	sw.	.....	0	0	fair	L. A. Jesunofsky.
New Haven, Connecticut	30.23	767.8	30.35	770.9	41	5.0	73	n.	12	5.4	.....	.....	10 s	.....	n.	0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.29	769.4	30.34	770.6	43	6.1	83	ne.	8	3.6	.....	.....	10 s	.....	ne.	0.12	3.0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.10	764.5	30.15	765.8	68.5	20.3	72	e.	3	1.3	.....	2 c	sk.	.....	.....	0	0	clear	L. Dunne.
Newport, Rhode Island	30.26	768.6	30.32	770.1	42.3	5.7	92	n.	10	4.5	.....	.....	10 n	.....	ne.	0.02	0.5	light rain	W. McGillivray.
New River, N. Carolina	.....	.....	.....	.....	50.0	10.0	87	ne.	.....	.....	1	0	2 s	.....	n.	0.10	2.5	clear	C. C. Corbin.
New Shoreham, Rhode I'd.	30.27	768.8	30.30	769.6	42.0	5.6	92	ne.	28	12.5	.....	.....	10 s	.....	ne.	0.16	4.1	cloudy	W. Davis.
New York, New York	30.19	766.8	30.37	771.4	43	6.1	74	n.	10	4.5	.....	.....	10 s	.....	n.	0	0	cloudy	E. B. Garriott.
Norfolk, Virginia	30.34	770.6	30.37	771.4	50	10.0	77	ne.	5	2.2	.....	.....	10 ks	.....	sw.	0	0	cloudy	J. T. Elker.
North Platte, Nebraska	26.75	679.4	29.62	752.3	59.6	15.3	87	se.	15	6.7	.....	0	2 s	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.40	772.1	30.44	773.2	35.0	1.7	89	s.	1	0.4	.....	4 ck	fg.	n.	n.	0.10	2.5	fair	J. Dascomb.
Omaha, Nebraska	28.70	729.0	29.86	758.4	60.8	16.0	84	s.	12	5.4	.....	.....	10 s	.....	sw.	0.06	1.5	cloudy	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.29	769.4	30.31	769.9	23.3	— 4.8	100	ese.	22	9.8	.....	.....	10 s	.....	w.	0.01	0.3	cloudy	P. H. Ray.
Oswego, New York	30.00	762.0	30.34	770.6	50.0	10.0	56	se.	12	5.4	.....	0	0	.....	.....	0	0	clear	S. W. Beall.
Palestine, Texas	29.57	751.1	30.12	765.0	66	18.9	100	se.	10	4.5	.....	.....	10 n	.....	.....	0.04	1.0	light rain	L. M. Pindell.
Pensacola, Florida	30.20	767.1	30.22	767.6	64.4	18.0	72	ne.	4	1.8	.....	3 cs	0	.....	.....	0	0	clear	M. McGauran.
Philadelphia, Pa.	30.29	769.4	30.39	771.9	44	6.7	68	n.	6	2.7	.....	.....	10 s	.....	n.	0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.65	448.3	29.71	754.6	22	— 5.6	73	sw.	54	24.2	.....	6c;cs	hz.	.....	.....	0	0	fair	L. M. Dey.
Pioche, Nevada	23.96	608.6	29.88	758.9	50	10.0	34	calm	0	0	.....	0	0	.....	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.44	747.8	30.24	768.1	50.0	10.0	77	ne.	1	0.4	.....	0	fg.	.....	.....	0	0	clear	J. H. Bryce.
Poplar River, Montana	27.78	705.6	.....	.....	.....	.....	.....	nw.	.....	.....	6	0	0	.....	.....	0.07	1.8	clear	U. D. Maxwell.
Port Eads, Louisiana	30.16	766.1	30.17	766.3	71.0	21.7	59	e.	16	7.2	.....	0	0	.....	.....	0	0	clear	H. G. Christian.
Port Huron, Michigan	29.56	750.8	30.24	768.1	47.7	8.7	82	ne.	2	0.9	.....	0	hz.	.....	.....	0	0	clear	W. O. Bailey.
Portland, Maine	30.34	770.6	30.39	771.9	47.0	8.3	63	ne.	10	4.5	.....	5 cs	3 s	se.	calm	0.11	2.8	cloudy	D. C. Murphy.
Portland, Oregon	30.37	771.4	30.44	773.2	38.0	3.3	96	calm	0	0	.....	.....	fg.	.....	calm	0.06	1.5	dense fog	M. L. Hearne.
Portsmouth, N. Carolina	.....	.....	.....	.....	52	11.1	72	ne.	27	12.1	.....	0	hz.	.....	calm	0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.74	628.4	29.84	757.9	49	9.4	44	s.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. Mc N. Wright.
Provincetown, Mass.	30.28	769.1	30.31	769.9	40	4.4	100	ne.	12	5.4	.....	.....	10n;fg	.....	.....	0.26	6.6	light rain	P. T. Jenkins.
Punta Rassa, Florida	30.13	765.3	30.14	765.5	68	20.0	70	ne.	14	6.3	.....	7 c	0	nw.	.....	0	0	fair	W. J. Evans.
Red Bluff, California	29.65	753.1	30.02	762.5	61.0	16.1	35	n.	20	8.9	.....	2 c	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.73	755.1	29.97	761.2	69	20.6	90	s.	4	1.8	.....	.....	10 s	.....	s.	0.70	17.8	cloudy	P. M. Wilson.
Rochester, New York	29.64	752.8	30.30	769.6	48	8.9	71	se.	11	4.9	.....	0	hz.	.....	.....	0	0	clear	F. Gillam.
Roseburg, Oregon	29.81	757.2	30.36	771.1	37	2.8	82	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. J. Nanry.
Sacramento, California	29.86	758.4	29.94	760.5	63.4	17.4	52	nw.	9	4.0	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.54	750.3	30.13	765.3	55.2	12.9	86	s.	9	4.0	.....	5ck;cs	0	sw.	.....	0	0	fair	J. H. Webber.
St. Paul, Minnesota	28.98	736.1	29.83	757.7	58.0	14.4	74	se.	6	2.7	.....	.....	10 s	.....	se.	0.21	5.3	cloudy	P. F. Lyons.
St. Vincent, Minnesota	28.77	730.7	29.63	752.6	51	10.6	93	se.	5	2.2	.....	0	8 k; s	.....	sw;c	0.06	1.5	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.64	651.2	29.96	761.0	48	8.9	38	nw.	15	6.7	.....	8 k	0	w.	.....	0	0	cloudy	J. Craig.
San Antonio, Texas	29.28	743.7	29.98	761.5	67	19.4	93	ne.	4	1.8	.....	.....	10 n	.....	se.	0.34	8.6	light rain	E. Lane.
San Diego, California	29.85	758.2	29.92	760.0	60.4	15.8	74	se.	6	2.7	.....	.....	fg.	.....	.....	0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.55	750.6	30.22	767.6	52.2	11.2	72	e.	3	1.3	.....	5 c	0	.....	.....	0	0	fair	M. H. Perry.
Sandy Hook, New Jersey	30.32	770.1	30.36	771.1	43.0	6.1	93	ne.	19	8.5	.....	5 k	5 ks	ne.	ne.	0	0	cloudy	B. A. Blundon.
San Francisco, California	29.91	759.7	29.98	761.5	53.5	11.9	83	w.	2	0.9	.....	2 cs	0	nw.	.....	0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.17	588.5	29.78	756.4	47	8.3	30	se.	5	2.2	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Savannah, Georgia	30.20	767.1	30.29	769.4	60	15.6	75	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	H. W. Ford.
Shreveport, Louisiana	29.87	758.7	30.11	764.8	65	18.3	73	e.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	E. N. Meekins.
Silver City, New Mexico	24.26	616.2	29.80	756.9	45	7.2	39	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. B. Wallace.
Sitka, Alaska	30.32	770.1	30.38	771.6	49.5	9.7	77	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. J. McLean.
Smithville, North Carolina	30.29	769.4	30.33	770.4	53	11.7	80	ne.	9	4.0	.....	hz.	0	.....	.....	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.20	616.3	30.26	768.6	38	3.3	92	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.44	747.8	30.11	764.8	59	15.0	67	s.	4	1.8	.....	3ck;cs	4 s	w.	w.	0	0	fair	T. B. Jennings.
Springfield, Massachusetts	30.24	768.1	30.37	771.4	41.6	5.3	79	ne.	10	4.5	.....	.....	10 s	.....	ne.	0.06	1.5	cloudy	T. S. Outram.
Springfield, Mo.	28.64	727.4	30.12	765.0	59	15.0	62	s.	8	3.6	.....	0	8 ks	.....	s.	0	0	cloudy	J. B. Marbury.
Starkville, Miss.	29.74	755.4	.....	.....	64.3	17.9	68	se.	6	2.7	.....	7 ck	0	.....	.....	0	0	fair	M. J. Wright.
Stockton, Texas	26.91	683.5	29.92	760.0	58.0	14.4	86	s.	4	1.8	.....	0	0	.....	.....	0.04	1.0	clear	J. O'Dowd.
Thatcher's Island, Mass.	30.27	768.8	30.32	770.1	41.3	5.2	82	ne.	24	10.7	.....	.....	10 s	.....	ne.	0.19	4.8	cloudy	F. R. Day.
Toledo, Ohio	29.53	750.0	30.21	767.3	50.5	10.3	73	calm	0	0	.....	0	sk.	.....	.....	0	0	dense smoke	A. Buell.
Tucson, Arizona	27.51	698.7	29.85	758.2	62	16.7	39	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	30.06	763.5	30.43	772.9	40	4.4	82	nw.	1	0.4	.....	0	0	.....	.....	0.05	1.3	clear	J. Daly.
Uvalde, Texas	28.98	736.1	29.94	760.5	69	20.6	94	se.	3	1.3	.....	5 k	0	s.	.....	0.34	8.6	fair	E. C. Imlay.
Vicksburg, Mississippi	29.92	760.0	30.17	766.3	61	16.1	72	se.	2	0.9	.....	4 c	0	.....	.....	0	0	fair	H. T. Brisbane.
Visalia, California	29.52	749.8	29.89	759.2	56	13.3	69	nw.	2	0.9	.....	1 cs	0	nw.	.....	0	0	clear	W. L. Seward.
Washington, D. C.	30.28	769.1	30.39	771.9	48.8	9.3	77	se.	3	1.3	.....	8 k	0	se.	.....	0	0	cloudy	B. M. Purssell.
West Las Animas, Colorado	25.78	654.8	29.64	752.8	55.9	13.3	60	w	8	3.6	.....	0	2 s	.....	w.	0	0	clear	J. Grover.
Williamsport, Pa.	29.72	754.9	30.32	770.1	48	8.9	63	ne.	5	2.2	.....	3 k	7 ks	nw.	.....	0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.28	769.1	30.33	770.4	51	10.6	80	ne.	8	3.6	.....	.....	10 k	.....	ne.	0	0	cloudy	A. T. Sherwood.
Winnemucca, Nevada	25.80	655.3	30.15	765.8	35	1.7	49	ne.	10	4.5	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Yankton, Dakota	28.48	723.4	29.76	755.9	62	16.7	84	s.	1	0.4	.....	.....	10 ks	.....	.....	0.18	4.6	cloudy	J. H. Atfield.
Yuma, Arizona	29.66	753.4	29.81	757.2	64.0	17.8	58	calm	0	0	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.03	559.6	.....	.....	54.0	12.2	82	w.	4	1.8	.....	.....	10ks;s	.....	.....	0.32	8.1	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.02	762.5	30.04	763.0	83	28.3	87	e.	.....	.....	.....	5 k	10 ks	e.	e.	0	0	.....	J. A. Racker.
Buenaventura, U. S. C.	29.98	761.5	30.01	762.2	78	25.6	95	s.	3	1.3	.....	.....	10 n	.....	s.	0.90	22.9	raining	J. I. Plume.
Havana, Cuba, W. I.	30.06	763.5	30.11	764.8	77	25.0	69	se.	1.2	0.5	.....	5 cs	2 ks	calm	e.	0	0	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	29.99	761.7	30.00	762.0	74.8	23.8	76	n.	2	0.9	.....	5 cs	0	nw.	.....	0	0	.....	Robert Johnston.
Magun, San Domingo, W. I	.....	.....	.....	.....	72	22.2	.....	calm	.....	.....	0	2 ks	0	.....	.....	0.32	8.1	.....	S. M. Pike.
Navassa, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. M. Everett.
Paramaribo, S. A.	30.04	763.0	30.04	763.0	77	25.0	91	se.	.....	.....	2	5 k	6 ps	e.	e.	0.050	1.3	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.40	746.7	29.86	758.4	77	25.0	89	calm	.....	.....	0	.....	10 s	.....	calm	0	0	foggy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	90	ne.	.....	.....	3	5 cs	0	e.	.....	blank	blank	fair	Earl Flint.
Santiago de Cuba, W. I.	29.97	761.2	29.99	761.7	75	23.9	81	calm	0	0	.....	2 c	1 n	.....	ne.	0	0	fair	Robert Mason.
York Factory, B. A.	30.06	763.5	30.11	764.8	47.0	8.3	96	nw.	22	9.8	.....	4 k	2 s	nw.	nw.	0	0	cloudy	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
British Naval.																		
H. M. S. Alert, Port Mozambique, Mozambique	30.06	763.5	81.2	27.3	73	sse.			3		2							d clouds.
H. M. S. Alexandra, Suda Bay, Turkey in Europe	29.93	760.2	70	21.1	47	wsw.			5-6		2							d. clouds.
H. M. S. Amethyst, Porto Grande, Cape Verd Islands.	30.05	763.3	72	22.2	88	ne.			6		2	ssw.						d. clouds.
H. M. S. Champion, N. 8° 00′, W. 124° 45′			78	25.6	95	n.			4		10					4	nne.	raining.
H. M. S. Cleopatra, N. 21° 08′, E. 113° 16′	29.74	755.4	81.5	27.5	91	s.			2-3		3	calm						d. clouds.
H. M. S. Comus, Singapore, Malay Peninsula	29.92	760.0	82.5	28.1	87	calm			0		3	se.						d. clouds.
H. M. S. Condor, Suda Bay, Turkey in Europe	29.94	760.5	69	20.6		wsw.			4		4	wsw.						blue sky.
H. M. S. Coquette, Alexandria, Egypt	29.91	759.7	73	22.8		n.			2		1	nnw.						blue sky.
H. M. S. Dido, N. 13° 05′, W. 59° 30′	30.10	764.5	81	27.2		se.			2		2	e.						d. clouds.
H. M. Dock-Yard, Bermuda, W. I	30.04	763.0	71	21.7	95	ese.			2-3		8	ese						d. clouds.
H. M. S. Druid, N. 17° 29′, W. 88° 11′	29.98	761.5	80.5	26.9	82	ne.			3		3	ne.						d. clouds.
H. M. S. Dwarf, S. 34° 12′, W. 58° 10′	30.13	765.3	49.5	9.7	93	n.			1-2		4					1	n.	d. clouds.
H. M. S. Eclipse, S. 23° 30′, E. 43° 46′	30.08	764.0	78	25.6		ese.			3-5		4							d. clouds.
H. M. S. Emerald, S. 52° 30′, W. 143° 55′	29.55	750.6	41	5.0	100	ssw.			1		10					3	ssw.	overcast.
H. M. S. Euryalus, Trincomalee, Ceylon	29.73	755.1	79	26.1	86	sw.			1-2		9	calm						d. clouds.
H. M. S. Fantome, N. 11° 10′, W. 71° 39′	29.90	759.4	82	27.8		e.			3-4		4	e.				4	e.	d. clouds.
H. M. S. Flying Fish, N. 34° 53′, E. 125° 25′	29.77	756.1	56.5	13.6	84	calm			0		6					2	nnw.	d. clouds.
H. M. S. Fawn, N. 1° 13′, E. 65° 36′	29.80	756.9	82.5	28.1	72	s.			2		9	s.				2	s.	d. clouds.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	29.99	761.7	52.5	11.4	93	ne.			2		10							misty.
H. M. S. Garnet, Colonia, Rio de La Plata, Uruguay	30.19	766.8	52	11.1	86	n.			1		0							blue sky.
H. M. S. Griffon, N. 47° 15′, W. 59° 32′	30.53	775.4	37	2.8	80	calm			0		3							d. clouds.
H. M. S. Inconstant, S. 30° 20′ E. 12° 00′	30.08	764.0	62	16.7	77	ese.			3		7	ese.				3	ese.	d. clouds.
H. M. S. Iron Duke, N. 32° 44′ E. 129° 52′	29.78	756.4	66	18.9	100	n.			1		3							d. clouds.
H. M. S. Kingfisher, S. 7° 42′, W. 80° 44′	30.05	763.3	64	17.8		calm			0		8	calm						d. clouds.
H. M. S. Lark, S. 7° 47′, E. 155° 24′	29.87	758.7	80.3	26.8		ese.			2		7					3	se.	d. clouds.
H. M. S. Magpie, N. 34° 56′, E. 139° 52′	29.65	753.1	66.9	19.4	91	w.			1		10 s	w.						misty.
H. M. S. Northampton, Bermuda, W. I	30.05	763.3	72	22.2	95	sse.			2		10							overcast.
H. M. S. Orontes, N. 16° 42′ W. 67° 03′	30.02	762.5	80.5	26.9	93	e.			4		5	e.				2	e.	d. clouds.
H. M. S. Rambler, 0° 00′, E. 6° 26′	29.94	760.5	79	26.1	100	se.			3		5	sse.				4	s.	d. clouds.
H. M. S. Rocket, N. 48° 27′, W. 123° 27′	30.45	773.4	43	6.1	91	wnw			2		3							d. clouds.
H. M. S. Sylvia, N. 28° 35′, W. 19° 39′	30.06	763.5	70.2	21.2	65	wnw.			3		2					2	wnw.	d. clouds.
H. M. S. Swiftsure, N. 49° 15′, W. 6° 30′	29.85	758.2	55	12.8	93	ese.			5		1	sse.				5	con.	blue sky.
H. M. S. Tenedos, N. 47° 28′ W. 55° 48′	30.51	774.9	44	6.7	84	s			1		3							d. clouds.
H. M. S. Thetis, S. 18° 50′ W. 70° 30	30.01	762.2	63	17.2	88	e.			6		10					2	sw.	overcast.
H. M. S. Triumph, Coquimbo, Chili	29.99	761.7	56	13.3	68	calm			0		10	calm						foggy.
H. M. S. Woodlark, N. 22° 59′ E. 60° 10′	29.68	753.9	82.5	28.1	83	sw.			4-5		0					5	s.	misty.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verd Islands	30.16	766.1	75.0	23.9	84	ne.			2		3		ne.			1		d. clouds.
Tamega, Macao, China	29.76	755.9	84.2	29.0	78	ssw.			1		4			1 h'r	1 h'r			d. clouds.
Swedish Naval.																		
Sago, N. 55° 26′, E. 12° 44′	30.32	770.2	52.3	11.3	75	sse.			2		1							blue sky.
United States Naval.																		
Navy Yard, Pensacola, Fla	30.15	765.8	65	18.3	73	ne.	2	0.9			2		ne.	0	0			fair.
N. Yard, Portsmouth, N. H	30.36	771.1	43	6.1	75	ne.	24	10.7			10		ne.	0	0			misty.
Naval Hospital, Yokohama, Japan	29.52	749.8	66.5	19.2	89	calm			0		10		w.	0.80	20.3			cloudy.
Adams, Mare Island, Cal	29.76	755.9	56	13.3	87	wsw.			1		2		sw.					clear.
Alaska, Callao, Peru	29.97	761.2	62	16.7	88	calm			0		10			0	0	sm'h		cloudy.
Alert, Kobe, Japan*	29.60	751.8	70	21.1	80	wnw.			1		2		calm	0	0	sm'h		hazy.
Alliance, N. 36° 36′, W. 75° 09′	30.37	771.4	45	7.2	92	ne.			1-2		5?			0	0	sm'h		clear ?
Ashuelot, Kobe, Japan	29.70	754.4	72	22.2	76	calm			0		8		n.					cloudy.
Brooklyn, Montevideo, Uruguay	30.18	766.6	48	8.9	92	nw.	6	2.7			0			0	0	sm'h		clear.
Colorado, New York, N. Y	30.36	771.1	44	6.7	76	n.	5	2.2			10		n.	0	0			cloudy.
Essex, Montevideo, Uruguay	30.18	766.6	52	11.1	86	ene.			1		0					sm'h		clear.
Franklin, Norfolk, Va	30.40	772.1	50	10.0	79	ene.	5	2.2			8		ene.	0	0			cloudy.
Galena, Gibraltar, Mediterranean	29.86	758.4	64	17.8	94	sse.			2-3		10		s.			sm'h		cloudy.
Independence, Mare Island, Cal	29.81	757.2	53	11.7	93	sw.			1		0			0	0			clear.
Iroquois, San Francisco, Cal	29.97	761.2	57	13.9	75	calm			0		0							clear.
Kearsarge, N. 36° 40′, W. 75° 14′	30.33	770.4	46	7.8	100	nne.			3		5		n;e.			long	ne.	fair.
Lackawana, N. 2? 11′, W. 79° 46′*	29.90	759.4	77	25.0	86	w.			4		8		w.			sm'h	sw.	cloudy.
Lancaster, Gibraltar, Mediterranean*	29.83	757.7	64	17.8	100	se.			1		5		se.			sm'h	se.	fair.
Marion, S. 31° 24′, W. 47° 11′	30.03	762.7	67	19.4	100	sse.			3-4		8		sse.	light	light	mod.	sse.	cloudy.
Michigan, Erie, Pa	30.18	766.6	52	11.1	100	ne.			2		0							clear.
Minnesota, Newport, R. I	30.33	770.4	43	6.1	92	nne.	15	6.7			10		ne.					drizzling.
Monocacy, Nagasaki, Japan	29.82	757.4	66	18.9	84	calm			0		5		calm					fair.
New Hampshire, Newport, R. I	30.27	768.8	42	5.6	100	ne.			4		10					sm'h		cloudy.
Nipsic, Gibraltar, Mediterranean	29.85	758.2	64	17.8	89	sse.			2		10		s.			sm'h		cloudy.
Onward, Callao, Peru	30.11	764.8	62	16.7	94	n.			1		10		s.			long	n.	cloudy.
Palos, Kobe, Japan	29.72	754 9	66	18.9	94	calm			0		5		calm					fair.
Passaic, Washington, D. C	30.53	775.4	50	10.0	?	e.			1		8		e.					cloudy.
Pensacola, Callao, Peru	30.00	762.0	61	16.1	88	calm	0	0			10			0	0	sm'h		cloudy.
Portsmouth, Plymouth, Eng	30.02	762.5	55	12.8	100	ese.			5		8		ese.			sm'h		cloudy.
Powhatan, Norfolk, Va	30.36	771.1	50	10.0	79	e.			2		10							overcast.
Quinnebaug, Gibraltar, Mediterranean	29.82	757.4	64	17.8	83	sse.			1		8		se.			sm'h		hazy.
Ranger, Off Altata Bar, Mexico*	29.85	758.2	77	25.0	86	se.			3		10		calm	0	0	light		cloudy.
Richmond, Kobe, Japan*	29.66	753.4	69	20.6	80	calm			0		0			0	0			clear.
Saratoga, Plymouth, Eng	30.02	762.5	54	12.2	80	ese.			4		8		se.	0	0	sm'h		fair.
Shenandoah, N. 41° 05′, W. 73° 00′*	30.41	772.4	43	6.1	75	nne.			3		10							cloudy.
St. Louis, League Island, Pa	30.65	778.5	44	6.7	67	ne.	4	1.8			10			0	0			cloudy.
Swatara, N. 37° 27′, E. 126° 33′*	29.59	751.6	59	15.0	65	nw.			1		0					sm'h		clear.
Tennessee, N. 36° 40 W. 75° 11′	30.38	771.6	47	8.3	92	ne.	15	6.7			2			0	0	mod.	ne.	fair.
Vandalia, N. 36° 44′, W. 75° 03′*	30.31	769.9	45	7.2	92	ne.			4		5		ne.			sm'h		fair.
Wabash, Boston, Mass	30.37	771.4	42	5.6	91	ne.	7	3.1			10		ne.	0.19	4.8			rainy.
Wachusetts, Fort Wrangle, Alaska	30.20	768.6	41	5.0	100	sse.			1		0			0	0	sm'h		clear.
Wyoming, Port Royal, S. C	30.28	769.1	62	16.7	83	ne.	8	3.6			2		calm	0	0			clear.
Yantic, N. 36° 31′, W. 75° 02′*	30.34	770.6	46	7.8	84	ne.			3		5					long	ene.	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Nova Scotian, N. 43° 47′, W. 51° 00′	30.44	773.2	42	5.6	.....	e.	.....	.....	1	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
S. S. Prussian, St. Johns, N. F*	30.36	771.1	58	14.4	.....	calm	.....	.....	0	.....	4	.....	e.	0	0	.....	.....	clear.
S. S. Scandinavian, Greenock, Scotland*	30.06	763.5	62	16.7	.....	e.	.....	.....	4	.....	0	.....	.....	0	0	.....	.....	misty.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, Philadelphia, Pa	30.23	767.8	50	10.0	93	ne.	.....	.....	3	.....	10	.....	ne.	.....	.....	.....	.....	overcast
S. S. Indiana, N. 43° 02′, W. 42° 55′†	30.21	767.3	59	15.0	94	nnw.	.....	.....	4	.....	2	.....	nw.	0	0	mod.	wnw.	fair.
S. S. Lord Olive, Philadelphia, Pa *	30.15	765.8	.....	.....	.....	nne.	.....	.....	2	.....	9	.....	nne.	0	0	.....	.....	cloudy.
S. S. Ohio, N. 45° 36′, W. 36° 05′ †	30.19	766.8	48	8.9	92	nw.	.....	.....	6	.....	8	.....	wnw.	.....	.....	hv'y	nw.	squally.
ANCHOR LINE.																		
S. S. Boliva, N. 46° 02′ W. 42° 58′†	30.20	767.1	47	8.3	.....	w.	.....	.....	7	.....	6?	.....	w.	0	0	h'vy	w.	clear.?
S. S. India, N. 17° 16′, E. 63° 49′*	29.71	754.6	86	30.0	91	sw.	.....	.....	2	.....	2	.....	.....	.....	.....	.....	sw.	fair.
S. S. Utopia, Alicante, Spain†	30.07	763.8	68	20.0	69	ene.	.....	.....	3	.....	9	.....	ene.	0	0	.....	.....	cloudy.
ATLAS LINE.																		
S. S. Ailsa, N. 37° 52′, W. 74° 26′†	30.20	767.1	48	8.9	77	n.	.....	.....	5	.....	5?	.....	ne.	0	0	mod.	ne.	clear.?
S. S. Alvo, N. 30° 14′, W. 74° 19′	30.19	766.8	87?	30.6?	.....	nne.	.....	.....	4	.....	4	.....	.....	0	0	.....	.....	
S. S. Athos, San Juan, Porto Rico, W. I.	29.68	753.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, N. 42° 26′. W. 63° 33′	.....	.....	49	9.4	93	ese.	.....	.....	3	.....	.....	.....	.....	light	light	.....	.....	rain & fog.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 40° 15′, E. 3° 56′	29.77	756.1	53	11.7	83	w.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	.....	overcast.
British Merchant, S 29° 21′ E 8° 48′	30.08	764.0	64.8	18.2	78	se.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	overcast.
Bk. Commewyne, N. 38° 36′, W. 22° 30′	29.83	757.7	59.6	15.3	94	wsw.	.....	.....	5	.....	10	.....	.....	.....	.....	.....	.....	drizzling.
Bk. Coppename, N. 22° 33′, W. 25° 00′	30.16	766.1	70.5	21.4	61	nnw.	.....	.....	3	.....	2	.....	.....	.....	.....	.....	.....	blue sky.
Earnock, N. 43° 16′, W. 18° 43′	29.67	753.6	56.5	13.6	80	wsw.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	overcast.
Glencairn, S. 27° 15′, E. 42° 00′	30.28	769.1	72.4	22.4	75	sse.	.....	.....	6	.....	6	.....	.....	.....	.....	.....	.....	d. clouds.
Bkt. Hope, N. 30° 05′, W. 45° 04′	30.42	772.7	71	21.7	79	e.	.....	.....	4	.....	7	.....	.....	.....	.....	.....	.....	d. clouds.
May Hulse, S. 26° 19′, W. 82° 05′	30.13	765.3	63.6	17.6	61	nne.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	overcast.
Minho, Rio de Janeiro Brazil	30.05	763.3	75.2	24.0	76	sw.	.....	.....	3	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
Pole Star, S. 47° 22′, W. 80° 46′	30.27	768.8	48.8	9.3	96	n.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	overcast.
CUNARD LINE.																		
S. S. Bothnia, N. 44° 15′, W. 44° 33′	30.38	771.6	.....	.....	.....	w.	.....	.....	6	.....	5?	.....	w.	0	0	r'gh	wnw.	clear.?
S. S. Marathon, N. 51° 22′, W. 13° 27′	29.83	757.7	56	13.3	.....	se.	.....	.....	4	.....	0	.....	.....	0	0	mod.	se.	clear.
S. S. Scythia, New York, N. Y	30.35	770.9	53	11.7	93	ne.	.....	.....	3	.....	10	.....	ne.	0	0	.....	.....	clear?
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. St. Germain, New York, N. Y	.....	.....	.....	.....	.....	ne.	.....	.....	2	.....	.....	.....	ne.	0	0	.....	.....	
S. S. Ville de Marseilles, N. 39° 16′, W. 44° 15′*†	30.40	772.1	63	17.2	.....	n.	.....	.....	4	.....	10	.....	n.	2 h'r	2 h'r	sm'h	.....	cloudy.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 44° 20′, W. 36° 47′*†	30.11	764.8	.....	...	.....	nw.	.....	.....	6	.....	3	.....	nw.	0	0	h'vy	wnw.	fine.
S. S. Cimbria, N. 49° 05′, W. 27° 52′	29.68	753.9	43.7	6.5	.....	wnw.	.....	.....	6	.....	7	.....	wnw.	11 h'r	11 h'r	r'gh	wnw.	cloudy.
S. S. Lessing, New York. N. Y	30.25	768.3	54	12.2	.....	ne.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Silesia, Hamburg, Germany†	30.34	770.6	65	18.3	.....	ne.	.....	.....	5	.....	0	.....	.....	0	0	.....	.....	fair.
S. S. Wieland, N. 47° 24′, W. 26° 44′	29.90?	759.4?	52	11.1	.....	nw.	.....	.....	6	.....	5	.....	nw.	3 h'r	3 h'r	6	nw.	fair.
INMAN LINE.																		
S. S. City of New York, N. 41° 16′, W. 56° 03′	30.35	770.9	.....	.....	.....	s.	.....	.....	4	.....	10	.....	s.	4 h'r	4 h'r	r'gh	s.	hazy.
JOHNSTON LINE.																		
S. S. Thanemore, N. 36° 37′, W. 74° 53′	30.33	770.4	.....	.....	.....	n.	.....	.....	3	.....	2	.....	n.	0	0	.....	.....	fair.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, S. 22° —′, W 39° —′*†	30.26	768.6	78	25.6	.....	ese.	.....	.....	2	.....	2	.....	nne.	½ h'r	½ h'r	.....	.....	clear.
S. S. Humboldt, N. 14° 51′ W. 53° 44′ *	30.05	763 3	78.5	25.8	98	ne.	.....	.....	4	.....	3 k	.....	.....	0	0	3	ene.	d. clouds.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenapp, S. 10° 31′, W. 35° 37′ *†	29.98	761.5	.....	.....	.....	var.	.....	.....	2	.....	4	.....	ese.	0	0	mod.	sse.	fine.
NATIONAL LINE.																		
S. S. Denmark, N. 49° 45′, W. 7° 28′	29.94	760.5	59	15.0	.....	ese.	.....	.....	5	.....	2	.....	ese.	0	0	slight	ese.	hazy.
S. S. Erin, N. 40° 28′ W. 70° 58′	30.21	767.3	42	5.6	.....	nne.	.....	.....	6	.....	10	.....	.....	0	0	.....	.....	foggy.
S. S. Greece, N. 45° 41′, W. 34° 33′	30.07	763.8	.....	.....	.....	nnw.	.....	.....	5	.....	2	.....	nnw.	0	0	mod.	nnw.	
S. S. Italy, N 41° 47′, W. 51° 02′	30.50	774.7	54	12.2	.....	e.	.....	.....	4	.....	8	.....	se.	4 h'r	4 h'r	mod.	ese.	cloudy.
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, Havana, Cuba, W. I.*†	30.15	765.8	75	23.9	68	ene.	.....	.....	3	.....	2	.....	ene.	0	0	.....	.....	misty.
S. S. City of Puebla, Progreso Roads, C. A.†	29.88	758.9	76	24.4	.....	ese.	.....	.....	1	.....	1	.....	se.	.....	.....	light	nne.	
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Maas, N. 41° 17′, W. 61° 04′*†	30.24	768.1	67	19.4	.....	sse.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	se.	foggy.
NORTH GERMAN LLOYD.																		
S. S. Elbe, N. 41° 10′, W. 64° 00′	30.20	767.1	58.1	14.5	94	ne.	.....	.....	3–5	.....	10	.....	.....	10 h'r	10 h'r	long	ne.	drizzling.
S. S. Graf Bismarck, Bahia, Brazil	30.13	765.3	78.8	26.0	.....	sse.	.....	.....	3	.....	6?	.....	sse.	2 h'r	2 h'r	.....	.....	overcast?
S. S. Hermann, N. 50° 02′, W. 4° 32′†	29.95	760.7	57.2	14.0	.....	ene.	.....	.....	5	.....	0	.....	.....	0	0	mod.	ene.	fair.
S. S. Leipzig, N. 37° 01′, W. 75° 19′	30.37	771.4	47.0	8.3	92	nne.	.....	.....	3	.....	2	.....	nne.	0	0	mod.	ne.	clear.
S. S. Main, N. 49° 36′, W. 14° 49′	29.76	755.9	53.6	12.0	.....	se.	.....	.....	5–6	.....	10	.....	se.	0	0	high	se.	cloudy.
S. S. Oder, N. 48° 50′, W. 24° 30′	29.54	750.3	49.1	9.5	.....	nnw.	.....	.....	7	.....	6	.....	nnw.	6 h'r	6 h'r	r'gh	nw.	cloudy.
S. S. Ohio, N. 50° 12′, W. 3° 24′	30.09	764.3	.....	.....	.....	e.	.....	.....	5	.....	3	.....	e.	0	0	sm'h	e.	hazy.
S. S Rhein, New York. N. Y	30.21	767.3	.....	.....	.....	nnw.	.....	.....	3	.....	10	.....	nnw.	0	0	.....	.....	cloudy.
S. S. Salier, N. 41° 01′, W. 65° 04′	30.14	765.5	50.0	10.0	.....	ene.	.....	.....	4	.....	10	.....	ene.	4 h'r	4 h'r	h'vy	ne.	foggy.
S. S. Strassburg, N. 43° 26′, W. 42° 59′	30.41	772.4	49.0	9.4	77	nw.	.....	.....	6	.....	2	.....	nw.	0	0	mod.	wnw.	clear.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, N. 28° 54′, E. 129° 02′†	29.91	759.7	76	24.4	69	nw.	.....	.....	4	.....	5	.....	nw.	0	0	sm'h	.....	fair.
S. S. Gaelic, N. 34° 43′, E. 156° 41′†	29.85	758.2	64	17.8	67	wsw.	.....	.....	2	.....	10	.....	w.	.....	.....	high	se.	overcast.
S. S. Oceanic, N 44° 07′ E. 169° 40′*	29.54	750.3	46	7.8	92	sw.	.....	.....	3–4	.....	8	.....	sw.	.....	.....	2	ssw.	misty.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y.†	30.27	768.8	.....	.....	.....	ne.	.....	.....	4	.....	10?	.....	ne.	.....	.....	.....	.....	clear?
S. S. City of Columbus, N. 33° 32′ W. 77° 49′†	30.27	768.8	.....	.....	.....	ne.	.....	.....	2	.....	.....	.....	.....	.....	.....	mod.	ne.	clear.
S. S. Seminole, Savannah, Ga.†	30.27	768.8	64	17.8	67	ne.	.....	.....	1	.....	1	.....	ne.	0	0	.....	.....	clear.
OREGON IMPROVEMENT COMPANY.																		
S. S. Willametta, Seattle, Wash. Ter†	30.50	774.7	48	8.9	77	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	hazy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Columbia, N. 40° 17′. W. 124° 27′†	30.13	765.3	48	8.9	85	wsw.	.....	.....	5	.....	0	.....	.....	.....	.....	mod	nw.	clear.
S. S. Oregon, San Francisco, Cal.†	29.99	761.7	54	12.2	93	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	clear.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Pedro, Cal.†	29.89	759.2	59	15.0	88	se.	.....	.....	2	.....	10	.....	se.	.....	.....	sm'h	wnw.	cloudy.
S. S. Dakota, Utsalady, Wash. Ter.†	30.22	767.6	53	11.7	73	calm	.....	.....	0	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
S. S. State of California, Portland, Oregon.†	30.41	772.4	37	2.8	?	ne.	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. Victoria, San Francisco, Cal.†	29.92	760.0	52	11.1	93	calm	.....	.....	0	.....	0	.....	.....	0	0	sm'h	.....	clear.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. City of New York, S. 33° 50′, W. 158° —′†	30.31	769.9	70	21 1	85	sse.	.....	.....	3	.....	1	.....	se.	0	0	light	se.	clear.
S. S. City of Pekin, N. 38° 13′, W. 136° 51′†	30.28	769.1	57	13.9	100	sse.	.....	.....	4	.....	8	.....	sse.	.....	.....	sm'h	.....	misty.
S. S. City of Sydney, N. 6° 59′, W. 163° 26′†	29.87	758.7	80	26.7	82	ene.	.....	.....	5	.....	5	.....	se.	.....	.....	mod	ne.	drizzling.
S. S. City of Tokio, Hong Kong, China†	29.86	758.4	78	25.6	86	ne.	.....	.....	2	.....	10	.....	e.	6 h'r	6 h'r	.....	.....	fair.
S. S. Colima, N. 7° 59′, W. 83° 30′†	29.89	759.2	81	27.2	78	se.	.....	.....	3	.....	5	.....	ese.	0.16	4.1	small	sse.	fair.
S. S. Colon, N. 17° 00′, W. 75° 00′†	30.01	762.2	81	27.2	.....	ne.	.....	.....	2	.....	3	.....	ne.	0	0	small	ne.	fair.
S. S. Granada, Acapulco, Mexico†	29.93	760.2	78	25.6	100	sw.	.....	.....	1	.....	2	.....	w.	0	0	.....	.....	clear.
S. S. South Carolina, Panama, Panama†	29.97	761.2	84	28.9	75	sw.	.....	.....	2	.....	5	.....	s.	1 h'r	1 h'r	sm'h	.....	
S. S. Zelandia, Sydney, N. S. W.	30.37	771.4	64	17.8	78	calm	.....	.....	0	.....	10	.....	se.	.....	.....	.....	.....	
QUEBEC S. S. COMPANY.																		
S. S. Muriel, N. 19° 14′, W. 63° 33′	29.96	761.0	80	26.7	.....	se.	.....	.....	3	.....	0	.....	.....	0	0	mod.	se.	fair.
S. S. Bermuda, N. 35° 43′, W. 72° 45′†	30.20	767.1	45	7.2	.....	n.	.....	.....	5	.....	9	.....	n.	light	light	long	n.	gloomy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
RED STAR LINE.																		
S. S. Belgenland, N. 50° 31′, W. 2° 25′†	30.19	766.8	60	15.6	66	e.			5		1		e.	0	0	sm'h	e.	clear.
S. S. Nederland, N. 39° 49′, W. 57° 56′†	30.11?	764.8?	70	21.1		s.			3		8		ssw.	driz.	driz.	mod	nne.	cloudy.
S. S. Rhynland, Antwerp, Belgium	30.25	768.3	66	18.9	73	ne.			6		3		ne.	0	0			clear.
S. S. Switzerland, N. 39° 08′. W. 66° 56′†	30.11	764.8				nne.			4		10		ene.	0	0	cross	ene.	cloudy.
S. S. Vaderland, N. 42° 21′ W. 41° 28′	30.16	766.1	52	11.1	72	nnw.			3		8		nw.	0	0	mod.	nnw.	cloudy.
S. S. Waesland, Jersey City, N. J	30.31	769.9	49	9.4		n.			5		10		n.	0	0			cloudy.
ROTTERDAM LINE.																		
S. S. Schiedam, N. 48° 54′ W. 30° 04′*	29.73	755.1	52.3	11.3		w.			6		8		w.	5 h'r	5 h'r	high	nw.	hazy.
S. S. W A Scholten, Rotterdam, Holland	30.12	765.0	66	18.9	97	n.			3		8		ne.	0	0			
STATE LINE.																		
S. S. State of Florida, N. 40° 25′, W. 69° 02′	30.21	767.3	44	6.7		nne.			3		10			8 h'r	8 h'r	hv'y	ne.	dense haze.
S. S. State of Georgia, N. 48° 36′, W. 40° 19′†	30.01	762.2	46	7.8		wnw.			8		10		wnw.			r'gh	nw.	cloudy.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 58° 15′, E. 1° 33′†	30.55	776.0	55.4	13.0		calm			0		0			0	0	sm'h	se.	clear.
WARREN LINE.																		
S. S. Iowa, N. 42° 20′ W. 61° 18′*†	30.35	770.9	39	3.9		ene.			5		10		ene.	7 h'r	7 h'r	r'gh	ene.	drizzling.
WHITE STAR LINE.																		
S. S. Adriatic, N. 50° 14′, W. 23° 48′†	29.50	749 3	51.5	10.8	96	s.			6		10		s.	h'vy	h'vy	con.	se.	raining.
S S. Celtic, Off Mine Head, Ireland†	30.13	765.3	62	16.7	61	sse.			3		5		sse.	0	0	sm'h		fair.
S. S. Republic, N. 40° 17′, W. 70° 22′†	30.25	768.3	43	6.1	91	n.			3		8		n.	12 h'r	12 h'r	mod.	ne.	misty.
WILSON LINE.																		
S. S. Otranto, N. 40° 20′, W. 68° 28′†	30.14	765.5	53	11.7		ne.			5		10		ene.			cross	nne.	hazy.
MISCELLANEOUS.																		
Schr. Addie Fuller, Newport News, Va†	30.43	772.9	50	10.0	78	calm			0		6 k		ne.	0	0			fair.
Bk. Adelaide, S. 1° 48′, W. 38° 44′*†	30.02	762.5	84	28.9		ese.			4		2		e.	0	0	light	ese	squally.
Schr. Ajax, Brazos, Texas†	30.00	762.0				se.			3		10		se.	3 h'r	3 h'r			cloudy.
Bk. Alpha, Guanatamo, W. I†	29.94	760.5	72	22.2		nnw.			1		1		ne.	4 h'r	4 h'r			fair.
Schr. Annie Lewis, Aransas Pass, Texas†	30.06	763.5	78	25.6		se.			8		8		se.	0	0	hv'y	se.	cloudy.
Bk. Anna Thormann, N. 20° 39′, W. 31° 53′	30.21	767.3	72.3	22.4	66	ene.			5	4 c		se.		2 h'r	2 h'r	mod.	ne.	fair.
Bk Antioch, S. 40° 38′, E. 139° —′*†	30.32	770.1	57	13.9		nne.			4		2		ne.	0	0	mod.	sw.	fair.
Antonio Lopez, N. 32° 52′. W. 68° 58′*	30.08	764.0	68	20.0	90	nne.			6		10 s			0	0	mod.	nne.	cloudy.
Bk. Aureola. Rio de Janeiro, Brazil*†	30.18	766.6	78	25.6		n.			2		5		nne.	0	0			fair.
Sch'r Annie M. Smull, S. 3° 58′ E. 106° 46′*†	29.90	759.4	89	31.7										3 h'r	3 h'r			
Bk. Bergenseren, N. 36° 08′, W. 8° 20′†	29.97	761.2				sw.			5				wsw.	0	0	5	w.	squally.
S. S. Compton, Cardenas, Cuba, W. I.†	30.10	764.5				ne.			5		5?		ne.	0	0			cloudy.?
Schr. Edith R. Seward, N. 21° 21′, W. 74° 29′*†	30.19	766 8	80	26.7		calm			0		3		ne.	2 h'r	2 h'r	mod.	nne.	clear.
Bk. E. J. Spicer, London, Eng†	30.17	766.3				ese.			6		3		ese.	0	0			
S. S. Essex, N. 38° 15′ W. 68° 30,*†	30.10	764.5	63	17.2		calm			0		5?			driz	driz	hv'y	e.	cloudy.?
Bk. Freya, Dublin, Ireland			57	13.9		ene.			5		2			0	0			fair.
Bk. Godfrey, N. 36° 27′, W. 71° 15′	30.20	767.1	55.9	13.3	88	n.			6		9		n.	0	0	long	nne.	cloudy.
S. Grecian, Anjer, Java*†	29.85	758.2	81	27.2		calm			0		0			0	0			clear.
Bk. Hattie G. McFarland, Boston, Mass*†	30.52	775.2	46	7.8		ne.			6		10		e.	12 h'r	12 h'r			stormy.
Schr. Henry Denison, N. 25° 28′, W. 76° 40′†	30.06	763.5				ne.			4		4		ne.	0	0			fair.
Bk. Johanne, N 51° 35′, W. 12° 05′			57	13.9		se.			2		0			0	0	mod.	se.	clear.
Schr. John L. Thomas, Monkey Point, C. A*†	30.00	762.0				nw.			1		4		nnw.	2½h'r	2½h'r	mod.	e.	fair.
Bkt. Josephine, Guanatamo, Cuba, W. I*†	30.11	764.8	75	23.9	81	nnw.			3		0			5 h'r	5 h'r			hazy.
Bk. Julia H., Havana, Cuba, W. I	30.09	764.3	69.1	20.6	84	calm			0	8 c;k								d clouds.
Bk. Kate Cann, N. 40° 34′. W. 62° 49′*†	29.92?	760.0?				sse.			6				s.	6 h'r	6 h'r	short	sse.	heavy rain.
Bkt. Kryolith, N. 57° 46′, W. 42° 17′*†	29.40	746.7				nw.			6		8		nw.	0	0	mod	wnw.	cloudy.
S. S. Lamperts, N. 12° 54′, E. 48° 47′*	29.72	754 9	85.8	29.9	75	se.			2		0							blue sky.
S S. Laurel, Pensacola Bay, Fla.†	30.24	768.1	71	21.7		ne.			2		2			0	0			clear.
S. S. Malabar, Singapore, India*†	29.86	758.4							3									
Bg. Medina, N. 35° 47′, W. 75° 05†	30.39	771.9				nne.			4		8		nne.			short	nne.	dull.
S. S. Nebo, N. 35° 00′. W 71° 32′*†	30.30	769.6				nnw.			4		2		nnw.	0	0	mod.	nnw.	clear.
S Paramita, S. 15° 46′ W. 33° 57′†	29.96	761.0	80.5	26.9		var.			5		5?		var.	1 h'r	1 h'r	long	s.	clear.?
Bk. Pawashick, N. 30° 40′, W. 57° 12′*†	30.55	776.0	75	23.9	90	e.			6		2		ese.			rg'h	se.	cloudy.
Bk. Peppina, Bordeaux, France†	29.79	756.7	65	18.3	52	se.			4		5?		se.					cloudy.?
S. S. Ponca, St. Thomas Id., W. I†	30.05	763.3	84	28.9		ese.			1		1		ese.	light	light			clear.
Bk. Princessen, N. 42° 28′, W. 42° 30′†	30.45	773.3	52	11.1		nnw.			4		5		nw.	0	0	cross	n.	clearing.
Bk. Rosebud, N. 26° 02′ W. 22° 28′*†	30.10	764.5	70	21.1	79	nw.			2–3		0			0	0	sm'h		fine.
S. Salisbury, S. 41° 03′, E. 13° 02′*.	29.76	755.9	57.2	14.0	89	nw.			6		10		nw.	4 h'r	4 h'r	r'gh	nw.	cloudy.
Bkt. Spotless, S. 22° 40′ W. 39° 35′*†	30.00	762.0				ne.							ne.			mod.	sse.	clear.
Bk. Stella, S. 0° 23′, W. 112° 20′*	29.85	758.2	78.8	26.0	92	ese.			2		0			0	0	sm'h	se.	blue sky
Bk. Truro, N. 44° 25′, W. 20° 20′*†	29.67	753.6				sw.			4		10		sw.	1 h'r	1 h'r	mod.	e.	light rain.
U. S. F. C. S. Fish Hawk, Washington, D. C†	30.47	773.9	57	13.9	81	e.			2		9		s.	0	0			cloudy.
Yacht Vega, Grenada, W. I*†	30.19	766.8	81	27.2		e.			3				ese.	½ h'r	½ h r	long	ese.	
S. S. Victoria J Peed, Barranquilla, U. S. C*†	29.11	739.4				se.			3		2							
Schr. Viola Reppard. N. 35° 20′. W. 75° 15′†	30.06	763.5	48	8.9		ne.			4		4		ne.	0	0	small	n.	fair.
S. Washington, Bremerhaven, Germany*†	30.20	767.1				e.			3		0			0	0			clear.
Bk. Wm. Wilcox, N. 31° 00′, W. 47° 16′*†	30.59?	777.0?	71	21.7		ese.			4		5		se.	0	0	mod.	s.	fair.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 20, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.91	759.7	73.8	23.2	73	w.			2		1			0	0	very fair	Molroud.
Algiers			29.88	759.0	71.2	21.8	64	nw.			2		0			0.110	2.8	clear	Nicolas.
La Calle			29.84	758.0	71.2	21.8	82	wnw.			1		4			0.020	0.5	cloudy	Fonfréde.
Tunis			29.77	756.2															Jacques.
Saida			30.00	762.1															Dumas.
Tebessa			29.90	759.4	65.5	18.6	79	se.			1		1			0	0	very fair	Derché.
Geriville					74.1	23.4	11	w.			5		7			0	0	cloudy	Lonchamp.
Laghouat			29.99	761.7	83.5	28.6	66	s.			1		1			0	0	very fair	Abraham.
Biskra			29.90	759.4	78.4	25.8	41	sse.			1		8			0	0	very cloudy	Malau.
Australian.																			
Melbourne, Victoria	30.30	769.6	30.39	771.9	48.6	9.2	95	wsw.	4	1.8			0			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.42	747.2	29.96	761.0	60.8	16.0	52	sw.			2		8			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.15	740.3	29.91	759.7	55.2	12.9	46	n.	5.6	2.5			8			0.008	0.2		Dr. Wierzbiski.
Eperies	28.97	735.9	29.85	758.2	51.8	11.0	60	n.			2		10 ks		s.	0.004	0.1		Julius Mikolik.
Gratz	28.64	727.5	29.88	758.9	59.2	15.1	68	s.			2		3			0	0		Andreas Rosplut.
Hermannstadt	28.35	720.0	29.77	756.2	52.2	11.2	75	nw.			4		10			0.024	0.6		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.52	724.4	29.84	757.8	59.2	15.1	59	ene.			4		3			0	0	lightly cl'dy	The Staff.
Lemberg	28.82	732.1	29.82	757.3	46.8	8.2	88	n.			3		10			0.299	7.6		Dr. T. Stanecki.
Pola	29.82	757.3	29.93	760.1	63.3	17.4	57	se.			2		8			0	0		I. R. Hydrographic Office.
Szathmar	29.33	745.0	29.79	756.6	54.0	12.2	63	nw.			4		10			0.004	0.1		Joseph Midlinszky, S. J.
Szegedin	29.59	751.5	29.87	758.6	53.2	11.8	74	w.			1		8			0	0		Karl Stancel.
Trieste	29.83	757.7	29.93	760.3	63.7	17.6	39	calm			0		6			0	0		Rieder.
Vienna	29.21	741.8	29.92	759.9	56.3	13.5	46	n.			1		8			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.14	765.5	30.24	768.1	45.0	7.2	88	e.	8	3.6			7			0	0	misty	W. Boswell
Armagh, Observatory	29.75	755.6	29.99	761.7	57.7	14.3	55	sse.	18	8.0			7					d. clouds	S. Gall.
Bidston, Liverpool Obs'y			29.92	760.0	60.8	16.0	72	e.	37	16.5			1					blue sky	John Hartnup.
Bolton, Sharples	29.42	747.3	29.95	760.7	58.8	14.9	41	e.	24	10.7			0					blue sky	Thomas Mackereth.
Bradford, Yorkshire	29.61	752.1	30.01	762.2	59.0	15.0	47	w.			4		5			0	0	d. clouds	[A.S. J. McLandsborough, F. R
Bridgetown, Barbadoes	29.95	760.7	29.98	761.5	83.0	28.3	70	ne.			2		2					d. clouds	Corpl. J. Surgenor, A. H.C.
Cardington			29.89	759.2	60.0	15.6	44	e.			3.0		4					d. clouds	John McLaren.
Chatham, School M. E.	29.76	755.9	29.89	759.2	57.2	14.0	69	n.			3		2					d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.48	748.8	29.70	754.4	57.0	13.9	58	ene.			6		1					misty	The Staff.
Fort Napier, Natal	27.69	703.3	29.91	759.7	72.8	22.7	39	nw.			5		8					overcast	Pvt. E. K. Annis, A.H.C.
Free Town, Sierra Leone	29.68	753.9	29.91	759.7	88.0	31.1	72	sw.			1		0					blue sky	Sergt. John Robinson.
Gibraltar, Mediterranean	29.87	758.7	29.92	760.0	67.4	19.7	78	sw.			3		7					gloomy	Cpl. O. Baldwin.
Glasgow, Observatory	29.89	759.2	30.10	764.5	54.9	12.7	54	e.			6							squally	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.70	754.4	29.86	758.4	62.3	16.8	50	e.			5		1					blue sky	The Staff.
Guernsey	29.40	746.7	29.69	754.1	60.0	15.6	70	e.			2		0					blue sky	A. Collenette, F. M. S.
Kew, Observatory	29.84	757.9	29.87	758.7	59.2	15.1	39	e.	35	15.6			4					d. clouds	The Staff.
Leicester, Museum	29.67	753.6	29.92	760.0	60.1	15.6	48	e.			3		5					d clouds	J. C. Smith.
Malta, Mediterranean	29.82	757.4	29.90	759.4	72.0	22.2	67	sw.			3		8					overcast	I. H. Whysall.
Nassau, Bahamas	30.15	765.8	30.20	767.1	74.0	23.3	68	ne.			2		7					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.39	746.5	29.90	759.4	61.9	16.6	57	ene.			5		5					d clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.65	753.1	29.87	758.7	60.5	15.8	48	ene.			5		6					squally	The Staff.
Plymouth	29.66	753.4	29.73	755.1	61.2	16.2	44	e.			6		0					blue sky	John Merrifield.
Sandwick Manse, Orkneys			30.25	768.3	60.2	15.7	61	ese.	20	8.9			0					blue sky	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.74	755.4	29.80	756.9	70.4	21.3	56	s.			1		8			inap.	inap.	d. clouds	W. H. Lyne.
Sheffield	29.74	755.4	30.02	762.5	59.0	15.0	94	ene.			5		1			0	0	blue sky	W. F. Cooper.
Stilloth Rectory	29.99	761.7	30.02	762.5	60.0	15.6	57	ese.			5		0			0	0	blue sky	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.98	761.5	59.0	15.0	44	e.	29	13.0			0					blue sky	J. New.
Stratfield Turgiss	29.64	752.8	29.85	758.2	63.1	17.3	44	ne.			3-4		2					squally	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.69	754.1	29.70	754.4	63	17.2	52	e.			7		0					blue sky	W. Newcombe.
Valencia, Observatory	29.71	754.6	29.73	755.1	62.2	16.8	46	e.	39	17.4			6					misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.99	761.7	30.03	762.7	44	6.7	99	e.	4	1.8			10 n			0.660	16.8	light rain	H. J. Cundall, C. E.
Chatham, N. B*	30.02	762.5	30.08	764.0	38	3.3	96	n.	12	5.4			10 n		n.	0.63	16.0	cloudy	G. A. Blair.
Father Point, Quebec*	30.12	765.0	30.14	765.5	42	5.6	79	ne.	22	9.8			10 n		calm	inap.	inap.	light rain	J. McWilliams.
Fort Garry, Manitoba*	28.82	732.0	29.64	752.8	40	4.4	79	w.	15	6.7		0	0			0.41	10.4	clear	
Halifax, N. S*	29.84	757.9	29.97	761.2	46	7.8	100	se.	6	2.7			fg			1.11	28.2	foggy	A. Allison.
Kingston, Ontario*	29.80	756.9	30.13	765.3	54	12.2	66	ne.	5	2.2		5 ck	0	nw.		0	0	hazy	A. P. Knight, M. A.
Montreal, Quebec*	29.89	759.2	30.10	764.5	51	10.6	57	n.	5	2.2			10 s			0.05	1.3	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.46	748.3	30.16	766.1	47	8.3	77	ne.	2	0.9		0	0			0	0	clear	Rev. R. Mosley.
Port Dover, Ontario	29.44	747.8	30.14	765.5	47	8.3	86	ne.	11	4.9		0	0			0	0	clear	H. Morgan.
Port Stanley, Ontario	29.48	748.8	30.13	765.3	47	8.3	77	e.	5	2.2		0	0			0	0	clear	M. Payne.
Quebec, Quebec*	29.79	756.7	30.11	764.8	48	8.9	74	ne.			5	2 c	2 s	e.	e.	0.01	0.3	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.71	754.6	30.17	766.3	46	7.8	68	calm	0	0			sk.			0	0	dense smoke	W. H. McIntyre.
Saugeen, Ontario*	29.41	747.0	30.12	765.0	52	11.1	64	se.	1	0.4		0	0			0	0	clear	
St. Andrews, N. B	29.88	758.9	29.93	760.2	43	6.1	83	ne.	5	2.2			10 n			0.04	1.0	cloudy	
Sydney, C. B*	30.16	766.1	30.23	767.8	36	2.2	96	n.	5	2.2			10 n			0.44	11.2	cloudy	T. C. Hill, C. E
Toronto, Ontario*	29.78	756.4	30.17	766.3	51	10.6	64	n.	5	2.2		0	0			0	0	clear	Magnetic Observatory.
Yarmouth, N. S*	29.81	757.2	29.89	759.2	46	7.8	86	n.	2	0.9		8 k	0	se.		0	0	cloudy	Lt. F. E. Wilmot, R. N
Sub-series.																			
St. Johns, Newfoundland	30.19	766.8	30.44	773.2	60?	15.6?	49	sw.				2 k	2 s			0	0	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	29.90	759.4	29.93	760.2	75.0	23.9	74	calm	4.3	1.9		0	2 k			0	0		John Duthie.
Cape Town, C. G. H. Obs'y	30.00	762.0	30.04	763.0	62.2	16.8	72	nnw.	13	5.8		8	8			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observer.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
Chinese (*Sub-series*).																			
Hankow	29.67	753.6	29.94	760.5	65.6	18.7	69	nw.			2		3			0.03	0.8		N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.65	753.1	29.68	753.8	62.6	17.0	95	se.	13.4	6.0			10 n			0.224	5.7	raining	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	30.09	764.3	30.14	765.5	53.2	11.8	49	se.	9	4			8						Oversergent Fischer.
Fanöe	30.02	762.6	30.04	763.1	57.0	13.9	82	sse.			4		8						Overloerer Lauridsen.
Godthaab, Greenland	29.92	760.0	29.97	761.1	31.8	— 0.1	67	ene.			4		0			0	0		S. Kleinschmidt.
Stykkisholm, Iceland	30.11	764.7	30.15	765.8	55.0	12.8	80	calm			0		8						A. O. Thorlacius.
Thorshavn	30.36	771.2	30.40	772.1	54.0	12.2	66	ene.	9	4			0						Overloerer Bergh.
Vestervig	30.02	762.6	30.11	764.9	64.0	17.8	57	se.			6		2						Loerrer Oesterboi.
French.																			
Agen, Normal School	29.06	738.2	29.69	754.2	68.4	20.2	74	sse.			1		n;kn		sw.	0.150	3.8		M. Labroue, Director.
Alençon, Normal School	29.18	741.1	29.73	755.1	61.9	16.6	75	se.			2		kn		e.	0	0		M. Nicot, Director.
Arras, Engineer School	29.57	751.1	29.82	757.5	63.5	17.5	36	se.			2		k		s.	0	0		M. Fénéon, Command't.
Avignon, Normal School	29.77	756.2	29.85	758.2	59.0	15	72	e.			2		10			0.098	2.5	light rain	M. Giraud, Director.
Bar-sur-Seine	29.25	743.0	29.80	756.8	60.8	16.0	50	se.			1		9			0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.53	750.1	29.79	756.7	62.4	16.9	35	e.			2		2		e.	0	0	slightly cl'dy	M. Frère Eugène Marl.
Besançon, Normal School	28.86	733.1	29.74	755.3	64.0	17.8	57	nne.			1		2		sw.			raining	M. Gobin, Director.
Bordeaux, Observatory	29.42	747.2	29.67	753.6	62.1	16.7	78	se.			1		10			0.209	5.3	covered	M. Rayet, Director.
Bourges, Normal School	29.21	741.8	29.75	755.7	54.5	12.5	72	ese.			2		n		ese.	0	0		M. Postel, Director.
Brest, Naval Observatory	29.40	746.8	29.65	753.0	62.0	17	58	ese.			2		9		ese.	0	0	stormy	M. de Kermaree, Dir.
Caen, Normal School	29.65	753.0	29.72	754.8	68.0	20	40	e.			3		0			0	0	clear	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.43	747.6	29.74	755.5	65.8	18.8	56	sse.			1		2			0	0	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.31	744.4	29.80	756.9	63.0	17.2	44	se.			1		2			0	0	¼ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.39	721.1	29.71	754.7	61.5	16.4	60	sse.			2		10		sse.	0.256	6.5	covered	M. Alluard, Director.
Cluny, Normal School	28.95	735.2	29.77	756.1	53.8	12.1	74	sw.			2		7		n.	0.20	5.		M. de Villemontée, Dir.
Commercy, Normal School	28.97	735.7	29.82	757.4	65.3	18.5	31	e.			1		2 ks	e.	e.	0	0	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.36	695.0	29.91	759.6	50.0	10	74						kn			0.067	1.7		M. Jeangirard, Director.
Gréasque, du Rhone	28.74	730.0	29.86	758.4	57.0	13.9	66	se.			2		10		se.	0.024	0.6		M. Kina, Director.
Grenoble, Normal School	29.11	739.5	29.87	758.8	59.0	15	52	ssw.			1		10			0	0	covered	M. Ablard, Director.
Guéret, Normal School	28.15	715.0	29.70	754.3	56.1	13.4	79	sw.			1		10 n			0.370	9.4	covered	M. Rivoire, Director.
Lamballe, Normal School	29.36	745.8	29.63	752.5	60.1	15.6	64	se.			4		10		se.			raining	M. Ollitrault, Director.
Lescar, Normal School	29.11	739.4	29.66	753.4	69.8	21	49	s.			1		2			0.051	1.3	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	29.50	749.2	29.60	751.8	59.0	15	60	e.			3		10		se.	0	0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.80	731.5	29.86	758.4	50.9	10.5	86	sse.			1		10		sw.	0.067	1.7	raining	M. André, Director.
Mans, Normal School	29.43	747.6	29.74	755.3	62.2	16.8	47	ese.			6		5		se.	0	0	cloudy	M. Piboen, Director.
Marseille, Observatory	29.57	751.0	29.84	757.8	59.5	15.3	69	ese.			4		10		ssw.	0.055	1.4		M. Stephan, Director.
Montlouis	24.61	625.0	29.45	748.0	49.5	9.7	68	sw.	20.6	9.2			7		w.	0.236	6.0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.69	754.1	29.82	757.3	52.5	11.4	100	ne.			2		10			0.24	6.	raining	M. Galzin, Director.
Nancy, Normal School	29.03	737.4	29.80	756.8	63.7	17.6	35	nne.			1					0	0		M. Hasse, Director
Nantes. Observatory	29.51	749.6	29.67	753.7	57.6	14.2	76	ese.			1-3		10 n		sse.			rainy	M. Larocque, Director.
Perpignan, Observatory	29.59	751.5	29.69	754.2	76.3	24.6	43	sw.	16.8	7.5			9	w.	s;nw	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.00	533.4			31.8	— 0.1		sw.			1		10		sw.	0.024	0.6	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.78	731.1	29.85	758.1	53.6	12	76	s.			1		cn	s.	s.	0	0	covered	M. Tallieu.
Puy de Dôme Obs'y, Summit	24.90	632.5			39.6	4.2	99	sw.			3		10			0.201	5.1	sprinkling	M. Alluard, Director.
Rochefort, Naval Obs'y	29.57	751.0	29.60	751.8	65.1	18.4	90	ssw.			2		8			0.063	1.6	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.40	746.8	29.62	752.3	56.5	13.6	95	se.			1		5		sw.	0.138	3.5	cloudy	M. Mouillot, Director.
Rodez, Normal School	27.63	701.8	29.74	755.3	55.8	13.2	78	e.			3		2		s.	0	0	slightly cl'dy	M. Serger, Director.
Rouen, Normal School	29.70	754.3	29.74	755.5	64.4	18	37	e.			3		0			0	0	clear	M. Brotier.
Saint Maur, Observatory	29.60	751.8	29.76	756.0	67.8	19.9	39	sse.			2		2	w.	se.	0	0		M. Renou, Director.
Toulouse, Observatory	29.03	737.3	29.74	755.4	70.2	21.2	58	ese.			2		2	s.		0	0	slightly cl'dy	M. Baillaud, Director.
Tours	29.51	749.6	29.69	754.0	61.2	16.2	67	ese.			2		10		se.			sprinkling	
Versailles, Observatory	29.27	743.4	29.76	755.9	64.0	17.8	36	se.			4					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.48	748.7	29.77	756.1	66.7	19.3	38	ese.			2		3	w.		0	0		M. Marié Davy, Director
German.																			
Bamberg	29.08	738.7	29.93	760.3	55.4	13.0	42	se.			6	0	4 ks		e.	0	0		Prof. Dr. Hoh.
Berlin	29.84	757.9	30.01	762.3	60.3	15.7	32	n.			4		7			0	0		Prof. Dr. Arndt.
Breslau	29.48	748.8	30.01	762.3	57.4	14.1	34	ne.			2		8			0	0		Royal University Obs'y.
Carlsruhe	29.42	747.3	29.85	758.3	60.1	15.6	43	ene.			2		1	s.		0	0		Albert Senz.
Cassel	29.22	742.3	29.94	760.4	63.0	17.2	35	se.			4		5	e.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.57	751.1	29.93	760.3	61.0	16.1	30	ene.			3		8			0	0		Physical Society.
Friedrichshafen	28.37	720.7	29.78	756.4	60.4	15.8	39	ne.			5		2	ne.		0	0		Wilhelm, Chief Tel.
Hamburg	29.98	761.6	30.08	764.0	56.8	13.8	40	e.			4		3	ne.		0	0		E. Preller.
Kiel	30.08	764.1	30.10	764.5	53.8	12.1	35	e.			1		2			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.60	751.9	30.02	762.6	58.5	14.7	39	e.			2		4	e.		0	0		H. Leppig, Asst.
Magdeburg	29.82	757.4	30.01	762.2	59.7	15.4	40	ene.			1	0	6 ks;k		ene.	0	0		Dr. Assmann.
Memel	30.06	763.5	30.10	764.6	53.6	12.0	68	e.			1		10 ks						Issermann.
Munich	28.03	711.9	29.88	758.9	56.3	13.5	40	n.			2		3	ne.		0	0		Central Station.
Neufahrwasser	30.08	763.9	30.09	764.3	49.3	9.6	71	n.			1		10			0	0		A. Lothes.
Neustadt, Palatinate	29.33	745.0	29.85	758.2	60.4	15.8	40	e.			4		4	e.		0	0		Dicknether.
Stuttgart	28.91	734.2	29.78	756.5	58.6	14.8	36	e.			1		3	e.		0	0		Prof. Dr. Schoder.
Wustrow	30.10	764.5	30.13	765.2	53.4	11.9	52	ne.			3		10 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.52	749.7			70.0	21.1		sw.			5.0		8			inap.	inap.	misty	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.69	754.1	29.74	755.4	85.8	29.9	80	wsw.	33.0	14.8			1			0	0	d. clouds	
Deesa	29.13	739.8	29.58	751.2	103.7	39.8	18	w.	12.2	5.4			0			0	0	blue sky	
Bombay	29.66	753.3	29.70	754.3	85.7	29.8	73	wnw.	19.0	8.5			10	wnw.	nw.	0	0	overcast	
Poona, Yarrowda	27.78	705.7	29.58	751.4	91.0	32.8	47	w.	28.0	12.5			9	wsw.	wsw.	0	0	gloomy	
Bellary	28.18	715.6	29.60	751.9	91.0	32.8	44	w.	5.0	2.2			9			0	0	gloomy	
Belgaum	27.26	692.4	29.80	756.9	74.8	23.8	84	w.	12.0	5.4			10			0.25	6.4	thund'r st'm	
Lahore	28.87	733.4	29.59	751.6	96.0	35.6	23	nw.	3.2	1.4			0			0	0	blue sky	
Roorkee	28.63	727.2	29.49	749.1	97.7	36.5	16	nw.	1.9	0.8			1			0	0		
Agra	29.00	736.6	29.54	750.3	100.6	38.1	23	nw.	5.6	2.5			2		nw.	0	0		
Nagpur	28.52	724.4	29.53	750.0	94.7	34.8	30	n.	4.5	2.0			9		nw.			drizzling	
Jubbulpore	28.25	717.5	29.54	750.3	101.4	38.6	15	n.	3.3	1.5			2			0	0	d. clouds	
Lucknow	29.14	740.1	29.50	749.2	102.4	39.1	15	wnw.	2.5	1.1			5	ne.		0	0	d. clouds	
Allahabad	29.20	741.6	29.49	749.1	102.7	39.3	17	nw.	2.5	1.1			0			0	0	blue sky	
Patna	29.35	745.6	29.53	750.0	100.5	38.1	34	wnw.	3.9	1.7			0			0	0	blue sky	
Hazaribagh	27.65	702.3	29.59	751.6	92.6	33.7	24	nw.	8.5	3.8			0			0	0	misty	
Cuttack	29.51	749.5	29.59	751.5	92.1	33.4	52	s.	0.5	0.2			2			0	0	d. clouds	
Calcutta, Alipore	29.54	750.2	29.56	750.7	88.5	31.4	64	ssw.	9.0	4.0			0			0	0	blue sky	
Dhubri	29.41	747.0	29.53	750.0	87.6	30.9	67	ssw.	3.9	1.7			3			0	0	d. clouds	
Chittagong	29.54	750.2	29.62	752.5	84.9	29.4	75	w.	3.0	1.3			2			0	0	blue sky	
Sibsagar	29.27	743.4	29.60	751.8	84.9	29.4	72	ne.	1.7	0.8			6	sw.	sw.	0	0	d. clouds	
Jeypore	28.19	715.9	29.58	751.2	95.9	35.5	32	wsw.	5.5	2.5			6		w.	0.03	0.8	d. clouds	
Zanzibar, Africa	30.02	762.5			79.5	26.4	71	s.	9.1	4.1			8		s.	0.05	1.3	gloomy	
Italian.																			
Udine	29.51	749.5	29.91	759.8	63.9	17.7	62	sw.	3.8	1.7			10			0	0		Prof. Giovanni Clodig.
Milan	29.39	746.4	29.90	759.4	65.8	18.8	34	se.	4.9	2.2			7	nw.		0	0		Prof. Schiaparelli.
Padua	29.80	756.8	29.91	759.6	59.9	15.5	54	ssw.	5.6	2.5			10	w.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.99	736.3	29.89	759.1	63.5	17.5	34	s.	3.8	1.7			8			0	0		Prof. P. F. Denza.
Genoa	29.71	754.7	29.91	759.6	59.9	15.5	54	sw.	3.8	1.7			10	se.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.00	711.1	29.93	760.1	56.1	13.4	51	w.			2		9			0	0		Prof. D. O. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	29.84	758.0	29.89	759.2	60.4	15.8	46	se.	4.9	2.2			10			0	0		Prof. Luigi Guidi.
Florence	29.63	752.5	29.88	758.9	64.9	18.3	46	e.			2		10			0	0		Prof. Costantino Pitter.
Leghorn	29.74	755.3	29.82	757.5	61.2	16.2	52	se.	3.8	1.7			10	se.		0	0		Prof. P. Monte.
Rome	29.67	753.7	29.85	758.1	55.0	12.8	82	nne.	12.5	5.6			10			0.146	3.7		Prof. P. S. Ferrari.
Lecce	29.72	754.8	29.97	761.1	62.6	17.0	50	se.	10.5	4.7			10			0	0		Prof. O. de Giorgi.
Cosenza	29.07	738.4	29.95	760.6	60.8	16.0	73	nne.	1.3	0.6			10			0.315	8.0		Prof. D. Conti.
Cagliari	29.56	750.7	29.74	755.5	72.0	22.2	72	s.			2		5	w.		0	0		Prof. A. Pacinotti.
Palermo	29.61	752.1	29.86	758.4	65.1	18.4	43	w.	3.8	1.7			10			0.075	1.9		Prof. G. Ciacciatore.
Syracuse	29.88	759.0	29.93	760.1	66.0	18.9	69	ese.	17.4	7.8			10	se.		0.035	0.9		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.37	745.9	29.89	759.2	59.5	15.3	73	se.	3.8	1.7			10	se.		0.020	0.5		Prof. T. Brioschi.
Stelvio	21.99	558.4			37.6	3.1	46	sw.			2		7			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.04	559.8			35.6	2.0	70	e.			2		10			0	0	covered	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.88	758.9	29.92	759.9	56.3	13.4	91	n.	0.3	0.1			10 s			0	0	overcast	K. Ogawa.
Hakodate	29.89	759.2	29.90	759.4	54.8	12.7	89	ese.	4.8	2.1			10			0.022	0.6	covered	
Hiroshima, I. M. Obs'y	29.72	754.9	29.73	755.1	67.3	19.6	78	wsw.	1.1	0.5		10 ck	0			0.520	13.2	gloomy	J. Sogawa.
Kanazawa	29.70	754.4	29.80	756.9	61.1	16.2	87	se.	9.3	4.2		2ck;cs	0			inap.	inap.	fair	S. Endo.
Kioto	29.60	751.8	29.77	756.1	69.3	20.7	64	s.	2.3	1.0			10 s			inap.	inap.	cloudy	M. Tojima.
Kochi	29.79	756.6	29.81	757.2	68.4	20.2	82	ssw.	3.8	1.7			10 s			0.460	11.7	cloudy	K. Kusunose.
Nagasaki, I. M. Obs'y	29.58	751.3	29.78	756.4	65.4	18.6	86	se.	2.0	0.9			10 n			2.040	51.8	light rain	S. Takehayashi.
Niigata	29.79	756.6	29.83	757.7	59.1	15.1	90	ene.	6.4	2.9		1 ck	2 s			0	0	fair	M. Morita.
Nobiru	29.82	757.4	29.84	757.9	60.3	15.7	92	nnw.	2.2	1.0		0	4 s			0.005	0.1	fair	H. Midzushina.
Sapporo					53.8	12.1	93	calm	0	0			10			0	0	covered	
Tokei Obs'y, Yeddo	29.76	755.9	29.83	757.7	66.7	19.3	91	se.	4.9	2.2		0	1 s			0	0	clear	The Staff.
Wakayama	29.73	755.1	29.78	756.4	68.3	20.2	76	calm	0	0			10 s			0.016	0.4	cloudy	Y. Kuwamuea.
MAURITIUS																			
Mauritius Observatory	29.93	760.2	30.12	765.0	77.6	25.3	64	e.	18.0	8.0		0	2 k;ks		ese.	0	0	clear	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.72	602.4	29.94	760.4	58.8	14.9	96	calm	0	0		10 cs	0			0	0	covered	Prof. Vicente Fernandez.
Leon	24.29	617.0	29.92	760.0	59.4	15.2	86	nnw.			1	10 c	0	sw.		0.158	4.0	covered	Prof. M. Leal.
Mazatlan	29.71	754.6	29.97	761.1	73.0	22.8	93	ne.	0.9	0.4		c	10 n		sw.			foggy	F. Quijano, C. E.
Mexico, Central Obs'y	23.09	586.5	30.10	764.5	55.4	13.0	83	calm	0	0		0	8 k		w.	0.032	0.8	cloudy	The Staff.
Morelia	24.17	614.0	30.21	767.4	63.0	17.2	62	se.			1	2	2	s.	s.	0	0	½ clouded	M. Tena, M. D.
Pabellon, Aguascalientes	23.94	608.1	29.91	759.7	61.9	16.6	84	n.			1		10 k		ssw.	0.060	1.5	covered	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.41	594.5	30.10	764.6	55.4	13.0	87	calm	0	0			10		s.	0	0	covered	Prof. P. Spina.
San Luis Potosi	24.18	614.1	30.18	766.6	59.4	15.2	77	n.			1		10		e.	0.138	3.5	cloudy	G. Barroeta, M. D.
Zacatecas	22.56	572.9	30.15	765.9	53.1	11.7	90					10	0			0.298	7.6	gloomy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.93	760.1	29.93	760.1	61.0	16.1		ese.			4					0	0		
Groningen	29.98	761.6	30.04	763.0	58.1	14.5		e.								0	0		
Helder	30.02	762.6	30.02	762.6	55.0	12.8		ene.			4					0	0		
Hellevoetsluis	29.94	760.5	29.94	760.5	59.9	15.5	46	e.			5					0	0		
Utrecht	29.92	759.9	29.97	761.1	61.7	16.5	38	e.			4		2			0	0	lightly cl'dy	H. van der Brink.
NORWEGIAN.																			
Bergen	30.15	765.8	30.21	767.4	42.3	5.7	35	w.	9	4			0			0	0		
Brono	30.43	772.9	30.47	773.9	51.8	11.0	79	n.	18	8			5			0	0		
Christiania	30.10	764.5	30.24	768.1	67.5	19.7	39	e.	18	8			7			0	0		
Gjessvær	30.21	767.2	30.23	767.8	39.6	4.2		nne.			2		10						
Lodingen	30.39	771.8	30.43	773.0	45.5	7.5	81	wsw.			4-6		10			0	0		
PORTUGUESE.																			
Angra, Azores					57.2	14.0	74	nw.	15.4	6.9			6			0.118	3.0		Dr. J. A. Sampaio.
Campo Major	28.76	730.6	29.76	756.0	55.4	13.0	98	ssw.	5.6	2.5			10			1.079	27.4		Dr. A. M. R. dos Santos.
Funchal, Maderia	29.84	757.9	29.93	760.1	64.8	18.2	75	s.					6			0.220	5.6		Capt. D. A. de Cunha.
Lisbon, Observatory	29.36	745.7	29.72	754.8	61.5	16.4	82	ssw.	22.4	10.0			10			0.228	5.8	raining	The Staff.
Ponta Delgada, Azores	29.76	756.0	29.84	757.8	57.9	14.4	74	w.	21.7	9.7			10			0.114	2.9	raining	
Saint Paul de Loanda	29.78	756.5	29.98	761.6	70.6	24.8	92	wsw.	1.3	0.6			5	s.		0	0	foggy	
Serra da Estrella	25.00	634.9	29.74	755.4	42.3	5.7	90	se.	20.6	9.2			10			0.496	12.6	rain and fog	
RUSSIAN.																			
Akmolinski	28.63	727.3	29.71	754.5	50.4	10.2	86	ne.	18	8			10 n			0.024	0.6		Major K. Lasarew.
Archangel	30.23	767.9	30.25	768.4	44.8	7.1	73	wnw.	18	8			9 ks			0	0		Capt. Sselliwerstow.
Astrakhan	29.78	756.3	29.69	754.2	84.4	29.1	30	se.	7	3		0	1 ks			0	0		Capt. Wisganow.
Barnaul	29.19	741.5	29.68	753.9	57.4	14.1	94	nw.	0	0			10			0.051	1.3		Meteorological Obs'y.
Dorpat	29.95	760.8	30.19	766.9	63.7	17.6	36	ene.	16	7		2 c	0			0	0		Observatory.
Ekaterinburg	29.03	737.4	29.98	761.5	58.1	14.5	40	w.	4	2		0	5 ks;k			0	0		Meteorological Obs'y.
Kasan	29.79	756.7	30.06	763.6	55.2	12.9	55	nnw.	2	1			10			inap.	inap.		Observatory.
Kertch	29.72	754.9	29.74	755.4	60.6	15.9	77	sse.	4	2			9 n			0.012	0.3		Lagorio & Sastyrex.
Kieff	28.96	735.5	29.57	751.0	64.2	17.9	81	e.	11	5			10ks;n			0.213	5.4		Observatory.
Lugan	29.38	746.2	29.57	751.1	81.5	27.5	35	sse.	13	6			7			0	0		Meteorological Obs'y
Moscow	29.49	749.1	29.96	760.9	61.7	16.5	65	nnw.	4	2			7 ks						Meteorological Obs'y.
Nikolaiev	29.68	753.9	29.75	755.7	66.0	19.2	43	sw.	18	8		0	2 k			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.80	756.9	29.89	759.1	47.3	8.5	60	se.	18	8			10			0	0		Lieut. Iwanow.
Pekin, China	29.50	749.4	29.65	753.0	60.4	15.8	34	nw.	4	2		0	2 k			0	0		Physical Observatory
St. Petersburg	30.25	768.4	30.27	768.8	61.7	16.5	26	ene.	9	4		0	0			0	0		Central Physical Obs'y.
Semipalatinsk	28.99	736.3	29.61	752.0	74.1	23.4	44	nne.	4	2			10 k			0	0		Major Lasareu.
Tashkend, Laboritory	28.24	717.2	29.72	755.0	77.9	25.5	43	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.25	717.6	29.63	752.6	64.6	18.1	64	nw.	18	8			10			0	0		Physical Observatory
Vladivostock	29.70	754.3	29.76	756.0	43.9	6.6	84	ssw.	7	3		0	3 s			0.098	2.5		
Warsaw	29.52	749.9	29.94	760.5	56.8	13.8	46	nne.	13	6			9 ks						Astronomical Obs'y.
Wilna	29.57	751.0	29.99	761.7	50.7	10.4	94	nne.	7	3			10			0.146	3.7	heavy clouds	Berg, Assistant.
Yeniseisk																			M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.67	753.7	29.78	756.3	68.7	20.4	66	sw.	4.5	2.0			6			0.331	8.4	clearing	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.60	751.8	29.66	753.3	76.1	24.5	45	nw.	3.1	1.4		6	4	nw.		0.008	0.2	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.78	680.2	29.70	754.4	57.2	14.0	75	s.	9.4	4.2		1	8	ne.		0.366	9.3	almost cov'd	Domingo Martin.
Madrid, Royal Obs'y	27.56	700.0	29.75	755.6	61.3	16.3	63	sw.	19.9	8.9		0	8			0.575	14.6	rainy	The Staff.
Murcia, Met. Obs'y	29.69	754.1	29.84	757.9	70.3	21.3	67	ssw.	4.9	2.2		3	3	e.		0	0	cloudy	Olayo Diaz, Director.
Santiago, Met. Obs'y	28.65	727.8	29.53	750.1	57.2	14.0	87	s.	13.6	6.1			9			0.358	9.1	almost cov'd	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	30.04	763.0	30.10	764.6	74.6	23.7	71	e.	4.5	2.0		0	1 k		e.	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.71	754.6	29.76	756.0	86.3	30.2	72	wsw.	4.4	2.0		0	k			0	0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.82	757.3	29.91	759.8	63.0	17.2	85	sw.	6.3	2.8			10		s.	0.447	11.4		Capt. C. Pujazou, R. N.
San Juan de Porto Rico, W. I	29.97	761.2	30.06	763.5	82.4	28.0		se.	6.3	2.8		2 cs	2 k	se.	se.	0	0		Manuel Maese.
Tuguegarao, Philippine Id's	29.63	752.6	29.76	755.9	81.8	27.7	83	nnw.	4.7	2.1		0	7 kn		w.	0.02	0.5	cloudy	José L. Yrastorza.
SWEDISH																			
Haparanda	30.38	771.6	30.42	772.6	59.4	15.2	41	n.			2		2			0	0		
Umea	30.37	771.5	30.43	772.8	61.5	16.4	36	e.			4		5			0	0		
Hernosand	30.39	772.0	30.45	773.3	55.0	12.8	68	e.			2		2			0	0		
Stockholm	30.12	765.0	30.30	769.5	55.8	13.2	28	ene.			6		0			0	0		
Wisby	30.13	765.3	30.19	766.8	53.2	11.8	51	e.			4		7			0	0		
Sub-series.																			
Upsala	30.19	766.8	30.23	769.0	60.6	15.9	45	ne.	13.9	6.2			5		e.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.42	721.9	29.84	757.9	57.6	14.2	46	ne.			2					0	0	covered	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Velocity. Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
TURKISH.																			
Constantinople			29.79	756.7	66.6	19.2	52	wsw.	7	3.0			7		sw.	0.118	3.0		The Observatory.
Valona			29.98	761.5	61.2	16.2		nw.			1		10			0	0	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.93	760.2	77.9	25.5	59	sw.			3	0	1 s		sw.	0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.04	763.0	30.12	765.0	53	11.7	64	n.	3	1.3			10 s		nw.	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.43	747.5	30.09	764.3	47	8.3	86	se.	6	2.7		0	0			0	0	clear	Jas. J. Fitzgerald.
Atlanta, Georgia	29.06	738.1	30.23	767.8	62.0	16.7	67	s.	7	3.1		4 k	6 s	calm	calm	0	0	cloudy	H. Hall.
Atlantic City, New Jersey	30.11	764.8	30.12	765.0	51	10.6	88	s.	5	2.2		4 ck	5 s	e.		0.04	1.0	cloudy	Jas. M. Watson.
Augusta, Georgia	30.08	764.0	30.27	768.8	60	15.6	78	calm	0	0		6 ck	0			0	0	fair	John Healy.
Baltimore, Maryland	30.10	764.5	30.15	765.8	55	12.8	86	s.	3	1.3		0	8 ks;hz		w.	0.15	3.8	fair	Robert Seyboth.
Barnegat, New Jersey	30.11	764.8	30.13	765.3	54.6	12.6	75	sw.	13	5.8		0	8 k		w.	0	0	cloudy	Chas. F. Merritt.
Bismarck, Dakota	27.98	710.7	29.76	755.9	39	3.9	73	w.	22	9.8		8 k	0	w.		0	0	cloudy	Cyrus Cramer.
Boise City, Idaho	27.44	697.0	30.28	769.1	44	6.7	68	n.	2	0.9		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.88	758.9	30.04	763.0	46.0	7.8	83	w.	4	1.8			10 s			0.02	0.5	cloudy	O. B. Cole.
Brownsville, Texas	29.84	757.9	29.88	758.9	77	25.0	90	se.	6	2.7		10 ck	0			0.03	0.8	cloudy	M. McCarty.
Buffalo, New York	29.37	746.0	30.11	764.8	50.3	10.2	70	ne.	6	2.7		0	hz.			0	0	clear	Wm. Finn.
Burlington, Vermont	29.80	756.9	30.09	764.3	47.0	8.3	77	calm	0	0			10 s		n.	0.01	0.3	cloudy	G. C. Schneffer.
Cairo, Illinois	29.66	753.4	30.06	763.5	66.6	19.2	75	sw.	12	5.4			10 s		sw.	0	0	cloudy	W. H. Ray.
Campo, California	27.33	694.2	29.86	758.4	39	3.9	65	e.	3	1.3		0	0			0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.16	689.9	29.83	757.7	56	13.3	42	se.			1	0	0			0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.15	765.8	30.17	766.3	57	13.9	74	s.	12	5.4		6 ck	0	sw.		0	0	fair	J. E. Lanouette.
Cape May, New Jersey	30.12	765.0	30.15	765.8	53	11.7	86	se.	6	2.7			10 s		sw.	0	0	cloudy	W. Bolten.
Cedar Keys, Florida	30.20	767.1	30.22	767.6	67	19.4	68	e.	6	2.7		7 cs	0			0	0	fair	F. W. Mixer.
Champaign, Illinois	29.16	740 7	29.96	761.0	61.4	16.3	77	s.	15	6.7		0	2 s		s.	0	0	clear	L. A. Welsh.
Charleston, S. Carolina	30.19	766.8	30.24	768.1	66	18.9	78	w.	5	2.2		9 cs	fg.	w.		0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.34	745.2	30.18	766.6	63.0	17.2	68	sw.	8	3.6		4 ck	sk.	sw.		0	0	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.38	746.2	30.18	766.6	58.0	14.4	80	calm	0	0		8 ck	sk.	sw.		0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.11	612.4	29.98	761.5	27.4	— 2.6	79	nw.	5	2.2		0	0			inap.	inap.	clear	E. McGovern.
Chicago, Illinois	29.26	743.2	29.96	761.0	65.2	18.4	60	s.	7	3.1		1 k	0	w.		inap.	inap.	clear	J. Mitchell.
Chincoteague, Virginia	30.12	765.0	30.14	765.5	54	12.2	86	s.	4	1.8		5 k	fg.	sw.		0	0	fair	V. P. Temple.
Cincinnati, Ohio	29.44	747.8	30.09	764.3	61	16.1	78	se.	2	0.9		7 k	0	s.		0	0	fair	R. B. Watkins.
Cleveland, Ohio	29.38	746.2	30.11	764.8	49.5	9.7	81	calm	0	0			10 s			0	0	cloudy	J. B. Newlin.
Coleman City, Texas	28.06	712.7	29.85	758.2	69	20.6	90	s.	7	3.1		6 c	0	s.		0	0	fair	L. Dorman.
Columbus, Ohio	29.23	742.4	30.07	763.8	60	15.6	65	se.	4	1.8		4 ck	3 s	sw.	sw.	0	0	fair	D. Cuthbertson.
Concho, Texas	27.93	709.4	29.83	757.7	68	20.0	76	se.	4	1.8		3 ck	5 s	s.	s.	0	0	cloudy	W. W. McConlihe.
Davenport, Iowa	29.23	742.4	29.87	758.7	64	17.8	73	s.	12	5.4			9 ks		sw.	inap.	inap.	cloudy	R. R. Martin.
Dayton, Washington T'y	28.56	725.4	30.31	769.9	38.2	3.4	78	ne.	5	2.2		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.38	644.0	29.89	759.2	35	1.7	72	sw.	8	3.6			10 k		w.	0.24	6.1	cloudy	G. W. Scott.
Decatur, Texas					59	15.0	87	nw.	8	3.6			10 s		nw.	inap.	inap.	cloudy	D. J. Carr.
Delaware Breakwater, Del.	30.12	765.0	30.14	765.5	52	11.1	93	s.	10	4 5		9 k	0	w.		0.03	0.8	cloudy	A. Schneider.
Denison, Texas	29.15	740.4	29.94	760.5	69.0	20.6	84	sw.	7	3.1			10 s		s.	0.02	0.5	cloudy	J. McGlone.
Denver, Colorado	24.85	631.2	30.01	762.2	41.0	5.0	70	s.	8	3.6		0	0			0.06	1.5	clear	F. M. Neal.
Des Moines, Iowa	29.03	737.3	29.92	760.0	48	8.9	86	n.	16	7.2			10 n		n.	0.66	16.8	light rain	F. W. Conrad.
Detroit, Michigan	29.39	740.5	30.09	764.3	54.0	12.2	67	e.	7	3.1			10 s		calm	0	0	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.47	697.7	30.02	762.5	45	7.2	76	n.	20	8.9			10 s		n.	0	0	cloudy	E. A. Thomas.
Dubuque, Iowa	29.15	740.4	29.85	758.2	63.2	17.3	73	s.	6	2.7			10 s		calm	0.01	0.3	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.11	739.4	29.81	757.2	51	10.6	80	sw.	6	2.7			10 s		sw.	0.08	2.0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.09	738.9	29.89	759.2	73.0	22.8	90	se.	5	2.2			10 s		se.	0.05	1.3	cloudy	F. Belford.
Eagle Rock, Idaho	25.45	646.4	30.13	765.3	32	0.0	68	n.	8	3.6		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.88	758.9	29.95	760.7	42.5	5.8	87	n.	11	4.9			10 s		n.	0.09	2.3	cloudy	J. H. Melton.
El Paso, Texas	26.20	665.5	29.84	757.9	61	16.1	30	nw.	8	3.6		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.41	747.0	30.13	765.3	47	8.3	93	ne.	2	0.9			10 s			0	0	cloudy	R. H. Paxton.
Escanaba, Michigan	29.29	744.0	29.95	760.7	53	11.7	66	s.	6	2.7		6 k	4 s	w.	s.	inap.	inap.	cloudy	C. Dill.
Fort Apache, Arizona	24.96	634.0	29.78	756.4	37	2.8	58	ne.	3	1.3		0	0			0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.46	697.5	30.30	769.6	32	0.0	81	w.	12	5.4			10 s		w.	0.03	0.8	cloudy	B. O. Lenoir.
Fort Bennett, Dakota	28.36	720.3	29.92	760.0	42.0	5.6	67	w.	7	3.1		0	0			0.14	3.6	clear	A. Pritchard.
Fort Benton, Montana	27.51	698.7	30.30	769.6	35	1.7	66	nw.	15	6.7			10 s			0.01	0.3	cloudy	G. W. Davis.
Fort Buford, Dakota	27.82	706.0	29.80	756.9	34	1.1	100	w.	28	12.5			10 n		w.	0.20	5.1	heavy rain	A. H. Bell.
Fort Custer, Montana	26.98	685.3	30.08	764.0	35	1.7	72	w	24	10.7			10 s		calm	0.06	1.5	cloudy	V. Verge.
Fort Davis, Texas	25.09	637.3	29.81	757.1	56	13.3	67	sw.	3	1.3		0	0			0	0	clear	J. Williams.
Fort Elliott, Texas	27.23	691.0	29.93	760.2	45	7.2	63	n.	28	12.5		9 k	0	n.		0.05	1.3	cloudy	W. J. Cundall.
Fort Gibson, Indian T'y																			J. B. Campbell.
Fort Grant, Arizona	25.21	640.3	29.82	757.4	58	14.4	34	e.	6	2.7		0	0			0	0	clear	T. J. Macgowan.
Fort Keogh, Montana	27.55	699.8	30.00	762.0	34	1.1	88	w.	28	12.5			10 n		w.	0.03	0.8	light rain	W. B. Stockman.
Fort Macon, North Carolina	30.20	767.1	30.21	767.3	67	19.4	73	sw.	12	5.4		9 cs	fg.	calm	calm	0	0	cloudy	L. Leonardy.
Fort McKavett, Texas	27.71	703.8	29.95	760.7	61	16.1	93	sw.	10	4.5		0	0			0	0	clear	J. E. Thatcher.
Fort Missoula, Montana	27.05	687.1	30.35	770.9	34	1.1	82	se.	2	0.9		0	0			0.12	3.0	clear	J. H. Jones.
Fort St. Michaels, Alaska	30.43	772.9	30.46	773.7	39	3.9	91	se.	9	4.0		0	2 ks		se.	0	0	fair	A. P. Leavitt.
Fort Shaw, Montana	26.71	678 4	30.31	769.9	31	— 0.6	88	w.	9	4.0			10 s		w.	0.06	1.5	cloudy	A. L. Mathews.
Fort Sill, Indian Territory	28.69	728.7	29.91	759.7	52.8	11.6	97	nw.	21	9.4			10 s		nw.	0.75	19.0	cloudy	T. Cleary.
Fort Stevenson, Dakota	27.87	707.9	29.70	754.4	37	2.8	100	sw.	6	2.7			10 n		sw.	0.01	0.3	light rain	W. Burrows.
Fort Verde, Arizona					54.8	12.7	47	nw.			1	0	0			0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.59	624.6			26.2	— 3.2	73	calm	0	0		0	0			0.31	7.9	clear	T. M. Ambler.
Fredericksburg, Texas	28.19	716.0	29.91	759.7	65	18.3	93	sw.	17	7.6			10 s			inap.	inap.	cloudy	H. S. Miles.
Galveston, Texas	29.92	760.0	29.97	761.2	75	23.9	86	se.	12	5.4		8 c	2 k	sw.		0	0	cloudy	E. O'C. MacInernev.
Grand Haven, Michigan	29.34	745.2	30.00	762.0	59.5	15.3	54	e.	6	2.7		2 k	5 s	sw.		0	0	fair	W. A. Reid.
Hatteras, North Carolina	30.20	767.1	30.22	767.6	56	13.3	93	e.	6	2.7			10 k		sw.	0	0	cloudy	R. M. Crawford.
Helena, Montana	26.11	663.2	30.28	769.1	33	0.6	71	nw.	6	2.7			10 s		nw.	0.04	1.0	cloudy	S. Wheaton.
Henrietta, Texas	28.97	735.8	29.95	760.7	57.0	13.9	100	nw.	7	3.1			10 n			0.09	2.3	heavy rain	J. W. Byram.
Huron, Dakota	28.61	725.7	29.96	761.0	39.3	4.1	76	w.	12	5.4		0	0			0.13	3.3	clear	S. W. Glenn.
Indianapolis, Indiana	29.25	742.9	30.04	763.0	63.5	17.5	62	se.	4	1.8		4 ck;k	hz.	sw.	calm	0	0	fair	O. Schutze
Indianola, Texas	29.90	759.4	29.93	760.2	73.2	22.9	90	se.	6	2.7		10 cs	0	sw.		1.33	33.8	cloudy	I. A. Reed.
Jacksboro, Texas	28.73	729.7	29.88	758.9	71	21.7	82	s.	4	1.8			10 s		s.	0	0	cloudy	J. P. Sherry.
Jacksonville, Florida	30.19	766.6	30.23	767.8	69	20.6	76	ne.	1	0.4		0	fg.			0	0	clear	J. W. Smith.
Keokuk, Iowa	29.22	742.2	29.87	758.7	60.0	15.6	93	se.	6	2.7			10 s		w.	0.19	4.8	cloudy	F. Z. Gosewisch.
Key West, Florida	30.10	764.5	30.12	765.0	75.0	23.9	60	ne.	10	4.5		3 c	2 k	w.	ne.	0	0	fair	L. M. Melbourne.
Kittyhawk, North Carolina	30.20	767.1	30.22	767.6	58	14.4	93	sw.	12	5.4		0	4 k		n.	inap.	inap.	fair	E. A. Beals.
Knoxville, Tennessee	29.16	740.7	30.18	766.6	56.2	13.4	87	calm	0	0		7 ck	0	w.		0	0	fair	J. A. Cody.
La Crosse, Wisconsin	29.08	738.6	29.84	757.9	57.5	14.2	80	w.	8	3.6			10 n			0.02	0.5	light rain	S. C. Emery.
La Mesilla, New Mexico	26.02	660.9	29.78	756.4	55.0	12.8	47	se.	3	1.3		0	0			0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.06	738.1	29.94	760.5	51	10.6	86	nw.	12	5.4			10 n		nw.	0.37	9.4	light rain	A. W. Browne.
Lewiston, Idaho	29.53	750.0	30.37	771.4	42.2	5.7	43	calm	0	0		0	0			0	0	clear	J. M. Burlew.
Little Rock, Arkansas	29.68	753.9	30.00	762.0	67	19.4	84	s.	5	2.2			10 s		sw.	inap.	inap.	cloudy	W. U. Simmons.
Los Angeles, California	29.54	750.3	29.94	760.5	52.1	11.2	86	se.	2	0.9			10 s		calm	0	0	cloudy	E. F. Kubel.
Louisville, Kentucky	29.50	749.3	30.05	763.3	65	18.3	68	s.	5	2.2			10 s;sk			0	0	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.43	747.5	30.11	764.8	59.5	15.3	72	s.	1	0.4		hz.	0			0	0	clear	W. R. Bushby.
Madison, Wisconsin	28.89	733.8	29.89	759.2	59	15.0	84	se.	6	2.7		6 cs	0	w.		inap.	inap.	fair	C. A. Shaw.
Marquette, Michigan	29.19	741.4	29.91	759.7	59	15.0	54	s.	15	6.7		5 ck	0	s.		0	0	fair	J. Gilligan.
Memphis, Tennessee	29.74	755.4	30.07	763.8	66	18.9	73	se.	4	1.8			10 s			0	0	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.20	741.7	29.94	760.5	53	11.7	80	e.	7	3.1		5 ck	2 ks	se.		0	0	fair	W. Line.
Mobile, Alabama	30.12	765.0	30.16	766.1	68.5	20.3	77	e.	4	1.8		5ck;cs	0	nw.		0	0	fair	J. D. Paxton.
Montgomery, Alabama	29.96	761.0	30.19	766.8	65	18.3	60	se.	6	2.7			10 s			0	0	cloudy	J. B. McLaughlin.

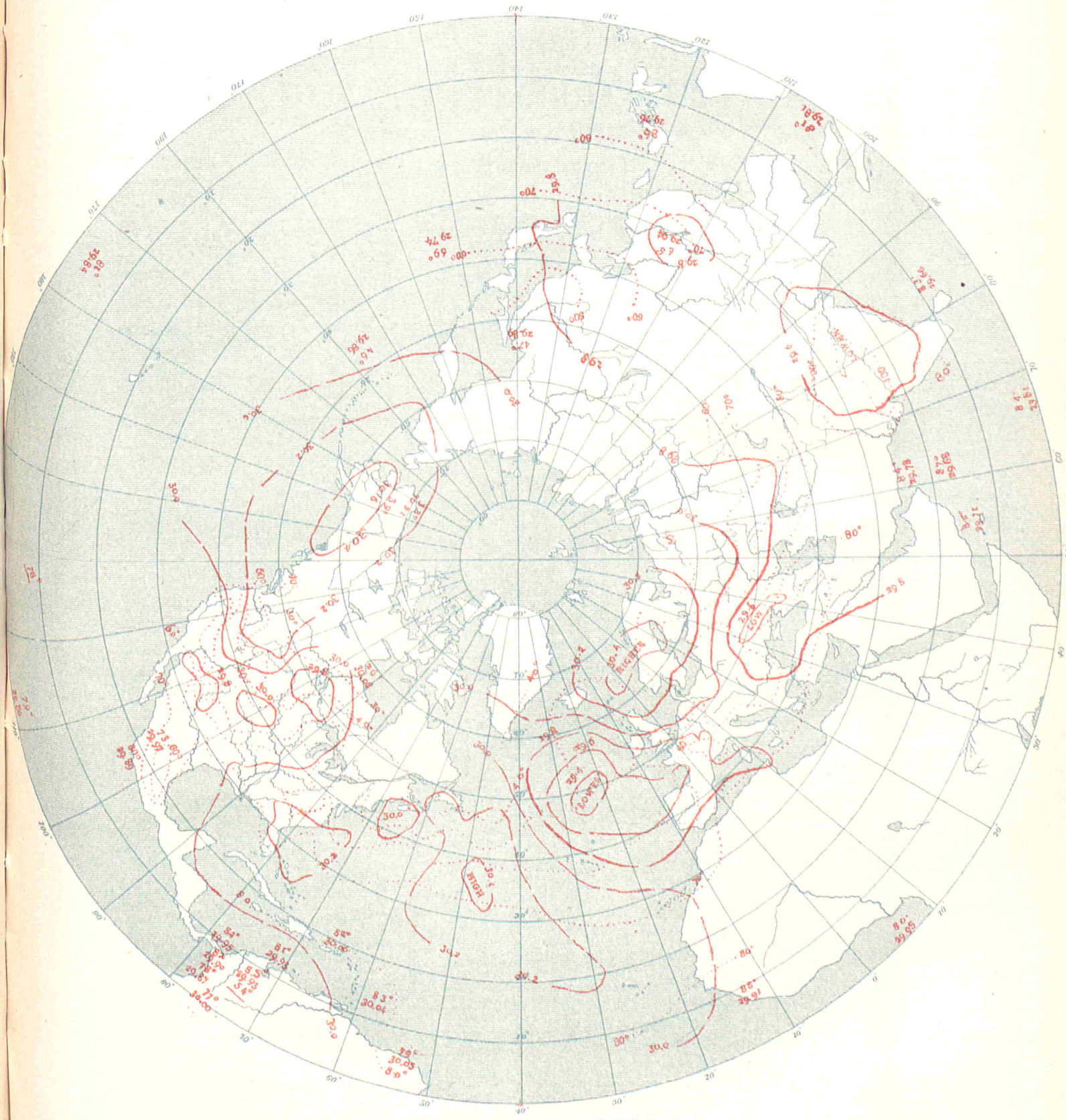
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10.	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Moorhead, Minnesota	28.85	732.8	29.83	757.7	45.1	7.3	68	sw.	20	8.9	.....	0	0	.....	.....	0.61	15.5	clear	H. Bessant.
Morgantown, W. Virginia	29.11	739.4	30.12	765.0	63.0	17.2	68	calm	0	0	.....	0	3 k	.....	.....	0	0	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.77	603.7	29.95	760.7	34.0	1.1	92	n.	36	16.1	.....	.....	10 s	.....	n.	0.06	1.5	cloudy	J. G. Linsley
Nashville, Tennessee	29.58	751.3	30.11	764.8	63.0	17.2	68	nw.	3	1.3	.....	8 ck	0	sw.	.....	0	0	fair	L. A. Jesunofsky.
New Haven, Connecticut	29.98	761.5	30.10	764.5	48	8.9	74	n.	2	0.9	.....	2 cs	7s; sk	.....	.....	inap.	inap.	cloudy	J. H. Sherman.
New London, Connecticut	30.07	763.8	30.12	765.0	47	8.3	100	nw.	2	0.9	.....	.....	10 n	.....	calm	0.35	8.9	light rain	J. G. Lynch.
New Orleans, Louisiana	30.03	762.7	30.08	764.0	72.5	22.5	78	se.	11	4.9	.....	.....	10 s	.....	se.	0	0	cloudy	L. Dunne.
Newport, Rhode Island	30.02	762.5	30.08	764.0	47.0	8.3	93	nw.	6	2.7	.....	.....	10 n	.....	n.	0.06	1.5	light rain	W. McGillivray.
New River, N. Carolina	.....	.....	.....	.....	65	18.3	68	w.	.....	.....	1	2 c	hz.	w.	.....	0	0	clear	C. C. Corbin.
New Shoreham, Rhode I'd.	30.06	763.5	30.10	764.5	46.0	7.8	93	n.	12	5.4	.....	9 cs	1 s	n.	n.	0.12	3.0	cloudy	W. Davis.
New York, New York	29.95	760.7	30.13	765.3	52	11.1	72	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	E. B. Garriott.
Norfolk, Virginia	30.12	765.0	30.15	765.8	59	15.0	81	sw.	11	4.9	.....	3 cs	hz.	w.	.....	0	0	clear	J. T. Elker.
North Platte, Nebraska	27.19	690.6	30.06	763.5	39.6	4.2	84	nw.	4	1.8	.....	0	2 s	.....	.....	inap.	inap.	clear	E. F. Brady.
Olympia, Washington T'y	30.32	770.1	30.36	771.1	37.0	2.8	89	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Dascomb.
Omaha, Nebraska	28.83	732.3	29.99	761.7	48.7	9.3	81	n.	16	7.2	.....	.....	10 n	.....	.....	1.76	44.7	light rain	A. Pollak.
Ogglaamie, Pt. Barrow, Alas.	30.19	766.8	30.21	767.3	32.5	0.3	100	se.	4	1.8	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	P. H. Ray.
Oswego, New York	29.81	757.2	30.14	765.5	51.4	10.8	71	calm	0	0	.....	9 k	sk.	e.	.....	0	0	cloudy	S. W. Beall.
Palestine, Texas	29.46	748.3	30.01	762.2	69	20.6	93	se.	11	4.9	.....	0	3 ks	.....	se.	0.03	0.8	clear	L. M. Pindell.
Pensacola, Florida	30.13	765.3	30.16	766.1	72.6	22.6	67	se.	12	5.4	.....	.....	10 s	.....	se.	0	0	cloudy	M. McGauran.
Philadelphia, Pa.	30.05	763.3	30.15	765.8	50	10.0	93	s.	2	0.9	.....	.....	10 n	.....	s.	inap.	inap.	light rain	T. F. Townsend.
Pike's Peak, Colorado	17.64	448.0	29.70	754.4	6	—14.4	100	sw.	12	5.4	.....	.....	10 n	.....	sw.	0.11	2.8	light rain	L. M. Dey.
Pioche, Nevada	24.07	611.4	29.99	761.7	36	2.2	39	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.29	744.0	30.09	764.3	53.8	12.1	74	nw.	3	1.3	.....	7 ck	0	w.	.....	0	0	fair	J. H. Bryce.
Poplar River, Montana	27.78	705.6	.....	.....	.....	.....	.....	nw.	.....	.....	6	.....	10 s	.....	calm	0.04	1.0	cloudy	U. D. Maxwell.
Port Eads, Louisiana	30.10	764.5	30.11	764.8	73.2	22.9	74	se.	12	5.4	.....	0	9 s	.....	s.	0	0	cloudy	H. G. Christian.
Port Huron, Michigan	29.43	747.5	30.11	764.8	54.8	12.7	55	e.	1	0.4	.....	8 c	hz.	n.	.....	0	0	cloudy	W. O. Bailey.
Portland, Maine	29.96	761.0	30.01	762.2	49.0	9.4	77	ne.	6	2.7	.....	.....	10 n	.....	ne.	0.07	1.8	light rain	D. O. Murphy.
Portland, Oregon	30.18	766.6	30.25	768.3	47.2	8.4	86	nw.	4	1.8	.....	0	0	.....	.....	c	0	clear	M. L. Hearne.
Portsmouth, N. Carolina	.....	.....	.....	.....	62	16.7	84	sw.	6	2.7	.....	10 c	0	s.	.....	0	0	cloudy	F. P. Chaffee.
Prescott, Arizona	24.72	627.9	29.82	757.4	55	12.8	20	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. Mc N. Wright.
Provincetown, Mass.	29.98	761.5	30.01	762.2	43	6.1	93	nw.	8	3.6	.....	.....	10 n	.....	.....	0.21	5.3	light rain	P. T. Jenkins.
Punta Rassa, Florida	30.16	766.1	30.17	766.3	68.5	20.3	74	ne.	9	4.0	.....	7 c	0	w	.....	0	0	fair	W. J. Evans.
Red Bluff, California	29.56	750.8	29.93	760.2	61.9	16.6	36	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.65	753.1	29.89	759.2	77	25.0	82	s.	3	1.3	.....	.....	10 s	.....	s.	0	0	cloudy	P. M. Wilson.
Rochester, New York	29.46	748.3	30.12	765.0	52	11.1	72	e.	1	0.4	.....	3 cs	sk.	.....	.....	0	0	clear	F. Gillam.
Roseburg, Oregon	29.63	752.6	30.18	766.6	38.5	3.6	86	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. J. Nanry.
Sacramento, California	29.76	755.9	29.84	757.9	64.8	18.2	48	n.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.38	746.2	29.97	761.2	63.0	17.2	90	s.	9	4.0	.....	0	9s; hz	.....	w.	inap.	inap.	cloudy	J. H. Webber.
St. Paul, Minnesota	29.02	737.1	29.87	758.7	51.0	10.6	72	nw.	7	3.1	.....	.....	10 s	.....	w.	0.11	2.8	cloudy	P. F. Lyons.
St. Vincent, Minnesota	28.82	732.0	29.68	753.9	40	4.4	82	s.	12	5.4	.....	0	0	.....	.....	0.67	17.0	clear	G. Kingsbury.
Salt Lake City, Utah	25.76	654.3	30.08	764.0	40	4.4	43	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.21	741.9	29.91	759.7	73	22.8	90	se.	5	2.2	.....	.....	10 s	.....	s.	0.12	3.0	cloudy	E. Lane.
San Diego, California	29.84	757.9	29.91	759.7	57.8	14.3	80	e.	4	1.8	.....	.....	fg.	.....	.....	0	0	dense fog.	A. C. Dobbins.
Sandusky, Ohio	29.41	747.0	30.08	764.0	54.1	12.3	80	e.	9	4.0	.....	5 ck	0	.....	.....	0	0	fair	M. H. Perry.
Sandy Hook, New Jersey	30.09	764.3	30.13	765.3	52.0	11.1	80	w.	12	5.4	.....	0	hz.	.....	.....	0	0	clear	B. A. Blundon.
San Francisco, California	29.79	756.7	29.86	758.4	56	13.3	77	s.	2	0.9	.....	1 cs	0	nw.	.....	0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.20	589.3	29.81	757.2	47	8.3	45	s.	10	4.5	.....	4 ck	2 k	sw.	sw.	0	0	fair	H. U. Jones.
Savannah, Georgia	30.18	766.6	30.27	768.8	63	17.2	75	se.	2	0.9	.....	8 c	hz	nw.	.....	0	0	cloudy	H. W. Ford.
Shreveport, Louisiana	29.77	756.1	30.01	762.2	66	18.9	90	s.	4	1.8	.....	8 cs	0	s.	.....	inap.	inap.	cloudy	E. N. Meekins.
Silver City, New Mexico	24.26	616.2	29.81	757.2	45	7.2	45	nw.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. B. Wallace.
Sitka, Alaska	30.35	770.9	30.41	772.4	38.6	3.7	89	calm	0	0	.....	.....	fg.	.....	calm	0	0	dense fog	J. J. McLean.
Smithville, North Carolina	30.20	767.1	30.24	768.1	67	19.4	78	w.	10	4.5	.....	0	hz.	.....	.....	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.34	719.8	30.38	771.6	36	2.2	92	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.28	743.7	29.95	760.7	64.5	18.1	68	s.	10	4.5	.....	5c; ck	2 s	w.	sw.	0	0	fair	T. B. Jennings.
Springfield, Massachusetts	29.96	761.0	30.09	764.3	46.0	8.1	86	nw.	1	0.4	.....	.....	10 n	.....	.....	0.11	2.8	light rain	T. S. Outram.
Springfield, Mo.	28.49	723.6	29.97	761.2	62	16.7	84	s.	12	5.4	.....	.....	10 s	.....	s.	0.04	1.0	cloudy	J. B. Marbury.
Starkville, Miss.	29.68	753.9	.....	.....	68	20.0	73	se.	9	4.0	.....	5 ck	0	.....	.....	0	0	fair	M. J. Wright.
Stockton, Texas	26.84	681.7	29.85	758.2	68.2	20.1	57	sw.	8	3.6	.....	0	4 s	.....	sw.	0	0	fair	J. O'Dowd.
Thatcher's Island, Mass.	29.98	761.5	30.03	762.7	46.5	8.1	80	w.	8	3.6	.....	.....	10 s	.....	w.	0	0	cloudy	F. R. Day.
Toledo, Ohio	29.39	746.5	30.07	763.8	54	12.2	80	e.	2	0.9	.....	5 cs	5s; sk	w.	w.	0	0	threatening.	A. Buell.
Tucson, Arizona	27.48	698.0	29.82	757.4	62	16.7	36	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	30.00	762.0	30.37	771.8	41	5.0	73	se.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. Daly.
Uvalde, Texas	28.02	734.6	29.87	758.7	74	23.3	90	se.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.83	757.7	30.08	761.0	67	19.4	78	se.	3	1.3	.....	.....	9 s	.....	se.	0.03	0.8	cloudy	H. T. Brisbane.
Visalia, California	29.44	747.8	29.81	757.2	55	12.8	69	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. L. Seward.
Washington, D. C.	30.02	762.5	30.13	765.3	54.0	12.2	86	calm	0	0	.....	2 k	hz.	.....	.....	0	0	fair	B. M. Purssell.
West Las Animas, Colorado	26.19	665.2	30.05	763.3	42.5	5.8	51	nw.	5	2.2	.....	3 c	3 s	sw.	w.	0	0	fair	J. Grover.
Williamsport, Pa.	29.52	749.8	30.12	765.0	50.5	10.3	73	ne.	6	2.7	.....	5 k	hz.	nw.	.....	0	0	fair	B. F. Hough.
Wilmington, N. Carolina	30.18	766.6	30.23	767.8	62	16.7	78	w.	5	2.2	.....	hz.	0	.....	.....	0	0	clear	A. T. Sherwood.
Winnemucca, Nevada	25.77	654.5	30.12	765.0	31	— 0.6	52	ne.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Yankton, Dakota	28.71	729.2	29.99	761.7	45	7.2	83	nw.	6	2.7	.....	8 cs	0	.....	.....	0.12	3.0	cloudy	J. H. Atfield.
Yuma, Arizona	29.61	752.1	29.76	755.9	63.0	17.2	70	calm	0	0	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.10	561.3	.....	.....	54.0	12.2	77	sw.	2	0.9	.....	6cs; c	2 ks	.....	.....	0	0	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.02	762.5	30.04	763.0	83	28.3	87	ne.	.....	.....	.....	5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.97	761.2	30.00	762.0	77	25.0	95	se.	12	5.4	.....	.....	10 ks	.....	s.	0.40	10.2	cloudy	J. I. Plume.
Havana, Cuba, W. I.	30.06	763.5	30.11	764.8	76	24.4	74	e.	1.2	0.5	.....	0	5 ks	.....	e.	0	0	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.01	762.2	30.02	762.5	81.3	27.4	73	calm	0	0	.....	4 cs	0	nw.	.....	0	0	.....	Robert Johnston.
Magua, San Domingo, W. I	.....	.....	.....	.....	71	21.7	.....	calm	.....	.....	0	5 ks	0	w.	.....	0.02	0.5	.....	S. M. Pike.
Navassa, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. M. Everett.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	79	26.1	87	e.	.....	.....	2	4 k	6 ps	e.	.....	0.210	5.3	fair	Dr. O. J. Hering.
Puerto Berrio, U. S. Col'mba	29.48	748.8	29.93	760.2	85	29.4	55	e.	.....	.....	1	5 c	2 k	calm	calm	0.13	3.3	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	92	ne.	.....	.....	1	1 cs	0	e.	.....	0	0	clear	Earl Flint.
Santiago de Cuba, W. I.	30.00	762.0	30.03	762.7	76	24.4	81	n.	3.6	1.6	.....	0	1 n	.....	ne.	0	0	fair	Robert Mason.
York Factory, B. A.	30.03	762.7	30.08	764.0	26.0	— 3.3	94	n.	22	9.8	.....	.....	10 s	.....	n.	inap.	inap.	snowing	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Alert, Port Mozambique, Mozambique	30.10	764.5	81.5	27.5	70	s.			3		2							d. clouds.
H. M. S. Alexandra, Suda Bay, Turkey in Europe	29.95	760.7	71	21.7	52	wsw.			3-4		3							d. clouds.
H. M. S. Amethyst, St Vincent, Cape Verd Islands	30.02	762.5	72	22.2	85	ne.			6		2	nne.				1	wnw.	d. clouds.
H. M. S. Champion, N. 9° 00′ W. 126° 40′			78	25.6	100	nnw.			4		10					3	n.	overcast.
H. M. S. Comus, Singapore, Malay Peninsula	29.81	757.2	80.5	26.9	87	s.			1-2		6	se.						misty.
H. M. S. Condor, N. 34° 32′, E. 27° 06′	29.95	761.0	68	20.0		sse.			3		2	wsw.				2	sw.	d. clouds.
H. M. S. Coquette, N. 31° 15′, E. 29° 52′	29.93	760.2	72	22.2		wnw.			2		2	nnw.				3	wnw.	d. clouds.
H. M. S. Diamond, S. 33° 41′, E. 151° 36′	30.42	772.7	63.5	17.5	89	ese.			4-5		4	ese.				2-3	ese.	d. clouds.
H. M. S. Dido, N. 13° 05′, W. 59° 30′	30.09	764.3	80	26.7		ene.			2-3		4	e.						d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	30.00	762.0	68.5	20.3	95	s.			1-2		5	s.						d. clouds.
H. M. S. Druid, N. 17° 29′, W. 88° 11′	30.00	762.0	80	26.7	86	e.			3-4		4	e.				1	ene.	d. clouds.
H. M. S. Dwarf, S. 33° 20′, W. 59° 55′	29.95	760.7	54.5	12.5	93	ne.			1		5					1	nne.	blue sky.
H. M. S. Eclipse, S. 23° 30′, E. 43° 46′	30.06	763.5	77	25.0		se.			3-4		3							d. clouds.
H. M. S. Emerald, S. 52° 45′ W. 142° 40′	29.37	746.0	42	5.6	100	ne.			1		5	ne.				2	ene.	d. clouds.
H. M. S. Euryalus, Trincomalee, Ceylon	29.66	753.4	83	28.3	87	sw.			2		8	calm						d. clouds.
H. M. S. Fantome, N. 12° 30′, W. 71° 18′	29.93	760.2	81	27.2		ne.			2-3		3	ne.				2	ne.	d. clouds.
H. M. S. Flying Fish, N. 36° 56′, E. 124° 55′	29.66	753.4	61	16.1	82	calm			0		10					2	s.	overcast.
H. M. S. Fawn, N. 0° 34′ E. 68° 05′	29.81	757.2	83.5	28.6	75	ssw.			3		7	ssw.				2	ssw.	d. clouds.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.07	763.8	54	12.2	86	e.			2		10							misty.
H. M. S. Garnet, Colonia, Rio de La Plata, Uruguay	30.02	762.5	56	13.3	87	n.			3		7							d. clouds.
H. M. S. Griffon, N. 46° 40′ W. 57° 10′	30.29	769.4	40	4.4	63	e.			1							2	e.	misty.
H. M. S. Inconstant, S. 29° 30′, E. 11° 00′	30.16	766.1	64	17.8	62	wnw.			2		2	w.				2	s.	d. clouds.
H. M. S. Iron Duke, N. 32° 44′, E. 129° 52′	29.82	757.4	67	19.4	100	calm			0		10							overcast.
H. M. S. Kingfisher, S. 5° 13′, W. 81° 30′	30.02	762.5	63	17.2		se.			3		6	s.				1		d. clouds.
H. M. S. Lark, S. 8° 00′, E. 155° 55′	29.80	756.9	82.3	27.9		ene.			2		4					3	e.	d. clouds.
H. M. S. Magpie, N. 34° 56′, E. 139° 52′	29.83	757.7	67.5	19.7	88	ese.			1		1							blue sky.
H. M. S. Northampton, Bermuda, W. I.	30.01	762.2	69	20.9	84	ssw.			1		7	ssw.						d. clouds.
H. M. S. Orontes, N 14° 40′ W. 64° 30′	30.02	762.5	81.5	27.5	93	e.			3		5	se.				2	ese.	d. clouds.
H. M. S. Rambler, St. Thomas Island, Gulf of Guinea	29.95	760.7	80	26.7	100	se.			4		5	sse.				3	sse.	blue sky.
H. M. S. Rocket, N. 48° 27′, W. 123° 27′	30.33	770.4	42	5.6	91	calm			0		9							d. clouds.
H. M. S. Sylvia, N. 26° 11′, W. 21° 13′	30.12	765.0	70.5	21.4	67	wnw.			1		3					1	nnw.	d. clouds.
H. M. S. Swiftsure, N 44° 28′ W. 9° 15′	29.54	750.3	57	13.9	93	sse.			1		8	sse.				2	sse.	d. clouds.
H. M. S. Tenedos, N. 47° 00′ W. 59° 00′	30.26	768.6	36	2.2	90	ne.			2		10							overcast.
H. M. S. Triumph, Coquimbo, Chili	30.06	763.5	58	14.4	64	ese.			1		10	calm						d. clouds.
H. M. S. Woodlark, N. 23° 10′ E. 60° 23′	29.68	753.9	83.5	28.6	96	s.			3		2	sw.				3	sw.	misty.
PORTUGUESE NAVAL.																		
Rio Lima, Porto Praya, Cape Verde Islands	30.16	766.0	75.9	24.4	84	ne.			2		2		ne.			1		d. clouds.
Tamega, Macao, China	29.63	752.6	84.2	29.0	82	sw.			3		10							d. clouds.
SWEDISH NAVAL.																		
Saga, N. 56° 42′, E. 11° 55′	30.14	765.5	57.6	14.2	82	se.			1		4							d. clouds.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	30.12	765.0	71	21.7	85	se.	13	5.8			10		se.	0	0			cloudy.
Navy Yard, Portsmouth, N. H.	29.98	761.5	49	9.4	71	nw.	6	2.7			10		nw.	0	0			cloudy.
Naval Hospital, Yokohama, Japan	29.65	753.1	66.5	19.2	84	calm			0		0			0	0			hazy.
Adams, Mare Island, Cal	29.63	752.6	62	16.7	88	wnw.			1		2		w.			sm'h		clear.
Alaska, Callao, Peru	29.95	760.7	63	17.2	89	calm			0		5			0	0	sm'h		fair.
Alert, Kobe, Japan*	29.68	753.9	71	21.7	71	w.			1		10		calm	0	0	sm'h		cloudy.
Alliance, N. 36° 49′ W. 74° 52′	30.20	767.1	50	10.0	86	ese.			1		0			0	0	sm'h		clear.
Ashuelot, Kobe, Japan	29.76	755.9	72	22.2	52	nw.			1		2		calm					clear.
Brooklyn, Montevideo, Uruguay	30.05	763.3	54	12.2	93	n.	9	4.0			10		calm	0	0	sm'h		cloudy.
Colorado, New York, N. Y.	30.09	764.3	53	11.7	73	nw.	0	0			0			0	0			clear.
Essex, Montevideo, Uruguay	30.06	763.5	55	12.8	87	n.			3		2					sm'h		clear.
Franklin, Norfolk, Va.	30.19	766.8	59	15.0	76	ssw.	8	3.6			2		ssw.	0	0			fair.
Galena, Tangiers, Africa	29.91	759.7	64	17.8	94	sw.			6		10		sw.			mod.		cloudy.
Independence, Navy Yard, Mare Island, Cal	29.71	754.6	54	12.2	93	calm			0		0			0	0			clear.
Iroquois, San Francisco, Cal	29.86	758.4	58	14.4	76	calm			0		0							clear.
Kearsarge, N. 36° 50′, W. 74° 56′	30.19	766.8	51	10.6	93	sse.			3		2					sm'h		clear.
Lackawanna, N. 4° 53′, W. 78° 47′*	29.87	758.7	78	25.6	91	w.			2		8		sw.			sm'h	sw.	cloudy.
Lancaster, Tangier, Africa*	29.90	759.4	62	16.7	100	wsw.			5		10		calm			sm'h		cloudy.
Marion, S. 32° 53′, W. 49° 57′	30.18	766.6	67	19.4	89	ne.			3		2		calm			sm'h		fair.
Michigan, Erie, Pa.	29.98	761.5	42	5.6	91	ne.			2		10		sw.					cloudy.
Minnesota, Newport, R. I.	30.09	764.3	49	9.4	92	nnw.	7	3.1			10		nnw.					misty.
Monocacy, Nagasaki, Japan	29.78	756.4	71	21.7	85	ene.			1		10		calm					rainy.
New Hampshire, Newport, R. I.	30.03	762.7	48	8.9	100	nw.			3		10					sm'h		overcast.
Nipsic, Tangiers, Africa	29.92	760.0	65	18.3	78	sw.			5		10		sw.			sm'h		cloudy.
Onward, Callao, Peru	30.13	765.3	61	16.1	94	se.			1		10		n.			long	w.	misty.
Palos, Kobe, Japan	29.78	756.4	69	20.6	75	w.			1		10		calm					cloudy.
Passaic, Washington, D. C.	30.21	767.3	54	12.2	87	calm			0		0							clear.
Pensacola, Callao, Peru	30.01	762.2	62	16.7	88	sse.	2	0.9			10			0	0	sm'h		misty.
Portsmouth, Plymouth, Eng*†	29.95	760.7	61	16.1	94	ese.			6		2					mod.	e.	fair.
Powhatan, Norfolk, Va.	30.16	766.1	56	13.3	87	s.			2		0							clear.
Quinnebaug, Tangiers, Africa	29.93	760.2	63	17.2	83	sw.			5		10		sw.			long	w.	squally.
Ranger, Off Altata Bar, Mexico*	29.90	759.4	77	25.0	86	sse.			3		2		sse.	0	0	mod.	s.	fair.
Richmond, Kobe, Japan*	29.72	754.9	72	22.2	71	calm			0		8			0	0			cloudy.
Saratoga, Plymouth, Eng.	29.70	754.4	62	16.7	61	ese.			5-6		0			0	0	mod.	se.	clear.
Shenandoah, N. 41° 29′, W. 70° 25′*	30.10	764.5	52	11.1	86	nne.			1		10		calm			sm'h		rainy.
St. Louis, League Island, Pa.	30.40	772.1	47	8.3	92	calm	0	0			10			0.05	1.3			raining.
Swatara, N. 37° 27′, E. 126° 33′*	29.51	749.5	60	15.6	65	calm			0		10		calm			sm'h		cloudy.
Tennessee, N. 36° 52′, W. 74° 46′	30.24	768.1	48	8.9	100	sse.	11	4.9			0			0	0	long	nne.	clear.
Vandalia, N. 36° 52′, W. 74° 49′*	30.19	766.8	52	11.1	86	sse.			1		5		s.			sm'h		fair.
Wabash, Boston, Mass.	30.08	764.0	48	8.9	85	w.	3	1.3			10		nw.	0.04	1.0			hazy.
Wachusetts, Fort Wrangle, Alaska	30.40	772.1	43	6.1	100	w.			1		1		e.	0	0	sm'h		clear.
Wyoming, Port Royal, S. C.	30.28	769.1	65	18.3	84	calm	0	0			5		w.	0	0			fair.
Yantic, N. 36° 48′, W. 74° 51′*	30.18	766.6	52	11.1	86	s.			1		2					long	ene.	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Nova Scotian, N. 46° 19′, W. 57° 12′	30.15	765.8	45	7.2	.....	ese.	.....	.....	2	.....	10	.....	ese.	.....	.....	sm'h	.....	misty.
S. S. Prussian, N. 46° 37′, W 53° 02′*	30.18	766.6	42	5.6	.....	calm	.....	.....	0	.....	10	.....	sw.	0	0	sm'h	.....	dense fog.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, Philadelphia, Pa	30.03	762.7	56	13.3	93	sw.	.....	.....	4	.....	10	.....	s.	.....	.....	.....	.....	rainy.
S. S. Indiana, N. 40° 29′, W. 49° 13′†	30.49	774.4	57	13.9	93	wnw.	.....	.....	1	.....	8	.....	nw.	0	0	sm'h	w.	fair.
S. S. Lord Olive, N. 38° 56′, W. 71° 02′*	29.97	761.2	.....	.....	.....	wnw.	.....	.....	4	.....	2	.....	nw.	0	0	mod.	ne.	fine.
S. S. Ohio, N. 47° 33′ W. 30° 05′†	29.40	746.7	46	7.8	92	nnw.	.....	.....	4	.....	7	.....	nw.	.....	.....	h'vy	nw.	squally.
ANCHOR LINE.																		
S. S. Bolivia, N. 43° 07′, W. 47° 42′ †	30.25	768.3	43	6.1	.....	w.	.....	.....	1	.....	1	.....	w.	0	0	sm'h	.....	fine.
S. S. Indin, N. 16° 37′, E. 60° 09′*	29.68	753.9	87	30.6	96	sw.	.....	.....	3	.....	2	.....	.....	.....	.....	.....	sw.	fair.
S. S. Utopia, Alicante, Spain†	30.07	763.8	79	26.1	46	se.	.....	.....	3	.....	4?	.....	wsw.	0	0	.....	.....	cloudy.?
ATLAS LINE.																		
S. S. Alvo, N. 25° 05′, W. 74° 24′	30.18	766.6	93	33.9	.....	ne.	.....	.....	3	.....	3	.....	sw.	0	0	.....	sw.	
S. S. Athos, N. 18° —′, W. 68° 15′	29.22?	742.2?	.....	.....	.....	ese.	.....	.....	1	.....	3	.....	e.	0	0	.....	.....	clear.
BOSTON AND HALIFAX.																		
S. S. Carroll, N. 42° 26′, W. 63° 33′	.....	.....	49	9.4	100	e.	.....	.....	2	.....	.....	.....	.....	rain	rain	.....	.....	rain & fog.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 39° 54′ E. 7° 11′	29.92	760.0	52.5	11.4	67	w.	.....	.....	6	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
British Merchant, S. 28° 33′, E. 7° 45′	30.17	766.3	67	19.4	68	nw.	.....	.....	2	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
Bk. Commewyne, N. 35° 32′, W. 24° 21′	29.94	760.5	64.4	18.0	67	w.	.....	.....	5	.....	8	.....	.....	.....	.....	.....	.....	d. clouds.
Bk. Coppename, N. 21° 20′, W. 26° 34′	30.17	766.3	74.5	23.6	60	nne.	.....	.....	4	.....	2	.....	.....	.....	.....	.....	.....	blue sky.
S. S Earnock, N. 44° 01′, W. 17° 15′	29.43	747.5	56	13.3	62	wsw.	.....	.....	4	.....	3	.....	.....	.....	.....	.....	.....	blue sky.
Glencairn, S. 28° 05′, E. 38° 50′	30.36	771.1	75.5	24.2	72	ese.	.....	.....	4	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
Bkt. Hope, N. 31° 40′, W. 45° 30′	30.40	772.1	71.4	21.9	75	ene.	.....	.....	2	.....	1	.....	.....	.....	.....	.....	.....	blue sky.
Bkt. May Huise, S. 26° 53′, W. 82° 19′	30.16	766.1	64.5	18.1	73	nne.	.....	.....	1	.....	9	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Minho, S. 25° 02′, W. 45° 10′	30.15	765.8	70.6	21.4	97	ssw.	.....	.....	3	.....	10	.....	.....	.....	.....	.....	.....	raining.
CUNARD LINE.																		
S. S. Bothnia, N. 42° 41′, W 51° 30′	30.36	771.1	.....	.....	.....	se.	.....	.....	5	.....	fg.	.....	.....	0	0	.....	se.	dense fog.
S. S. Marathon, N. 50° 43′, W. 20° 50′	29.37	746.0	52	11.1	.....	s.	.....	.....	2	.....	9	.....	sw.	5 h'r	5 h'r	con.	sw.	cloudy.
S. S. Scythia, New York, N. Y	30.09	764.3	54	12.2	93	var.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
GENERAL TRANS-ATLANTIC COMPANY																		
S. S. St. Germain, New York, N. Y	.....	.....	.....	.....	.....	w.	.....	.....	2	.....	.....	.....	w.	0	0	.....	.....	
S. S. St. Laurent, N. 49° 40′, W. 00 40′†	29.78	756.5	59.0	15.0	89	ne.	.....	.....	5	.....	.....	.....	.....	0	0	sm'h	ne.	clear
S. S. Ville de Marseilles, N. 39° 44′, W. 49° 25′*†	30.40	772.1	79?	26.1?	.....	wnw.	.....	.....	3	.....	7	.....	wnw.	4 h'r	4 h'r	sm'h	.....	cloudy.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 46° 11′, W. 30° 37′*†	29.50	749.3	.....	.....	.....	nw.	.....	.....	7	.....	4	.....	nnw.	0	0	h'vy	nw.	fine.
S. S. Cimbria, N. 48° 16′, W 33° 02′	29.58	751.3	45.5	7.5	.....	n.	.....	.....	9	.....	3	.....	n.	6 h'r	6 h'r	r'gh	nnw.	clear.
S. S. Lessing, New York, N. Y	30.13	765.3	54	12.2	.....	sse.	.....	.....	4	.....	10	.....	.....	rain	rain	.....	.....	covered.
S. S. Silesia, Hamburg, Germany†	30.14	765.5	64	17.8	.....	se.	.....	.....	3	.....	0	.....	.....	0	0	.....	.....	fair.
S. S. Wieland, N. 48° 33′ W. 19° 54′	29.42	747.3	60	15.6	.....	sw.	.....	.....	2–3	.....	2	.....	wsw.	0	0	3–4	nw.	fair.
INMAN LINE.																		
S. S. City of New York, N. 41° 05′ W. 62° 40′	30.04	763.0	.....	.....	.....	sse.	.....	.....	6	.....	10	.....	sse	3 h'r	3 h'r	h'vy	ssw.	gloomy.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, S. 18° —′ W. 38° —′.*†	30.28	769.1	80	26.7	.....	se.	.....	.....	1	.....	3	.....	nne.	0	0	.....	.....	clear.
S. S. Humboldt, N. 17° 42′, W. 56° 07′*	30.07	763.8	78.5	25.8	90	e.	.....	.....	4	.....	3 k	.....	.....	0	0	3	ene.	blue sky.
LEYLAND LINE.																		
S. S. Iberian, N. 51° 16′, W. 9° 24′	29.74	755.4	.....	.....	.....	ene.	.....	.....	3	.....	2?	.....	ene.	0	0	sll't	e.	cloudy.?
MERCHANT STEAMSHIP COMPANY																		
S. S. Glenfyne, New York, N. Y	29.90	759.4	.....	.....	.....	w.	.....	.....	7	.....	.....	.....	w.	0	0	mod.	w.	fine.
S. S. Glenapp, S. 12° 43′, W. 37° 53′*†	30.00	762.0	.....	.....	.....	sw.	.....	.....	2	.....	8	.....	s.	3 h'r	3 h'r	sm'h	.....	
NATIONAL LINE.																		
S. S. Denmark, N. 49° 36′, W. 15° 27′	29.49	749.0	58	14.4	.....	se.	.....	.....	6	.....	8	.....	se.	0	0	mod.	ese.	hazy.
S. S. Erin, N. 40° 31′, W. 65° 32′	29.84	757.9	65	18.3	.....	sw.	.....	.....	3	.....	10	.....	.....	4 h'r	4 h'r	mod.	ne.	
S. S. Greece, N. 46° 58′, W. 28° 23′	29.30	744.2	.....	.....	.....	nnw.	.....	.....	6	.....	8	.....	nnw.	sh'rs	sh'rs	r'gh	nnw.	squally.
S. S. Italy, N. 41° 24′ W. 56° 21′	30.29	769.4	64	17.8	.....	s.	.....	.....	3	.....	10	.....	se.	3 h'r	3 h'r	mod.	sse.	cloudy.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, Havana, Cuba, W. I.*†	30.18	766.6	71	21.7	80	ene.	.....	.....	3	.....	3	.....	ene.	0	0	.....	.....	misty.
S. S. City of Puebla, N. 19° 46′, W. 91° 00′†	29.89	759.2	76	24.4	.....	e.	.....	.....	2	.....	5	.....	e.	.....	.....	light	e.	
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Maas, N. 49° 32′, W. 66° 12′*†	29.93	760.2	60	15.6	.....	nnw.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	cloudy.
NORTH GERMAN LLOYD.																		
S. S. Elbe, N. 40° 35′, W. 72° 14′	30.08	764.0	48.2	9.0	80	n.	.....	.....	5?	.....	1–3	.....	.....	10 h'r	10 h'r	sm'h	.....	clear?
S. S. Graf Bismark, Bahia, Brazil	30.16	766.1	73.4	23.0	.....	var.	.....	.....	2	.....	6	.....	var.	8 h'r	8 h'r	.....	.....	rainy.
S. S. Habsburg, N. 51° 47′, E. 2° 18′	29.93	760.2	58.1	14.5	.....	ne.	.....	.....	5	.....	0	.....	.....	0	0	mod.	ne.	hazy.
S. S. Hermann, N. 49° 40′ W 12° 08′†	29.45	748.0	62.6	17.0	.....	ene.	.....	.....	6	.....	0	.....	.....	0	0	cross	ene.	fair.
S. S. Leipzig, N. 38° 04′, W. 69° 46′	30.10	764.5	51	10.6	100	nnw.	.....	.....	5	.....	10	.....	nnw.	0	0	mod.	n.	foggy.
S. S. Main, N. 49° 35′, W. 8° 15′	29.64	752.8	59.0	15.0	.....	ese.	.....	.....	5	.....	8	.....	e.	3 h'r	3 h'r	mod.	e.	hazy.
S. S. Oder, N. 47° 41′, W. 30° 10′	29.34	745.2	44.6	7.0	.....	n.	.....	.....	7	.....	9	.....	nne.	6 h'r	6 h'r	h'vy	nw.	cloudy.
S. S. Ohio, N. 49° 29′, W. 10° 15′	29.65	753.1	.....	.....	.....	e.	.....	.....	6	.....	4	.....	e.	0	0	long	e.	hazy.
S. S. Salier, N. 41° 52′, W. 59° 06′	30.15	765.8	48.2	9.0	.....	sse.	.....	.....	5	.....	10	.....	se.	3 h'r	3 h'r	long	se.	foggy.
S. S. Strassburg, N. 42° 24′ W. 47° 58′	30.39	772.9	50.0	10.0	100	n.	.....	.....	1	.....	4	.....	w.	0	0	sm'h	w.	clear.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, N. 27° 15′, E. 125° 02′†	29.70	754.4	74	23.3	81	s.	.....	.....	5	.....	8	.....	sw.	0	0	mod.	ssw.	cloudy.
S. S. Gaelic, N. 34° 43′, E. 151° 12′†	29.84	757.9	69	20.6	90	se.	.....	.....	7	.....	10?	.....	w.	.....	.....	mod.	ssw.	clear ?
S. S. Oceanic, N. 45° 11′, E. 175° 50′*	29.76	755.9	46	7.8	92	wsw.	.....	.....	4	.....	8	.....	sw.	.....	.....	3	ssw.	misty.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y.†	30.08	764.0	.....	.....	.....	nw.	.....	.....	1	.....	2	.....	.....	.....	.....	.....	.....	clear.
S. S. City of Columbus, Savannah, Ga.†	30.26	768.6	.....	.....	.....	n.	.....	.....	1	.....	.....	.....	.....	0	0	.....	.....	clear.
S. S. Seminole, N. 33° 25′, W. 78° 00′†	30.32	770.1	70	21.1	90	sw.	.....	.....	4	.....	0	.....	.....	0	0	long	ne.	clear.
OREGON IMPROVEMENT COMPANY.																		
S. S. Willametta, N. 45° 21′, W. 124° 12′†	30.34	760.6	51	10.6	78	ese.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	.....	hazy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Columbia, N. 44° 43′ W. 124° 10′†	30.21	767.3	49	9.4	85	nne.	.....	.....	3	.....	5	.....	nnw.	.....	.....	mod.	nnw.	clear.
S. S. Oregon, San Francisco, Cal.†	29.87	758.7	57	13.9	100	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	hazy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 34° 31′ W. 120° 34′.†	29.84	757.9	56	13.3	87	ese.	.....	.....	3	.....	10	.....	e.	.....	.....	mod.	nw.	cloudy.
S. S. Dakota, Strait of Fuca, Wash. Ter.†	30.38	771.6	58	14.4	76	s.	.....	.....	4	.....	10?	.....	s.	.....	.....	sm'h	.....	clear ?
S. S. Orizaba, N. 37° 40′, W. 122° 27′†	30.08	764.0	56	13.3	94	se.	.....	.....	2	.....	fg.	.....	ssw.	.....	.....	sm'h	nnw	overcast.
S. S. State of California, Portland Oregon†	30.25	768.3	47	8.3	100	n.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. Victoria, N. 38° 37′, W. 123° 49′†	29.77	756.2	50	10.0	93	nw.	.....	.....	3	.....	0	.....	.....	0	0	light	nw	clear.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. City of New York, S. 33° 50′, E. 163° 30′†	30.22	767.6	63	17.2	89	sse.	.....	.....	4	.....	8	.....	se.	0	0	mod.	se.	overcast.
S. S. City of Pekin, N. 38° 24°, W. 142° 36′†	30.14	765.5	60	15.0	94	se.	.....	.....	5	.....	8	.....	se.	.....	.....	sm'h	.....	squally.
S. S. City of Sydney, N. 2° 19′, W. 165° 02′†	29.84	757.9	81	27.2	82	ese.	.....	.....	3	.....	8	.....	se.	0.125	3.1	mod.	se.	cloudy.
S. S. City of Tokio, Hong Kong, China†	29.77	756.1	82	27.8	83	sw.	.....	.....	2	.....	5	.....	sw.	4 h'r	4 h'r	.....	.....	fair.
S. S. Colima, N. 7° 42′, W. 79° 50′†	29.90	759.4	82	27.8	71	ne.	.....	.....	3	.....	7	.....	ne.	0.60	15.2	small	n.	cloudy.
S. S. Colon, N. 21° 00′, W. 74° 07†	30.08	764.0	78	25.6	.....	ne.	.....	.....	4	.....	9	.....	ne.	0	0	small	nne.	cloudy.
S. S. Granada, N. 17° 35′, W. 102° 50′†	29.89	759.2	80	20.7	87	w.	.....	.....	1	.....	2	.....	w.	0	0	light	wsw.	clear.
S. S. South Carolina, Panama, Panama†	29.95	760.7	84	28.9	71	calm	.....	.....	0	.....	2	.....	sw.	0	0	sm'h	.....	
S. S. Zelandia, Sydney, N. S. W	30.44	773.2	59	15.0	65	sw.	.....	.....	5	.....	0	.....	.....	.....	.....	.....	.....	fine.
QUEBEC STEAMSHIP CO.																		
S. S. Muriel, Saint Kitts, W. I	29.95	760.7	83	28.3	.....	e.	.....	.....	3	.....	0	.....	.....	0	0	sm'h	.....	fair.
S. S. Bermuda, N. 38° 48′, W. 73° 22′†	30.11	764.8	41?	5.0?	.....	nnw.	.....	.....	2	.....	2	.....	n.	0	0	gentle	nnw.	fine.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
RED STAR LINE.																		
S. S. Belgenland, Antwerp, Belgium†	30.04	763.0	60	15.6	76	ese.			5		1		e.	o	o	sm'h	e.	clear.
S. S. Nederland, N. 40° 03′, W. 63° 39′†	29.81	757.2	69	20.6		s.			2		10		sw.	5 h'r	5 h'r	sm'h		misty.
S. S. Rhynland, Antwerp, Belgium	29.94	760.5	68	20.0	90	e.			6		3		e.	o	o			clear.
S. S. Switzerland, N. 39° 27′, W. 61° 40′†	30.03	762.7				sse.			6		10		sse.	4 h'r	4 h'r	r'gh	sse.	cloudy.
S. S. Vaderland, N. 44° 27′, W. 36° 13′	29.87	758.7	51	10.6	86	wnw.			7		5		nw.	o	o	high	wnw.	squally.
S. S. Waesland, Jersey City, N. J.	30.12	765.0	50	10.0		calm			0		0			o	o			clear.
ROTTERDAM LINE.																		
S. S. Schiedam, N. 47° 33′, W. 34° 05′*	29.64	752.8	50.7	10.4		nw.			9		5		nw.	3 h'r	3 h'r	hv'y	nw.	fair.
S. S. W. A. Scholten, Rotterdam, Holland	29.81	757.2	55.5	13.1	87	n.			6		5?		n.	o	o			cloudy?
STATE LINE.																		
S. S. State of Florida, N. 40° 36′, W. 63° 45′†	29.80	758.4	59	15.0		ese.			4		8		se.	4 h'r	4 h'r	r'gh		hazy.
S. S. State of Georgia, N. 46° 25′ W. 45° 34′†	30.33	770.4	40	4.4		wsw.			4		0					mod	n.	clear.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 58° 19′, E. 8° 48′†	30.47	773.9	58.1	14.5		nne.			3		3		nne.	o	o	sm'h	nne.	clear.
WARREN LINE.																		
S. S. Iowa, N. 42° 40′, W. 55° 59′†	30.30	769.6	45	7.2		s.			2		6		s.	8 h'r	8 h'r	mod.	e.	dense fog.
WHITE STAR LINE.																		
S. S. Adriatic, N. 51° 01′, W. 16° 00′†	29.70	754.4	55.5	13.1	97	se.			6		5		se.	shr's	sh'rs	mod	se.	misty.
S. S Celtic, N. 51° 06′, W. 14° 30′†	29.66	753.4	59	15.0	94	ese.			4		5		ese.	o	o	r'gh	se.	fair.
WILSON LINE.																		
S. S. Otranto, N. 40° 20′ W. 64° 17′	30.08	764.0	67	19.4		ssw.			3		8		ssw.			cross	ene.	light rain.
MISCELLANEOUS.																		
Schr. Abbe Clifford, N. 13° 00′, W. 61° 20′*†	30.04	763.0	86	30.0		ene.			4		3			o	o	sm'h		fine.
Sch. Addie Fuller, Newport News, Va†	30.20	767.1	54	12.2	86	s.			2	4 ck	0	w.		o	o			fair.
Bk. Adelaide, S. 0° 07′, W. 40° 45′*†	30.01	762.2	85	29.4		se.			3		1		ese.	2 h'r	2 h'r	light	se.	clear.
Schr. Ajax, Brazos, Texas†	29.97	761.2				se.			3		9		se.	o	o			cloudy.
Bk. Alpha, Guanatamo, W. I†	29.90	761.0	80	26.7		nne.			2		2		ne.	o	o			fair.
Schr Annie Lewis, Aransas, Pass, Texas†	30.01	762.2	76	24.4		s.			6		8		s.	4 h'r	4 h'r	short	s.	cloudy.
Bk. Anna Thormann, N. 19° 01′ W. 31° 17′	30.23	767.9	73.4	23.0	64	ene.			4		1 k		ne.	o	o	mod	ene.	clear.
Bk. Antioch, S. 40° 20′, E. 142° 30′*†	30.25	768.3	58	14.4		n.			2		2		n.	o	o	sm'h	sw.	
S. S. Antonio Lopez, N. 34° 28′ W 63° 14′*	30.05	763.3	66	18.9	97	s.			4		10 s			20 h'r	20 h'r	long	se.	raining.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.28	769.1	75	23.9		wnw.			1		10		ssw.	3 h'r	3 h'r			overcast.
Schr Annie M. Smull, S. 3° —′. E. 106° 50′*†	29.95	760.7	90	32.2		ssw.								1 h'r	1 h'r			
Bk. Bergenseren, N. 37° 24′, W. 10° 10′†	29.62	752.3				ssw.							wsw.	rain	rain	5	wnw.	squally.
S. S. Compton, Cardenas, Cuba, W. I†	30.09	764.3				ene.			5		5?		ene.	o	o			cloudy.?
Schr. Edith R. Seward, N. 22° 09′, W. 74° 30′*†	30.15	765.8	79	26.1		ne.			3		2		ne.	o	o	mod.	nne.	clear.
S. E. J. Spicer, London, England†	30.02	762.5				e.			6		3		e.	o	o			
Essex, N. 37° 51′ W. 64° 50′*†	30.06	763.5	65	18.3		w.			2		5?		e.	o	o	h'vy	e.	cloudy.?
S. Exporter, S. 41° 56′, E. 0° 10′*†	29.80	756.9				w.			5		8		w.	o	o	short	w.	cloudy.
Bk. Freya, Dublin, Ireland			57	13.9		ene.			7		2		e.	o	o			hazy.
Godfrey, N. 36° 35′, W. 67° 19′	30.01	762.2	62.8	17.1	71	nw.			6		7		nw.	o	o	rg'h	nw.	cloudy.
S. Grecian, S. 5° 45′ E. 106° 03′*†	29.85	758.2	82	27.8		sw.			3		2		s.	o	o			clear.
Schr. Hattie G. McFarland, Boston, Mass*†	30.00	762.0	46	7.8		nw.			3		10		n.	6 h'r	6 h'r			stormy.
Schr. Henry Denison, N. 25° 28′, W. 76° 40′†	30.12	765.0				ne.			3		2		ne.	o	o			fair.
James Slater, N. 39° 31′ W. 73° 04′*†	30.33	770.4	53	11.7		w.			2		0			o	o	mod.	ne.	clear.
Bk. Johanne, N. 50° 55′, W. 11° 40′*†	29.67	753.6	56	13.3		ese.			6		0			o	o	h'vy	se.	misty.
Schr. John L. Thomas, N. 11° 38′, W. 83° 30′*†	29.98	761.5				ese.			2		10		ese.	3 h'r	3 h'r	r'gh	ne.	heavy rain.
Bkt. Josephine, Guanatamo, W. I.*†	30.13	765.3	79	26.1	73	nnw.			2		0			o	o			clear.
Bk. Julia H., Havana, Cuba, W. I	30.12	765.0	72.7	22.6	76	ene.			3		3 k;s		e.					d. clouds.
Bk. Kate Cann, N. 40° 38′, W. 63° 41′*†	29.94	760.5				s.			1		0			4 h'r	4 h'r	short	sw.	clear.
Bkt. Kryolith, N 57° 21′ W. 43° 20′*†	29.87	758.7				nw.			6		10		nw.	o	o	hv'y	nw.	overcast.
S. S. Lamperts, N. 13° 29, E. 52° 31′*	29.71	754.6	84.0	28.9	87	s.			4		0							misty.
Light House Tender, Laurel, Pensacola Bay, Fla†	30.18	766.6	75	23.9		ese.			3		10		se.	o	o			cloudy.
S. S. Malabar, Singapore, Malay Peninsula*†	29.84	757.9							4									
Bg. Medina, N. 36° 24′, W. 74° 00′†	30.31	769.9				calm			0		0					short	ne.	fine.
S. S. Nebo, N. 37° 22′, W. 72° 40′*†	30.20	767.1				nw.			4		0			o	o	sm'h		clear.
S. Paramita, S. 18° 10′ W. 34° 26′†	29.97	761.2	81	27.2		var.			4		3		ne.	2 h'r	2 h'r	long	ne.	clear.
Bk. Pawashick, N. 32° 36′. W. 55° 30′*†	30.50	774.7	73	22.8	92	se.			5		2		se.			r'gh	se.	fine.
Bk Peppina, Bordeaux, France†	29.70	754.4	75	23.9	56	se.			3		5?		se.					cloudy.?
S. S. Ponca, N. 16° 50′, W. 62° 55′†	30.03	762.7	84	28.9		ese.			3		2		e.	o	o	mod.	e.	clear.
Bk. Princessen, N. 43° 52′, W. 39° 25′†	30.12	765.0	53	11.7		nnw.			6		10			o	o	long	n.	cloudy.
Bk. Rosebud, N. 24° 37′, W. 23° 05*†	30.18	766.6	74	23.3	81	nnw.			2		5			shr's	shr's	sm'h		fine.
S. Salisbury, S. 41° 00′ E. 17° 04′*	29.70	754.3	55.4	13.0	77	w.			3		10		w.	16 h'r	16 h'r	r'gh	wnw.	cloudy.
Bkt. Spotless, S. 20° 39′, W. 36° 53′*†	30.00	762.0				sw.							w.			mod	sse.	fine.
Bk. Stella, N. 1° 25′, W. 113° 40′*	29.86	758.4	78.8	26.0	92	ese.			3		5 k?		se.	o	o	sm'h	se.	cloudy.?
Bk. Truro, N. 45° 16′ W. 18° 10′*†	29.50	749.3				wsw.			2		2		ssw.	4 h'r	4 h'r	mod.	wnw.	clear.
U.S.F.C.S.S. Fish Hawk, Washington, D. C†	30.22	767.6	56	13.3	87	sw.			1		2		calm	o	o			clear.
Yacht Vega, Grenada, S. A.*†	30.18	766.6	81	27.2		e.			3				ese.	¼ h'r	¼ h'r	sm'h	ese.	
Schr Viola Reppard, N. 33° 15′, E. 77° 24′*†	30.01	762.2	71	21.7		wsw.			3		3		calm	o	o	sm'h		fair.
S. Washington, Bremerhaven, Germany*†	30.07	763.8				ene.			3		0			o	o			clear.
Bk. Wm. Wilcox, N. 28° 30′ W. 46° 44′*†	30.50?	774.7?	73	22.8		e.			3		8		e.	o	o	mod.	e.	fair.

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



UNITED STATES OF AMERICA.

SIGNAL SERVICE U.S. ARMY

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 21, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.04	763.1	78.4	25.8	72	w.			2		0			0	0	clear	Moiroud.
Algiers			30.03	762.8	76.6	24.8	59	nw.			1		0			inap.	inap.	clear	Nicolas.
La Galle			30.01	762.2	68.7	20.4	60	nw.			1		1			0	0	very fair	Fonfrède.
Tunis			30.00	762.1															Jacques.
Saida			30.11	764.9															Dumas.
Tebessa			30.08	763.9	77.7	25.4	48	nw.			2		1			0	0	very fair	Derché.
Geriville					79.2	26.2	18	se.			3		1			0	0	very fair	Lonchamp.
Laghouat			30.11	764.8	84.6	29.2	77	w.			1		0			0	0	clear	Abraham.
Biskra			30.06	763.5	84.2	29.0	29	se.			1		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	30.18	766.6	30.27	768.8	48.5	9.2	83	nne.	8	3.6			0			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.37	746.0	29.91	759.6	68.0	20.0	47	e.			2		8			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.16	740.6	29.93	760.1	51.8	11.0	82	w.	7.4	3.3			10			0.260	6.6		Dr. Wierzbiski.
Eperies	28.95	735.2	29.82	757.3	54.9	12.7	75	nw.			3		10 ks		s.	0	0		Julius Mikolik.
Gratz	28.68	728.5	29.91	759.7	62.2	16.8	71	s.			2		7			0	0		Andreas Rospini.
Hermannstadt	28.32	719.2	29.75	755.6	50.2	10.1	76	nw.			3		10			0.126	3.2		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.64	727.4	29.95	760.7	63.7	17.6	49	nne.			1	10 c	0			0	0	covered	The Staff.
Lemberg	28.80	731.6	29.77	756.2	57.9	14.4	86	e.			1		10			0.272	6.9		Dr. T. Stanecki.
Pola	29.87	758.7	29.98	761.5	62.6	17.0	63	wnw.			4		0			0	0		I. R. Hydrographic Office.
Szathmar	29.30	744.3	29.76	755.9	59.9	15.5	62	w.			2		10			0.063	1.6		Joseph Midlinszky, S. J.
Szegedin	29.55	750.5	29.82	757.5	61.5	16.4	52	nw.			1		10			0.008	0.2		Karl Stancel.
Trieste	29.87	758.8	29.98	761.4	65.5	18.6	52	calm			0		0			0	0		Rieder.
Vienna	29.24	742.7	29.94	760.5	63.3	17.4	34	nw.			3		2			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.01	762.2	30.11	764.8	50.0	10.0	82	ese.	13	5.8			5			0	0	blue sky	W. Boswell
Armagh, Observatory	29.66	753.4	29.89	759.2	60.0	15.6	50	ese.	16	7.2									S. Gall.
Bidston, Liverpool Obs'y			29.87	758.7	64.1	17.8	73	e.	24	10.7			5					d. clouds	John Hartnup.
Bolton, Sharples	29.36	745.7	29.89	759.2	63.6	17.6	44	e.	18	8.0			0					d. clouds	Thomas Mackereth, A.S.
Bradford, Yorkshire																0	0		J. McLandsborough, F. R
Bridgetown, Barbadoes	29.96	761.0	29.99	761.7	85.0	29.4	58	ne.			1		3					d. clouds	Corpl. J. Surgenor, A. H. C.
Cardington			29.88	758.9	65.0	18.3	54	se.			0.6		9					overcast	John McLaren.
Chatham, School M. E.	29.78	756.4	29.91	759.7	61.4	16.3	68	ne.			2		6			blank	blank	d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.59	751.6	29.82	757.4	58.0	14.4	81	se.			2		8					overcast	The Staff.
Fort Napier, Natal	27.70	703.6	29.92	760.0	74.6	23.7	37	w.			1		6						Pvt. E. K. Annis, A. H. C.
Free Town, Sierra Leone	29.67	753.6	29.90	759.4	89.0	31.7	63	w.			1		3					d clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	29.96	761.0	30.01	762.2	71.6	22.0	75	w.			2		2					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.70	754.4	29.91	759.7	55.8	13.2	65	e.			4		5 n; k					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.72	754.9	29.89	759.2	66.2	19.0	62	e.			1		8					d. clouds	The Staff.
Guernsey	29.56	750.8	29.85	758.2	59.1	15.1	85	sse.			1		7					showery	A. Collenette, F. M. S.
Kew, Observatory	29.85	758.2	29.89	759.2	65.6	18.7	60	se.	12	5.4			8					d. clouds	The Staff.
Leicester, Museum	29.63	752.6	29.88	758.9	63.8	17.7	44	e.			1		8					d. clouds	J. C. Smith.
Malta, Mediterranean	29.86	758.4	29.93	760.2	71.0	21.7	67	nw.			2		2					blue sky	I. H. Whysall.
Nassau, Bahamas	30.12	765.0	30.17	766.3	77.5	25.3	70	ne.			2		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.37	746.0	29.88	758.9	61.8	16.6	63	e.			2		7					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.65	753.1	29.88	758.9	61.2	16.2	68	se.			1		7					threatening	The Staff.
Plymouth	29.74	755.4	29.82	757.4	62.3	16.8	71	ssw.			2		8					d. clouds	John Merrifield.
Sandwick Manse, Orkneys			30.11	764.8	50.6	10.3	85	se.	25	11.2			5					d. clouds	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.67	753.6	29.74	755.4	64.4	18.0	63	nne.			2		10			blank	blank	gloomy	W. H. Lyne.
Sheffield	29.64	752.8	29.92	760.0	64.9	18.3	71	se.			4		1			0	0	blue sky	W. F. Cooper.
Silloth Rectory	29.91	759.7	29.94	760.5	64.0	17.8	60	e.			2		0			0	0	misty	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.93	760.2	61.8	16.6	48	ese.	19	8.5			0					blue sky	J. New.
Stratfield Turgiss	29.66	753.4	29.88	758.9	64.2	17.9	67	s.			1-3		9					d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.78	756.4	29.79	756.7	64	17.8	67	s.			6		6					d. clouds	W. Newcombe.
Valencia, Observatory	29.65	753.1	29.68	753.9	55.6	13.1	80	e.	31	13.9			2					blue sky	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.82	757.4	29.86	758.4	43	6.1	93	s.	19	8.5			10 n			0.540	13.7	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.76	755.9	29.82	757.4	44	6.7	93	n.	1	0.4			10 n		n.	0.68	17.3	cloudy	G. A. Blair.
Father Point, Quebec*	29.76	755.9	29.78	756.4	38	3.3	96	ne.	18	8.0			fg.			0.55	14.0	light rain	J. McWilliams.
Fort Garry, Manitoba*																0.23	5.8		
Halifax, N. S*	29.81	757.2	29.94	760.5	40	4.4	100	s.	8	3.6			fg.			0.820	20.8	dense fog	A. Allison.
Kingston, Ontario*	29.49	749.0	29.82	757.4	54	12.2	69	nw.	5	2.2		8 cs	0			0	0	hazy	A. P. Knight, M. A.
Montreal, Quebec*	29.60	751.8	29.80	756.9	48	8.9	96	ne.	1	0.4			10 s			0.02	0.5	cloudy	O. H. McLeod, C. E.
Parry Sound, Ontario*	29.14	740.1	29.82	757.4	53	11.7	66	e.	4	1.8		0	0			0	0	clear	Rev. R. Mosley.
Port Dover, Ontario	29.18	741.2	29.87	758.7	54	12.2	87	sw.	3	1.3			10 ks			0	0	cloudy	H. Morgan.
Port Stanley, Ontario	29.22	742.2	29.85	758.2	54	12.2	93	w.	1	0.4			fg			0.07	1.8	light rain	M. Payne.
Quebec, Quebec*	29.49	749.0	29.82	757.4	42	5.6	92	e.			1		10 n		e.	0.12	3.0	light rain	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.34	745.2	29.80	756.9	49	9.4	71	nw.	5	2.2		0	sk			0	0	smoky	W. H. McIntyre.
Saugeen, Ontario*	29.07	738.4	29.77	756.1	57	13.9	62	se.	8	3.6			10 s			0	0	cloudy	
St. Andrews, N. B.	29.71	754.6	29.76	755.9	42	5.6	91	s.	4	1.8			10 n			0.09	2.3	cloudy	
Sydney, C. B*	29.92	760.0	29.98	761.5	46	7.8	96	s.	6	2.7			10 n			0.78	19.8	cloudy	T. C. Hill, C. E
Toronto, Ontario*	29.49	749.0	29.87	758.7	53	11.7	80	w.	3	1.3			10 ks		w.	0	0	cloudy	Magnetic Observatory.
Yarmouth, N. S*	29.80	756.9	29.86	758.4	41	5.0	96	s.	3	1.3		fg.	fg			0.02	0.5	dense fog	Lt. F. E. Wilmot, R. N
Sub-series.																			
St. Johns, Newfoundland	30.17	766.3	29.42	772.7	48	8.9	77	calm	0	0		2 k	2 s			0	0	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.28	769.1	30.31	769.9	63.0	17.2	96	wsw.	11.6	5.2			9 ks			0	0	threatening	John Duthie.
Cape Town, C. G. H. Obs'y	30.35	770.9	30.39	771.9	60.7	15.9	94	s.	9	4.0		10	10			1.540	39.1		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observer.
Chinese (*Sub-series*).																			
Hankow	29.74	755.4	30.01	762.2	70.7	21.5	74	calm			0		10			0	0		N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.80	757.0	29.83	757.6	63.9	17.7	85	se.	5.6	2.5			0			0	0	clear	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	30.13	765.2	30.17	766.4	49.3	9.6	89	n.	9	4			10					raining	Oversergent Fischer.
Fanöe	30.15	765.8	30.17	766.3	58.8	14.9	56	e.			4		3						Overloerer Lauridsen.
Godthaab, Greenland	30.39	771.9	30.43	773.0	36.9	2.7	80	sse.			6		10			0	0		S. Kleinschmidt.
Stykkisholm, Iceland	30.30	769.6	30.34	770.7	46.8	8.2	87	ne.			7		8						A. O. Thorlacius.
Thorshavn	30.07	763.8	30.11	764.7	50.7	10.4	87	e.	9	4			7					foggy	Overloerer Bergh.
Vestervig	30.10	764.4	30.19	766.7	58.5	14.7	58	ene.			2		7						Loearer Oesterboi.
French.																			
Agen, Normal School	29.27	743.5	29.91	759.6	71.6	22	49	calm			0		n;kn		sw.	0	0		M. Labroue, Director.
Alençon, Normal School	29.36	745.8	29.91	759.8	65.5	18.6	81	ese.			1		kn		s.	0	0		M. Nicot, Director.
Arras, Engineer School	29.65	753.0	29.89	759.3	66.2	19.0	68	se.			2		k		n.	0.043	1.1		M. Fénéon, Command't.
Avignon, Normal School	29.91	759.8	29.99	761.8	68.7	20.4	64	e.			1		5		nw.	0.020	0.5	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.36	745.8	29.91	759.6	66.6	19.2	54	se.			1		7		w.	0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.63	752.7	29.89	759.2	70.3	21.3	48	e.			1		8		se.	0.094	2.4	very cloudy	M. Frère Eugène Marl.
Besançon, Normal School	29.01	736.8	29.88	758.9	73.4	23	42	s.			1	0	2 n		n.	0.024	0.6	thund'r st'm	M. Gobin, Director.
Bordeaux, Observatory	29.64	752.8	29.89	759.3	68.5	20.3	50	w.			1		5		nw.	0.118	3.0	cloudy	M. Rayet, Director.
Bourges, Normal School	29.38	746.3	29.92	760.0	65.3	18.5	75	e.			1		k		e.	0.04	1.		M. Postel, Director.
Brest, Naval Observatory	29.61	752.0	29.85	758.1	66.2	19.0	77	sw.			1		9		sw.	0.008	0.2	stormy	M. de Kermaree, Dir.
Caen, Normal School	29.80	757.0	29.87	758.8	66.9	19.4	58	s.			2		5		s.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.60	751.9	29.91	759.8	66.2	19.0	79	calm			0		8	sw.	sw.	0.094	2.4	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.43	747.4	29.93	760.1	63.3	17.4	77	sse.			1		8			0	0	¾ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.60	726.3	29.90	759.5	70.5	21.4	54	sw.			1		8			0.004	0.1	¾ covered	M. Alluard, Director.
Cluny, Normal School	29.08	738.7	29.93	760.3	66.6	19.2	72	s.			1		7			0.374	9.5		M. de Villemontée, Dir.
Commercy, Normal School	29.10	739.1	29.96	760.9	65.3	18.5	67	se.			1		10 n	se.	se.	0.059	1.5	covered	Dr. Coulet, Director.
Gap, Normal School	27.49	698.2	29.98	761.6	61.9	16.6	55						n			0.08	2.		M. Jeangirard, Director.
Gréasque, du Rhone	28.89	733.8	30.00	761.9	62.8	17.1	76	se.			1		10		se.	0.079	2.0		M. Kina, Director.
Grenoble, Normal School	29.18	741.1	29.93	760.1	66.2	19	60	wnw.			1		kn			0.08	2.		M. Ablard, Director.
Guéret, Normal School	28.35	720.2	29.91	759.8	55.9	13.3	79	sw.			1		8		sw.	0.413	10.5	stormy	M. Rivoire, Director.
Lamballe, Normal School	29.55	750.5	29.82	757.3	67.3	19.6	58	e.			2		8		e.	0.04	1.	very cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.32	744.8	29.87	758.7	73.8	23.2	42	n.			1		5 kn			0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.74	755.3	29.84	757.9	64.4	18.0	80	sse.			2		8		sw.	0.039	1.0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.88	733.6	29.92	759.9	66.6	19.2	60	s.			2		5		ssw.	0.012	0.3	cloudy	M. André, Director.
Mans, Normal School	29.54	750.3	29.84	757.9	68.7	20.4	61	ssw.			3		5		s.	0	0	cloudy	M. Piboen, Director.
Marseille, Observatory	29.71	754.7	29.98	761.5	66.4	19.1	68	ese.			2		7		ssw.	0.039	1.0		M. Stephan, Director.
Montlouis	24.81	630.1	29.65	753.1	56.3	13.5	50	sw.	15.0	6.7			0			0.094	2.4		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.81	757.2	29.94	760.4	63.3	17.4	88	se.			4		10			0.858	21.8	raining	M. Galzin, Director.
Nancy, Normal School	29.18	741.2	29.95	760.6	66.2	19.0	54	n.			1		kn		nw.	0	0		M. Hasse, Director
Nantes, Observatory	29.69	754.1	29.85	758.2	66.0	18.9	70	sse.			1–2	0	9 k;kn		sse.	0.244	6.2		M. Larocque, Director.
Perpignan, Observatory	29.80	756.9	29.91	759.6	71.8	22.1	59	e.	7.4	3.3			3		nnw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.20	538.6			40.8	4.9		nw.			1	1	1	se.	nw.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	28.93	734.8	29.97	761.1	57.9	14.4	74	se.			1		10		s.	0	0	covered	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.11	637.8			45.5	7.5	87	sw.			2		8			0.079	2.0	¾ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	29.86	758.4	29.89	759.2	68.0	20.0	100	sw.			2		2		ssw.	0.059	1.5	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.54	750.3	29.75	755.7	63.0	17.2	80	w.			1		5		s.	0.20	5.	cloudy	M. Mouilliot, Director.
Rodez, Normal School	27.81	706.3	29.89	759.2	68.4	20.2	57	sw.			1		5		s.	0.098	2.5	cloudy	M. Serger, Director.
Rouen, Normal School	29.82	757.4	29.87	758.6	68.0	20	61	ese.			1		8		n.	0	0	very cloudy	M. Brotier.
Saint Maur, Observatory	29.74	755.5	29.91	759.7	59.2	15.1	85	nne.			1		10		sw.	0.012	0.3		M. Renou, Director.
Toulouse, Observatory	29.22	742.3	29.95	760.6	77.0	25.0	46	n.			1		5			0.043	1.1	cloudy	M. Baillaud, Director.
Tours	29.69	754.1	29.87	758.6	68.0	20.0	68	se.			1		5	ssw.	sse.	0.130	3.3	stormy	
Versailles, Observatory	29.41	746.9	29.90	759.4	69.8	21.0	44	sw.			4					0.098	2.5		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.59	751.6	29.88	759.0	69.6	20.9	54	ese.			1		9		ssw.	inap.	inap.		M. Marié Davy, Director
German.																			
Bamberg	29.17	740.8	30.02	762.5	61.7	16.5	40	se.			3	0	5 k		se.	0	0		Prof. Dr. Hoh.
Berlin	29.89	759.1	30.06	763.5	62.2	16.8	31	n.			3		8			0	0		Prof. Dr. Arndt.
Breslau	29.52	749.7	30.05	763.2	47.5	8.6	99	nw.			2		10			0.059	1.5	light rain	Royal University Obs'y.
Carlsruhe	29.55	750.5	29.98	761.4	65.1	18.4	50	e.			1		5	nw.		0	0		Albert Senz.
Cassel	29.30	744.2	30.01	762.3	65.5	18.6	39	se.			2		4	e.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.60	751.9	29.96	760.9	67.5	19.7	36	sse.			2		2			0	0		Physical Society.
Friedrichshafen	28.56	725.5	29.97	761.2	63.3	17.4	53	sw.			2		8	w.		0	0		Wilhelm, Chief Tel.
Hamburg	30.01	762.3	30.11	764.7	60.3	15.7	54	ne.			3		1	sse.		0	0		E. Preller.
Kiel	30.13	765.2	30.14	765.6	54.3	12.4	55	ne.			4		3			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.65	753.0	30.06	763.5	62.6	17.0	42	ese.			2		7			0	0		H. Leppig, Asst.
Magdeburg	29.87	758.8	30.06	763.6	63.3	17.4	30	ne.			1	c	3 k	e.	ne.	0	0		Dr. Assmann.
Memel	30.06	763.5	30.11	764.7	69.8	21.0	42	ene.			3	0	0						Issermann.
Munich	28.17	715.4	30.03	762.7	63.1	17.3	32	ne.			1		3	sw.		0	0		Central Station.
Neufahrwasser	30.07	763.7	30.08	764.1	52.3	11.3	85	ne.			1		10			0.094	2.4		A. Lothes.
Neustadt, Palatinate	29.44	747.8	29.98	761.4	64.4	18.0	53	e.			2		8	e.		0	0		Dickmether.
Stuttgart	29.02	737.2	29.89	759.3	64.8	18.2	48	w.			2		3	w.		0	0		Prof. Dr. Schoder.
Wustrow	30.16	766.1	30.19	766.7	49.5	9.7	79	nne.			3		10 s			0.063	1.6		Profs. Brandes & Reimer
Greek.																			
Athens	29.37	746.1			74.8	23.8		sw.			1.5		2 k			0.004	0.1		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.65	753.1	29.70	754.2	85.3	29.6	79	wsw.	36.0	16.1			2			0	0	misty	
Deesa	29.12	739.6	29.57	751.1	101.6	38.7	26	w.	13.2	5.9			0			0	0	blue sky	
Bombay	29.66	753.4	29.70	754.3	86.3	30.2	68	wnw.	12.0	5.4			1	wnw.		0	0	d. clouds	
Poona, Yarrowda	27.82	706.5	29.62	752.4	90.0	32.2	38	wnw.	22.0	9.8			2	wsw.		0	0	d. clouds	
Bellary	28.14	714.8	29.55	750.6	96.7	35.9	28	w.	13.0	5.8			6	wnw.		0	0	d. clouds	
Belgaum	27.17	690.1	29.68	753.8	79.1	26.2	75	wsw.	6.0	2.7			6	se.	sw.	0.06	1.5	showery	
Lahore	28.76	730.4	29.47	748.4	98.2	36.8	21	w.	1.1	0.5			2			0	0	blue sky	
Roorkee	28.58	726.0	29.44	747.8	96.9	36.1	13	nw.	4.0	1.8			3			0	0		
Agra	28.97	735.8	29.51	749.5	99.1	37.3	21	n.	5.4	2.4			4		nw.	0	0		
Nagpur	28.47	723.1	29.46	748.2	102.5	39.2	19	calm	5.3	2.4			7		nw.	0	0	d. clouds	
Jubbulpore	28.18	715.9	29.48	748.6	100.5	38.1	14	nw.	3.4	1.5			3			0	0	d. clouds	
Lucknow	29.08	738.7	29.44	747.8	101.6	38.7	12	wnw.	8.3	3.7			0			0	0	blue sky	
Allahabad	29.15	740.3	29.44	747.8	103.2	39.6	14	nw.	3.3	1.5			0			0	0	blue sky	
Patna	29.28	743.8	29.46	748.3	98.7	37.1	43	nw.	4.4	2.0			0			0	0	blue sky	
Hazaribagh	27.58	700.4	29.50	749.2	97.6	36.4	15	nw.	8.1	3.6			0			0	0	misty	
Cuttack	29.41	747.0	29.49	749.0	94.1	34.5	60	s.	1.6	0.7			3			0	0	d. clouds	
Calcutta, Alipore	29.46	748.3	29.48	748.8	87.9	31.1	64	sw.	10.0	4.5			2	sw.	sw.	0	0	d. clouds	
Dhubri	29.38	746.2	29.50	749.2	82.1	27.8	72	ne.	5.2	2.3			0			0.68	17.3	blue sky	
Chittagong	29.37	745.9	29.46	748.2	86.2	30.1	66	w.	2.5	1.1			0			0	0	blue sky	
Sibsagar	29.24	742.6	29.57	751.0	83.1	28.4	77	ne.	2.7	1.2			0			0.80	20.3	blue sky	
Jeypore	28.14	714.8	29.53	750.1	95.7	35.4	26	nw.	4.7	2.1			6	nw.		0	0	d. clouds	
Zanzibar, Africa	30.00	762.0			77.2	25.1	84	s.	8.7	3.9			8		sse.	0.06	1.5	gloomy	
Italian.																			
Udine	29.57	751.1	29.97	761.2	68.1	20.1	58	w.	1.3	0.6			1			0	0		Prof. Giovanni Clodig.
Milan	29.47	748.6	29.97	761.3	68.7	20.4	39	ssw.	6.3	2.8			3	nw.		0	0		Prof. Schiaparelli.
Padua	29.86	758.4	29.97	761.1	66.2	19.0	40	ssw.	4.3	1.9			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.08	738.7	29.96	761.0	66.9	19.4	41	sw.	2.5	1.1			4	ne.		0	0		Prof. P. F. Denza.
Genoa	29.84	758.0	30.03	762.8	64.4	18.0	56	sw.	3.8	1.7			2	sw.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.08	713.1	30.01	762.2	61.2	16.2	47	e.			2		2			0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
ITALIAN.—Continued.																			
Pesaro	29.97	761.1	30.01	762.3	56.5	13.6	89	ne.	6.3	2.8			0			0	0		Prof. Luigi Guidi.
Florence	29.72	754.8	29.97	761.1	68.9	20.5	47	sw.			2		2			0	0		Prof. Costantino Pitter.
Leghorn	29.89	759.1	29.98	761.6	64.0	17.8	62	w.	1.3	0.6			3			0	0		Prof. P. Monte.
Rome	29.79	756.7	29.96	761.0	70.3	21.3	50	w.	11.2	5.0			9			0.720	18.3		Prof. P. S. Ferrari.
Lecce	29.67	753.7	29.93	760.1	62.6	17.0	57	wnw.	15.4	6.9			7			0.248	6.3		Prof. C. de Giorgi.
Cosenza	29.05	737.8	29.91	759.7	64.4	18.0	75	sse.	3.8	1.7			10	se.		0.106	2.7		Prof. D. Conti.
Cagliari	29.79	756.7	29.98	761.5	69.1	20.6	62	ssw.			4		10			0	0		Prof. A. Pacinotti.
Palermo	29.76	755.9	30.00	762.1	68.9	20.5	54	nw.	8.1	3.6			3			0	0		Prof. G. Ciacciatore.
Syracuse	29.85	758.2	29.89	759.3	70.9	21.6	72	nne.	9.4	4.2			4	nne.		0	0		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.43	747.4	29.94	760.5	66.2	19.0	72	sw.	3.1	1.4			10	n.		1.087	27.6		Prof. T. Brioschi.
Stelvio	22.15	562.5			41.7	5.4	52	ne.			1		8			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.20	564.0			40.6	4.8	63	se.			2		10			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.61	752.1	29.64	752.8	54.0	12.2	93	n.	13.6	6.1			10 n			0.053	1.4	raining	K. Ogawa.
Hakodate	29.61	752.1	29.62	752.3	51.5	10.8	96	se.	10.8	4.8			10			0.170	4.3	covered	
Hiroshima, I. M. Obs'y	29.62	752.3	29.64	752.8	60.8	16.0	97	wsw.	3.3	1.5		ck	1 s			0.870	22.1	clear	J. Sogawa.
Kanazawa	29.45	748.0	29.56	750.8	60.1	15.6	95	se.	1.8	0.8			10 n			0.970	24.6	raining	S. Endo.
Kioto	29.39	746.5	29.56	750.8	63.0	17.2	96	nnw.	1.2	0.5			10 n			1.868	47.4	raining	M. Tojima.
Kochi	29.56	750.8	29.58	751.3	65 0	18.3	88	w.	3.4	1.5		0	1 s			3.158	80.2	clear	K. Kusunose.
Nagasaki, I. M. Obs'y	29.55	750.6	29.75	755.6	60.1	15.6	87	s.	1.5	0.7		0	0			0.210	5.3	clear	S. Takehayashi.
Niigata	29.51	749.5	29.54	750.3	60.8	16.0	97	n.	1.8	0.8			10 n			0.400	10.2	light rain	M. Morita.
Nobiru	29.65	753.1	29.67	753.6	55.2	12.9	97	sse.	12.8	5.7			10 n			0.495	12.6	raining	H. Midzushina.
Supporo					61.2	16.2	87	e.	7.2	3.2			10			0.020	0.5	covered	
Tokei Obs'y, Yeddo	29.57	751.1	29.64	752.8	63.8	17.7	94	s.	4.0	1.8			10 n			1.063	27.0	raining	The Staff.
Wakayama	29.55	750.6	29.60	751.8	63.2	17.3	97	wnw.	0.3	0 1			10 n			0.970	24.6	raining	Y. Kuwamuea.
MAURITIUS																			
Mauritius Observatory	29.88	758.9	30.06	763.5	77.0	25.0	69	e.	15.5	6.9		0	4 k;ks		e.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.69	601.6	29.91	759.6	58.1	14.5	98	calm	0	0		1 cks	9 n		w.	0.129?	5.3?	gloomy	Prof. Vicente Fernandez.
Leon	24.29	617.0	29.94	760.5	59.4	15.2	87	nnw.			1	8 c	4 k		w.	0.039	1.0	covered	Prof. M. Leal.
Mazatlan	29.69	754.2	29.95	760.7	73.5	23.1	90	n.	0.8	0.4		4 cs	1 k	sw.	n.			fair	F. Quijano, C. E.
Mexico, Central Obs'y	23.11	587.0	30.12	765.0	55.8	13.2	88	calm	0	0		2 c	8 kn	w.	w.	0.024	0.6	covered	The Staff.
Morelia	24.19	614.5	30.25	768.3	62.2	16.8	65	se.			3		0?			0.209	5.3	cloudy?	M. Tena, M. D.
Pabellon, Aguascalientes	23.93	607.8	29.89	759.2	59.5	15.3	89	calm			0	1 c	8 kn	sw.	sw.	0.290	7.3	cloudy	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.40	594.4	30.07	763.8	57.2	14.0	98	calm	0	0		0	8		sw.	0.406	10.3	cloudy	Prof. P. Spina.
San Luis Potosi	24.14	613.1	30.00	762.0	62.2	16.8	79	n.			1		10		w.	0.236	6.0	cloudy	G. Barroeta, M. D.
Zacatecas	22.55	572.7	29.92	760.1	53.8	12.1	91	wsw.	3.8	1.7		10	0			0.306	7.8	gloomy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.95	760.8	29.95	760.8	65.7	18.7		ese.			3					0	0		
Groningen	29.99	761.8	30.05	763.2	63.9	17.7		e.			4					0	0		
Helder	30.01	762.3	30.01	762 3	60.6	15.9		e.			4					0	0		
Helleveotsluis	29.95	760.8	29.95	760.8	64.6	18.1	53	e.			1					0	0		
Utrecht	29.95	760.6	29.99	761.8	64.4	18.0	37	se.			4		2			0	0	lightly cl'dy	H. van der Brink.
NORWEGIAN.																			
Bergen	30.17	766.3	30.23	767.9	43.5	6.4	46	sse.	7	3			6			0	0		
Brono	30.28	769.2	30.32	770.2	57.0	13.9	58	n.	9	4			2			0	0		
Christiania	30.12	765.0	30.26	768.7	63.7	17.6	48	n.	2	1			10			0.016	0.4		
Gjæsvær	30.18	766.6	30.21	767.2	41.7	5.4		w.			7		10						
Lodingen	30.34	770.6	30.39	771.8	45.3	7.4	90	sse.			2		2			0	0	foggy	
PORTUGUESE.																			
Angra, Azores					52.2	11.2	85	nw.	21.0	9.4			4			0.252	6.4		Dr. J. A. Sampaio.
Campo Major	28.93	734.8	29.92	759.9	64.4	18.0	44	ssw.	12.5	5.6			8			0.291	7.4		Dr. A. M. R. dos Santos.
Funchal, Maderia	29.91	759.7	30.00	761.9	67.8	19.9	58	wsw.					4			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.58	751.2	29.93	760.2	64.0	17.8	68	ssw.	21.0	9.4			6			0.161	4.1		The Staff.
Ponta Delgadu, Azores	29.66	753.3	29.73	755.1	59.4	15.2	56	nw.	20.6	9.2			3			0.264	6.7		
Saint Paul de Loando	29.76	755.8	29.95	760.9	76.3	24.6	94	w.	0.7	0.3			8			0	0		
Serra da Estrella	25.14	638.5	29.91	759.8	41.4	5.2	89	se.	23.0	10.3			10			0.657	16.7	light rain	
RUSSIAN.																			
Akmolinski	28.35	720.0	29.38	746.2	62.6	17.0	68	ne.	7	3		5 ck	0			0	0		Major K. Lasarew.
Archangel	30.24	768.0	30.26	768.5	37.2	2.9	54	nnw.	13	6			10			0	0		Capt. Sselliwerstow.
Astrakhan	29.62	752.4	29.54	750.3	79.9	26.6	47	sse.	9	4		cs	6 s			0	0	light clouds	Capt. Wisganow.
Barnaul	29.09	738.9	29.58	751.2	60.1	15.6	36	calm	0	0			9			0.008	0.2	light clouds	Meteorological Obs'y.
Dorpat	29.96	760 9	30.19	766.9	69.4	20.8	37	ene.	9	4		0	0			0	0		Observatory.
Ekaterinburg	28.52	724.3	29.45	748.1	55.9	13.3	36	nw.	25	11			10			0	0		Meteorological Obs'y.
Kasan	29.51	749.5	29.78	756.3	56.3	13.5	62	n.	22	10			10			0	0		Observatory.
Kertch	29.71	754.6	29.73	755.1	60.6	15.9	73	n.	9	4			9 n			0	0		Lagorio & Sastyrex.
Kieff	29.05	737.8	29.65	753.2	69.6	20.9	68	ne.	2	1		c;ck	7 ks			0.461	11.7		Observatory.
Lugan	29.34	745.3	29.54	750.4	62.8	17.1	81	wsw.	18	8			10			1.658	42.1		Meteorological Obs'y
Moscow	29.45	748.1	29.91	759.7	66.0	18.9	31	nw.	7.8	3.5			0						Meteorological Obs'y.
Nikolaiev	29.68	753.9	29.75	755.7	68.0	20.0	52	s.	13	6		0	5 kn			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor.	29.74	755.5	29.83	757.7	48.7	9.3	92	calm	0	0			4			0	0		Lieut. Iwanow.
Pekin, China	29.58	751.2	29.72	754.8	68.9	20 5	38	nw.	4	2		0	2 k			0	0		Physical Observatory
St. Petersburg	30.13	765.3	30.15	765.7	69.6	20.9	27	ne.	11	5		0	1 k			0	0		Central Physical Obs'y.
Semipalatinsk	28.93	734.9	29.57	751.1	59.0	15.0	85	ne.	4	2			10 n			0.020	0.5		Major Lasaren.
Tashkend, Laboratory	28.07	713.0	29.54	750.2	82.8	28.2	36	calm	0	0			5			0.055	1.4		Teich, A. M.
Tiflis	28.23	717.0	29.61	752.1	63.0	17.2	48	nnw.	22	10		0	6 s			0.224	5.7		Physical Observatory
Vladivostock	29.50	749.2	29.56	750.9	45.7	7.6	94	nw.	4	2			10 n			1.193	30.3		
Warsaw	29.51	749.6	29.93	760.2	59.7	15.4	82	ne.	9	4			10 ks					hv'y clouds	Astronomical Obs'y
Wilna	29.59	751.5	29.99	761.8	67.8	19.9	59	ne.	7	3			4			0	0		Berg, Assistant.
Yeniseisk																			M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.80	756.9	29.90	759.5	75.2	24	49	sw.	5.1	2.3			0			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.85	758.2	29.91	759.7	77.4	25.2	37	se.	1.1	0.5		3	2	sw.		0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.05	687.1	30.00	762.1	57.2	14.0	65	s.	8.1	3.6			8			0.256	6.5	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.80	706.2	30.01	762.2	62.4	16.9	53	sw.	18.1	8.1		0	7			0.268	6.8	rainy	The Staff.
Murcia, Met. Obs'y	29.82	757.4	29.95	760.8	79.2	26.2	50	sse.	2.9	1.3		1	2	ene.		0	0	clouds	Olayo Diaz, Director.
Santiago, Met. Obs'y	28.85	732.8	29.73	755.2	59.9	15.5	74	sse.	19.2	8.6			8			0.476	12.1	rainy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	30.00	762.0	30.07	763.7	76.3	24.6	70	ose.	6.3	2.8		1 c	0	wnw.		0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.75	755.6	29.81	757.1	86.3	30.2	72	nw.	8.1	3.6		1 c	6 ck		e.	0	0	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.99	761.8	30.09	764.3	62.8	17.1	88	s.	9.1	4.1			10		s.	0.278	7.1	light rain	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.95	760.8	30.04	763.1	82.8	28.2		se.	1.8	0.8		0	2 k		se.	0.236	6.0	clear	Manuel Maese.
Tuguegarao, Philippine Id's	29.66	753.4	29.80	756.9	78.9	26.1	78	nw.	3.6	1.6		0	7 k		nnw.	0	0	cloudy	José L. Yrastorza.
SWEDISH																			
Haparanda	30.35	771.0	30.39	772.0	60.1	15.6	48	n.			2		2			0	0		
Umea	30.30	771.1	30.41	772.4	61.5	16.4	43	se.			4		4			0	0		
Hernosand	30.31	769.9	30.36	771.2	59.4	15.2	74	se.			2		0			0	0		
Stockholm	30.13	765.4	30.31	769.9	62.8	17.2	28	e.			4		2			0	0		
Wisby	30.14	765.5	30.20	767.0	65 8	18.8	34	e.			6		0			0.047	1.2		
Sub-series.																			
Upsala	30.19	766.7	30.27	768.9	68.4	20.2	27	ene.	8.3	3.7			2			0	0		S. G. Fineman.
SWISS.																			
Geneva	28.53	724.7	29.91	759.8	69.8	21.0	49	se.			2					0	0	clouds	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
TURKISH.																			
Constantinople			29.77	756.2	59.0	15.0	56	ene.	6	2.5			10		sw.	0.079	2.0		The Observatory.
Valona			29.93	760.3	63.1	17.3		sw.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.78	756.5	77.0	25.0	65	sw.			3	10 c	0	sw.		0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.78	756.4	29.86	758.4	60	15.6	60	sw.	3	1.3		hz.	hz.			0	0	dense haze	J. O. Barnes.
Alpena, Michigan	29.12	739.6	29.78	756.4	49	9.4	86	sw.	8	3.6			10 s		w.	0.01	0.3	cloudy	Jas. J. Fitzgerald.
Atlanta, Georgia	28.98	736.1	30.14	765.5	67.0	19.4	55	sw.	5	2.2		1 c	0	calm		0	0	clear	H. Hall.
Atlantic City, New Jersey	29.95	760.7	29.96	761.0	58.2	14.6	90	sw.	4	1.8		0	0			0	0	clear	Jas. M. Watson.
Augusta, Georgia	30.00	762.0	30.20	767.1	60.5	15.8	80	s.	1	0.4		0	0			0	0	clear	John Healy.
Baltimore, Maryland	29.95	760.7	30.00	762.0	64	17.8	68	s.	1	0.4		4 cs	hz.	w.		0	0	fair	Robert Seyboth.
Barnegat, New Jersey	29.93	760.2	29.95	760.7	63.3	17.4	80	sw	9	4.0		0	0			0	0	clear	Chas. F. Merritt.
Bismarck, Dakota	28.27	718.0	30.05	763.3	30	— 1.1	88	nw.	26	11.6		1 k	0	nw.		0.04	1.0	clear	Cyrus Cramer.
Boise City, Idaho	27.27	692.6	30.11	764.8	51	10.6	61	e.	2	0.9		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.71	754.6	29.87	758.7	48.0	8.9	96	sw.	4	1.8			10n;fog			0.78	19.8	light rain	O. B. Cole.
Brownsville, Texas	29.87	758.7	29.91	759.7	71	21.7	94	e.	4	1.8		10 ck	0			0.36	9.1	cloudy	M. McCarty.
Buffalo, New York	29.13	739.9	29.87	758.7	56.1	13.4	59	se.	6	2.7		1 ck	9 s	sw.	sw.	0	0	cloudy	Wm. Finn.
Burlington, Vermont	29.53	750.0	29.82	757.4	53.3	11.8	82	calm	0	0			10 s		n.	0.10	2.5	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.68	753.9	30.08	764.0	56.6	13.7	82	n.	16	7.2			10 s		n.	1.36	34.5	cloudy	W. H. Ray.
Campo, California	27.38	695.4	29.91	759.7	38.8	3.8	65	se.	3	1.3		0	0			0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.20	690.9	29.87	758.7	55	12.8	53	calm			0	0	0			0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.02	762.5	30.04	763.0	67	19.4	55	sw.	17	7.6		0	0			0	0	clear	J. E. Lanouette.
Cape May, New Jersey	29.95	760.7	29.98	761.5	57	13.9	86	w.	5	2.2		0	fg.			0	0	clear	W. Bolten.
Cedar Keys, Florida	30.14	765.5	30.16	766.1	70	21.1	66	se.	12	5.4		4 cs	hz.			0	0	fair	F. W. Mixer.
Champaign, Illinois	29.22	742.2	30.02	762.5	49.3	9.6	82	nw.	12	5.4		0	3 s		nw.	0.68	17.3	clear	L. A. Welsh.
Charleston, S. Carolina	30.13	765.3	30.18	766.6	70	21.1	76	sw.	3	1.3		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.26	743.2	30.10	764.5	66.0	18.9	58	sw.	4	1.8		0	hz.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.30	744.2	30.11	764.8	63.0	17.2	78	s.	1	0.4		6 cs	sk.	sw.		0	0	fair	B. L. Goulding.
Cheyenne, Wyoming	24.24	615.7	30.11*	764.8	24.4	— 4.2	75	n.	5	2.2		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.27	743.4	29.97	761.2	50.5	10.3	81	w.	8	3.6		0	0			0.10	2.5	clear	J. Mitchell.
Chincoteague, Virginia	29.99	761.7	30.01	762.2	65	18.3	73	sw.	4	1.8		0	hz.			0.01	0.3	clear	V. P. Temple.
Cincinnati, Ohio	29.32	744.7	29.97	761.2	65.8	18.8	84	sw.	4	1.8			10 ks		sw.	0.10	2.5	threatening	R. B. Watkins.
Cleveland, Ohio	29.13	739.9	29.86	758.4	60.4	15.8	88	s.	13	5.8			10 n		sw.	0.15	3.8	light rain	J. B. Newlin.
Coleman City, Texas	28.28	718.3	30.06	763.5	55	12.8	74	n.	20	8.9			10 s		n.	0	0	cloudy	L. Dorman.
Columbus, Ohio	29.08	738.0	29.92	760.0	63	17.2	93	sw.	6	2.7			10 ks		sw.	0.12	3.0	threatening	D. Cuthbertson.
Concho, Texas	28.16	715.3	30.06	763.5	56	13.3	80	n.	12	5.4			10 s			0	0	cloudy	W. W. McConihe.
Davenport, Iowa	29.39	746.5	30.03	762.7	47	8.3	63	nw.	12	5.4		3 ck	0	w.		0.17	4.3	clear	R. R. Martin.
Dayton, Washington T'y	28.42	721.9	30.17	766.3	41.5	5.3	77	e.	3	1.3		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.58	649.7	30.09	764.3	31	— 0.6	92	s.	3	1.3		1 c	0	nw.		0.01	0.3	clear	G. W. Scott.
Decatur, Texas					55	12.8	55	n.	10	4.5		5 ck	0	n.		inap.	inap.	fair	D. J. Carr.
Delaware Breakwater, Del.	29.97	761.2	29.99	761.7	59	15.0	81	sw.	11	4.9		0	hz			0	0	clear	A. Schneider.
Denison, Texas	29.24	742.7	30.03	762.7	55.0	12.8	86	n.	6	2.7			10 s			0.15	3.8	cloudy	J. McGlone.
Denver, Colorado	25.00	635.0	30.16	766.1	37.0	2.8	66	n.	6	2.7		0	3 s		calm	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.21	741.9	30.10	764.5	41	5.0	65	nw.	20	8.9		0	3 s		nw.	0.11	2.8	clear	F. W. Conrad.
Detroit, Michigan	29.14	740.1	29.84	757.9	61.2	16.2	93	s.	7	3.1			10 s		calm	0.08	2.0	threatening	C. F. R. Wappenhans.
Dodge City, Kansas	27.65	702.3	30.20	767.1	43	6.1	83	n.	14	6.3			10 s			0	0	cloudy	E. A. Thomas.
Dubuque, Iowa	29.29	744.0	29.99	761.7	43.8	6.6	74	w.	8	3.6		0	3 ks		nw.	0.27	6.9	clear	J. Harvey Smith.
Duluth, Minnesota	29.03	737.3	29.73	755.1	42	5.6	62	sw.	11	4.9			10 s		sw.	0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.22	742.2	30.02	762.5	67.0	19.4	90	e.	6	2.7			10 s			0.37	9.4	cloudy	F. Belford.
Eagle Rock, Idaho	25.42	645.7	30.10	764.5	31	— 0.6	74	n.	8	3.6		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.72	754.9	29.79	756.7	42	5.6	92	s.	11	4.9			10s;fg			0.13	3.3	cloudy	J. H. Melton.
El Paso, Texas	26.27	667.2	29.91	759.7	55	12.8	70	e.	4	1.8		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.16	740.7	29.88	758.9	59	15.0	87	s.	11	4.9			10 n			0.06	1.5	cloudy	R. H. Paxton.
Escanaba, Michigan	29.13	739.9	29.79	756.7	50	10.0	86	sw.	5	2.2		0	0			1.21	30.7	clear	C. Dill.
Fort Apache, Arizona	24.98	634.5	29.80	756.9	38	3.3	51	ne.	2	0.9		0	0			0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.48	698.0	30.32	770.1	32	0.0	81	sw.	5	2.2		0	2 s		w.	0	0	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.49	723.6	30.05	763.3	37.0	2.8	56	w.	15	6.7		0	0			inap.	inap.	clear	A. Pritchard.
Fort Benton, Montana	27.52	699.0	30.31	769.9	30	— 1.1	80	calm	0	0		3 c	0			0	0	clear	G. W. Davis.
Fort Buford, Dakota	28.23	717.0	30.21	767.3	34	1.1	72	w.	13	5.8		0	0			0.13	3.3	clear	A. H. Bell.
Fort Custer, Montana	27.15	689.6	30.25	768.3	38	3.3	30	nw.	3	1.3		0	2 s		calm	0.01	0.3	clear	V. Verge.
Fort Davis, Texas	25.21	640.3	29.93	760.2	52	11.1	90	n.	8	3.6			10 s		n.	0	0	cloudy	J. Williams.
Fort Elliott, Texas	27.39	695.7	30.09	764.3	48	8.9	71	nw.	12	5.4			10 s		nw.	0	0	cloudy	W. J. Cundall.
Fort Gibson, Indian T'y																			J. B. Campbell.
Fort Grant, Arizona	25.24	641.1	29.85	758.2	62	16.7	33	se.	6	2.7		0	0			0	0	clear	T. J. Macgowan.
Fort Keogh, Montana	27.79	705.9	30.24	768.1	33	0.6	81	sw.	12	5.4		5 c	0	w.		0.05	1.3	fair	W. B. Stockman.
Fort Macon, North Carolina	30.14	765.5	30.15	765.8	68	20.0	78	w.	17	7.6		hz.	fg.	calm	calm	0	0	dense haze	L. Leonardy.
Fort McKavett, Texas	27.81	706.4	30.05	763.3	61	16.1	84	n.	2	0.9		0	0			1.26	32.0	clear	J. E. Thatcher.
Fort Missoula, Montana	27.05	687.1	30.35	770.9	36	2.2	82	w.	1	0.4		0	0			0	0	clear	J. H. Jones.
Fort St. Michaels, Alaska	30.35	770.9	30.38	771.6	36	2.2	90	n.	3	1.3		0	0			0	0	clear	A. P. Leavitt.
Fort Shaw, Montana	26.66	677.2	30.26	768.6	30	— 1.1	88	w.	6	2.7		6 cs	0			0	0	fair	A. L. Mathews.
Fort Sill, Indian Territory	28.91	734.3	30.13	765.3	50	10.0	69	n.	8	3.6		4 ck	0	w.		0	0	fair	T. Cleary.
Fort Stevenson, Dakota	28.45	717.5	30.08	764.0	30	— 1.1	80	nw.	23	10.3		0	1 s			0.11	2.8	clear	W. Burrows.
Fort Verde, Arizona					55.2	12.9	42	nw.			1	0	0			0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.71	627.6			31.6	— 0.2	83	calm	0	0			10 k			0	0	cloudy	T. M. Ambler.
Fredericksburg, Texas	28.29	718.6	30.01	762.2	59	15.0	100	n.	5	2.2			10 s			0.61	15.5	cloudy	H. S. Miles.
Galveston, Texas	29.87	758.7	29.92	760.0	73	22.8	85	sw.	4	1.8		5 cs	5 s	sw.		0.12	3.0	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.26	743.2	29.92	760.0	50.0	10.0	77	w.	12	5.4		0	0			0.33	8.4	clear	W. A. Reid.
Hatteras, North Carolina	30.12	765.0	30.14	765.5	63	17.2	78	sw	18	8.0		7 ck	sk.	sw.		0	0	fair	R. M. Crawford.
Helena, Montana	26.06	661.9	30.24	768.1	33	0.6	71	calm	0	0		6 c	0			0	0	fair	S. Wheaton.
Henrietta, Texas	29.17	740.9	30.15	765.8	59.0	15.0	42	n.	10	4.5		0	0			0.07	1.8	clear	J. W. Byram.
Huron, Dakota	28.70	729.0	30.04	763.0	33.2	0.7	71	nw.	25	11.2			10 ks		nw.	0.04	1.0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.19	741.4	29.98	761.5	55.5	13.1	81	nw.	6	2.7			10 s		nw.	0.37	9.4	cloudy	O. Schutze
Indianola, Texas	29.91	759.7	29.94	760.5	69.2	20.7	93	n.	17	7.6		10 k	0	nw.		2.33	59.2	cloudy	I. A. Reed.
Jacksboro, Texas	28.93	734.8	30.08	764.0	53	11.7	86	nw.	6	2.7			10 s		n.	0.06	1.5	cloudy	J. P. Sherry.
Jacksonville, Florida	30.14	765.5	30.18	766.6	70	21.1	76	calm	0	0		2 cs	0			inap.	inap.	clear	J. W. Smith.
Keokuk, Iowa	29.41	747.0	30.06	763.5	49.0	9.4	77	nw.	3	1.3		0	0			0.07	1.8	clear	F. Z. Gosewisch.
Key West, Florida	30.06	763.5	30.08	764.0	73.0	22.8	76	e.	4	1.8			8 n		e.	0.08	2.0	light rain	L. M. Melbourne.
Kittyhawk, North Carolina	30.10	764.5	30.12	765.0	65	18.3	63	w.	13	5.8		1 c	hz.	w.		0	0	clear	E. A. Beals.
Knoxville, Tennessee	29.08	738.6	30.10	764.5	63.3	17.4	72	sw.	1	0.4		6 cs	0	w.		0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.17	740.9	29.93	760.2	43	6.1	51	w.	16	7.2			10 s		w.	0.44	11.2	cloudy	S. C. Emery.
La Mesilla, New Mexico	26.08	662.4	29.84	757.9	50.0	10.0	41	calm	0	0		1 k	0			0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.30	744.2	30.18	766.6	47	8.3	63	nw.	2	0.9		5 cs	0	sw.		0.02	0.5	fair	A. W. Browne.
Lewiston, Idaho	29.40	746.7	30.24	768.1	41.0	5.0	80	e.	2	0.9		0	0			0	0	clear	J. M. Burlew.
Little Rock, Arkansas	29.68	753.9	29.99	761.7	62	16.7	100	n.	2	0.9			10 n		ne.	1.26	32.5	light rain	W. U. Simmons.
Los Angeles, California	29.61	752.1	30.01	762.2	56.1	13.4	62	e.	1	0.4			10 s		calm	0	0	cloudy	E. F. Kubel.
Louisville, Kentucky	29.39	746.5	29.94	760.5	64	17.8	90	sw.	7	3.1			10 n			0.29	7.4	light rain	H. O. Smyth.
Lynchburg, Virginia	29.39	746.5	30.07	763.8	60.0	15.6	75	calm	0	0		3 ck	4 s	w.	w.	inap.	inap.	fair	W. R. Bushby.
Madison, Wisconsin	28.92	734.6	29.92	760.0	45	7.2	83	nw.	6	2.7		0	2 s		w.	0.42	10.7	fair	C. A. Shaw.
Marquette, Michigan	29.04	737.6	29.76	755.9	53	11.7	66	sw.	10	4.5		0	0			0.27	6.9	clear	J. Gilligan.
Memphis, Tennessee	29.68	753.9	30.01	762.2	66	18.9	93	se.	8	3.6			10 n			0.20	5.1	light rain	D. T. Flannery.
Milwaukee, Wisconsin	29.17	740.9	29.91	759.7	49	9.4	71	sw.	12	5.4		0	0			0.26	6.6	clear	W. Line.
Mobile, Alabama	30.02	762.5	30.06	763.5	72	22.2	84	e.	3	1.3			10 n			0.15	3.8	light rain	J. D. Paxton.
Montgomery, Alabama	29.88	758.9	30.11	764.8	65	18.3	84	se.	4	1.8			10 s			0	0	cloudy	J. B. McLaughlin.

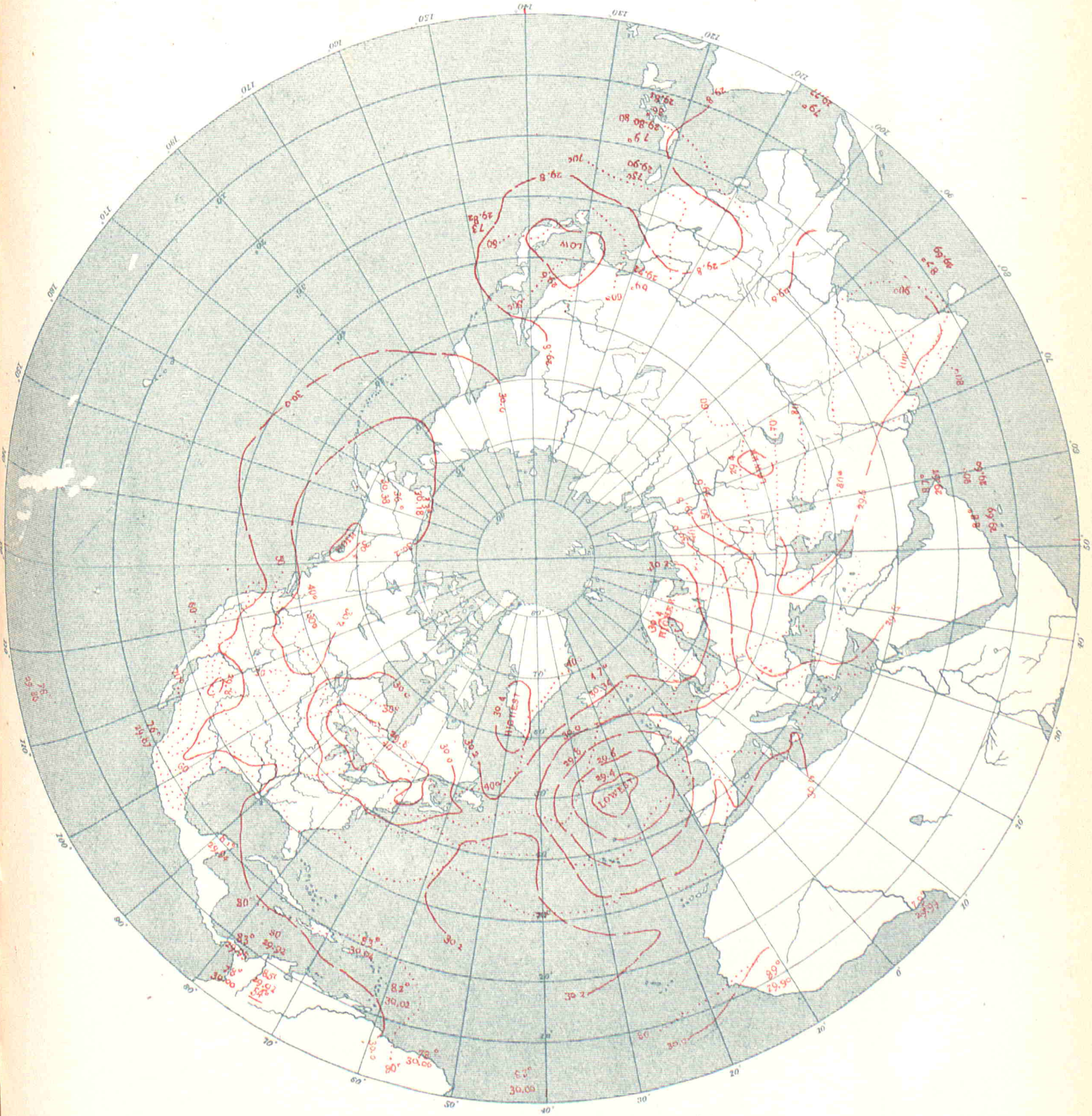
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Moorhead, Minnesota	28.87	733.3	29.85	758.2	29	— 1.7	88	nw.	26	11.6			10 n		nw.	0.15	3.8	light snow	H. Bessant.
Morgantown, W. Virginia	28.99	736.3	30.00	762.0	62.0	16.7	84	sw.	2	0.9			10 s			0.11	2.8	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.54	597.9	29.72	754.9	27.5	— 2.5	96	nw	37	16.5			fg.		nw.	1.00	25.4	dense fog	J. G. Linsley
Nashville, Tennessee	29.49	749.0	30.02	762.5	68.5	20.3	72	s.	4	1.8		4 cs	6 ks	w.	w.	inap.	inap.	cloudy	L. A. Jesunofsky.
New Haven, Connecticut	29.78	756.4	29.90	759.4	53	11.7	74	se.	5	2.2		5 cs	sk.			0.01	0.3	fair	J. H. Sherman.
New London, Connecticut	29.86	758.4	29.91	759.7	52	11.1	86	w.	2	0.9		7 k	fg.	calm		0.10	2.5	fair	J. G. Lynch.
New Orleans, Louisiana	29.95	766.7	30.00	762.0	73.0	22.8	90	s.	10	4.5			10 n		s.	0.17	4.3	light rain	L. Dunne.
Newport, Rhode Island	29.85	758.2	29.90	759.4	48.0	8.9	96	sw.	4	1.8			fg.			1.56	39.6	dense fog	W. McGillivray.
New River, N. Carolina																			C. C. Corbin.
New Shoreham, Rhode I'd.	29.89	759.2	29.92	760.0	51.0	10.6	93	sw.	6	2.7		7 cs	fg.	nw.		2.37	60.2	cloudy	W. Davis.
New York, New York	29.77	756.1	29.95	760.7	57	13.9	74	w.	2	0.9		0	0			0	0	clear	E. B. Garriott.
Norfolk, Virginia	30.03	762.7	30.06	763.5	68	20.0	66	w.	13	5.8		0	hz.			0.08	2.0	clear	J. T. Elker.
North Platte, Nebraska	27.32	693.9	30.19	766.8	35.1	1.7	82	n.	8	3.6		0	5 s			0	0	fair	E. F. Brady.
Olympia, Washington T'y	30.06	763.5	30.10	764.5	40.0	4.4	89	ne.	3	1.3		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	29.02	737.1	30.18	766.6	42.8	6.0	65	w.	10	4.5		2 cs	0			0.02	0.5	clear	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.16	766.1	30.18	766.6	32.6	0.4	100	wsw.	14	6.3			10 s			0.02	0.5	cloudy	P. H. Ray.
Oswego, New York	29.53	750.0	29.86	758.4	58.0	14.4	58	w.	11	4.9		hz.	hz.			0	0	clear	S. W. Beall.
Palestine, Texas	29.47	748.5	30.02	762.5	63	17.2	93	nw.	6	2.7			fg.			0.63	16.0	dense fog	L. M. Pindell.
Pensacola, Florida	30.05	763.3	30.08	764.0	74.0	23.3	82	se.	6	2.7			10 s		s.	inap.	inap.	cloudy	M. McGauran.
Philadelphia, Pa	29.88	758.9	29.98	761.5	55	12.8	69	sw.	4	1.8		0	hz.			inap.	inap.	clear	T. F. Townsend.
Pike's Peak, Colorado	17.74	450.6	29.80	756.9	6	—14.4	100	sw.	16	7.2			10 n		sw.	0.55	14.0	heavy snow	L. M. Dey.
Pioche, Nevada	24.15	613.4	30.07	763.8	34.8	1.6	44	calm	0	0		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.15	740.4	29.95	760.7	59.4	15.2	86	s.	4	1.8			10 s		sw.	0.05	1.3	cloudy	J. H. Bryce.
Poplar River, Montana	28.10	713.7						nw.			1	0	0			0.02	0.5	clear	U. D. Maxwell.
Port Eads, Louisiana	30.03	762.7	30.04	763.0	74.0	23.3	83	s.	13	5.8			10ks;s		s.	0	0	threatening	H. G. Christian.
Port Huron, Michigan	29.14	740.1	29.82	757.4	56.3	13.5	100	s.	3	1.3			fg.			0.01	0.3	dense fog	W. O. Bailey.
Portland, Maine	29.74	755.4	29.79	756.7	53.0	11.7	80	w.	5	2.2			10 s		calm	0.66	16.8	cloudy	D. C. Murphy.
Portland, Oregon	29.96	761.0	30.03	762.7	52.2	11.2	72	nw.	6	2.7		0	0			0	0	clear	M. L. Hearne.
Portsmouth, N. Carolina					65	18.3	73	sw.	10	4.5		0	0			0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.81	630.2	29.91	759.7	40	4.4	40	s.	1	0.4		0	0			0	0	clear	J. McN. Wright.
Provincetown, Mass.	29.84	757.9	29.87	758.7	47	8.3	100	sw.	4	1.8			10n;fg			1.12	28.4	light rain	P. T. Jenkins.
Punta Rassa, Florida	30.10	764.5	30.11	764.8	70	21.1	62	ne.	10	4.5		1 c	0	calm		0	0	clear	W. J. Evans.
Red Bluff, California	29.53	750.0	29.90	759.4	60.1	15.6	40	n.	6	2.7		0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.66	753.4	29.90	759.4	73.2	22.9	90	e.	7	3.1		2 ck	4 s	w.	e	0	0	fair	P. M. Wilson.
Rochester, New York	29.20	741.7	29.86	758.4	54	12.2	66	sw.	10	4.5		2 c	sk.	nw.		0	0	dense smoke	F. Gillam.
Roseburg, Oregon	29.42	747.3	29.97	761.2	44	6.7	83	calm	0	0		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	29.81	757.2	29.89	759.2	56.4	13.6	69	se.	4	1.8		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.49	749.0	30.08	764.0	49.0	9.4	96	nw.	8	3.6		5 cs;hz	0	sw.		0.80	20.3	fair	J. H. Webber.
St. Paul, Minnesota	28.98	736.1	29.83	757.7	48.0	8.9	77	w.	19	8.5			10 s		w.	0.13	3.3	cloudy	P. F. Lyons.
St. Vincent, Minnesota	28.98	736.1	29.84	757.9	26	— 3.3	100	nw.	36	16.1			10 n		nw.	0.55	14.0	heavy snow	G. Kingsbury.
Salt Lake City, Utah	25.80	655.3	30.12	765.0	45	7.2	36	ne.	4	1.8		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.29	744.0	29.99	761.7	63	17.2	93	n.	6	2.7			10 s		ne.	1.04	26.4	cloudy	E. Lane.
San Diego, California	29.88	758.9	29.95	760.7	61.0	16.1	78	ne.	2	0.9			fg.			0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.19	741.4	29.86	758.4	62.8	17.1	84	sw.	14	6.3			10 s		w.	0.04	1.0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.91	759.7	29.95	760.7	56.0	13.3	86	sw.	6	2.7		0	hz.		calm	0	0	clear	B. A. Blundon.
San Francisco, California	29.90	759.4	29.97	761.2	50.5	10.3	93	sw.	10	4.5			fg.		sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.32	592.3	29.93	760.2	40	4.4	79	s.	1	0.4			10 n		sw.	0.79	20.1	light rain	H. U. Jones.
Savannah, Georgia	30.10	764.5	30.19	766.8	68	20.0	76	s.	1	0.4		0	fg.			0	0	clear	H. W. Ford.
Shreveport, Louisiana	29.73	755.1	29.97	761.2	68	20.0	93	calm	0	0		2 c	7 k		e.	0.90	22.9	clearing	E. N. Meekins.
Silver City, New Mexico	24.24	615.7	29.79	756.7	48	8.9	54	calm	0	0		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	30.34	770.6	30.40	772.1	47.6	8.7	70	ne.	6	2.7			10 s		calm	0	0	cloudy	J. J. McLean.
Smithville, North Carolina	30.16	766.1	30.20	767.1	69	20.6	76	w.	12	5.4		0	hz.			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.21	716.5	30.26	768.6	39	3.9	92	calm	0	0		0	0			0	0	clear	D. Moore.
Springfield, Illinois	29.41	747.0	30.08	764.0	51	10.6	80	nw.	3	1.3		0	0			0.63	16.0	clear	T. B. Jennings.
Springfield, Massachusetts	29.74	755.4	29.87	758.7	54.0	12.2	80	s.	6	2.7		10 cs	hz.			0.50	12.7	cloudy	T. S. Outram.
Springfield, Mo	28.68	728.5	30.16	766.1	49	9.4	86	n.	3	1.3		2 k	3 s	w.		1.03	26.2	fair	J. B. Marbury.
Starkville, Miss	29.60	751.8			69	20.6	90	se.	7	3.1			10 n			0.08	2.0	light rain	M. J. Wright.
Stockton, Texas	27.06	687.3	30.07	763.8	55.0	12.8	86	e.	16	7.2			10 s		e.	0	0	cloudy	J. O'Dowd.
Thatcher's Island, Mass.	29.84	757.9	29.89	759.2	50.5	10.3	96	w.	15	6.7			10 n		w.	1.06	26.9	light rain	F. R. Day.
Toledo, Ohio	29.16	740.7	29.84	757.9	62.5	16.9	88	sw.	7	3.1			10 s		sw.	0.32	8.1	cloudy	A. Buell.
Tucson, Arizona	27.50	698.5	29.84	757.9	60	15.6	35	s.	4	1.8		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.83	757.7	30.20	767.1	40	4.4	82	se.	4	1.8		2 cs	0			0	0	clear	J. Daly.
Uvalde, Texas	29.02	737.1	29.97	761.2	63	17.2	93	ne.	4	1.8		0	0			0.10	2.5	clear	E. C. Imlay.
Vicksburg, Mississippi	29.76	755.9	30.00	762.0	66	18.9	90	calm	0	0			10 n		sw.	0.78	19.8	light rain	H. T. Brisbane.
Visalia, California	29.52	749.8	29.89	759.2	57	13.9	69	nw.	1	0.4		0	0			0	0	clear	W. L. Seward.
Washington, D. C.	29.90	759.4	30.01	762.2	62.9	17.2	78	s.	2	0.9		1 k	hz.	nw.		0	0	clear	B. M. Purssell.
West Las Animas, Colorado	26.32	668.5	30.18	766.6	43.5	6.4	44	e.	13	5.8		0	9 s		sw.	0	0	cloudy	J. Grover.
Williamsport, Pa	29.36	745.7	29.96	761.0	51.5	10.8	73	calm	0	0		0	sk.			0	0	clear	B. F. Hough.
Wilmington, N. Carolina	30.12	765.0	30.18	766.6	67	19.4	68	w.	10	4.5		hz.	0			0	0	dense haze	A. T. Sherwood.
Winnemucca, Nevada	25.73	653.5	30.08	764.0	38	3.3	45	ne.	11	4.9		0	0			0	0	clear	J. R. Williams.
Yankton, Dakota	28.83	732.3	30.11	764.8	38	3.3	62	nw.	20	8.9		0	0			0	0	clear	J. H. Atfield.
Yuma, Arizona	29.69	754.1	29.84	757.9	67.0	19.4	47	calm	0	0		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.05	560.1			53.5	11.9	76	calm	0	0			9 s;n			0.02	0.5	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.01	762.2	30.02	762.5	82	27.8	87	e.				2 k	5 ks	e.		0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.97	761.2	30.00	762.0	78	25.6	86	calm	0	0			10 ks		s.	0.70	17.8	cloudy	J. I. Plume.
Havana, Cuba, W. I.	30.03	762.7	30.08	764.0	77	25.0	74	se.	1.2	0.5		2 cs	1 ks	calm	calm	0	0	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.00	762.0	30.01	762.2	80.0	26.7	78	calm	0	0		5 cs	0	w.		0	0	fair	Robert Johnston.
Magua, San Domingo, W. I					72	22.2		calm			0	4 ks	0	w.		0.23	5.8		S. M. Pike.
Navassa, W. I.																			F. M. Everett.
Paramaribo, S. A.	30.06	763.5	30.06	763.5	78	25.6	86	e.			2	4 c	5 k	e.		0.120	3.0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.47	748.5	29.92	760.0	85	29.4	68	calm			0	3 ck	1 k	calm	calm	0.04	1.0	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							92	se.			1	cs	1 ks		se.	0	0	clear	Earl Flint.
Santiago de Cuba, W. I.	30.00	762.0	30.02	762.5	77	25.0	86	n.	2.4	1.1		2 ck	2 ks			0.69	17.5	fair	Robert Mason.
York Factory, B. A.	29.93	760.2	29.98	761.5	20.0	— 6.7	100	n.	39	17.4			10 n		n.	0.08	2.0	snowing	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Alert, Port Mozambique, Mozambique	30.04	763.0	80	26.7	78	s.			3-4		3							d. clouds.
H. M. S. Alexandra, Suda Bay, Turkey in Europe	29.82	757.4	70	21.1	71	wnw.			5-6		2							d. clouds.
H. M. S. Amethyst, N. 14° 46′ W. 25° 09′	30.05	763.3	72.5	22.5	95	nne.			6		1	nne.				1	ne.	blue sky.
H. M. S. S. Champion, N. 10° 00′ W. 129° 45′			79	26.1	90	n.			5		1					4	ne.	blue sky.
H. M. S. Comus, Singapore, Malay Peninsula	29.77	756.1	78.5	25.8	86	nne.			1		8							misty
H. M. S. Condor, N. 31° 52′ E. 29° 45′	29.84	757.9	69	20.6		wsw.			3		3	wsw.				2	wsw.	d. clouds.
H. M. S. Coquette, N. 33° 30′, E. 28° 02′	29.82	757.4	69	20.6		wnw.			3		2	wnw.				5	nw.	d. clouds.
H. M. S. Diamond, S. 32° 56′, E. 152° 48′	30.34	770.6	64.5	18.1	81	e.			2-4		1					3-4	ese.	blue sky.
H. M. S. Dido, N. 13° 05′, W. 59° 30′	30.07	763.8	80	26.7		e.			2		5	e.						d. clouds.
H. M. Dock Yard, Bermuda, W. I.	30.15	765.8	68	20.0	79	wnw.			1-2		3	wnw.						d. clouds.
H. M. S. Druid, N. 17° 29′, W. 88° 11′	29.94	760.5	81	27.2	89	e.			2		3	e.						d. clouds.
H. M. S. Dwarf, S. 32° 55′, W. 60° 32′	29.98	761.5	52.5	11.4	?	se.			1-2		0					1	se.	d. clouds.
H. M. S. Eclipse, S 23° 30′, E. 43° 46′	30.08	764.0	78	25.6		wsw.			1		3							d. clouds.
H. M. S. Emerald, S. 52° 50′, W. 139° 55′	29.14	740.1	44	6.7	100	nne.			4-5		10					4	ne	squally.
H. M. S. Espiegle, S. 32° 48′, E. 153° 10′	30.29	769.4	65	18.3	48	ese.			4		0					3	se.	blue sky.
H. M. S. Euryalus, Trincomalee, Ceylon	29.69	754.1	87	30.6	69	sw.			2-3		2	calm						d. clouds.
H. M. S. Fantome, N. 12° 56′, W. 72° 34′	29.92	760.0	80	26.7		e.			3-4		4	e.				3	e.	d. clouds.
H. M. S. Flying Fish, N. 37° 48′, E. 124° 40′.	29.67	753.6	54.5	12.5	76	w.			3-5		2					1	wnw.	squally.
H. M. S. Fawn, S. 0° 37′, E. 69° 47′	29.78	756.4	83.5	28.6	75	sw.			2		7	sw.				1	sw.	d. clouds.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.01	762.2	48.5	9.2	92	se.			1		9							misty.
H. M. S. Garnet, Colonia, Uruguay	30.03	762.7	58	14.4	87	sse.			1		0							blue sky.
H. M. S. Griffon, N. 46° 30′ W. 54° 20′	30.31	769.9	40	4.4	82	e.			2							2	e.	misty.
H. M. S. Inconstant, S. 28° 10′, E. 10° 00′	30.32	770.1	65	18.3	73	ese.			3		4	e.				3	e.	d. clouds.
H. M. S. Iron Duke, N. 32° 44′, E. 129° 52′	29.75	755.6	62	16.7	94	calm			0		5							misty.
H. M. S. Kingfisher, S. 2° 20′ W. 81° 36′	30.00	762.0	71	21.7		ssw.			3		5	s.				1	sw.	d. clouds.
H. M. S. Lark, S. 8° 09′, E. 156° 25′	29.84	757.9	82.3	27.9		ne.			1		5					1	e.	d. clouds.
H. M. S. Magpie, N. 34° 48′, E. 140° 04′	29.67	753.6	66.6	19.2	94	se.			2		10					2	se.	raining.
H. M. S. Northampton, N. 35° 24′, W. 63° 50′	30.16	760.1	67	19.4	74	nnw.			1		7	nnw.				3	wnw.	d. clouds.
H. M. S. Orontes, N. 11° 50′, W. 62° 00′	29.97	761.2	81.5	27.5	93	ese.			4		6	e.				2	con.	showery.
H. M. S. Phœnix, N. 17° 16′, W. 76° 17′	29.98	761.5	80	26.7	100	e.			2		0					2	e.	blue sky.
H. M. S. Rambler, St. Thomas Island, Gulf of Guinea	29.99	761.7	78	25.6	100	se.			4		10	sse.				3	sse.	d. clouds.
H. M. S. Rocket, N. 48° 27′ W. 123° 27′	30.16	766.1	44	6.7	92	calm			0		3							d. clouds.
H. M. S. Sylvia, N. 23° 59′, W. 22° 45′	30.19	766.8	71.5	21.9	71	calm			0		6	calm					nnw.	d. clouds.
H. M. S. Swiftsure, N. 42° 50′ W. 9° 31′	29.75	755.6	56	13.3	87	s.			7		8	sse.				7	ssw.	raining.
H. M. S. Tenedos, N. 47° 34′ W. 59° 07′	30.06	763.5	46	7.8	92	ene.			5-6		10							drizzling.
H. M. S. Triumph, Coquimbo, Chili	29.95	760.7	54	12.2	68	calm			0		10	calm						d. clouds.
H. M. S. Woodlark, Ras el Had, Arabia	29.61	752.1	86.5	30.3	84	nw.			1-2		2	nw.						misty.
PORTUGUESE NAVAL.																		
Rio Lima, Porto Praya, Cape Verd Island	30.26	768.5	73.0	22.8	97	ne.			2		2		ne.			1		d. clouds.
Tamega, Macao, China	29.75	755.6	81.5	27.5	88	e.			3		10							d. clouds.
SWEDISH NAVAL.																		
Sago, N. 57° 44′, E. 9° 59′	30.22	767.6	51.4	10.8	95	ene.			1		9							overcast.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	30.06	763.5	75	23.9	86	se.	8	3.6			10		se.	0	0			cloudy.
Navy Yard, Portsmouth, N. H	29.83	757.7	52	11.1	86	w.	7	3.1			9		nw.	1.10	27.9			misty.
Naval Hospital, Yokohama, Japan	29.53	750.0	64.5	18.1	92	calm			0		10		s.	0.77	19.6			raining.
Adams, Mare Island, Cal	29.69	754.1	57	13.9	87	sw.			1-2		10		sw.			sm'h		cloudy.
Alaska, Callao, Peru	29.95	760.7	60	15.6	94	sw.			1		5			0	0	sm'h		fair.
Alert, Kobe, Japan*	29.45	748.0	66	18.9	94	w.			1		10		calm			sm'h		raining.
Alliance, N. 37° 07′ W. 74° 05′	30.05	763.3	56	13.3	87	w.			2		0			light	light	sm'h		clear.
Ashuelot, Kobe, Japan	29.52	749.8	64	17.8	100	sw.			2		10		calm					raining.
Brooklyn, Montevideo, Uruguay	30.01	762.2	61	16.1	94	sw.	4	1.8			2		calm	0.14	3.6	sm'h		fair.
Colorado, New York, N. Y.	29.96	761.0	65	18.3	73	wnw.	6	2.7			0			0	0			hazy.
Essex, Montevideo, Uruguay.	30.03	762.7	56	13.3	87	sw.			1		2					sm'h		clear.
Franklin, Norfolk, Va	30.10	764.5	68	20.0	56	sw.	9.6	4.3			0			0	0			clear.
Galena, N. 35° 16′ W. 6° 16′	30.11	764.8	65	18.3	94	ssw.			3		2		sw.			long	sw.	fair.
Independence, Mare Island, Cal	29.78	756.4	54	12.2	73	sw.			3		5		sw.	0	0			fair.
Iroquois, San Francisco, Cal	29.94	760.5	53	11.7	86	w.			4		10							misty.
Kearsage, N. 37° 06′ W. 73° 58′	30.05	763.3	55	12.8	100	wsw.			3		0					sm'h		clear.
Lackawanna, Panama Bay, Panama*	29.86	758.4	79	26.1	86	wnw.			2		10		ne.	rain	rain	sm'h	nw.	cloudy.
Lancaster, N. 35° 16′, W. 6° 21′*	29.89	759.2	69	20.6	85	sw.			1		2		calm	0	0	sm'h	sw.	fair.
Marion, S. 34° 32′, W. 52° 34′	29.96	761.0	62	16.7	100	ssw.			2		8					sm'h		cloudy.
Michigan, Erie, Pa	29.83	757.7	59	15.0	100	s.			2		10		s.					raining.
Minnesota, Newport, R. I	29.89	759.2	50	10.0	93	ssw.	3	1.3			10							foggy.
Monocacy, Nagasaki, Japan	29.72	754.9	64	17.8	89	calm			0		2		calm					fair.
New Hampshire, Newport, R. I	29.89	759.2	50	10.0	100	sw.			1		10					sm'h		foggy.
Nipsic, N. 35° 14′ W. 6° 12′	30.09	764.3	66	18.9	79	sw.			3		2					long	sw.	clear.
Onward, Callao, Peru†	30.11	764.8	62	16.7	88	sse.			2		10		n.			long	w.	cloudy.
Palos, Kobe, Japan	29.59	751.6	60	15.6	100	sw.			1		10		calm					drizzling.
Passaic, Washington, D. C	30.09	764.3	63	17.2	94	se.			1		2		se.					fair.
Pensacola, Callao, Peru	29.99	761.7	63	17.2	89	sse.	4	1.8			8		sse.	0	0	sm'h		cloudy.
Portsmouth, Plymouth, Eng*†	30.03	762.7	61	16.1	100	ssw.			3		8		sw.					fair.
Powhatan, Norfolk, Va	30.07	763.8	68	20.0	60	s.			2		2							clear.
Quinnebaug, N. 35° 15′, W. 6° 22′	30.07	763.8	64	17.8	89	ssw.			3		2		calm			long	w.	clear.
Ranger, N. 24° 00′, W. 107° 15′*	29.87	758.7	78	25.6	73	se.			1		2		calm	0	0	mod.	s;w	fair
Richmond, Kobe, Japan*	29.53	750.0	65	18.3	100	wsw.			1		10			0.13	3.3			raining.
Saratoga, Plymouth, Eng	29.81	757.2	58	14.4	76	ssw.			2-3		5		se.	0	0	sm'h		fair.
Shenandoah, Boston, Mass*	29.92	760.0	51	10.6	93	wsw.			1		10							hazy.
St. Louis, League Island, Pa	30.15	765.8	54	12.2	87	calm	0	0			2			0	0			fair.
Swatara, N. 37° 27′ E. 125° 33′*	29.47	748.5	58	14.4	76	wnw.			4		2		nw.			mod.	wnw.	fair.
Tennessee, N. 37° 06′, W. 73° 55′	30.08	764.0	58	14.4	76	wsw.	12	5.4			2		sw.			long	sw.	hazy.
Vandalia, N. 37° 01′ W. 74° 00′*†	30.29	769.4	62	16.7	88	wsw.			4		0					sm'h		hazy.
Wabash, Boston, Mass	29.90	759.4	50	10.0	93	sw.	2	0.9			10		sw.	1.10	27.9			raining.
Wachusetts, Fort Wrangle, Alaska	30.33	770.4	43	6.1	100	calm			0		0					sm'h		clear.
Wyoming, Port Royal, S. C	30.19	766.8	68	20.0	79	calm	0	0			0			0	0			hazy.
Yantic, N. 37° 12′, W. 73° 57′*	30.02	762.5	55	12.8	93	wsw.			2		5					sm'h		fair.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	Upper. 0-10	Lower. 0-10	Upper. From.	Lower. From.	Inch.	Mill.			
Allan Line.																		
S. S. Nova Scotian, N. 48° 08′, W. 61° 48′	29.85	758.2	39	3.9		sse.			4		10		sse.			slight	se.	raining.
S. S. Prussian, N. 45° 30′, W. 56° 51′*	30.00	762.0	40	4.4		sw.			6		9		s.	8 h'r	8 h'r	light	sse.	hazy.
American Steamship Company.																		
S. S. Illinois, N. 38° 56′, W. 71° 54′	29.93	760.2	48	8.9	92	ssw.			1		2		ssw.			sm'h	w.	clear.
S. S. Indiana, N. 40° 06′, W. 55° 45′†	30.32	770.1	60	15.6	76	w.			3		1		wnw.	1 h'r	1 h'r	r'gh	w.	cloudy.
S. S. Lord Clive, N. 39° 48′, W. 64° 47′*	29.90	759.4				s.			2		9		wsw.	4 h'r	4 h'r	light	sw.	thund'r st'm
S. S. Ohio, N. 49° 32′, W. 24° 42′†	29.35	745.5	56	13.3	80	une.			4		6		ne.			h'vy	n.	squally.
Anchor Line.																		
S. S. Bolivia, N. 42° 05′, W. 53° 57′†	30.07	763.8	55	12.8		sw			1		1			0	0	long	w.	
S. S. India, N. 15° 54′, E. 57° 01′*	29.60	751.8	90	32.2	92	wsw.			3		2					cross		fair.
S. S. Utopia, Alicante, Spain†	30.06	763.5	80	26.7	55	s.			2		3		s.	0	0			fair.
Atlas Line.																		
S. S. Alvo, N. 22° 40′ W. 74° 55′	30.11	764.8	98.5?	36.9?		one.			3		6			0	0			
S. S. Athos, N. 17° 48′, W. 72° 57′	29.47?	748.5?				e.			2		2		e.	1 h'r	1 h'r	light	e.	fine.
Boston and Halifax Line.																		
S. S. Carroll, N. 42° 26′. W. 63° 33′			52	11.1	79	s.			3					rain	rain			rain & fog.
British Meteorological Office.																		
Bk. Arran, S 40° 10′. E. 10° 53′	30.07	763.8	58.1	14.5	85	wnw.			8		10							overcast.
British Merchant, S. 26° 56′, E. 60 48′	30.33	770.4	68.2	20.1	64	e.			3		6							misty.
Bk. Commewyne, N. 32° 01′, W 24° 32′	29.99	761.7	70	21.1	65	wsw.			5		3							d. clouds.
Bk Coppename, N. 20° 20′, W. 27° 30′	30.19	766.8	75	23.9	58	ne.			3		1							blue sky.
S. S. Earnock, N. 45° 10′ W. 15° 43′	29.41	747.0	56	13.3	75	ssw.			4		5							d. clouds.
Glencairn, S. 28° 40′. E. 35° 24′	30.21	767.3	77	25.0	69	ene.			5		7							d. clouds.
Bkt. Hope, N. 31° 56′ W. 45° 40′	30.32	770.1	70.3	21.3	79	nne.			2		9							d. clouds.
S. S. May Hulse, S. 27° 56′, W. 82° 37′	30.19	766.8	67.6	19.8	64	ese.			2		4							d. clouds.
S. S. Minho. S. 29° 08′ W 48° 17′	30.12	765.0	67.8	19.9	84	nne.			5		4							d. clouds.
S. S. Pole Star, S. 52° 22′ W. 78° 52′	29.11	739.4	41.2	5.1	91	wsw.			7		8							hailing.
Cunard Line.																		
S. S. Bothnia, N. 41° 51′ W. 58° 37′	30.09	764.3				wnw.			5		8		nw.	3 h'r	3 h'r	h'vy	sw.	
S. S. Marathon, N. 49° 40′, W. 28° 10′	29.51	749.5	56	13.3		ne.			2		6		ne.	2 h'r	2 h'r	con.	wnw.	cloudy.
S. S. Parthia, N. 42° 36′, W. 64° 53′†	29.88	758.9				sw.			3		4		w.	11 h'r	11 h'r	sm'h	s.	foggy.
S. S. Scythia, New York, N. Y.	29.93	760.2	61	16.1	97	sw.			1		0			0	0			clear.
General Trans-atlantic Company.																		
S. S. Laurent, N. 49° 27′, W. 8° 12′†	29.67	753.5	57.2	14.0	89	sse.			5					hail	hail	sm'h	sse.	clear.
S. S. Ville de Marseilles, N. 40° 12′, W. 55° 02′*†	30.20	767.1	70?	21.1?		wsw.			4		9		w.	2 h'r	2 h'r	long	nw.	cloudy.
Hamburg American Packet Company.																		
S. S Bohemia, N. 47° 20′, W. 24° 54′*†	29.25	742.9				nnw.			6		6		n.	squ'ls	squ'ls	long	nnw.	fine.
S. S. Cimbria, N. 47° 06′, W. 39° 48′	29.96	761.0	45.5	7.5		nnw.			8		9		nnw.	1 h'r	1 h'r	r'gh	nnw.	cloudy.
S. S. Gellert, N. 49° 37′, W. 9° 08′	29.71	754.6	58	14.4		ssw.			3		5		ssw.	1 h'r	1 h'r	sm'h	e.	fair.
S. S. Lessing, New York, N. Y.	30.07	763.7	64	17.8		calm			0		0			0	0			clear.
S. S. Silesia, Elbe River, Germany†	30.19	766.8	61	16.1		e.			4-5		1		e.	0	0			fair.
S. S. Wieland, N. 49° 24′ W. 13° 29′	29.57	751.1	58.5	14.7		se.			4-5		5		se.	5 h'r	5 h'r	5	se.	fair.
Lampert and Holt's Line.																		
S. S. Hevelius, S. 14° —′ W 35° —′*†	30.20	767.1	82	27.8		se.			2		4		se.	2 h'r	2 h'r			clear.
S. S. Humboldt, N. 20° 40′, W. 58° 00′*	30.07	763.8	76.5	24.7	93	e.			4		5 k;n			1 h'r	1 h'r	3	ene.	d clouds.
Leyland Line.																		
S. S. Iberian, N. 50° 59′. W. 16° 30′	29.49	749.0				ese.			3		10		ese.	0	0	all't	ese.	cloudy.
Merchants' Steamship Company.																		
S. S. Glenapp, Bahia, Brazil*†	30.00	762.0				sw.			3		6		sw.	2 h'r	2 h r			fine.
National Line.																		
S. S. Denmark, N. 49° 10′ W. 21° 20′	29.30	744.2	60	15.6		ese.			5		8		ese.	4 h'r	4 h'r	long	wnw.	cloudy.
S. S. Erin, N. 40° 42′, W. 59° 20′	30.11	764.8	60	15.6		ne.			4		7		ne.	0	0	mod.	e.	fine.
S. S. Greece, N. 48° 08′, W. 23° 24′	29.29	744.0				ene.			4		8		ene.	shr's	shr's	r'gh	e.	
S. S. Italy, N. 41° 16′ W. 61° 31′	30.14	765.5	63	17.2		wsw.			4		2		wsw.	3 h'r	3 h'r	r'gh	w.	clear.
New York, Havana and Mexican Mail.																		
S. S City of Alexandria, N. 24° 35′ W. 80° 03′.*†	30.21	767.3	79	26.1	65	ne.			4		5		e.	0	0	long	ne.	d. clouds.
S. S. City of Puebla, N. 18° 44′ W. 92° 00′†	29.75	755.6	80	26.7		ese.			3		1		se.			mod.	ese.	
New York Herald Weather Service.																		
S. S. Lepanto, N. 50° 45′, E. 1° 40′			64	17.8		e.			4							sm'h		clear.
S. S. Lone Star, N. 38° 42′ W. 74° 17′ *†	30.10	764.5	52	11.1		sw.			3							sm'h		clear.
S. S. Mass, N. 40° 34′, W. 71° 54′*†	29.93	760.2	60	15.6		sse.			1									hazy.
North German Lloyd																		
S. S. Graf Bismarck, Bahia, Brazil	30.10	764.5	77.9	25.5		var.			2		6		var.	6 h'r	6 h'r			fair.
S. S. Habsburg, N. 50° 00′, W. 4° 42′	29.81	757.2	58.1	14.5		s.			2		8		s.	0	0	sm'h		fair.
S. S. Hermann, N. 49° 18′, W. 19° 04′†	29.22	742.2	55.4	13.0		se.			4		3		s.	6 h'r	6 h'r	long	s.	fair.
S. S. Leipzig, N. 39° 42′, W. 63° 35	30.11	764.8	64.0	17.8	83	sw.			1		2			0	0	mod.	w.	clear.
S. S. Main, Southampton, England	29.70	754.4	58.1	14.5		ese.			3		5		ese.	0	0			fine.
S. S. Neckar, N. 40° 16′, W. 70° 00′	29.86	758.4	48.2	9.0		wsw.			2		9		wsw.	0	0	sm'h	w.	misty.
S. S. Oder, N. 45° 56′, W. 37° 21′	29.83	757.7	47.3	8.5		n.			6		5		n.	0	0	h'vy	n.	fair.
S. S. Ohio, N. 48° 59′, W. 17° 00′	29.40	746.7				sse.			4		6		sse.	4 h'r	4 h'r	long	nw.	cloudy.
S. S. Salier, N. 42° 23′, W. 52° 33′	30.23	767.8	47.3	8.5		s.			1		10		sse.	0	0	sm'h	w.	foggy.
S. S. Strassburg, N. 41° 48′. W. 53° 01′	30.20	767.1	50.0	10.0	75	s.			1-2		4		sw.	0	0	sm'h	s.	cloudy.
Occidental and Oriental Steamship Company.																		
S. S. Belgic N. 25° 35′, E. 121° 15′†	29.90	759.4	75	23.9	76	ne.			4		2		ne.	0	0	mod	ne.	clear.
S. S. Gaelic, N. 34° 40′, E. 146° 07′†	29.92	760.0	73	22.8	85	sw.			4		10		sw.			mod.	sw.	overcast.
S. S. Oceanic, N. 45° 41′, W. 177° 47 *	29.90	759.4	45	7.2	92	wsw.			4-5		9		w.			3	ene.	cloudy.
Ocean Steamship Company.																		
S. S. City of Augusta, N. 37° 14′, W. 74° 45′†	30.00	762.0				sw.			4		0					long	ene.	clear.
S. S. City of Columbus, Savannah, Ga.†	30.22	767.6				sw.			1		1		sw.	0	0			clear.
S. S. Seminole, N. 35° 40′, W. 75° 10′ †	30.12	765.0	62	16.7	77	sw.			4		0			0	0	cross	ne.	clear.
Oregon Improvement Company.																		
S. S. Willametta, N. 41° 30′, W. 124° 34′†	30.10	764.5	51	10.6	78	n.			3		0			0	0	sm'h		hazy.
Oregon Railway and Navigation Company.																		
S. S. Oregon, San Francisco, Cal.†	29.94	760.5	52	11.1	93	nw.			1		0							foggy.
Pacific Coast Steamship Company.																		
S. S. Ancon, N. 37° 13′, W. 122° 25′†	29.90	759.4	50	10.0	93	sse.			1		10		s.			sm'h	w.	cloudy.
S. S. Dakota, N. 45° 43′, W. 124° 51′†	30.13	765.3	55	12.8	87	nw.			4		10?		w.			mod	nw.	clear.?
S. S. Orizaba, N. 35° 12′, W. 120° 38′†	30.04	763.0	56	13.3	87	se.			2		fg		se.			sm'h	wnw.	dense fog.
S. S. State of California, N. 43° 10′, W. 124° 40′†	29.89	759.2	48	8.9	?	se.			2		0					sm'h	nw.	clear.
S. S. Victoria, N. 41° 56′, W. 124° 15′†	29.82	757.5	50	10.0	100	ese.			2		0			0	0	sm'h		clear
Pacific Mail Steamship Company.																		
S. S. City of New York, S. 34° 10′, E 169° —′†	29.93	760.2	62	16.7	85	sse.			3		10		se.	rain	rain	mod.	s e.	cloudy.
S. S. City of Pekin, N. 38° 20′ W. 148° 01′†	29.99	761.7	57	13.9	81	wnw.			5		10		w.			mod.	nw.	overcast.
S. S. City of Sydney, S. 2° 24′, W. 166° 40′†	29.83	757.7	79	26.1	91	ene.			5		5		e.	1.	25.	long	ene.	heavy rain.
S. S. City of Tokio, Hong Kong, China†	29.75	755.6	74	23.3	81	sw.			2		5		sw.	4 h'r	4 h'r			fair.
S. S. Colima, Panama, Panama†	29.95	760.7	83	28.3	91	nnw.			3		7		nnw.	0	0			cloudy.
S. S. Colon, N. 25° 07′, W. 74° 00′†	30.15	765.8	76	24.4		ene.			3		3		ne.	0	0	mod.	nne.	fair.
S. S. Grenada, N. 19° 53′ W. 105° 32′.†	29.87	758.7	76	24.4	86	nw.			2		10		nw.	0	0	light	s.	cloudy.
S. S. South Carolina, Panama, Panama†	30.01	762.2	83	28.3	79	calm			0		2?		sw.	0	0	sm'h		cloudy ?
S. S. Zelandia, Sydney, N. S. W.	30.43	772.9	59	15.0	76	se.			2		0							fine.
Quebec Steamship Company.																		
S. S. Muriel. Antigua, W. I.	29.95	760.7	81	27.2		e.			3		0			0	0	sm'h		fair.
S. S. Bermuda, New York, N. Y.†.	30.11	764.8	43	6.1		nw.			3		3		nw.	h'vy	h'vy			fine.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
RED STAR LINE.																		
S. S. Belgenland, Antwerp, Belgium†	30.03	762.7	68	20.0	60	calm			0		1		e.	0	0	sm'h	e.	clear.
S. S. Nederland, N. 40° 23′, W. 68° 51′†	29.99	761.7	48	8.9		sw.			2		5		sw.	sh'rs	shr's			hazy.
S. S. Rhynland, Isle of Wight, Eng.	29.89	759.2	62	16.7	77	e.			2		5		ese.	0	0	sm'h		fair.
S. S. Switzerland, N. 39° 46′ W. 55° 39′†	30.20	767.1				sw.			3		8		sw.	12 h'r	12 h'r	r'gh	s.	fair.
S. S. Vaderland, N. 46° 29′, W. 31° 00′	29.51	749.5	53	11.7	73	nnw.			6		8		nnw.	7 h'r	7 h'r	rg'h	n.	squally.
S. S. Waesland, N. 40° 24′, W. 68° 10′	29.94	760.5	56	13.3		s.			5		0			0	0	mod.	s.	clear.
ROTTERDAM LINE.																		
S. S. Schiedam, N. 45° 47′ W. 38° 33′*	29.89	759.2	50.9	10.5		wnw.			7		4		nw.	0	0	hv'y	nw.	fair.
S. S. W. A. Scholten, Off Hellevoetsluis, Netherlands*	29.92	760.0	55.0	12.8	87	n.			5		8		n.	0	0			
STATE LINE.																		
S. S. State of Florida, N. 41° 03′ W. 57° 47′	30.10	764.5	59	15.0		n.			3		8		nne.	14 h'r	14 h'r		s.	fair.
S. S. State of Georgia, N. 44° 02′, W. 50° 22′†	30.28	769.1	44	6.7		ese.			1		10					mod.	sw.	dense fog.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 59° 54′, E. 10° 43′†	30.55	776.0	59.9	15.5		wsw.			1		8		wsw.	0	0	sm'h	wsw.	covered.
WARREN LINE.																		
S. S. Iowa, N. 42° 44′, W. 50° 09′*†	30.30	769.6	44	6.7		calm.			0		10			4 h'r	4 h'r	sm'h		dense fog.
WHITE STAR LINE.																		
S. S. Adriatic, Irish Cannel†	29.86	758.4	56	13.3	97	ese.			5		8		ese.	sh'rs	sh'rs	sm'h		misty.
S. S. Celtic, N. 50° 20′ W. 23° 10′.†	29.43	747.5	54	12.2	?	ne.			5		10		ne.	12 h'r	12 h'r	mod.	e.	cloudy.
S. S. Germanic, N. 40° 12′, W 67° 39′†	30.06	763.5	49	9.4		sw.			2		2		s.	0	0	sm'h		d. clouds.
WILSON LINE.																		
S. S. Otranto, N. 40° 35′, W. 59° 58′†	30.18	766.6	63	17.2		ne.			2		8		ene.			long	ene.	cloudy.
MISCELLANEOUS.																		
Sch. Addie Fuller, Newport News, Va†	30.11	764.8	65	18.3	68	sw.			3	2 c	0			0	0			clear.
Bk. Adelaide, N. 1° 14′, W. 42° 17′*†	30.00	762.0	83	28.3		ese.			3		1		ese.	0	0	mod.	se.	clear.
Schr. Ajax, Brazos, Texas†	29.96	761.0				ene.			1		4?		se.	0	0			cloudy.?
Bk. Alpha, Guanatamo, Cuba, W. I.†	29.96	761.0	80	26.7		n.			1		1		ne.	2 h'r	2 h'r			fair.
Sch'r Annie R. Lewis, Aransas Pass, Texas†	29.97	761.2	78	25.6		w.			3		8		w.	8 h'r	8 h'r	long	sw.	cloudy.
Bk. Annie Thorman, N. 17° 16′, W. 30° 19′	30.19	766.9	72.7	22.6	77	ene.			5		5 k		e.	0	0	mod.	ene.	fair.
Bk. Antioch, S. 39° 35′ E. 142° 49′*†	30.20	767.1	59	15.0		n.			2		2		ne.	0	0	sm'h		
S. S. Antonio Lopez, N. 36° 01′ W. 57° 27′*	30.20	767.1	70.5	21.4	90	ssw.			2		8 s			0	0	long	sse.	squally.
Schr. Annie M. Smull, S. 2° 50′, E. 106° 59′*†	29.95	760.7	90	32.2		s.								2 h'r	2 h'r			
Bk. Bergenseren, N. 38° 00′ W. 11° 40′†	29.73	755.1				ssw.			6				sw.	0	0	6	wnw.	threate
S. S Compton, N. 24° 55′, W. 79° 58′†	30.07	763.8				ne.			5		5		ne.	0	0	mod.	ne.	clearing.
Schr. Edith R. Seward, N. 23° 50′, W. 74° 45′*†	30.27	768.8	78	25.6		ene.			1		1		ne.	0	0	r'gh	ene	clear.
S. E. J. Spicer, London, Eng.†	30.02	762.5				ese.			4		5		ese.	1 h'r	1 h'r			
Essex, N. 37° 47, W. 62° 06′*†	30.16	766.1	66	18.9		wnw.			3		1		w.	0	0	long	ne.	clear.
S. Exporter, S 42° 00′, E. 4° 30′*†	30.00	762.0				ssw.			5		2		s.	0	0	short	cross	fine.
Bk. Freya, Dublin, Ireland			58	14.4		e.			2		2		e.	3 h'r	3 h'r			fair.
Godfrey, N. 36° 50′ W. 64° 01′	30.16	766.1	64.9	18.3	71	sse.			2		4		se.	0	0	long	nw.	hazy.
S. Grecian, S. 5° 27′, E. 106° 15′*†	29.85	758.2	82	27.8		calm			0		3			1 h'r	1 h'r	sm'h		clear.
Bk Hattie G. McFarland, Boston, Mass*†	29.85	758.2	51	10.6		wsw.			3		10		w.	16 h'r	16 h'r			stormy.
Schr. Henry Denison, N. 26° 54′, W. 76° 55′†	30.14	765.5				ene.			3		3		e.	0	0	high	ene.	fair.
S. Ismir, N. 9° 04′W 32° 49′†	30.07	763.8				e.			4		5		calm			r'gh		fine.
James Slater, N. 38° 23″, W. 70° 58′*†	30.23	767 8	63	17.2		ssw.			2		2		sw.	0	0	sm'h	e.	fine.
Bk. Johanne, N. 50° 16′, W. 11° 36′*†	29.57	751.1	57	13.9		se.			5		8		s.	0	0	r'gh	se.	misty.
Schr. John L. Thomas, Great Corn Id., C. A*†	29.99	761.7				ene.			3		2		ene.	0	0	r'gh	ene.	clear.
Bkt. Josephine, Guanatamo, W. I.*†	30.12	765.0	79	26.1	78	n.			2		2			0	0			fair.
Bk. Julia H., Havana, Cuba, W. I.	30.08	764.0	74.9	23.8	72	e.			3	2 c								misty.
Bk. Kate Cann, N. 40° 27′, W. 64° 30′*†	29.97	761.2				calm			0		0			8 h'r	8 h'r	sm'h		fine.
Bkt. Kryolith, N. 58° 31′, W. 45° 29′*†	30.44	773.2				n.			5		0			0	0	sm'h	nw.	clear.
S. S. Lamperts, N. 14° 27′, E. 55° 20′*	29.69	754.1	88.2	31.2	75	wsw.			3		4 k					1		misty.
Light House Tender, Laurel, Pensacola Bay, Fla†	30.12	765.0	76	24.4		se.			4		10		se.	12 h'r	12 h'r			drizzling
Schr. Maggie Abbot, N. 38° 40′, W. 72° 31′†*	29.86	758.4				sw.			3		0			0	0	mod.	ne.	clear.
S. S. Malabar, Singapore, Malay Peninsula*†	29.80	756.9																showery.
Bg. Medina, N. 37° 30′, W. 74° 00′†	30.11	764.8				w.			3		0					long	ne.	smoky.
S. S. Nebo, N. 40° 34′, W. 74° 06′†*	30.00	762.0				calm			0		0			0	0	sm'h		clear
S. Paramita, S. 19° 30′, W. 34° 51′†	29.99	761.7	84	28.9		var.			1		5?		sw.	rain	rain	long	ne.	cloudy?.
Bk. Pawashick, N. 34° 33′ W. 53° 32′*†	30.55	776.0	73	22.8	92	sse.			5		2		ssw.			mod.	s.	fine.
Bk. Peppina, Bordeaux, France†	29.87	758.7	74	23.3	03	se.			2		5?		s.					cloudy?
S. S. Ponca, N 15° 50′, W. 60° 03′†	30.02	762.5	86	30.0		ene.			2		3		ene.	0	0	cross	ene.	clear.
Bk. Princessen, N. 44° 12′ W. 35° 20′†	29.81	757.1	51	10.6		nnw.			6		5			1 h'r	1 h'r	r'gh	nnw.	squally.
Bk. Rosebud, N. 23° 54′, W. 23° 36*†	30.23	767.8	75	23.9	76	calm			0		0			0	0	sm'h		fine.
S. Salisbury. S. 41° 03′, E. 21° 07′*	30.26	768.5	50.2	10.1	76	sw.			3–4		3		wsw.	3 h'r	3 h'r	h'vy	wsw.	fair.
Bkt. Spotless, S. 20° 00′, W. 35° 26′*†	30.10	764.5				var.							n.			mod.	sse.	rainy.
Bk. Stella, S. 3° 00′, W. 115° 30′*	29.86	758.4	78.4	25.8	86	ese.			3		5 k		se.	0	0	sm'h	se.	d. clouds.
Bk. Truro, N. 46° 27′ W. 16° 40′*†	29.47	748.5				ssw.			4		3		s.	5 h'r	5 h'r	mod.	wnw.	fair.
U. S. F. C. S. FishHawk, Washington, D. C.†	30.17	766.3	63	17.2	88	s.			2		4		w.	0	0			clear.
Yacht Vega, N. 13° 45′, W. 64° 20′*†	30.15	765.8	80	26.7		ne.			3				ene.	½ h'r	½ h'r	r'gh	cross	
S. S. Victoria J. Peed, Salamanca Id, U. S. C.*†	29.11?	739.4				ne.			6		0							
Schr. Viola Reppard, N. 34° 00′, W. 77° 53′†	29.98	761.5	72	22.2		wsw.			2		1		sw.	0	0	small	se.	fair.
S. Washington, Bremerhaven, Germany*†	29.98	761.5				e.			3		0			0	0			clear.
Bk. Wm. Wilcox, N. 29° 00′, W. 46° 40′*†	30.48?	774.2?	73	22.8		e.			3					0	0	sm'h		clear.

International Chart I.` May 21, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 22, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.06	763.6	76.6	24.8	71	sw.			3		1			0	0	very fair	Moiroud.
Algiers			30.06	763.4	77.4	25.2	67	nw.			1		0			0	0	clear	Nicolas.
La Galle			30.09	764.2	69.8	21.0	66	e.			2		0			0	0	clear	Fonfrède.
Tunis			30.10	764.4															Jacques.
Saida			30.10	764.5															Dumas.
Tebessa			30.17	766.2	76.6	24.8	23	sw.			3		0			0	0	clear	Derché.
Geriville					82.8	28.2	20	s.			3		0			0	0	clear	Lonchamp.
Laghouat			30.17	766.2	82.4	28.0	57	e.			3		0			0	0	clear	Abraham.
Biskra			30.15	765.9	90.3	32.4	33	se.			1		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	30.02	762.5	30.11	764.8	48.5	9.2	86	nne.	2	0.9			2			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.34	745.2	29.87	758.6	71.6	22.0	43	ne.			4		4			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.19	741.3	29.94	760.4	62.2	16.8	83	sw.	2.5	1.1			8			0.697	17.7		Dr. Wierzbiski.
Eperies	28.98	736.1	29.84	757.8	64.8	18.2	76	n.			3		9 ks		s.	0	0		Julius Mikolik.
Gratz	28.70	728.9	29.91	759.6	68.9	20.5	69	nw.			2		7			0	0		Andreas Rospini.
Hermannstadt	28.38	720.8	29.76	756.0	63.7	17.6	57	ne.			1		8			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.65	727.7	29.95	760.6	68.7	20.4	48	e.			1		1			0	0	clear	The Staff.
Lemberg	28.90	734.1	29.86	758.5	64.9	18.3	72	se.			2		9			0.020	0.5		Dr. T. Stanecki.
Pola	29.82	757.4	29.93	760.2	67.3	19.6	67	wnw.			2		1			0	0		I. R. Hydrographic Office.
Szathmar	29.34	745.3	29.80	756.9	64.4	18.0	67	n.			2		5			0	0		Joseph Midlinszky, S. J.
Szegedin	29.51	749.6	29.78	756.5	64.4	18.0	78	nw.			2		7			0.024	0.6		Karl Stancel.
Trieste	29.84	757.9	29.94	760.5	69.4	20.8	62	calm			0		0			0	0		Rieder.
Vienna	29.28	743.6	29.98	761.6	60.8	16.0	64	wnw.			3		8			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.92	760.0	30.02	762.5	49.9	9.9	85	ese.	10	4.5			3			0	0	blue sky	W. Boswell
Armagh, Observatory	29.62	752.3	29.86	758.4	60.2	15.7	75	e.	10	4.5			7					d. clouds	S. Gall.
Bidston, Liverpool Obs'y			29.82	757.4	69.0	20.6	58	ese.	15	6.7			6					misty	John Hartnup.
Bolton, Sharples	29.31	744.5	29.84	757.9	66.1	18.9	50	ese.	6	2.7			1					blue sky	Thomas Mackereth, A.S.
Bradford, Yorkshire	29.47	748.5	29.86	758.4	63.0	17.2	59	e.			2		6			0	0	d. clouds	J. McLandsborough, F. R
Bridgetown, Barbadoes	29.98	761.5	30.01	762.2	82.0	27.8	70	ne.			2		6					gloomy	Corpl. J. Surgenor, A. H.C.
Cardington			29.80	756.9	67.6	19.8	72	s.			0.6		8					thnd'r storm	John McLaren.
Chatham, School M. E.	29.71	754.6	29.84	757.9	66.0	18.9	73	ne.			1		6					d clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.54	750.3	29.77	756.1	56.9	13.8	89	ese.			1							foggy	The Staff.
Fort Napier, Natal	27.97	710.4	30.19	766.8	56.5	13.6	79	sw.			1		8					overcast	Pvt. E. K. Annis, A.H.C.
Free Town, Sierra Leone	29.58	751.3	29.81	757.2	88.0	31.1	37	sw.			1		5					d clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	29.99	761.7	30.05	763.3	73.6	23.1	75	w.			3		3					blue sky	Opl. O. Baldwin.
Glasgow, Observatory	29.72	754.9	29.92	760.0	60.1	15.6	59	ene.			5		7					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.64	752.8	29.80	756.9	68.5	20.3	72	e.			2		8					d clouds	The Staff.
Guernsey	29.51	749.5	29.80	756.9	59.0	15.0	70	sse.			1		1					blue sky	A. Collenette, F. M. S.
Kew, Observatory	29.77	756.1	29.81	757.2	67.0	19.4	66	s.	18	8.0			8					threatening	The Staff.
Leicester, Museum	29.55	750.6	29.80	756.9	70.5	21.4	52	e.			1		6					d. clouds	J. C. Smith.
Malta, Mediterranean	29.87	758.7	29.94	760.5	75.0	23.9	47	nw.			2		2					blue sky	I. H. Whysall.
Nassau, Bahamas	30.11	764.8	30.16	766.1	81.0	27.2	78	se.			1		10					overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.31	744.5	29.82	757.4	64.5	18.1	73	e.			1		7			blank	blank	d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.56	750.8	29.79	756.7	64.8	18.2	78	se.			1		10					thnd'r str'm	The Staff.
Plymouth	29.69	754.1	29.76	755.9	65.8	18.8	78	s.			2		5					d. clouds	John Merrifield.
Sandwick Manse, Orkneys			30.02	762.5	57	13.9	53	se.	20	8.9			0					blue sky	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.55	750.6	29.61	752.1	66.2	19.0	54	nne.			3		7					d. clouds	W. H. Lyne.
Sheffield	29.59	751.6	29.86	758.4	68.8	20.4	67	ne.			1		5			0.05	1.3	d. clouds	W. F. Cooper.
Silloth Cemetery	29.83	757.7	29.86	758.4	67.1	19.5	59	e.			4		0			0	0	blue sky	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.87	758.7	65.8	18.8	50	e.	15	6.7			0					blue sky	J. New.
Stratfield Turgiss	29.60	751.8	29.81	757.2	67.8	19.9	66	s.			3		4					d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.69	754.1	29.70	754.4	67	19.4	64	s.			6		5					d. clouds	W. Newcombe.
Valencia, Observatory	29.71	754.6	29.74	755.4	59.0	15.0	70	e.	18	8.0			10			blank	blank	d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.09	764.3	30.13	765.3	44	6.7	94	e.	8	3.6			10 n		e.	0.110	2.8	light rain	H. J. Cundall, C. E.
Chatham, N. B*	30.15	765.8	30.22	767.6	42	5.6	96	n.	8	3.6			10 n			0.07	1.8	cloudy	G. A. Blair.
Father Point, Quebec*	30.20	767.1	30.23	767.8	39	3.9	92	ne.	25	11.2			10 k		se.	0.15	3.8	threatening	J. McWilliams.
Fort Garry, Manitoba*																			
Halifax, N. S*	29.96	761.0	30.09	764.3	47	8.3	100	n.	7	3.1			10 n			0.261	6.6	cloudy	A. Allison.
Kingston, Ontario*	29.71	754.6	30.04	763.0	54	12.2	86	nw.	4	1.8		8 cs	2 k		sw.	0	0	hazy	A. P. Knight, M. A.
Montreal, Quebec*	29.84	757.9	30.05	763.3	48	8.9	89	ne.	9	4.0			10 s			0	0	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.34	745.2	30.04	763.0	46	7.8	93	s.	4	1.8		2 k	5 ks	sw.	sw.	inap.	inap.	fair	Rev. R. Mosley.
Port Dover, Ontario	29.34	745.2	30.03	762.7	53	11.7	80	n.	7	3.1			10 n		sw.	0.01	0.3	light rain	H. Morgan.
Port Stanley, Ontario	29.37	746.0	30.02	762.5	52	11.1	80	n.	1	0.4			10 n		w.	0.01	0.3	light rain	M. Payne.
Quebec, Quebec*	29.82	757.4	30.14	765.5	45	7.2	93	ne.			5		8 n		e.	0.05	1.3	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.56	750.8	30.02	762.5	47	8.3	83	calm	0	0		5 ck	sk.	sw.		inap.	inap.	smoky	W. H. McIntyre.
Saugeen, Ontario*	29.29	744.0	30.01	762.2	47	8.3	83	calm	0	0		0	0			0.05	1.3	clear	
St. Andrews, N. B	30.09	764.3	30.14	765.5	44	6.7	91	calm	0	0			10 n			0.10	2.5	cloudy	
Sydney, C. B*	30.16	766.1	30.23	767.8	37	2.8	100	ne.	6	2.7			10 n			0	0	cloudy	T. C. Hill, C. E
Toronto, Ontario*	29.66	753.4	30.04	763.0	54	12.2	86	calm	0	0			10 s		w.	0	0	smoky	Magnetic Observatory.
Yarmouth, N. S*	30.04	763.0	30.11	764.8	50	10.0	89	ne.	3	1.3		5 k	0	ne.		0.01	0.3	fair	Lt. F. E. Wilmot, R. N
Sub-series.																			
St. Johns, Newfoundland	30.25	768.3	30.51	774.9	36	2.2	100	ne.				fg; hz	fg; hz			0	0	foggy	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.40	772.1	30.43	772.9	66.0	18.9	83	ene.	11.1	5.0		1 c	0			0.230	5.8	clear	John Duthie.
Cape Town, C. G. H. Obs'y	30.20	767.1	30.24	768.1	71.0	21.7	57	s.	4	1.8		10	10			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow	29.80	756.9	30.08	764.0	74.0	23.3	75	s.			2		8			0	0		N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.90	759.5	29.93	760.1	67.8	19.9	84	e.	5.1	2.3		0	8			0	0	very cloudy	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.98	761.4	30.02	762.6	61.3	16.3	59	s.	16.8	7.5			8						
Fanöe	29.93	760.2	29.95	760.7	59.5	15.3	76	se.			4		2						Oversergent Fischer.
Godthaab, Greenland	30.43	773.0	30.48	774.1	38.7	3.7	85	ne.			2		9			0.004	0.1		Overloerer Lauridsen.
Stykkisholm, Iceland	29.98	761.6	30.03	762.7	44.6	7.0	88	ne.			7		8						S. Kleinschmidt.
Thorshavn	29.89	759.2	29.93	760.1	52.2	11.2	81	ssw.	11	5			5						A. O. Thorlacius.
Vestervig	29.88	758.9	29.97	761.2	55.6	13.1	88	se.			2		10					raining	Overloerer Bergh.
FRENCH.																			Loerer Oesterbol.
Agen, Normal School	29.32	744.8	29.98	761.6	76.3	24.6	45	calm			0		k			0	0		M. Labroue, Director.
Alençon, Normal School	29.33	745.0	29.88	759.0	66.9	19.4	77	s.			1		kn		s.	0.08	2.		M. Nicot, Director.
Arras, Engineer School	29.58	751.2	29.82	757.5	70.9	21.6	51	sw.			2		k		n.	0.094	2.4		M. Fénéon, Command't.
Avignon, Normal School	29.86	758.4	29.94	760.4	75.2	24	60	sw.			1		5		ne.	0	0	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.35	745.4	29.88	759.0	72.7	22.6	40	se.			1		8			inap.	inap.	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.60	751.8	29.85	758.3	70.3	21.3	45	se.			1		8		ssw.	0.12	3.	very cloudy	M. Frère Eugène Marl.
Besançon, Normal School	28.98	736.0	29.84	757.9	69.8	21	49	e.			1	2 c	0			0.098	2.5	thund'r st'm	M. Gobin, Director.
Bordeaux, Observatory	29.56	750.8	29.81	757.2	68.0	20.0	46	ssw.			1		10		sw.	0.020	0.5	thud'r storm	M. Rayet, Director.
Bourges, Normal School	29.34	745.3	29.87	758.8	68.0	20	64	ese.			1		k		ese.	0.12	3.		M. Postel, Director.
Brest, Naval Observatory	29.55	750.6	29.80	756.8	60.8	16.0	83	e.			1		10		e.			raining	M. de Kermaree, Dir.
Caen, Normal School	29.79	756.7	29.82	757.5	74.5	23.6	41	se.			2		5		s.	0.335	8.5	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.57	751.1	29.88	759.0	73.9	23.3	31	s.			1		5	sw.	sw.	0.039	1.0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.36	745.7	29.85	758.3	70.9	21.6	62	ssw.			1		8			0	0	¾ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.56	725.5	29.88	758.9	67.3	19.6	65	nw.			1		8			0.335	8.5	¾ covered	M. Alluard, Director.
Cluny, Normal School	29.12	739.6	29.97	761.1	72.0	22.2	50	s.			2		2		s.	0.24	6.		M. de Villemontée, Dir.
Commercy, Normal School	29.06	738.1	29.91	759.6	74.3	23.5	34	s.			1		5 k	s.	s.	0.059	1.5	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.41	696.3	29.87	758.6	69.8	21	41					0	1 k		nw.	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.84	732.5	29.93	760.1	73.8	23.2	52	s.			3		1		se.	0.020	0.5		M. Kina, Director.
Grenoble, Normal School	29.13	739.8	29.86	758.5	73.0	22.8	50	w.			1		k			0.08	2.		M. Ablard, Director.
Guéret, Normal School	28.32	719.3	29.85	758.2	70.2	21.2	49	ssw.			2		8		ssw.	0	0	stormy	M. Rivoire, Director.
Lamballe, Normal School	29.49	749.0	29.76	755.8	68.0	20	55	e.			2		5		e.	0.59	15.	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.28	743.8	29.83	757.6	77.4	25.2	30	ssw.			3	5 ck	0			0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.67	753.6	29.77	756.2	67.1	19.5	63	se.			4		8	se.	n.	0.028	0.7	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.85	732.9	29.87	758.7	72.7	22.6	47	se.			2		5	wsw.	s.	0.181	4.6	cloudy	M. André, Director.
Mans, Normal School	29.59	751.6	29.89	759.2	69.8	21	56	s.			1		5		s.	0.035	0.9	cloudy	M. Piboen, Director.
Marseille, Observatory	29.70	754.4	29.97	761.1	72.7	22.6	50	s.			3		9		sse.	0	0		M. Stephan, Director.
Montlouis	24.84	630.9	29.68	753.9	57.2	14.0	47	sw.	16.8	7.5			6		w.	0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.52	757.5	29.95	760.7	63.3	17.4	91	s.			2		10			0	0	covered	M. Galzin, Director.
Nancy, Normal School	29.15	740.4	29.91	759.6	74.5	23.6	34	s.			1		k			0	0		M. Hasse, Director
Nantes. Observatory	29.65	753.1	29.81	757.2	75.4	24.1	52	ssw.			1–2	0	9 k; kn		s.	0.012	0.3		M. Larocque, Director.
Perpignan, Observatory	29.84	758.0	29.95	760.7	66.4	19.1	67	se.	5.6	2.5			10		se.	0	0		Dr. Fines, Director.
Pic-du-Midi. Summit.	21.19	538.2			34.9	1.6		sw.			1		10		sw.	0.028	0.7	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.92	734.6	29.97	761.2	64.0	17.8	92	e.			4		1		se.	0	0	clear	M. Taillen.
Puy de Dôme Obs'y, Summit	25.11	637.7			51.3	10.7	75	sw.			2		5		sw.	0.488	12.4	¼ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	29.82	757.3	29.85	758.1	73.0	22.8	100	s.			2		2		sw.	0.098	2.5	¼ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.58	751.3	29.79	756.6	70.9	21.6	46	s.			3		5			0	0	cloudy	M. Mouillot, Director.
Rodez, Normal School	27.77	705.3	29.82	757.3	75.6	24.2	18	se.			1		2		s.	0	0	slightly cl'dy	M. Serger, Director.
Rouen, Normal School	29.78	756.4	29.83	757.6	72.0	22.2	50	ese.			2		2		n.	0	0	slightly cl'dy	M. Brotier.
Saint Maur, Observatory	29.70	754.3	29.86	758.5	65.8	18.8	63	s.			1		8		ssw.	1.504	38.2		M. Renou, Director.
Toulouse, Observatory	29.21	741.9	29.93	760.2	78.4	25.8	48	ese.			2		2	s.		0	0	slightly cl'dy	M. Bailland, Director.
Tours	29.65	753.2	29.83	757.7	68.7	20.4	61	sw.			1		10 kn	sw.	ssw.	0.087	2.2	stormy	
Versailles, Observatory	29.35	745.6	29.85	758.1	72.7	22.6	47	sw.			3					0.264	6.7		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.58	751.3	29.87	758.7	66.4	19.1	73	ssw.			1		10		ssw.	0.067	1.7	raining	M. Marié Davy, Director
GERMAN.																			
Bamberg	29.11	739.3	29.96	760.9	73.6	23.1	40	s.			1	0	3 k		s.	0	0		Prof. Dr. Hoh.
Berlin	29.82	757.5	30.00	761.9	66.2	19.0	63	e.			1		1			0	0		Prof. Dr. Arndt.
Breslau	29.51	749.5	30.04	763.0	61.2	16.2	83	nw.			2		10			0.047	1.2		Royal University Obs'y.
Carlsruhe	29.50	749.2	29.92	760.0	71.2	21.8	54	ese.			1		1	sw.		0	0		Albert Senz.
Cassel	29.20	741.6	29.91	759.7	73.0	22.8	41	s.			2		3	s.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.56	750.9	29.91	759.7	75.2	24.0	40	sw.			1		5			0	0		Physical Society.
Friedrichshafen	28.52	724.3	29.91	759.6	66.9	19.4	58	sw.			1		1	sw.		0.035	0.9		Wilhelm, Chief Tel.
Hamburg	29.88	758.9	29.97	761.3	67.1	19.5	59	ese.			3		3	ssw.		0	0		E. Preller.
Kiel	29.97	761.3	29.99	761.7	61.7	16.5	60	ese.			2		1			0.154	3.9		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.58	751.4	29.99	761.8	68.7	20.4	37	se.			1		2			0	0		H. Leppig, Asst.
Magdeburg	29.79	756.6	29.97	761.3	72.0	22.2	34	se.			1	0	0			0	0		Dr. Assmann.
Memel	30.06	763.5	30.11	764.7	73.9	23.3	28	e.			2	0	1 k						Issermann.
Munich	28.16	715.3	30.02	762.6	68.5	20.3	32	e.			1		2	s.		0	0		Central Station.
Neufahrwasser	30.05	763.3	30.07	763.7	57.0	13.9	71	nw.			1		1			1.728	43.9		A. Lothes.
Neustadt, Palatinate	29.39	746.6	29.92	759.9	72.1	22.3	52	ese.			1		2			0	0		Dicknether.
Stuttgart	29.00	736.7	29.86	758.5	72.5	22.5	44	e.			1		5	w.		0.039	1.0		Prof. Dr. Schoder.
Wustrow	30.02	762.4	30.04	763.0	58.5	14.7	85	ene.			1		10 s			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.31	744.5			64.9	18.3		n.			2.0		6			0.417	10.6		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.64	752.9	29.69	754.1	85.5	30.3	72	wsw.	33.0	14.8			3		w.	0	0	d. clouds	
Deesa	29.25	742.9	29.71	754.6	97.4	36.3	34	s.	10.8	4.8			3		sw.	0	0	d. clouds	
Bombay	29.70	754.4	29.74	755.4	87.0	30.6	67	wnw.	8.0	3.6			0			0	0	blue sky	
Poona, Yarrowda	27.85	707.4	29.66	753.3	88.8	31.6	42	w.	27.0	12.1			2		w.	0	0	d. clouds	
Bellary	28.15	715.0	29.57	751.0	95.0	35.0	34	w.	9.8	4.4			2			0	0	d. clouds	
Belgaum	27.20	690.9	29.08	753.9	86.1	30.1	46	wsw.	6.0	2.7			1		e.	0	0	d. clouds	
Lahore	28.77	730.7	29.47	748.6	102.3	39.1	15	nw.	1.8	0.8			0			0	0	blue sky	
Roorkee	28.56	725.3	29.41	747.0	99.3	37.4	10	nw.	4.2	1.9			0			0	0		
Agra	28.90	734.1	29.44	747.7	102.7	39.3	17	nw.	8.3	3.7			0			0	0		
Nagpur	28.50	723.8	29.48	748.9	104.2	40.1	14	nw.	9.0	4.0			3	w.		0	0	d. clouds	
Jubbulpore	28.21	716.6	29.50	749.4	100.5	38.1	16	nnw.	3.3	1.5			1		s.	0	0	blue sky	
Lucknow	29.10	739.3	29.47	748.4	97.0	36.1	17	wnw.	6.7	3.0			0			0	0	blue sky	
Allahabad	29.16	740.7	29.46	748.2	101.8	38.8	13	nw.	3.6	1.6			0			0	0	blue sky	
Patna	29.30	744.1	29.47	748.6	99.3	37.4	49	wnw.	4.3	1.9			0			0	0	blue sky	
Hazaribagh	27.52	699.1	29.44	747.7	97.8	36.6	15	nnw.	9.0	4.0			0			0	0	misty	
Cuttack	29.43	747.4	29.51	749.5	85.5	29.7	58	s.	1.6	0.7			9			0	0	d. clouds	
Calcutta, Alipore	29.42	747.2	29.44	747.7	91.0	32.8	66	sse.	9.0	4.0			3			0	0	d. clouds	
Dhubri	29.37	746.0	29.49	749.0	85.8	29.9	70	ene.	13.2	5.9			0			0	0	blue sky	
Chittagong	29.41	746.9	29.49	749.1	87.3	30.7	75	w.	3.4	1.5			3			0	0	blue sky	
Sibsagar	29.19	741.4	29.52	749.7	84.7	29.3	74	ne.	1.9	0.8			0			0	0	blue sky	
Jeypore	28.15	715.0	29.54	750.2	97.7	36.5	23	nw.	6.9	3.1			4		nw.	0	0	d. clouds	
Zanzibar, Africa	29.95	760.7			82.9	28.3	68	s.	6.9	3.1			6		sse.	0.01	0.3	threatening	
ITALIAN.																			
Udine	29.52	749.8	29.92	759.9	76.1	24.5	49	w.	1.8	0.8			0			0	0		Prof. Giovanni Clodig.
Milan	29.43	747.4	29.93	760.1	73.4	23.0	39	sw.	6.9	3.1			1			0	0		Prof. Schiaparelli.
Padua	29.82	757.3	29.92	760.0	72.0	22.2	50	sw.	1.8	0.8			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.02	737.2	29.90	759.5	72.9	22.7	42	ese.	4.9	2.2			1			0	0		Prof. P. F. Denza.
Genoa	29.84	757.8	30.02	762.6	63.9	17.7	70	se.	4.9	2.2		10		s.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.05	712.4	29.98	761.5	67.6	19.8	58	e.			4		2	wsw.		0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
ITALIAN.—Continued.																			
Pesaro	29.88	758.9	29.93	760.1	68.7	20.4	58	n.	8.7	3.9			0			0	0		Prof. Luigi Guidi.
Florence	29.73	755.2	29.98	761.5	71.2	21.8	48	w.			2		6	w.		0	0		Prof. Costantino Pitter.
Leghorn	29.87	758.8	29.96	760.9	66.9	19.4	73	w.	2.5	1.1			2			0	0		Prof. P. Monte.
Rome	29.78	756.5	29.95	760.8	75.0	23.9	49	wsw.	8.1	3.6			3	w.		0	0		Prof. P. S. Ferrari.
Lecce	29.57	751.1	29.82	757.5	65.7	18.7	56	nnw.	26.6	11.9			10	n.		0	0		Prof. C. de Giorgi.
Cosenza	29.01	736.9	29.87	758.8	69.8	21.0	77	e.	8.1	3.6			0			0	0		Prof. D. Conti.
Cagliari	29.78	756.4	29.97	761.2	71.1	21.7	66	s.			4		1			0	0		Prof. A. Pacinotti.
Palermo	29.79	756.6	30.03	762.8	68.7	20.4	48	nw.	17.4	7.8			8			0	0		Prof. G. Ciacciatore.
Syracuse	29.84	757.8	29.88	758.9	74.1	23.4	64	ne	6.3	2.8			3	sw.		0	0		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.41	747.0	29.92	759.9	71.1	21.7	47	ne.	1.8	0.8			0			0	0		Prof. T. Brioschi.
Stelvio	22.23	564.6			43.5	6.4	37	se.			4		4			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.22	564.4			43.2	6.2	62	se.			2		10			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.72	754.9	29.75	755.6	53.0	11.7	80	w.	3.1	1.4		0	3 ks		w.	0	0	fair	K. Ogawa.
Hakodate	29.70	754.4	29.71	754.6	50.2	10.1	77	w.	1.8	0.8			2			0.125	3.2	clear	
Hiroshima, I. M. Obs'y	29.80	756.9	29.82	757.4	60.4	15.8	61	nne.	6.0	2.7		0	0			0	0	clear	J. Sogawa.
Kanazawa	29.77	756.1	29.87	758.7	54.0	12.2	91	se.	3.5	1.6		0	0			0	0	clear	S. Endo.
Kioto	29.67	753.6	29.84	757.9	58.1	14.5	78	nnw.	0.4	0.2		0	0			0	0	clear	M. Tojima.
Kochi	29.79	756.6	29.82	757.4	64.9	18.3	73	nw.	4.9	2.2		0	0			0	0	clear	K. Kusunose.
Nagasaki, I. M. Obs'y	29.71	754.6	29.91	759.7	56.5	13.6	76	ssw.	1.4	0.6		3 cs	0			0	0	clear	S. Takehayashi.
Niigata	29.82	757.4	29.86	758.4	56.7	13.7	77	sw.	5.2	2.3		6 ck	1 s			0	0	cloudy	M. Morita.
Nobiru	29.75	755.6	29.76	755.9	64.1	17.8	61	nnw.	6.0	2.7			10 s			0	0	overcast	H. Midzushima.
Supporo					52.5	11.4	66	s.	10.4	4.6			1			0.121	3.1	clear	
Tokei Obs'y, Yeddo	29.66	753.3	29.73	755.1	64.9	18.3	88	ene.	7.7	3.4		4 c;cs	3 ks	w.	w.	0	0	cloudy	The Staff.
Wakayama	29.75	755.6	29.81	757.2	62.2	16.8	72	ene.	2.2	1.0		0	0			0	0	clear	Y. Kuwamuea.
MAURITIUS																			
Mauritius Observatory	29.84	757.9	30.03	762.7	78.1	25.6	70	ne.	10.0	4.5		0	7 k;n		e;nne	0.33	8.4	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.70	602.0	29.92	760.0	57.0	13.9	98	calm	0	0		2 cs	0	s.		0.012	0.3	clear	Prof. Vicente Fernandez.
Leon	24.30	617.2	29.93	760.2	61.2	16.2	85	n.			1	8 c	0	sw.		inap.	inap.	very cloudy	Prof. M. Leal.
Mazatlan	29.69	754.1	29.95	760.7	72.0	22.2	90	nw.				0	1 k		n.			hazy	F. Quijano, C. E.
Mexico, Central Obs'y	23.12	587.1	30.14	765.6	54.3	12.4	86	w.				10 c	0	w.		0.118	3.0	covered	The Staff.
Morelia	24.23	615.5	30.30	769.5	60.6	15.9	73	se.			2	3	3	s.	s.	0	0		M. Tena, M. D.
Pabellon, Aguascalientes	23.95	608.2	29.92	759.9	62.2	16.8	91	calm			0		10 kn		sw.	0.020	0.5	covered	M. Y. de Leon, M. E.
Puebla, Catholic Institute	23.39	594.2	30.09	764.2	55.4	13.0	87	calm	0	0		0	0			1.039	26.4	clear	Prof. P. Spina.
San Luis Potosi	24.25	616.0	30.12	765.1	60.1	15.6	76	ne.			1	1	10		w.	0.194	4.6	cloudy	G. Barroeta, M. D.
Zacatecas	22.57	573.2	30.14	765.6	55.4	13.0	90	n.	3.0	1.3		6 ck	3 n	se.	e.	0.297	7.5	covered	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.88	759.0	29.88	759.0	65.1	18.4		ese.			4					0	0		
Groningen	29.87	758.7	29.93	760.1	65.1	18.4		se.			1					0	0		
Helder	29.92	760.0	29.92	760.0	56.7	13.7		ne.			1					0	0		
Hellevoetsluis	29.88	758.9	29.88	758.9	71.4	21.9	53	e.			1					0	0		
Utrecht	29.85	758.1	29.89	759.3	71.8	22.1	37	ese.			1		2			0.039	1.0	lightly cl'dy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.98	761.6	30.05	763.2	50.9	10.5	85	nnw.	4	2			9			0.228	5.8	raining	
Brono	30.02	762.6	30.06	763.6	52.5	11.4	77	sw.	18	8			3			0	0		
Christiania	29.91	759.7	30.05	763.3	68.4	20.2	35	w.	4	2			0			0	0		
Gjæsvær	29.95	760.7	29.97	761.3	36.0	2.2		nnw.			2		10						
Lodingen	29.93	760.2	29.98	761.4	50.7	10.4	73	sw.			2		5			0	0		
PORTUGUESE.																			
Angra, Azores					59.4	15.2	70	wnw.	13.6	6.1			3			0.102	2.6		Dr. J. A. Sampaio.
Campo Major	28.92	734.6	29.91	759.8	62.2	16.8	75	ssw.	16.1	7.2			10			0.043	1.1		Dr. A. M. R. dos Santos.
Funchal, Maderia	29.97	761.1	30.05	763.3	67.5	19.7	71	w.					10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.52	749.7	29.87	758.7	64.2	17.9	81	ssw.	33.5	15.0			8			0.283	7.2		The Staff.
Ponta Delgada, Azores	29.76	755.9	29.83	757.7	63.0	17.2	57	w.	16.1	7.2			4			0.067	1.7		
Saint Paul de Loando	29.78	756.3	29.98	761.4	77.7	25.4	88	w.	0.7	0.3			8			0.055	1.4		
Serra da Estrella	25.11	637.8	29.85	758.2	44.6	7.0	81	s.	31.1	13.9			10			1.787	45.4	rain and fog.	
RUSSIAN.																			
Akmolinski	28.27	718.0	29.28	743.8	70.3	21.3	41	sw.	9	4		3 ck	0			0	0		Major K. Lasarew.
Archangel	29.82	757.4	29.84	757.9	45.5	7.5	76	nw.	13	6			10			0	0		Capt. Sselliwerstow.
Astrakhan	29.58	751.4	29.50	749.3	64.0	17.8	80	n.	13	6			10 n			0.378	9.6		Capt. Wisganow.
Barnaul	28.94	735.0	29.41	747.1	63.3	17.4	85	se.	9	4			10			0.295	7.5		Meteorological Obs'y.
Dorpat	29.91	759.8	30.15	765.8	69.1	20.6	41	ne.	7	3		0	0			0	0		Observatory.
Ekaterinburg	28.66	727.9	29.64	752.9	32.9	0.5	89	nnw	9	4			9			0.043	1.1	snowing	Meteorological Obs'y.
Kasan	29.65	753.0	29.92	759.9	49.8	9.9	34	nnw.	7	3		0	3 k			0	0		Observatory.
Kertch	29.64	752.8	29.66	753.3	61.3	16.3	72	nw.	13	6		0	8 n			0	0		Lagorio & Sastyrea.
Kieff	29.24	742.8	29.86	758.4	67.5	19.7	44	ene.	22	10		ck	4 ks			0.008	0.2		Observatory.
Lugan	29.50	749.2	29.69	754.2	72.0	22.2	41	ne.	22	10			8			0	0		Meteorological Obs'y
Moscow	29.55	750.5	30.02	762.5	57.7	14.3	40	n.	4	2			0						Meteorological Obs'y.
Nikolajev	29.73	755.1	29.80	756.9	62.2	16.8	70	n.	9	4		0	8 kn			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.48	748.8	29.57	751.0	36.7	2.6	87	n.	9	4			10			1.528	38.8	raining	Lieut. Iwanow.
Pekin, China	29.47	748.5	29.61	752.1	79.3	26.3	32	calm	0	0		0	1 k			0	0		Physical Observatory
St. Petersburg	30.12	765.0	30.13	765.4	62.8	17.1	31	w.	4	2		0	0			0	0		Central Physical Obs'y.
Semipalatinsk	28.78	731.1	29.40	746.8	73.0	22.8	56	calm	0	0		0	8 ks			blank	blank		Major Lasarew.
Tashkend, Laboratory	28.03	712.0	29.50	749.2	82.8	28.2	45	n.	2	1			4			0	0		Teich, A. M.
Tiflis	28.15	715.0	29.50	749.3	71.8	22.1	37	nw.	9	4		0	1 s			0	0		Physical Observatory
Vladivostock	29.52	749.8	29.59	751.5	52.2	11.2	92	calm	0	0			10 n			0.098	2.5		
Warsaw	29.56	750.8	29.97	761.2	70.3	21.3	62	se.	7	3			10 ks						Astronomical Obs'y
Wilna	29.65	753.0	30.05	763.3	70.9	21.6	41	ese.	4	2			3			0	0		Berg, Assistant.
Yeniseisk																			M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.83	757.7	29.93	760.3	73.4	23.	60	sw.	4.0	1.8		c	2 k			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	29.80	757.0	29.86	758.5	71.6	22.0	48	nw.	4.5	2.0		1	8	sw.		0.043	1.1	almost cov.	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.00	685.8	29.98	761.5	49.8	9.9	88	s.	9.4	4.2			10			0.059	1.5	raining	Domingo Martin.
Madrid, Royal Obs'y	27.76	705.0	29.95	760.8	63.5	17.5	63	w.	19.2	8.6			9			0.150	3.8	rainy	The Staff.
Murcia, Met. Obs'y	29.81	757.1	29.96	761.0	82.0	27.8	45	s.	5.8	2.6		0	2			0	0	almost clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	28.79	731.2	29.67	753.6	60.1	15.6	67	s.	27.3	12.2			10			1.370	34.8	rainy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	29.99	761.8	30.06	763.5	79.7	26.5	64	se.	4.9	2.2		1 c	8 k;s	nw.	se.	0.504	12.8	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.79	756.6	29.85	758.1	81.1	27.3	72	nnw.	0	0		0	4 kn		e.	0	0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.00	761.9	30.10	764.4	68.2	20.1	72	ssw.	9.4	4.2		0	4		w.	inap.	inap.		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.99	761.8	30.08	764.1	78.8	26.0		calm	0	0		2 cs	2 k	se.	se.	0	0		Manuel Maesg.
Tuguegarao, Philippine Id's	29.74	755.4	29.87	758.7	81.1	27.3	80	nw.	4.5	2.0		3 cs	7 ks		se.	0	0	covered	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.98	761.4	30.02	762.4	49.3	9.6	69	s.			2		8			0	0		
Umea	30.02	762.5	30.07	763.8	62.2	16.8	46	sw.			2		8			0	0		
Hernosand	30.05	763.3	30.10	764.4	67.3	19.6	45	s.			2		2			0	0		
Stockholm	29.95	760.8	30.13	765.3	69.4	20.8	34	ne.			2		0			0	0		
Wisby	30.00	763.5	30.12	765.0	71.2	21.8	33	se.			2		0			0	0		
Sub-series.																			
Upsala	30.00	762.0	30.09	764.2	72.0	22.2	38	se.	5.6	2.5						0	0		S. G. Fineman.
SWISS.																			
Geneva	28.54	725.0	29.93	760.3	65.7	18.7	54	n.			2					0.059	1.5	clear	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
TURKISH.																			
Constantinople			29.66	753.4	59.0	15.0	68	ene.	22	10.0			9		n.	0	0		The Observatory.
Valona			29.90	759.4	67.1	19.5		sw.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.54	752.8	74.5	23.6	68	sw.			3	c	9 n		sw.	0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.98	761.5	30.06	763.5	66	18.9	70	w.	4	1.8			10 n			inap.	inap.	light rain	J. O. Barnes.
Alpena, Michigan	29.37	746.0	30.03	762.7	46	7.8	54	w.	5	2.2		5 cs	4 s	sw.	sw.	0	0	cloudy	Jas. J. Fitzgerald.
Atlanta, Georgia	28.93	734.8	30.10	764.5	63.5	17.5	89	s.	9	4.0			10 n		s.	0.39	9.9	light rain	H. Hall.
Atlantic City, New Jersey	30.04	763.0	30.06	763.5	60.8	16.0	84	sw	7	3.1		9 ck	0			0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.96	761.0	30.15	765.8	66	18.9	90	calm	0	0			10 s		s.	0.06	1.5	cloudy	John Healy.
Baltimore, Maryland	30.02	762.5	30.07	763.8	68	20.0	78	calm	0	0			10s;fg		sw.	0.01	0.3	cloudy	Robert Seyboth.
Barnegat, New Jersey	30.03	762.7	30.05	763.3	60.8	16.0	85	s.	4	1.8		0	7 s		sw.	0	0	fair	Chas. F. Merritt.
Behring Island, Behring Sea	30.04	763.0	30.06	763.5	36.3	2.4		calm	0	0		0	1 s			0	0	clear	Dr. L. Steineger.
Bismarck, Dakota	28.42	721.9	30.20	767.1	28	— 2.2	88	nw.	6	2.7		0	0			0	0	clear	Cyrus Cramer.
Boise City, Idaho	27.15	689.6	29.99	761.7	50	10.0	59	e.	1	0.4			10 s		w.	0	0	cloudy	B. E. Light.
Boston, Massachusetts	29.94	760.5	30.10	764.5	55.0	12.8	69	ne.	4	1.8		4 c	fg.			0.06	1.5	fair	O. B. Cole.
Brownsville, Texas	30.01	762.2	30.05	763.3	70	21.1	97	n.	4	1.8		10 cs	0			1.17	29.7	cloudy	M. McCarty.
Buffalo, New York	29.30	744.2	30.04	763.0	51	10.6	86	s.	6	2.7			10 s		ne.	0.08	2.0	cloudy	Wm. Finn.
Burlington, Vermont	29.74	755.4	30.03	762.7	62.0	16.7	70	calm	0	0			10 s		n.	0	0	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.79	756.7	30.19	766.8	52.6	11.4	74	n.	17	7.6			10 s		n.	0.24	6.1	cloudy	W. H. Ray.
Campo, California																			W. H. Clendenon.
Camp Thomas, Arizona	27.21	691.1	29.88	758.9	60	15.6	56	s.			1	0	0			0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.11	764.8	30.13	765.3	67	19.4	63	sw.	13	5.8		7 ck	0	sw.		0	0	fair	J. E. Lanouette.
Cape May, New Jersey	30.03	762.7	30.06	763.5	63	17.2	78	sw.	10	4.5		6 cs	fg.	sw.		0	0	fair	W. Bolten.
Cedar Keys, Florida	30.08	764.0	30.10	764.5	73	22.8	71	se.	15	6.7			10 ks		se.	0	0	cloudy	F. W. Mixer.
Champaign, Illinois	29.33	745.0	30.13	765.3	42.3	5.7	65	n.	15	6.7		9 c	0	sw.		0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.08	764.0	30.13	765.3	71	21.7	90	sw.	4	1.8			10 s		calm	0	0	threatening.	J. H. Smith.
Charlotte, N. Carolina	29.25	742.9	30.09	764.3	63.0	17.2	90	sw.	3	1.3			10 n		sw.	0.04	1.0	light rain	D. O'Donoghue.
Chattanooga, Tennessee	29.25	742.9	30.06	763.5	62.0	16.7	93	s.	1	0.4			10 n		sw.	0.49	12.4	light rain	B. L. Goulding.
Cheyenne, Wyoming	24.04	610.6	29.91	759.7	34.5	1.4	90	se.	6	2.7			fg.			0.23	5.8	dense fog	E. McGovern.
Chicago, Illinois	29.40	746.7	30.10	764.5	43.5	6.4	64	w.	7	3.1		10 k	0	w.		0	0	cloudy	J. Mitchell.
Chincoteague, Virginia	30.08	764.0	30.10	764.5	66.5	19.2	84	sw.	7	3.1		8 ck	0	w.		0	0	cloudy	V. P. Temple.
Cincinnati, Ohio	29.42	747.3	30.07	763.8	51	10.6	86	n.	12	5.4			10 n		n.	0.36	9.1	light rain	R. B. Watkins.
Cleveland, Ohio	29.31	744.5	30.04	763.0	51.5	10.8	86	nw.	5	2.2			10 n			0.03	0.8	light rain	J. B. Newlin.
Coleman City, Texas	28.42	721.9	30.21	767.3	48	8.9	86	n.	6	2.7		0	0			0	0	clear	L. Dorman.
Columbus, Ohio	29.17	740.9	30.01	762.2	54	12.2	86	se.	1	0.4			10 n		sw.	0.26	6.6	light rain	D. Cuthbertson.
Concho, Texas	28.30	718.8	30.20	767.1	52	11.1	74	ne.	6	2.7		4 c	0			0	0	fair	W. W. McConihe.
Davenport, Iowa	29.51	749.5	30.15	765.8	41	5.0	65	nw.	6	2.7		0	sk.		calm	0	0	clear	R. R. Martin.
Dayton, Washington T'y	28.28	718.3	30.02	762.5	41	5.0	76	ne.	2	0.9		0	r			0	0	clear	H. Clifford.
Deadwood, Dakota	25.45	646.4	29.96	761.0	33	0.6	81	ne.	4	1.8		10 cs	0	nw.		0	0	cloudy	G. W. Scott.
Decatur, Texas					55	12.8	55	ne.	14	6.3		0	0			0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	30.05	763.3	30.07	763.8	66	18.9	68	sw.	20	8.9		7 c	hz.	w		0	0	fair	A. Schneider.
Denison, Texas	29.44	747.8	30.23	767.8	48.3	9.1	71	n.	4	1.8		0	0			0	0	clear	J. McGlone.
Denver, Colorado	24.74	628.4	29.90	759.4	39.0	3.9	83	w.	2	0.9			10 s		calm	0.03	0.8	cloudy	F. M. Neal.
Des Moines, Iowa	29.30	744.2	30.19	766.8	40	4.4	73	n.	6	2.7		0	1 s			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.36	745.7	30.06	763.5	49.0	9.4	86	nw.	9	4.0			10 k		nw.	0.10	2.5	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.57	700.3	30.12	765.0	43	6.1	83	s.	12	5.4		0	0			0	0	clear	E. A. Thomas.
Dubuque, Iowa	29.42	747.3	30.12	765.0	37.2	2.9	61	w.	6	2.7		1 cs	hz.	n.	calm	0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.31	744.5	30.01	762.2	37	2.8	82	sw.	5	2.2			10 n		sw.	0.02	0.5	light snow	N. B. Conger.
Eagle Pass, Texas	29.41	747.0	30.21	767.3	65.0	18.3	58	e.	6	2.7		0	7 s			0	0	fair	F. Belford.
Eagle Rock, Idaho	25.31	642.9	29.99	761.7	37	2.8	58	n.	14	6.3		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	30.08	764.0	30.15	765.8	44.5	6.9	88	ne.	5	2.2			10s;fg		ne.	0.10	2.5	cloudy	J. H. Melton.
El Paso, Texas	26.35	669.3	29.99	761.7	55	12.8	42	e.	12	5.4		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.32	744.7	30.04	763.0	55	12.8	80	w.	2	0.9			10 s			0.05	1.3	threatening.	R. H. Paxton.
Escanaba, Michigan	29.33	745.0	29.99	761.7	41	5.0	73	w.	6	2.7			10 s			0	0	cloudy	C. Dill.
Fort Apache, Arizona	25.00	635.0	29.82	757.4	40	4.4	46	e.	4	1.8		0	0			0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.40	695.9	30.24	768.1	35	1.7	72	s.	4	1.8		4 k	0	w.		0	0	fair	B. O. Lenoir.
Fort Bennett, Dakota	28.59	726.2	30.15	765.8	34.0	1.1	81	w.	1	0.4			10 s		calm	inap.	inap.	cloudy	A. Pritchard.
Fort Benton, Montana	27.42	696.5	30.21	767.3	39	3.9	82	ne.	2	0.9		0	9 s		ne.	0	0	cloudy	G. W. Davis.
Fort Buford, Dakota	28.25	717.5	30.23	767.8	34	1.1	72	e.	3	1.3			10 s		calm	0	0	cloudy	A. H. Bell.
Fort Custer, Montana	26.98	685.3	30.08	764.0	40	4.4	82	ne.	7	3.1		0	4 s		calm	0	0	fair	V. Verge.
Fort Davis, Texas	25.27	641.8	29.99	761.7	48	8.9	61	calm	0	0		0	0			0	0	clear	J. Williams.
Fort Elliott, Texas	27.33	694.2	30.03	762.7	40	4.4	50	se.	8	3.6		0	0			inap.	inap.	clear	W. J. Cundall.
Fort Gibson, Indian T'y																			J. B. Campbell.
Fort Grant, Arizona	25.26	641.6	29.87	758.7	55	12.8	12	ne.	2	0.9		0	0			0	0	clear	T. J. Macgowan.
Fort Keogh, Montana	27.67	702.8	30.12	765.0	38	3.3	72	ne.	2	0.9		10 cs	0			0	0	cloudy	W. B. Stockman.
Fort Macon, North Carolina	30.17	766.3	30.18	766.6	69	20.6	93	sw.	8	3.6		10 cs	fg.	sw.	calm	0	0	cloudy	L. Leonardy.
Fort McKavett, Texas	27.89	708.4	30.13	765.3	56	13.3	80	se.	9	4.0		0	0			0	0	clear	J. E. Thatcher.
Fort Missoula, Montana	26.87	682.5	30.17	766.3	41	5.0	82	ne.	6	2.7		0	0			0	0	clear	J. H. Jones.
Fort St. Michaels, Alaska	30.10	764.5	30.14	765.5	35	1.7	90	n.	5	2.2		0	0			0	0	clear	A. P. Leavitt.
Fort Shaw, Montana	26.59	675.4	30.19	766.8	36	2.2	92	w.	4	1.8			10 s			0.02	0.5	cloudy	A. L. Mathews.
Fort Sill, Indian Territory	29.03	737.3	30.25	768.3	47.5	8.6	85	n.	4	1.8		0	0			0	0	clear	T. Cleary.
Fort Stevenson, Dakota	28.38	720.8	30.21	767.3	26	— 3.3	76	nw.	4	1.8		3 ck	0	nw.		0	0	clear	W. Burrows.
Fort Verde, Arizona					46.1	7.8	44	nw.			1	0	0			0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.53	623.1			31.8	— 0.1	88	e	4	1.8			10 n			0.22	5.6	light snow	T. M. Ambler.
Fredericksburg, Texas	28.43	722.1	30.15	765.8	54	12.2	80	n.	6	2.7		0	0			0	0	clear	H. S. Miles.
Galveston, Texas	30.00	762.0	30.05	763.3	66	18.9	84	n.	34	15.2		3 c	5 ks		ne.	0	0	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.40	746.7	30.06	763.5	46.0	7.8	68	sw.	14	6.3			10 s		w.	0	0	cloudy	W. A. Reid.
Hatteras, North Carolina	30.16	766.1	30.18	766.6	67	19.4	84	sw.	8	3.6		6 c	3 k	sw.	w.	0	0	cloudy	R. M. Crawford.
Helena, Montana	25.96	659.4	30.13	765.3	40	4.4	67	nw.	3	1.3			10 s			0	0	cloudy	S. Wheaton.
Henrietta, Texas	29.28	743.7	30.26	768.6	47.0	8.3	86	n.	5	2.2		0	0			0	0	clear	J. W. Byram.
Huron, Dakota	28.85	732.8	30.20	767.1	31	— 0.6	81	nw.	5	2.2		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.31	744.5	30.10	764.5	46	7.8	60	nw.	4	1.8		3 cs	7 s	calm	n.	0.02	0.5	cloudy	O. Schutze
Indianola, Texas	30.07	763.8	30.10	764.5	64.0	17.8	84	n.	28	12.5		2 cs	6 ks	sw.	n.	0	0	cloudy	I. A. Reed.
Jacksboro, Texas	29.09	738.9	30.24	768.1	46	7.8	93	n.	2	0.9		0	0			0	0	clear	J. P. Sherry.
Jacksonville, Florida	30.08	764.0	30.12	765.0	69	20.6	78	se.	2	0.9			10 s			0	0	cloudy	J. W. Smith.
Keokuk, Iowa	29.55	750.6	30.20	767.1	46.5	8.1	65	calm	0	0		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.04	763.0	30.06	763.5	79.0	26.1	65	se.	11	4.9			9 s			inap.	inap.	cloudy	L. M. Melbourne.
Kittyhawk, North Carolina	30.18	766.6	30.20	767.1	67	19.4	78	sw.	11	4.9		3 c	0	s.		0	0	clear	E. A. Beals.
Knoxville, Tennessee	29.04	737.6	30.06	763.5	60.2	15.7	98	sw.	5	2.2			10 n			0.30	7.6	light rain	J. A. Cody.
La Crosse, Wisconsin	29.31	744.5	30.07	763.8	39	3.9	65	n.	10	4.5		0	0			0	0	clear	S. C. Emery.
La Mesilla, New Mexico	26.16	664.5	29.92	760.0	56.5	13.6	43	se.	2	0.9		0	0			0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.36	745.7	30.24	768.1	47	8.3	68	calm	0	0		0	0			0	0	clear	A. W. Browne.
Lewiston, Idaho	29.23	742.4	30.07	763.8	47.0	8.3	63	sw.	1	0.4		0	0			0	0	clear	J. M. Burlew.
Little Rock, Arkansas	29.86	758.4	30.17	766.3	56	13.3	69	nw.	5	2.2		0	0			0.04	1.0	clear	W. U. Simmons.
Los Angeles, California	29.61	752.1	30.01	762.2	58.0	14.4	75	s.	4	1.8			10 s		calm	0	0	cloudy	E. F. Kubel.
Louisville, Kentucky	29.53	750.0	30.08	764.0	48	8.9	93	n.	11	4.9			10 n			0.44	11.2	light rain	H. C. Smyth.
Lynchburg, Virginia	29.39	746.5	30.07	763.8	67.0	19.4	63	s.	4	1.8		hz.	4 ks		w.	0	0	fair	W. R. Bushby.
Madison, Wisconsin	29.06	738.1	30.06	763.5	39	3.9	86	w.	10	4.5		0	9 s		w.	0	0	cloudy	C. A. Shaw.
Marquette, Michigan	29.25	742.9	29.97	761.2	43	6.1	68	nw.	3	1.3			10 s		w.	0	0	cloudy	J. Gilligan.
Memphis, Tennessee	29.81	757.2	30.14	765.5	56	13.3	93	nw.	6	2.7		5 cs	3 s		nw.	0.99	25.1	clearing	D. T. Flannery.
Milwaukee, Wisconsin	29.31	744.5	30.05	763.3	44	6.7	68	sw.	8	3.6			10 s		sw.	0	0	cloudy	W. Line.
Mobile, Alabama	29.94	760.5	29.98	761.5	71	21.7	92	s.	8	3.6			10 n		s.	1.11	28.2	light rain	J. D. Paxton.

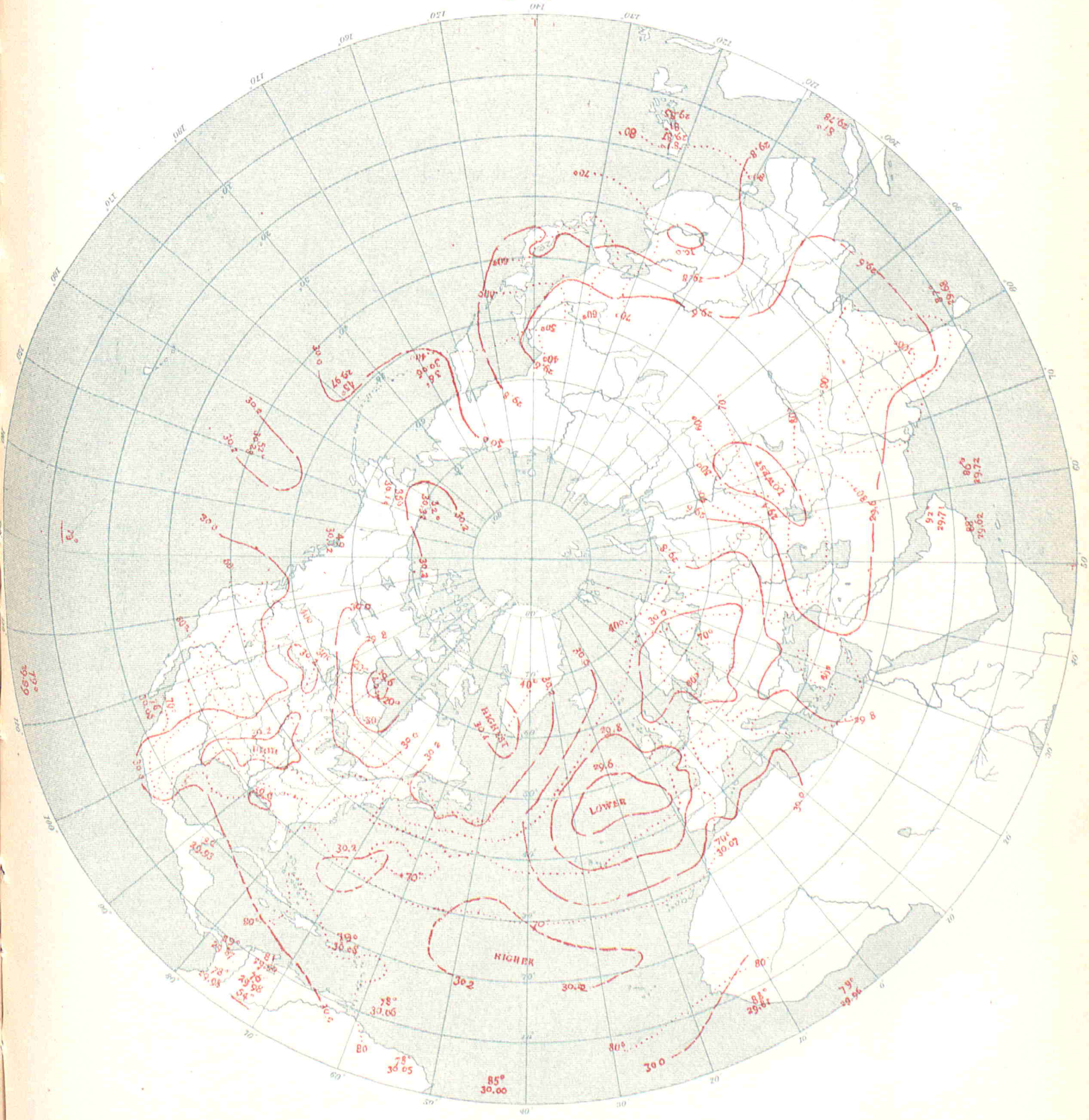
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Montgomery, Alabama	29.79	756.7	30.02	762.5	63	17.2	93	se.	8	3.6			10 n		s.	0.46	11.7	light rain	J. B. McLaughlin.
Moorhead, Minnesota	29.17	740.9	30.15	765.8	28	— 2.2	88	nw.	28	12.5			10 s		nw.	0.07	1.8	cloudy	H. Bessant.
Morgantown, W. Virginia	29.01	736.8	30.02	762.5	62.5	16.9	90	calm	0	0			10 n			0.20	5.1	light rain	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.94	608.1	30.12	765.0	41.0	5.0	86	nw.	12	5.4			sk.		nw.	0	0	dense smoke	J. G. Linsley.
Nashville, Tennessee	29.54	750.3	30.07	763.8	55.0	12.8	90	nw.	4	1.8			10 n		nw.	0.79	20.1	light rain	L. A. Jesunofsky.
New Haven, Connecticut	29.94	760.5	30.06	763.5	64	17.8	81	sw.	2	0.9			10s;sk			0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.02	762.5	30.07	763.8	64	17.8	78	s.	4	1.8		2 k	7 ks	calm	s.	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.93	760.2	29.98	761.5	70.0	21.1	84	nw.	10	4.5			10 s		nw.	2.38	60.5	cloudy	L. Dunne.
Newport, Rhode Island	30.02	762.5	30.07	763.8	58.3	14.6	69	n.	4	1.8		6 ck	hz.	nw.		0	0	fair	W. McGillivray.
New River, N. Carolina																			C. C. Corbin.
New Shoreham, Rhode I'd.	30.02	762.5	30.05	763.3	55.4	13.0	74	calm	0	0		5ck;gs	0	w.		0	0	fair	W. Davis.
New York, New York	29.89	759.2	30.07	763.8	66	18.9	84	calm	0	0		4 cs	6s;fg			0	0	cloudy	E. B. Garriott.
Norfolk, Virginia	30.11	764.8	30.14	765.5	70	21.1	70	sw.	8	3.6		4 cs	hz.			0	0	fair	J. T. Elker.
North Platte, Nebraska	27.25	692.1	30.12	765.0	46.6	8.1	62	se.	5	2.2			10 n			0.17	4.3	light rain	E. F. Brady.
Olympia, Washington T'y	29.91	759.7	29.95	760.7	45.0	7.2	83	calm	0	0		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	29.05	737.9	30.21	767.3	44.3	6.8	68	n.	5	2.2		0	0			0	0	clear	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.31	769.9	30.32	770.1	32.0	0.0	100	wnw.	7	3.1			10 s			inap.	inap.	cloudy	P. H. Ray.
Oswego, New York	29.72	754.9	30.05	763.3	59.0	15.0	69	w.	4	1.8			10 s		w.	inap.	inap	cloudy	S. W. Beall.
Palestine, Texas	29.67	753.6	30.22	767.6	55	12.8	74	nw.	11	4.9		0	0			0.14	3.6	clear	L. M. Pindell.
Pensacola, Florida	29.97	761.2	30.00	762.0	70.8	21.6	90	s.	12	5.4			10 s		s.	0.31	7.9	cloudy	M. McGauran.
Philadelphia, Pa.	29.96	761.0	30.06	763.5	69	20.6	78	sw.	2	0.9			10 s		sw.	0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.68	449.1	29.74	755.4	9	—12.8	87	w	50	22.4		1 cs	0	w.		0.21	5.3	clear	L. M. Dey.
Pioche, Nevada	24.01	609.8	29.93	760.2	47	8.3	24	s.	6	2.7		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.21	741.9	30.01	762.2	59.3	15.2	90	nw.	3	1.3			10 n		nw.	0.22	5.6	light rain	J. H. Bryce.
Poplar River, Montana	28.08	713.2						sw.			1	0	0			0	0	clear	U. D. Maxwell.
Port Eads, Louisiana	29.99	761.7	30.00	762.0	72.4	22.4	98	sw.	18	8.0			10 n			2.25	57.1	heavy rain	H. G. Christian.
Port Huron, Michigan	29.37	746.0	30.05	763.3	48.0	8.9	72	w.	5	2.2			10 ks		sw.	0.11	2.8	cloudy	W. O. Bailey.
Portland, Maine	30.06	763.5	30.11	764.8	51.0	10.6	80	e.	7	3.1		4 c	hz.	calm	calm	0	0	fair	D. C. Murphy.
Portland, Oregon	29.83	757.7	29.90	759.4	65.2	18.4	22	e.	10	4.5		1 c	0	n.		0	0	clear	M. L. Hearne.
Portsmouth, N. Carolina					69	20.6	84	s.	6	2.7		10 k	0	s.		0	0	cloudy	F. P. Chaffee.
Prescott, Arizona	24.78	629.4	29.88	758.9	39	3.9	36	s.	3	1.3		0	0			0	0	clear	J. McN. Wright.
Provincetown, Mass.	30.04	763.0	30.08	764.0	51	10.6	86	e.	7	3.1		0	4 s			0.12	3.0	fair	P. T. Jenkins.
Punta Rassa, Florida	30.06	763.5	30.07	763.8	70	21.1	82	e.	6	2.7		10 cs	0	nw.		inap.	inap.	cloudy	W. J. Evans.
Red Bluff, California	29.50	749.3	29.87	758.7	61.4	16.3	53	s.	3	1.3		0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.90	759.4	30.20	767.1	69.4	20.8	89	ne.	3	1.3			10 s		ne.	1.09	27.7	cloudy	P. M. Wilson.
Rochester, New York	29.38	746.2	30.04	763.0	57	13.9	86	sw.	6	2.7			10n;sk		w.	0.01	0.3	light rain	F. Gillam.
Roseburg, Oregon	29.34	745.2	29.89	759.2	46.6	8.1	81	calm	0	0		2 c	0			0	0	clear	J. J. Nanry.
Sacramento, California	29.79	756.7	29.87	758.7	51.2	10.7	86	s.	7	3.1		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.62	752.3	30.20	767.1	47.5	8.6	89	n.	10	4.5		1ck; hs	0	nw.		0	0	clear	J. H. Webber.
St. Paul, Minnesota	29.21	741.9	30.06	763.5	36.0	2.2	69	w.	11	4.9			10 s		w.	0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.28	743.7	30.14	765.5	23	— 5.0	88	nw.	11	4.9		0	9 k; s		nw.	0.09	2.3	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.55	649.0	29.87	758.7	50	10.0	48	e.	4	1.8		4 k	0	nw.		0	0	fair	J. Craig.
San Antonio, Texas	29.46	748.3	30.16	766.1	58	14.4	75	n.	8	3.6		0	0			0	0	clear	E. Lane.
San Diego, California	29.87	758.7	29.94	760.5	59.9	15.5	78	nw.	3	1.3			fg.			0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.39	746.5	30.06	763.5	50.8	10.4	86	nw.	16	7.2			10 n			inap.	inap.	light rain	M. H. Perry.
Sandy Hook, New Jersey	30.02	762.5	30.06	763.5	59.3	15.2	87	sw.	4	1.8		8 k	0	sw.		inap.	inap.	cloudy	B. A. Blundon.
San Francisco, California	29.90	759.4	29.97	761.2	52.5	11.4	86	sw.	5	2.2			fg.		sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.30	591.8	29.91	759.7	36	2.2	72	e.	2	0.9		0	0			0.02	0.5	clear	H. U. Jones.
Savannah, Georgia	30.05	763.3	30.14	765.5	69	20.6	78	s.	2	0.9			10 ks		s.	0	0	cloudy	H. W. Ford.
Shreveport, Louisiana	29.93	760.2	30.17	766.3	59	15.0	75	n.	5	2.2		0	0			0.06	1.5	clear	E. N. Meekins.
Silver City, New Mexico	24.25	615.9	29.80	756.9	48	8.9	48	sw.	4	1.8		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	30.06	763.5	30.12	765.0	48.5	9.2	63	ne.	3	1.3		0	0			0	0	clear	J. J. McLean.
Smithville, North Carolina	30.14	765.5	30.18	766.6	70	21.1	78	sw.	9	4.0			10 s			0	0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.11	714.0	30.16	766.1	43	6.1	83	ne.	4	1.8		0	0			0	0	clear	D. Moore.
Springfield, Illinois	29.53	750.0	30.20	767.1	45	7.2	60	nw.	9	4.0		0	0			0	0	clear	T. B. Jennings.
Springfield, Massachusetts	29.94	760.5	30.08	764.0	63.7	17.6	68	ne.	3	1.3		10 c	hz.	nw.		0	0	cloudy	T. S. Outram.
Springfield, Mo.	28.80	731.5	30.28	769.1	45	7.2	80	n.	7	3.1		0	0			0	0	clear	J. B. Marbury.
Starkville, Miss.	29.61	752.1			58	14.4	93	n.	13	5.8			10 n			1.36	34.5	light rain	M. J. Wright.
Stockton, Texas	27.17	690.1	30.18	766.6	47.5	8.6	71	s.	4	1.8		4 cs	0	s.		0	0	fair	J. O'Dowd.
Thatcher's Island, Mass.	30.04	763.0	30.09	764.3	46.5	8.1	80	ne.	9	4.0		0	hz.			0.02	0.5	clear	F. R. Day.
Toledo, Ohio	29.38	746.2	30.06	763.5	48	8.9	71	w.	5	2.2			10 n		w.	inap.	inap.	light rain	A. Buell.
Tucson, Arizona	27.51	698.7	29.85	758.2	58	14.4	35	s.	4	1.8		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.68	753.9	30.05	763.3	52	11.1	47	e.	2	0.7		1 cs	0			0	0	clear	J. Daly.
Uvalde, Texas	29.20	741.7	30.15	765.8	57	13.9	74	e.	4	1.8		0	0			0	0	clear	E. C. Imlay.
Vicksburg, Mississippi	29.84	757.9	30.09	764.3	59	15.0	93	n.	9	4.0			10 s		w.	1.63	41.4	cloudy	H. T. Brisbane.
Visalia, California	29.49	749.0	29.86	758.4	58	14.4	69	nw.	1	0.4		2 k	0	n.		0	0	clear	W. L. Seward.
Washington, D. C.	29.95	760.7	30.06	763.5	67.6	19.8	76	s.	3	1.3			10 s		sw.	inap.	inap.	cloudy	B. M. Purssell.
West Las Animas, Colorado	26.06	661.9	29.92	760.0	50	10.0	66	sw.	1	0.4		6 c	0	w.		0	0	fair	J. Grover.
Williamsport, Pa.	29.46	748.3	30.06	763.5	62	16.7	90	calm	0	0			fg.			0.06	1.5	dense fog	B. F. Hough.
Wilmington, N. Carolina	30.11	764.8	30.16	766.1	69	20.6	78	sw.	5	2.2		10 k	0	sw.		0	0	cloudy	A. T. Sherwood.
Winnemucca, Nevada	25.54	648.7	29.89	759.2	51	10.6	43	sw.	12	5.4		5 c	0	sw.		0	0	fair	J. R. Williams.
Yankton, Dakota	28.93	734.8	30.21	767.3	39	3.9	65	n.	3	1.3		1 cs	0			0	0	clear	J. H. Atfield.
Yuma, Arizona	29.67	753.6	29.82	757.4	64.6	18.1	55	n.	1	0.4		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.05	560.1			54.0	12.2	79	n.	2	0.9		3 k; c	4ks;s	w.		0	0	fair	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.05	763.3	30.06	763.5	78	25.6	95	e.					10 ks			0.40	10.2	cloudy	J. A. Racker.
Buenaventura, U. S. C.	29.95	760.7	29.98	761.5	78	25.6	90	s.	8	3.6		4 ck	6 ks	s.	s.	0	0	cloudy	J. I. Plume.
Havana, Cuba, W. I.	30.02	762.5	30.06	763.5	79	26.1	70	se.	3.6	1.6			10 ks		calm	0	0	cloudy	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.02	762.5	30.03	762.7	78.3	25.7	83	calm	0	0		1 ck	0	e.		0	0		Robert Johnston.
Magua, San Domingo, W. I.					73	22.8		calm			0	0	2 k		w.	0	0		S. M. Pike.
Navassa, W. I.																			F. M. Everett.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	78	25.6	86	e.			2		8 ks	e.	e.	0.500	12.7	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.52	749.8	29.98	761.5	76	24.4	84	calm			0		10 ks		calm	inap.	inap.	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							96	ne.			1	0	1 ks		ne.	0.06	1.5	clear	Earl Flint.
Santiago de Cuba, W. I.	30.00	762.0	30.02	762.5	78	25.6	82	calm	0	0		2 cs	0			0.10	2.5	fair	Robert Mason.
York Factory, B. A.	29.51	749.5	29.56	750.8	14.0	—10.0	100	ne.	38	17.0			10 s		ne.	0.40	10.2	snowing	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Alert, S. 15° 30′ E. 41° 00′	30.01	762.2	80.8	27.1	67	ssw.			3		5							d clouds.
H. M. S. Alexandra, Suda Bay, Turkey in Europe	29.71	754.6	65	18.3	73	nnw.			2–6		10	wnw.						squally.
H. M. S. Amethyst, N. 12° 57′, W. 25° 20′	30.02	762.5	74.5	23.6	95	nne.			2		1	nne.				2	cross	blue sky.
H. M. S. Champion, N. 11° 50′, W. 132° 50′			78	25.6	86	ne.			5		8					5	n.	showery.
H. M. S. Comus, Singapore, Malay Peninsula	29.78	756.4	80.5	26.9	87	se.			1									d. clouds.
H. M. S. Coquette, N. 35° 29′ E. 26° 37′	29.64	752.8	60	15.6		nw.			6		8	nw.				6	nnw.	raining.
H. M. S. Diamond, S 33° 16′, E. 152° 56′	30.26	768.6	62.5	16.9	88	ese.			2–3		8					1–2	ese.	d. clouds.
H. M. S. Dido, N. 13° 05′, W. 59° 30′	30.11	764.8	76	24.4		ene.			1–2		6	e.						showery.
H. M. Dock-Yard, Bermuda, W. I.	30.19	766.8	68	20.0	77	wnw.			1–2		1	wnw.						blue sky.
H. M. S. Druid, N. 17° 29′, W. 88° 11′	29.93	760.2	82	27.8	89	e.			3		3	e.				1	e.	d. clouds.
H. M. S. Dwarf, S. 32° 55′, W. 60° 32′	30.02	762.5	50.5	10.3	93	nnw.			1		0					1	nnw.	blue sky.
H. M. S. Eclipse, S. 23° 30′, E. 43° 46′	30.00	762.0	78	25.6		s.			3–4		3							d. clouds.
H. M. S. Emerald, S. 52° 50′, W. 136° 20′	29.34	745.2	45	7.2	100	s.			3–4		4	s.				5	w.	squally.
H. M. S. Espiegle, S. 33° 47′ E. 152° 57′	30.24	768.1	62	16.7	57	e.			2		7					3	ese.	d. clouds.
H. M. S. Euryalus, Trincomalee, Ceylon	29.68	753.9	87	30.6	72	ssw.			2–3		2	calm						d. clouds.
H. M. S. Fantome, N. 11° 18′, W. 74° 49′	29.90	759.4	81	27.2		ene.			4–5		7	ene.				6	ene.	d. clouds.
H. M. S. Flying Fish, N. 37° 48′, E. 124° 40′	29.72	754.9	58	14.4	76	ssw.			6–7		4					1	ssw.	squally.
H. M. S. Fawn, S. 2° 24′, E. 70° 03′	29.78	756.4	81	27.2	80	wsw.			2		9					2	se.	d. clouds.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.05	763.3	54	12.2	83	e.			3		10							overcast.
H. M. S. Garnet, Colonia, Rio de La Plata, Uruguay	30.10	764.5	56	13.3	80	w.			2		0							blue sky.
H. M. S. Griffon, N. 47° 30′, W. 52° 30′	30.35	770.9	40	4.4	82	nne.			1		10					2	ne.	d. clouds.
H. M. S. Inconstant, S. 27° 30′ E. 8c 30′	30.29	769.4	66	18.9	68	s			2–3		5	sse.				2	se.	d. clouds.
H. M. S. Iron Duke, N. 32° 44′ E. 129° 52′	29.89	759.2	58	14.4	100	calm			0		4							d. clouds.
H. M. S. Kingfisher, S. 0- 37′, W. 81° 13′	30.03	762.7	71	21.7		sw.			2		8	sw.				1		d. clouds.
H. M. S. Lark, S. 8° 14′, E. 156° 30′	29.86	758.4	78.3	25.7		calm			0		4							d. clouds.
H. M. S. Magpie, N. 35° 25′, E. 140° 53′	29.74	755.4	67.9	19.9	82	ssw.			2		10					4	s.	misty.
H. M. S. Northampton, N. 39° 00′, W. 63° 43′	30.05	763.3	71	21.7	82	wnw			4		5	w.				2	w.	d. clouds.
H. M. S. Orontes, Port of Spain, Trinidad	30.02	762.5	79.5	26.4	97	calm			0		2							d. clouds.
H. M. S. Phœnix, N. 17° 45′, W. 76° 20′	30.01	762.2	80	26.7	95	ene.			2		8	ene.				2	se.	d. clouds.
H. M. S. Rambler, St. Thomas Island, Gulf of Guinea	29.96	761.0	79	26.1	100	se.			4		7	sse.				3	sse.	d. clouds.
H. M. S. Rocket, N. 48° 27′, W. 123° 27′	29.99	761.7	47	8.3	?	calm			0		1							blue sky.
H. M. S. Sylvia, N. 22° 00′, W. 24° 03′	30.18	766.6	71.5	21.9	80	nne.			3		5	sse.				3	nne.	d. clouds.
H. M. S. Swiftsure, N. 42° 15′, W. 9° 49′	29.64	752.8	56	13.3	93	s.			5–6		8	ssw.				8	ssw.	raining.
H. M. S. Tenedos, N. 47° 28′ W. 58° 50′	30.31	769.9	37	2.8	80	ene.			2–4		10					3	e.	raining.
H. M. S. Triumph, Coquimbo, Chili	30.06	763.5	59	15.0	59	ene.			2		10	calm						d. clouds.
H. M. S. Woodlark, Ras el Had, Arabia	29.61	752.1	91.5	33.1	63	s.			4–5		2	sw.				2	s.	squally.
PORTUGUESE NAVAL.																		
Rio Lima, Porto Praya, Cape Verd Islands	30.16	766.1	73.9	23.3	85	ne.			5		2	ne.				3	ne.	d. clouds.
Tamega, Macao, China	29.87	758.8	75.2	24.0	82	ene.			3		10			10 h'r	10 h'r			foggy.
SWEDISH NAVAL.																		
Sago, N. 56° 45′, E. 7° 10′	29.97	761.1	53.2	11.8	93	e.			2		10							raining.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	29.92	760.0	73	22.8	85	sse.	16	7.2			10		ssw.	0.27	6.9			cloudy.
N. Yard, Portsmouth, N. H.	30.07	763.8	51	10.6	79	ne.	12	5.4			0			0	0			hazy.
Naval Hospital, Yokohama, Japan	29.56	750.8	65.5	18.6	81	calm			0		8		s.	0.38	9.7			clearing.
Adams, Mare Island, Cal	29.82	757.4	54	12.2	87	sw.			1–2		8?		sw.			sm'h		clear ?
Alaska, Callao, Peru	29.95	760.7	61	16.1	94	calm			0		5			0	0	sm'h		fair.
Alert, Kobe, Japan*	29.69	754.1	68	20.0	65	calm			0		0			0	0	sm'h		clear.
Alliance, N. 36° 51′, W. 73° 15′	30.17	766.3	61	16.1	94	w.			1		0			0	0	sm'h		clear.
Ashuelot, Kobe, Japan	29.79	756.7	65	18.3	78	calm			0		1							clear.
Brooklyn, Montevideo, Uruguay	30.04	763.0	54	12.2	93	w.	10	4.5			2		calm	0	0	sm'h		fair.
Colorado, New York, N. Y.	30.04	763.0	66	18.9	79	calm	0	0			10		calm	0	0			foggy.
Essex, Montevideo, Uruguay	30.07	763.8	55	12.8	68	w.			2		2					sm'h		fair.
Franklin, Norfolk, Va	30.05	763.3	67	19.4	74	sw.	9	4.0			5		calm	0	0			fair.
Galena, N. 33° 52′, W. 7° 12′	30.11	764.8	66	18.9	94	wnw.			2		0					long	wnw.	clear.
Independence, Mare Island, Cal	29.80	756.9	50	10.0	65	wsw.			2		10		sw.	0	0			cloudy.
Iroquois, San Francisco, Cal	29.93	760.2	52	11.1	86	sw.			3		10							cloudy.
Kearsarge, N. 36° 50′, W. 73° 21′	30.17	766.3	61	16.1	?	w.			4		2					sm'h		clear.
Lackawana, Panama Bay, Panama*	29.87	758.7	79	26.1	86	nnw.			3		8		nw.	0	0			cloudy.
Lancaster, N. 33° 52′, W. 7° 15′*	30.07	763.8	70	21.1	90	nw.			3		0			0	0	mod.	nw.	clear.
Marion, S. 34° 59′, W. 54° 43′	29.98	761.5	58	14.4	100	w.			4		2		calm			sm'h		fair.
Michigan, Erie, Pa	29.97	761.2	56	13.3	100	s.			1		10		sw.					cloudy.
Minnesota, Newport, R. I.	30.06	763.5	58	14.4	76	n.	2	0.9			5		n.					hazy.
Monocacy, Nagasaki, Japan	29.91	759.7	61	16.1	88	ese.			1		5		calm					fair.
New Hampshire, Newport, R. I.	30.04	763.0	59	15.0	100	ne.			1		2		ne.			sm'h		clear.
Nipsic, N. 33° 53′, W. 7° 12′	30.10	764.5	66	18.9	79	wnw.			3		2					long	nw.	clear.
Onward, Callao, Peru†	30.11	764.8	61	16.1	94	sse.			1		5		n.			long	w.	fair.
Palos, Kobe, Japan	29.84	757.9	64	17.8	73	sw.			1		0							clear.
Passaic, Washington, D. C.	30.11	764.8	67	19.4	100	sw.			1		10							cloudy.
Pensacola, Callao, Peru	30.01	762.2	62	16.7	94	s.	2	0.9			5		s.	0	0	sm'h		fair.
Portsmouth, Plymouth, Eng*†	29.98	761.5	57	13.9	100	sw.			3		5					sm'h		fair.
Powhatan, Norfolk, Va	30.14	765.5	68	20.0	90	sw.			1		8		sw.					cloudy.
Quinnebaug, N. 33° 52′, W. 7° 16′	30.05	763.3	66	18.9	79	nnw.			3		2		calm			long	wnw.	clear.
Ranger, Mazatlan, Mexico*	29.87	758.7	75	23.9	86	calm			0		0			0	0	light	s.	clear.
Richmond, Kobe, Japan*	29.75	755.6	68	20.0	74	calm			0		0			0.2	5.			clear.
Saratoga, Plymouth, Eng	29.83	757.7	56	13.3	94	e.			0–1		8		e.	0	0	sm'h		fair.
Shenandoah, Boston, Mass*	30.14	765.5	55	12.8	80	n.			1		8		calm					misty.
St. Louis, League Island, Pa	30.26	768.6	65	18.3	84	calm	0	0			5		sw.	0	0			fair.
Swatara, N. 37° 27′, E. 126° 33′*	29.66	753.4	59	15.0	70	sw.			3		2		nnw.			mod	sw.	fair.
Tennessee, N. 36° 50′ W. 73° 24′	30.22	767.6	63	17.2	83	wsw.	13	5.8			5			0	0	mod.	sw.	fair.
Vandalia, N. 36° 42′, W. 73° 11′*†	30.38	771.6	61	16.1	94	w.			4		5		w.			sm'h		hazy.
Wabash, Boston, Mass	30.06	763.5	58	14.4	88	calm	0	0			8		nw.	0	0			fair.
Wachusetts, Fort Wrangle, Alaska	30.08	764.0	43	6.1	100	calm			0		0			0	0	sm'h		clear.
Wyoming, Port Royal, S. C.	30.13	765.3	70	21.1	75	s.	4	1.8			10		calm	0	0			overcast.
Yantic, N. 36° 45′, W. 73° 10′*	30.17	766.3	62	16.7	94	w.			3		2					sm'h		fair.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
Allan Line.																		
S. S. Nova Scotian, Off Rimouski, Canada	30.19	766.8	43	6.1		e.			3		5		ese.			slight	e.	fair.
S. S. Prussian, N. 44° 44′, W. 61° 54′*	29.92	760.0	37	2.8		ene.			2		9		ese.	4 h'r	4 h'r	light	sse.	cloudy.
American Steamship Company.																		
S. S. Illinois, N. 39° 42′, W. 64° 35′	30.09	764.3	68	20.0	94	w.			1		2		wsw.			sm'h	w.	clear.
S. S. Indiana, N. 39° 39′, W. 62° 15′†	30.24	768.1	67	19.4	94	w.			4		10		wnw.	0	0	mod.	w.	fair.
S. S. Lord Clive, N. 40° 43′, W. 58° 47′*	29.95	760.7				s.			2		7		sw.	2 h'r	2 h'r	light	sw.	cloudy.
S. S. Ohio, N. 50° 30′, W. 17° 54′†	29.50	749.3	57	13.9	87	var.			5		7		e.			long	ne.	fine.
Anchor Line.																		
S. S. Bolivia, N. 41° 10′ W. 58° 00′†	29.97	761.2	60	15.6		sw.			1		1?		wsw.	5 h'r	5 h'r	long	w.	cloudy ?
S. S. India, N. 15° 10′, E. 53° 46′*	29.62	752.3	88	31.1	91	wsw.			3		2					cross		fair.
S. S. Utopia, Alicante, Spain†	30.06	763.5	85	29.4	52	sse.			2		2		ssw.	0	0			clear.
Atlas Line.																		
S. S. Alvo, N. 18° 48′, W. 72° 38′	30.27	768.8	100	37.8		e.			2		0			1 h'r	1 h'r			
S. S. Athos, Kingston, Jamaica, W. I.	29.51	749.5																
Boston and Halifax Line.																		
S. S. Carroll, N. 42° 26′. W. 63° 33′			51	10.6	79	e.								rain	rain			rain & fog.
British Meteorological Office.																		
Bk. Arran, S. 40° 08′, E. 14° 47′	29.89	759.2	57.5	14.2	81	wnw.			6		9							d. clouds.
British Merchant, S 25° 36′ E 5° 09′	30.31	769.9	66.3	19.1	64	se.			3		5							d. clouds.
Bk. Commewyne, N. 29° 11′, W. 25° 11′	30.16	766.1	71.5	21.9	71	w.			4		1							blue sky.
Bk. Coppename, N. 19° 22′, W. 28° 50′	30.19	766.8	76	24.4	64	ne.			4		2							blue sky.
Earnock, N. 46° 57′, W. 13° 10′	29.47	748.5	58.5	14.7	81	ssw.			4		4							d. clouds.
Glencairn, S. 30° 07′, E. 32° 40′	30.28	769.1	71	21.7	85	ssw.			6		9							showery.
Bkt. Hope, N. 31° 40′, W. 45° 55′	30.27	768.8	69.7	20.9	75	w.			1–2		1							blue sky
May Hulse, S. 29° 15′, W. 83° 40′	30.22	767.6	65.7	18.7	68	ese.			3		4							d. clouds.
Cunard Line.																		
S. S. Bothnia, N. 40° 55′, W. 65° 55′	30.05	763.3				calm			0		8?		calm	0	0	sm'h		clear ?
S. S. Marathon, N. 48° 21′, W. 34° 05′	29.86	758.4	52	11.1		n.			4		9		nne.	1 h'r	1 h'r	mod.	nne.	cloudy.
S. S. Parthia, N. 42° 18′, W. 58° 36′†	29.90	759.4				s.			6		5?		s.	8 h'r	8 h'r	mod.	ene.	overcast.?
S. S. Scythia, New York, N. Y.	30.04	763.0	60	15.6	?	s.			1		7		sw.	0	0			dull.
General Trans-Atlantic Company.																		
S. S St Laurent. N. 48° 41′ W 15° 56′†	29.47	748.5	57.2	14.0	89	s.			4					hail	hail	sm'h	s.	hailing.
S. S. Ville de Marseilles, N. 40° 30′, W. 60° 08′*†	30.10	764.5	65	18.3		calm			0		7		wsw.	1 h'r	1 h'r	sm'h		cloudy.
Hamburg American Packet Company.																		
S. S. Bohemia, N. 48° 30′, W. 18° 59′*†	29.34	745.2				ene.			5		4		e.	sh'rs	sh'rs	long	ene.	fine.
S. S. Cimbria, N. 45° 26′, W. 46° 28′	30.23	767.8	41.9	5.5		n.			2		2		n.	0	0	mod.	n.	cloudy.
S. S. Gellert, N. 49° 50′, W. 17° 30′	29.53	759.0	64	17.8		e.			5		5		e.	0	0	mod.	e.	fair.
S. S. Lessing, New York. N. Y.	30.03	762.8	66	18.9		calm			0		0			0	0			clear.
S. S. Silesia, N. 52° 36′, E. 3° 25′†	29 99	761.7	60	15.6		ese.			4–5		0			0	0	1	e.	fair.
S. S. Wieland, N. 49° 50′, W. 6° 19′	29.79	756.7	60	15.6		ese.			2		8		se.	2 h'r	2 h'r	3	sw.	fair.
Lampert and Holt's Line.																		
S. S. Hevelius, S. 10° —′, W. 33° —′*†	30.17	766.3	82	27.8		sse.			2		4		se.	0	0			clear.
S. S. Humboldt, N. 23° 37′ W. 61° 23′*	30.14	765.5	78.2	25.7	86	e.			3		2 k;n			0	0	3	con.	d. clouds.
Leyland Line.																		
S. S. Iberian, N. 50° 29′, W. 24° 32′	29.45	748.0				ne.			1		8		e.	9 h'r	9 h'r			cloudy.
Merchants' Steamship Company.																		
S. S. Glenfyne, Chesapeake Bay	29.73	755.1				nw.			6				nw.	0	0	mod.	w.	fine.
S. S. Glenapp, Bahia. Brazil*†	30.02	762.5				var.			3		5		sw.			sm'h		rainy.
National Line.																		
S. S. Denmark, N. 48° 13′, W. 27° 26′	29.49	749.0	55	12.8		n.			4		10		n.	½ h'r	½ h'r	long	nw.	cloudy.
S. S. Erin, N. 41° 07′ W. 53° 20′	30.01	762.2	55	12.8		nw.			5		10		nw.	0	0	cross	ne.	fine.
S. S. Greece, N. 48° 55′, W. 18° 16′	29.41	747.0				e.			4		2		e.	0	0	mod.	e.	clear.
S. S. Italy, N 40° 50′, W. 66° 04′	30.07	763.8	52	11.1		sw.			2		5		sw.	0	0	sm'h	s	foggy.
New York Havana and Mexican Mail.																		
S. S. City of Alexandria, N. 30° 40′, W. 78° 58′*†	30.25	768.3	74	23.3	72	sse.			4		8		s.	0	0	long	s.	d. clouds.
S. S. City of Puebla, N. 19° 21′, W. 96° 00′†	29.81	757.2	78	25.6		n.			3		10		n.			mod.	ne.	
New York Herald Weather Service.																		
S. S. Lepanto, N. 49° 58′, W. 4° 50′*	29.85	758.2	60	15.6		e.			3							sm'h		
S. S. Lone Star, N. 34° 57′, W. 75° 28′*†	30.35	770.9	68	20.0		sw.			3								sw.	clear.
North German Lloyd.																		
S. S. Graf Bismarck, Bahia, Brazil	30.14	765.5	77.0	25.0		var.			2		6		var.	7 h'r	7 h'r			rainy.
S. S. Habsburg, N. 49° 58′, W. 12° 24′	29.54	750.3	55.4	13.0		sse.			3		8		sse.	9 h'r	9 h'r	r'gh	s.	cloudy.
S. S. Hermann, N. 48° 28′, W. 25° 50′†	29.32	744.7	60.8	16.0		e.			2		2		e.	0	0	h'vy	n.	fair.
S. S. Leipzig, N. 40° 22′, W. 57° 26′	30.14	765.5	63.0	17.2	94	e.			1		2			0	0	sm'h		clear.
S. S. Main, N 53° 14′, W. 4° 25′	29.90	759.4	59.0	15.0		ene.			4		10		ene.	light	light	sm'h	e.	overcast.
S. S. Neckar, N. 40° 44′, W. 63° 13′	30.05	763.3	63.5	17.5		ene.			1		8		ne.	0	0	sm'h	sw.	fair.
S. S. Oder, N. 43° 53′, W. 44° 21′	30.14	765.5	51.8	11.0		nw.			3		3		nw.	0	0	mod	nnw.	clear.
S. S. Ohio, N 48° 28′, W. 23° 58′	29.46	748.3				ne.			2		3		nne.	¾ h'r	¾ h'r	sm'h	ne.	fair.
S. S. Salier, N. 42° 54′, W. 46° 02′	30.17	766.3	42.8	6.0		ne.			6		5		ne.	0	0	r'gh	ene.	fair.
S. S. Strassburg, N. 40° 49′, W. 58° 41′	30.12	765.0	71.0	21.7	75	ssw.			2		3		ssw.	0	0	sm'h	ssw.	fair.
Occidental and Oriental Steamship Company.																		
S. S. Belgic, N. 23° 12′, E. 117° 42′†	29.98	761.5	74	23.3	81	ene.			4		8		ne.	0	0	mod.	ne.	cloudy.
S. S. Gaelic, N. 34° 40′, E. 142° 01′†	30.02	762.5	67	19.4	84	w.			6		5		sw.			sm'h		overcast.
S. S. Oceanic, N 46° 00′ W. 171° 22′*	29.87	758.7	45	7.2	84	wsw.			4–5		8		w.			3	ene.	cloudy.
Ocean Steamship Company.																		
S. S. City of Augusta, N. 33° 19′, W. 78° 20′†	30.21	767.3				se.			3		10?					sm'h		clear ?
S. S. City of Columbus, Savannah, Ga.†	30.20	767.1				s.			1					0	0			cloudy.
S. S. Seminole, N. 39° 10′ W. 73° 15′†	30.12	765.0	64	17.8	67	sw.			1		1		wnw.	0	0	sm'h	sw.	clear.
Oregon Improvement Company.																		
S. S. Willametta, Golden Gate, Cal†	29.98	761.5	51	10.6	78	sse.			4		8		sse.	0	0	mod.	sse.	cloudy.
Oregon Railway and Navigation Company.																		
S. S. Oregon, San Francisco, Cal.†	29.93	760.2	54	12.2	93	nw.			1		8		nw.					hazy.
Pacific Coast Steamship Company.																		
S. S. Ancon, San Francisco, Cal.†	29.88	758.9	51	10.6	93	w.			1		10		sw.					cloudy.
S. S. Dakota, N. 41° 30′, W. 124° 41′†	29.93	760.2	49	9.4	100	calm			0		10?		w.			mod.	nw.	clear.?
S. S. Orizaba, N. 33 38′, W. 118° 32′†	29.96	761.0	56	13.3	87	var.			2		fg		s.			sm'h	s.	dense fog.
S. S. State of California. N. 37° 49′, W. 123° 10′†	29.93	760.2	51	10.6	86	calm			0		8					sm'h	w.	overcast.
S. S. Victoria, N 46° 05′, W. 124° 53′†	29.78	756.5	53	11.7	86	ese.			3		8			0	0	sm'h		overcast.
Pacific Mail Steamship Company.																		
S. S. City of New York, S. 35° 10′, E. 175° —′†	30.14	765.5	64	17.8	78	e.			6		8		e.	0	0	sm'h	se.	overcast.
S. S. City of Pekin, N. 38° 04′, W. 153° 27′†	30.28	769.1	52	11.1	79	wnw.			6		5		w.			light	w.	fair.
S. S. City of Sydney, S. 7° 18′, W. 168° 21′†	29.85	758.2	82	27.8	79	ene.			5		5		se.	0.625	15.9	mod.	ene.	cloudy.
S. S. City of Tokio, Hong Kong, China†	29.86	758.4	75	23.9	81	e.			2		10		e.	3 h'r	3 h'r			raining.
S. S. Colima, Panama, Panamat	29.03	760.2	83	28.3	96	nnw.			3		7		nnw.	0.03	0.8			cloudy.
S. S. Colon, N. 29° 35′, W. 73° 55′†	30.24	768.1	72	22.2		ene.			3		3		ene.	0	0	small	ene.	fair.
S. S. Grenada, N. 22° 02′, W. 105° 53′†	29.90	759.4	76	24.4	?	wnw.			1		2		nw.	0	0	light	wsw.	clear.
S. S. Zealandia, Sydney, N. S. W.	30.27	768.8	56	13.3	75	calm			0		0							fine.
Quebec S. S. Company.																		
S. S. Muriel, Antigua, W. I.	29.92	760.0	83	28.3		e.			3		0			0	0	sm'h		fair.
Red Star Line.																		
S. S. Belgenland, Antwerp. Belgium†	30.04	763.0	68	20.0	70	se.			4		1		calm	0	0	sm'h	e.	clear.
S. S. Rhynland, N 49° 44′, W. 8° 00′	29.78	756.4	58	14.4	69	e.			3		10		e.	0	0	long	sw.	dull.
S. S. Switzerland, N. 39° 58′, W. 49° 34′†	30.01	762.2				ene.			4		10		ene.	10 h'r	10 h'r	mod.	ene.	misty.
S. S. Vaderland. N. 48° 21′, W. 25° 49′	29.45	748.0	57	13.9	69	ene.			3		5		ene.	3 h'r	3 h'r	mod.	ne.	fair.
S. S. Waesland, N. 40° 16′, W. 61° 43′	30.05	763.3	67	19.4		wsw.			5		2		w.	4 h'r	4 h'r	mod.	wsw.	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
ROTTERDAM LINE.																		
S. S. Schiedam, N. 43° 30′ W. 43° 39′*	30.09	764.3	53.6	12.0		nw.			5		6?		nw.	0	0	r'gh	nw.	clear.?
S. S. W A Scholten, N. 49° 46 W. 4° 20′	29.48	748.8	54.5	12.5	93	s.			3		9		ssw.	4 h'r	4 h'r	long	sw.	foggy.
STATE LINE.																		
S. S. State of Florida, N 41° 23′. W. 51° 21′	29.99	761.7	62	16.7		e.			5		10		e.	2 h'r	2 h'r	mod	e.	hazy.
S. S. State of Georgia, N. 42° 49′, W. 57° 03′†	30.17	766.3	44	6.7		nw.			2		5		nw.			light	sw.	fine.
THINGVALLA LINE.																		
S. S. Thingvalla, Copenhagen, Denmark†	30.28	769.1	57.2	14.0		sw.			2		6?		sw.	0	0			covered.?
WARREN LINE.																		
S. S. Iowa, N, 44° 25′ W. 43° 49′*†	30.20	767.1	45	7.2		n.			4		9		n.	light	light	mod.	n.	cloudy.
WHITE STAR LINE.																		
S. S. Adriatic, Liverpool, Eng†	30.00	762.0	66	18.9	73	ese.			2		5		ese.	0	0	sm'h		misty.
S. S. Baltic, N. 51° 12′ W. 15° 30′†	29.68	753.9	61	16.1	88	ese.			3		8		ese.	1 h'r	1 h'r	sm'h	ene.	cloudy.
S. S. Celtic, N. 48° 36′, W. 31° 26′†	29.67	753.6	55	12.8	87	nne.			4		10		ne.	24 h'r	24 h'r	mod.	nne.	misty.
S. S. Germanic, N. 40° 50′, W. 59° 30′†	30.17	766.3	60	15.6		s.			2		7		w.	0	0	sm'h		d clouds.
WILSON LINE.																		
S. S. Otranto, N. 41° 27′, W. 54° 58′†	30.09	764.3	56	13.3		nnw.			4		8		nne.			mod.	nnw.	cloudy.
S. S. Romano, Hull, Eng*†	29.95	760.7	62	16.7										0	0			clear.
MISCELLANEOUS.																		
Schr. Abbie Clifford, N. 12° 05′ W. 65° 16′*†	30.02	762.5	82	27.8		ene.			2		8			0	0	sm'h		fine.
Schr. Addie Fuller, Newport News, Va†	30.18	766.6	66	18.9	73	sw.			3	7 ck	0	sw.		0	0			fair.
Bk. Adelaide, N. 2° 55′, W. 43° 47′*†	30.00	762.0	85	29.4		e.			3		2		ene.	sh'rs	sh'rs	mod.	cross	clear.
Schr. Ajax, Brazos, Texas†	30.10	764.5				e.			3		9		n.	4 h'r	4 h'r			cloudy.
Bk. Alpha, Guanatamo, W. I†	29.98	761.5	79	26.1		n.			1		3		ne.	2 h'r	2 h'r			fair.
Schr. Annie Lewis, N. 27° 00′. W. 95° 07′†	30.15	765.8	76	24.4		n.			3		8		n.	0	0	long	nne.	cloudy.
Bk. Anna Thormann, N. 15° 01′, W. 28° 49′	30.11	764.8	74.3	23.5	83	ne.			6		6 k		ne.	0	0	cross	ne.	fair.
Bk Antioch, S. 39° 20′, E. 145° 30′*†	30.10	764.5	63	17.2		ene.			2		0			0	0	sm'h		
Antonio Lopez, N. 37° 25′. W. 51° 32′*	30.08	764.0	68	20.0	90	nw.			1		8 ks			8 h'r	8 h'r	mod.		squally.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.27	768.8	76	24.4		calm			0		10		calm	0	0			hazy.
Sch'r Annie M. Smull, S. 1° 32′ E. 107° 29′*†	30.00	762.0	91	32.8		s.								0	0			
Bk. Bergenseren, N. 39° 08′, W 12° 10′†	29.62	752.3				ssw.			6				wsw.	rain	rain	6	nw.	threatening
S. S. Compton, N. 29° 21′, W 79° 27′†	30.16	766.1				ese.			4		8		ese.	0	0	mod.	se.	cloudy.
Schr. Edith R. Seward, N. 26° 44′, W. 75° 41′*†	30.32	770.1	77	25.0		ene.			2		2		e.	0	0	r'gh	e.	clear.
Bk. E. J. Spicer, London, Eng†	29.97	761.2				se.			2		7		sse.	0	0			
S. S. Essex, N. 38° 52′ W. 59° 55′*†	30.18	766.6	72	22.2		wsw.			3		1		wsw.	0	0	sm'h	w.	clear.
S. Exporter, S. 42° 00′, E. 10° 00′*†	30.00	762.0				nnw.			6				w.	12 h'r	12 h'r	cross		
Bk. Freya, Dublin, Ireland			58	14.4		e.			2		2		e.	3 h'r	3 h'r			fair.
Bk. Godfrey, N. 37° 55′, W. 60° 51′	30.16	766.1	69.1	20.6	75	w.			4		4		w.	0	0	mod.	nw.	clear.
S. Grecian, S. 4° 20′, E. 106° 44′*†	29.83	757.7	82	27.8		e.			3		3		e.	1 h'r	1 h'r	sm'h		clear.
Bk. Hattie G. McFarland, N. 43° 00′, W. 69° 14′*†	30.10	764.5	46	7.8		e.			3					8 h'r	8 h'r			hazy.
Schr. Henry Denison, N. 29° 52′, W. 76° 52′†	30.18	766.6				ene.			3		2		e.	0	0	mod.	ene.	fair.
S. Ismir, N. 64° —′, W. 31° 40′	29.97	761.2				ene.			4		8		e.			rg'h	e.	fine.
James Slater, N. 36° 41′, W. 67° 20′*†	30.41	772.4	74	23.3		sw.			3		0			0	0	mod.	sw.	clear.
Bk. Johanne, N 50° 50′, W. 10° 18′*†	29.55	750.6	56	13.3		se.			7		8		ese.	h'vy	h'vy	r'gh	se.	threatening.
Schr. John L. Thomas, N. 12° 05′, W. 81° 54′*†	30.02	762.5				ene.			3		1		ene.	0	0	r'gh	ene.	clear.
Bkt. Josephine, Guanatamo, Cuba, W. I*†	30.14	765.5	79	26.1	78	n.			2		2		e.	2 h'r	2 h'r			fair.
Bk. Julia H., Havana, Cuba, W. I.	30.07	763.8	76.9	24.9	72	ese.			3		8 ks							d. clouds.
Bk. Kate Cann, N. 39° 42′, W. 66° 46′*†	30.00	762.0				ne.			1		10		s.	0	0	sm'h	ene.	overcast
Bkt. Kryolith, N. 58° 47′, W. 46° 48′*†	30.42	772.7				wnw.			5		2		wnw.	0	0	sm'h		hazy.
S. S. Lamperts, N. 15° 26′, E. 60° 03′*	29.72	754.9	86.0	30.0	75	wsw.			4		3 k					2		misty.
S S. Laurel, Pensacola Bay, Fla.†	30.02	762.5	73	22.8		sse.			5		10		ssw.	10 h'r	10 h'r			heavy rain.
Maggie Abbott, N. 36° 40′, W. 71° 35′*†	30.16	766.1				wsw.			4				sw.	0	0	mod	sw.	clear.
S. S. Malabar, Singapore, India*†	29.86	758.4							2									cloudy.
Bg. Medina, N. 39° 35′, W. 74° 00′	30.13	765.3				sw.			1		10		sw.			light	s.	hazy.
S. Paramita, S. 20° 12′ W. 35° 20′†	30.04	763.0	82	27.8		var.			1		1		s;e.	0	0	long	s.	clear.
Bk. Pawashick, N. 36° 03′, W. 51° 05′*†	30.35	770.9	69	20.6	100	wsw.			6		10		w.			r'gh	w.	raining.
Bk. Peppina, Bordeaux, France†	29.85	758.2	72	22.2	67	wsw.			3		5?		w.					cloudy.?
S. S. Ponca, N. 13° 43′, W. 57° 00′†	30.03	762.7	85	29.4		e.			3		8		e.	¼ h'r	¼ h'r	mod.	e.	cloudy.
Bk. Princessen, N. 44° 28′, W. 32° 18′†	29.69	754.0	56	13.3		nnw.			6		10			2 h'r	2 h'r	mod.	nnw.	drizzling.
Bk. Rosebud, N. 22° 48′ W. 24° 22′*†	30.22	767.6	80	26.7	50	ne.			2		0			0	0	long	nw.	fine.
S. Salisbury, S. 41° 01′, E. 26° 03′*	30.27	768.9	55.6	13.1	80	n.			6		5		n.	0	0	long	wsw.	fair.
Bkt. Spotless, S. 18° 36′ W. 35° 27′*†	30.10	764.5				e.							e.				n.	clear.
Bk. Stella, N. 4° 33′, W. 116° 40′*	29.89	759.2	78.8	26.0	92	ese.			3		3 k		se.	0	0	sm'h	se.	d. clouds.
Bk. Truro, N. 48° 10′, W. 14° 10′*†	29.50	749.3				sse.			4		7		sse.	1 h'r	1 h'r	mod.	w.	cloudy.
U.S. F.C.S. Fish Hawk, Washington, D. C†	30.22	767.6	68	20.0	90	s.			2		9		s.	0	0			cloudy.
Yacht Vega, Fort Royal, Martinique, W. I*†	30.20	767.1	78	25.6		ene.			1				ene.	2 h'r	2 h'r	sm'h		
S. S. Victoria J Peed, Salamanca Id, U. S. C*†	29.11	739.4				se.			1		0							
Schr. Viola Reppard, N. 33° 15′. W. 78° 55′†	29.96	761.0	74	23.3		s.			2		9		sw.	0	0	small	se.	fair.
S. Washington, Bremerhaven, Germany*†	29.94	760.5				ese.			2		0			0	0			clear.
Bk. Wm. Wilcox, N. 28° 20′, W. 45° 30′*†	30.42?	772.7?	74	23.3		e.			3		8		sse.	0	0	mod.	ene.	fair.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 23, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.05	763.3	74.8	23.8	66	w.			2		0			0	0	clear	Moiroud.
Algiers			29.99	761.7	75.6	24.2	65	w.			1		0			0	0	clear	Nicolas.
La Galle			29.95	760.7	78.1	25.6	67	n.			1		1			0	0	very fair	Fonfrède.
Tunis			29.95	760.7															Jacques.
Saida			30.10	764.4															Dumas.
Tebessa			30.06	763.6	64.8	18.2	65	se.			3		1			0	0	very fair	Derché.
Geriville					83.8	28.8	12	sw.			4		0			0	0	clear	Lonchamp.
Laghouat			30.10	764.4	89.6	32.0	38	s.			3		0			0	0	clear	Abraham.
Biskra			30.05	763.2	86.7	30.4	18	se.			2		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.72	754.9	29.81	757.2	56.1	13.4	75	ne.	4	1.8			10			0.07	1.8	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.29	744.0	29.87	757.2	79.2	26.2	50	ne.			2		2			0.118	3.0		Prof. Ivan Stozir.
Cracow, I. R. Observatory	29.08	738.7	29.83	757.6	68.5	20.3	63	e.	12.5	5.6			3			0.016	0.4		Dr. Wierzbiski.
Eperies	29.00	736.5	29.84	757.9	71.4	21.9	55	ne.			2	cs	4 s			0	0		Julius Mikolik.
Gratz	28.60	726.5	29.81	757.1	67.3	19.6	80	sw.			2		5					thnd'r st'rm	Andreas Rospini.
Hermannstadt	28.48	723.3	29.85	758.2	71.2	21.8	56	se.			2		2			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.41	721.6	29.68	753.9	73.2	22.9	66	ese.			2		2			0.051	1.3		The Staff.
Lemberg	28.97	735.7	29.92	759.9	67.6	19.8	47	s.			3		2			0	0		Dr. T. Stanecki.
Pola	29.76	756.0	29.87	758.7	75.4	24.1	52	sw.			1		2			0	0		I. R. Hydrographic Office.
Szathmar	29.39	746.4	29.84	758.0	77.7	25.4	57	se.			3		5			0.118	3.0		Joseph Midlinszky, S. J.
Szegedin	29.58	751.4	29.85	758.3	70.2	21.2	60	se.			1		6			0	0		Karl Stancel.
Trieste	29.67	753.7	29.78	756.3	75.9	24.4	41	calm			0		0			0	0		Rieder.
Vienna	29.11	739.5	29.80	756.9	73.2	22.8	46	se.			3		1			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.58	751.3	29.68	753.9	51.4	10.8	72	sse.	15	6.7			2			0.065	1.6	blue sky	W. Boswell
Armagh, Observatory	29.33	745.0	29.57	751.1	58.0	14.4	87	ene.	7	3.1			9					d. clouds	S. Call.
Bidston, Liverpool Obs'y			29.52	749.8	65.9	18.8	73	e.	18	8.0			8					overcast	John Hartnup.
Bolton, Sharples	29.03	737.3	29.55	750.6	62.8	17.1	63	e.	12	5.4			9					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.18	741.2	29.58	751.3	63.2	17.3	46	ne.			1		7			0	0	d. clouds	[A.S. J. McLandsborough, F. R
Bridgetown, Barbadoes	29.99	761.7	30.02	762.5	84.0	28.9	69	ne.			1		6					gloomy	Corpl. J. Surgenor, A. H.C.
Cardington			29.53	750.0	70.0	21.1	71	se.			0.6		7						John McLaren.
Chatham, School M. E.	29.45	748.0	29.58	751.3	66.0	18.9	68	s.			3		7					d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.26	743.2	29.48	748.8	52.7	11.5	86	ene.			3		10					rain & fog	The Staff.
Fort Napier, Natal	27.83	706.9	30.04	763.0	66.2	19.0	60	e.			1		4					blue sky	Pvt. E. K. Annis, A.H.C.
Free Town, Sierra Leone	29.60	751.8	29.83	757.7	87.0	30.6	72	w.			1		3					blue sky	Sergt. John Robinson.
Gibraltar, Mediterranean	29.99	761.7	30.04	763.0	71.4	21.9	80	nw.			2		4					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.40	746.7	29.61	752.1	59.7	15.4	59	ene.			4		5 k					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.37	746.0	29.54	750.3	68.5	20.3	58	s.			2		8					d. clouds	The Staff.
Guernsey	29.25	742.9	29.54	750.3	60.0	15.6	87	ssw.			1		2			blank	blank	blue sky	A. Collenette, F. M. S.
Kew, Observatory	29.51	749.5	29.55	750.6	68.0	20.0	66	sse.	23	10.3			8					misty	The Staff.
Leicester, Museum	29.28	743.7	29.53	750.0	66.6	19.2	66	e.			1		8					d. clouds	J. C. Smith.
Malta, Mediterranean	29.89	759.2	29.96	761.0	76.0	24.4	44	ne.			2		0					blue sky	I. H. Whysall.
Nassau, Bahamas	30.05	763.3	30.10	764.5	80.2	26.8	86	ne.			1		7					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.03	737.3	29.54	750.3	63.4	17.4	78	ene.			2		8			blank	blank	d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.29	744.0	29.52	749.8	67.0	19.4	54	se.			2		7					misty	The Staff.
Plymouth	29.43	747.5	29.50	749.3	55.0	12.8	91	s.			1		10					raining	John Merrifield.
Sandwick Manse, Orkneys			29.03	752.6	44.9	7.2		se.	20	8.9			0					blue sky	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.68	753.9	29.74	755.4	69.8	21.0	54	nne.			2		5			blank	blank	d. clouds	W. H. Lyne.
Sheffield	29.31	744.5	29.56	750.8	65.5	18.6	78	ene.			1		9			0.05	1.3	overcast	W. F. Cooper.
Silloth Rectory	29.54	750.3	29.57	751.1	63.6	17.6	63	e.			4		5			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.60	751.8	63.9	17.7	65	ene.	13	5.8			7					misty	J. New.
Straifield Turgiss	29.33	745.0	29.54	750.3	67.7	16.5	77	sw.			3		9					showery	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.40	746.7	29.42	747.3	57	13.9	81	se.			4		10					gloomy	W. Newcombe.
Valencia, Observatory	29.49	749.0	29.52	749.8	58.2	14.6	84	w.	7	3.1			10					d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.28	769.1	30.33	770.4	42	5.6	79	se.	12	5.4			10 n		se.	inap.	inap.	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	30.28	769.1	30.34	770.6	40	4.4	92	n.	7	3.1			10 s		n.	0.03	0.8	cloudy	G. A. Blair.
Father Point, Quebec*	30.21	767.3	30.23	767.8	44	6.7	76	se.	12	5.4			10 k		se.	0	0	threatening	J. McWilliams.
Fort Garry, Manitoba*																			A. Allison.
Halifax, N. S*	30.17	766.3	30.30	769.6	40	4.4	96	ne.	8	3.6			10 k		se.	0.118	3.0	cloudy	A. P. Knight, M. A.
Kingston, Ontario*	29.63	752.6	29.97	761.2	47	8.3	83	nw.	13	5.8			10 ks		w.	0.48	12.2	cloudy	C. H. McLeod, C. E.
Montreal, Quebec*	29.70	754.4	29.91	759.7	52	11.1	86	s.	14	6.3			10 s			0.48	12.2	cloudy	Rev. R. Mosley.
Parry Sound, Ontario*	29.30	744.2	30.00	762.0	44	6.7	83	w.	12	5.4		2 k	5 ks		w.	0.26	6.6	fair	H. Morgan.
Port Dover, Ontario	29.41	747.0	30.11	764.8	45	7.2	78	w.	9	4.0		0	0			0.55	14.0	clear	M. Payne.
Port Stanley, Ontario	29.47	748.5	30.12	765.0	45	7.2	68	w.	12	5.4		2 k	0	w.		0.25	6.3	clear	Capt. Ashe, R. N.
Quebec, Quebec*	29.78	756.4	30.10	764.5	47	8.3	93	e.			5		10 n		e.	0.08	2.0	heavy rain	W. H. McIntyre.
Rockliffe, Ontario*	29.42	747.3	29.88	758.9	46	7.8	83	w.	6	2.7			10 s		w.	0.94	23.9	cloudy	
Saugeen, Ontario*	29.35	745.5	30.08	764.0	41	5.0	82	sw.	11	4.9			10 ks			0.06	1.5	cloudy	
St. Andrews, N. B	30.17	766.3	30.23	767.8	42	5.6	90	se.	3	1.3			10 n			0	0	cloudy	
Sydney, C. B*	30.27	768.8	30.34	770.6	37	2.8	96	ne.	4	1.8			10 n			0.03	0.8	cloudy	T. C. Hill, C. E
Toronto, Ontario*	29.69	754.1	30.08	764.0	46	7.8	71	w.	10	4.5		0	0			0.84	21.3	clear	Magnetic Observatory.
Yarmouth, N. S*	30.14	765.5	30.21	767.3	44	6.7	80	s.	12	5.4		5 ck	5 k	w.	se.	0	0	cloudy	Lt. F. E. Wilmot, R. N
Sub-series.																			
St. Johns, Newfoundland	30.19	766.8	30.45	773.4	37	2.8	100	ne.				fg	fg.			0	0	foggy	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.24	768.1	30.27	768.8	67.0	19.4	88	w.	15.6	7.0		0	6 s			0	0		John Duthie.
Cape Town, C. G. H. Obs'y	30.28	769.1	30.32	770.1	63.2	17.3	67	s	21	9.4		8	8			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
CHINESE (*Sub-series*).																			
Hankow	29.76	755.9	30.03	762.7	78.7	25.9	65	calm			0		8			0	0		N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.95	760.8	29.98	761.4	62.8	17.1	94	se.	7.4	3.3		3 cs	fg			0	0	cloudy	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.72	754.5	29.77	756.1	65.3	18.5	62	sse.	16	7			0						Oversergent Fischer.
Fanöe	29.67	753.5	29.69	754.0	66.7	19.3	73	e.			2		7						Overloerer Lauridsen.
Godthaab, Greenland	30.21	767.2	30.25	768.3	42.8	6.0	78	ne.			2		10			0	0	foggy	S. Kleinschmidt.
Stykkisholm, Iceland	29.92	760.0	29.97	761.1	37.0	2.8	66	e.			6		8						A. O. Thorlacius.
Thorshavn	29.55	750.6	29.59	751.5	47.5	8.6	84	sw.	11	5			10						Overloerer Bergh.
Vestervig	29.62	752.4	29.71	754.7	55.8	13.2	80	nnw.			2		5					thunder	Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.21	742.0	29.84	758.0	68.7	20.4	31	calm			0	0	2 kn		sw.	0	0	slightly cl'dy	M. Labroue, Director.
Alençon, Normal School	29.17	741.0	29.72	755.0	61.9	16.6	75	s.			2		n		s.	0.20	5.		M. Nicot, Director.
Arras, Engineer School	29.38	746.2	29.63	752.6	62.4	16.9	73	sw.			1		ks			0	0		M. Fénéon, Command't.
Avignon, Normal School	29.84	758.0	29.92	760.0	70.2	21.2	70	se.			1		8		s.	0.020	0.5	very cloudy	M. Giraud, Director.
Bar-sur-Seine	29.23	742.5	29.78	756.3	61.0	16.1	74	sse.			1		10			0.209	5.3	covered	M. Saillard, Director.
Beauvais, Normal School	29.45	748.1	29.71	754.6	67.5	19.7	64	sse.			1		10		sse.	0.189	4.8	covered	M. Frère Eugène Marl.
Besançon, Normal School	28.85	732.8	29.76	755.8	64.8	18.2	74	e.			1		10 n		s.	0.335	8.5	thund'r st'm	M. Gobin, Director.
Bordeaux, Observatory	29.58	751.3	29.84	757.8	65.8	18.8	47	w.			1		8		wsw.	0.307	7.8	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.25	743.0	29.79	756.6	61.7	16.5	66	sw.			1		k		sw.	0.681	17.3		M. Postel, Director.
Brest, Naval Observatory	29.34	745.1	29.58	751.3	59.0	15.0	70	sw.			4		8		sw.	0.118	3.0		M. de Kermaree, Dir.
Caen, Normal School	29.57	751.0	29.64	752.8	62.2	16.8	72	ssw.			2		10		ssw.	0.228	5.8	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.30	744.2	29.61	752.1	65.3	18.5	67	sw.			3		8	w.	w.	0.295	7.5	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.15	740.3	29.63	752.7	74.8	23.8	33	sw.			3		8			0	0	¾ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.48	723.5	29.82	757.4	59.2	15.1	68	n.			1		10		w.	0.394	10.0	covered	M. Allnard, Director.
Cluny, Normal School	29.00	736.6	29.83	757.7	56.3	13.5	100	s.			2		8		s.	0.650	16.5		M. de Villemontée, Dir.
Commercy, Normal School	28.92	734.6	29.76	755.8	65.3	18.5	62	sw.			4		5 kn	sw.	sw.	0.035	0.9	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.37	695.3	29.88	759.0	58.1	14.5	82					0	3 k		n.	0.335	8.5		M. Jeangirard, Director.
Gréasque, du Rhone	28.77	730.8	29.86	758.4	70.5	21.4	49	se.			3		9		se.	0	0		M. Kina, Director.
Grenoble, Normal School	29.02	737.1	29.76	755.8	70.2	21.2	40	ssw.			4		10 n					raining	M. Ablard, Director.
Guéret, Normal School	28.30	718.7	29.85	758.3	58.6	14.8	52	sw.			2		5		sw.	0.220	5.6	cloudy	M. Rivoire, Director.
Lamballe, Normal School	29.34	745.2	29.60	751.9	56.5	13.6	82	sw.			3		8		sw.	0.39	10.	very cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.29	743.9	29.83	757.7	76.3	24.6	36	w.			1	2 ck	0			0.043	1.1	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	29.56	750.8	29.66	753.4	60.8	16.0	62	sw.			8		5		sw.	0.106	2.7	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.79	731.2	29.84	757.9	55.9	13.3	97	nw.			1		10			1.004	25.5	raining	M. André, Director.
Mans, Normal School	29.41	746.9	29.71	754.6	60.6	15.9	61	e.			1		5		e.	0.114	2.9	cloudy	M. Piboen, Director.
Marseille, Observatory	29.60	751.8	29.87	758.6	70.9	21.6	69	sse.			2.3		8		ssw.	0.012	0.3		M. Stephan, Director.
Montlouis	24.69	627.1	29.53	750.1	56.8	13.8	61	e.	15.0	6.7			7		se.	0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.68	753.8	29.80	757.0	69.1	20.6	80	se.			3		2		ne.			light rain	M. Galzin, Director.
Nancy, Normal School	28.98	736.1	29.75	755.6	57.2	14.0	86	sw.			1		kn		sw.	0	0		M. Hasse, Director
Nantes, Observatory	29.59	751.5	29.75	755.6	65.8	18.8	53	wsw.			2-3	0	6k;kn			0.059	1.5		M. Larocque, Director.
Perpignan, Observatory	29.71	754.6	29.82	757.3	71.2	21.8	62	se.	5.6	2.5			5		sw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.11	536.2			33.8	1.0		sw.			1		5		sw.	0.051	1.3	cloudy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.76	730.6	29.81	757.1	63.0	17.2	80	s.			1		10					raining	M. Tallieu.
Puy de Dôme Obs'y, Summit	24.93	633.2			40.5	4.7	100	wsw.			8		8			0.264	6.7	foggy	M. Allnard, Director.
Rochefort, Naval Obs'y	29.77	756.2	29.80	757.0	64.4	18.0	100	wsw.			3		2		ssw.	0	0	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.52	749.8	29.73	755.2	61.2	16.2	67	sw.			3		5		sw.	0.114	2.9	cloudy	M. Mouillot, Director.
Rodez, Normal School	27.71	703.9	29.82	757.3	62.2	16.8	94						5		sw.	0.602	15.3	cloudy	M. Serger, Director.
Rouen, Normal School	29.60	751.8	29.65	753.0	59.7	15.4	85	s.			1		10		n.	0.169	4.3	covered	M. Brotier.
Saint Maur, Observatory	29.55	750.5	29.71	754.7	56.8	13.8	83	sw.			1		10			0.063	1.6		M. Renou, Director.
Toulouse, Observatory	29.17	741.0	29.89	759.3	67.8	19.9	67	nnw.			1		5	w.		0	0	cloudy	M. Baillaud, Director.
Tours	29.56	750.7	29.73	755.2	64.4	18.0	71	sw.			4		kn	sw.	sw.	0.213	5.4		
Versailles, Observatory	29.21	741.9	29.70	754.4	57.9	14.4	74	w.			2					0.031	0.8		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.43	747.4	29.72	754.8	57.4	14.1	84	sw.			1		10		wsw.	0.043	1.1		M. Marié Davy, Director
GERMAN.																			
Bamberg	28.88	733.6	29.73	755.1	76.3	24.6	33	s.			2	0	4 k		sw.	0	0		Prof. Dr. Hoh.
Berlin	29.54	750.2	29.71	754.5	75.2	24.0	46	se.			3		3			0	0		Prof. Dr. Arndt.
Breslau	29.31	744.5	29.84	757.9	74.1	23.4	56	sse.			2		9			0	0		Royal University Obs'y.
Carlsruhe	29.66	753.4	30.09	764.3	71.4	21.9	57	ese.			1		9	s.		0.020	0.5		Albert Senz.
Cassel	28.96	735.6	29.67	753.7	75.7	24.3	38	s			2		8	se.				thund'r st'm	Dr. H. Möhl.
Frankfort-on-the-Main	29.36	745.8	29.72	754.8	68.5	20.3	63	sw.			1		9			0.039	1.0		Physical Society.
Friedrichshafen	28.37	720.6	29.76	756.0	64.4	18.0	59	sw.			5		10	w.		0.228	5.8		Wilhelm, Chief Tel.
Hamburg	29.61	752.1	29.71	754.5	72.1	22.3	46	se.			2		4			0	0		E. Preller.
Kiel	29.66	753.4	29.68	753.8	70.0	21.1	48	ese.			1		5			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.32	744.8	29.72	755.0	75.4	24.1	40	e.			2		4	ese.		0	0	hazy	H. Leppig, Asst.
Magdeburg	29.53	750.0	29.71	754.5	78.8	26.0	32	se.			1	0	1 k		se.	0	0		Dr. Assmann.
Memel	29.85	758.1	29.89	759.2	69.1	20.6	64	s.			2	0	6s;n						Issermann.
Munich	27.95	709.9	29.80	756.8	74.3	23.5	34	ne.			2		4	nw.		0	0		Central Station.
Neufahrwasser	29.86	758.4	29.87	758.8	57.9	14.4	96	nw.			1		10	s.		0.469	11.9	thund'r st'm	A. Lothes.
Neustadt, Palatinate	29.17	741.0	29.70	754.3	68.0	20.0	49	s.			1		9			0.083	2.1		Dicknether.
Stuttgart	28.77	730.7	29.61	752.1	76.1	24.5	40	s.			1		7	w.		0.083	2.1		Prof. Dr. Schoder.
Wustrow	29.74	755.5	29.77	756.1	74.7	23.7	45	se.			1	0	3 s			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.46	748.2			71.6	22.0		n.			3.5		2			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.67	753.6	29.72	754.9	86.3	30.2	76	wsw.	33.0	14.8			0			0	0	misty	
Deesa	29.17	740.9	29.62	752.4	99.9	37.7	23	sw.	11.1	5.0			1	ssw.		0	0	d. clouds	
Bombay	29.71	754.7	29.75	755.6	87.2	30.7	65	wnw.	12.0	5.4			0			0	0	blue sky	
Poona, Yarrowda	27.85	707.3	29.65	753.1	90.5	32.5	38	wnw.	24.0	10.7			2		wsw.	0	0	d. clouds	
Bellary	28.16	715.4	29.57	751.0	100.7	38.2	16	nw.	12.5	5.6			6			0	0	d. clouds	
Belgaum	27.20	690.9	29.70	754.3	82.4	28.0	60	wsw.	8.0	3.6			3	se.	nw.	0	0	misty	
Lahore	28.80	731.4	29.49	749.1	105.3	40.7	15	e.	0.8	0.4			0			0	0	blue sky	
Roorkee	28.61	726.6	29.46	748.2	102.9	39.4	12	nw.	3.1	1.4			0			0	0		
Agra	28.99	736.3	29.52	749.8	105.1	40.6	15	nw.	7.1	3.2			0			0	0		
Nagpur	28.54	724.9	29.53	749.9	104.7	40.4	20	nw.	7.7	3.4			4		w.	0	0	d. clouds	
Jubbulpore	28.26	717.8	29.55	750.7	101.2	38.4	14	n.	4.0	1.8			1			0	0	blue sky	
Lucknow	29.14	740.0	29.50	749.2	99.4	37.4	16	wnw.	5.0	2.2			0			0	0	blue sky	
Allahabad	29.20	741.7	29.50	749.2	104.6	40.3	9	nw.	2.9	1.3			0			0	0	blue sky	
Patna	29.34	745.4	29.52	749.8	100.7	38.2	48	wnw.	4.8	2.2			0			0	0	blue sky	
Hazaribagh	27.58	700.5	29.50	749.4	95.8	35.4	18	nnw.	7.5	3.4			0			0	0	misty	
Cuttack	29.44	747.6	29.51	749.6	90.1	35.6	55	nw.	0.5	0.2			4			0	0	d. clouds	
Calcutta, Alipore	29.49	749.1	29.51	749.6	91.2	32.9	62	wsw.	6.0	2.7			7	sw.		0	0	d. clouds	
Dhubri	29.42	747.2	29.53	750.1	89.3	31.8	59	ne.	9.2	4.1			0			0	0	blue sky	
Chittagong	29.41	747.0	29.50	749.3	90.7	32.6	63	ene.	3.7	1.6			7			0	0	blue sky	
Sibsagar	29.20	741.8	29.53	750.1	87.0	30.6	69	ne.	1.2	0.5			0			0	0	blue sky	
Jeypore	28.18	715.8	29.56	750.7	101.9	38.8	24	nw.	6.0	2.7			3		nw.	0	0	d. clouds	
Zanzibar, Africa	29.96	761.0			82.9	28.3	65	sse.	5.6	2.5			6			0	0	d. clouds	
ITALIAN.																			
Udine	29.46	748.2	29.85	758.3	77.7	25.4	63	sw.	1.8	0.8			2			0	0		Prof. Giovanni Clodig.
Milan	29.36	745.8	29.86	758.5	77.4	25.2	38	sw.	3.8	1.7			8	sw.		0	0		Prof. Schiaparelli.
Padua	29.74	755.4	29.85	758.1	75.6	24.2	44	sse.	9.8	4.4			8	s.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.96	735.5	29.84	757.8	68.7	20.4	58	nw.	3.8	1.7			9	nne.		0.028	0.7		Prof. P. F. Denza.
Genoa	29.75	755.7	29.94	760.5	65.5	18.6	77	se.	7.4	3.3			8	s.		0.047	1.2		Prof. G. M. Garibaldi.
Mondovi	27.96	710.2	29.89	759.3	62.4	16.9	78	w.			6		8			0	0		Prof. D. O. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
ITALIAN.—Continued.																			
Pesaro	29.82	757.4	29.87	758.6	67.3	19.6	70	ne.	9.4	4.2			3			0	0		Prof. Luigi Guidi.
Florence	29.67	753.6	29.92	759.9	72.3	22.4	48	sw.			2		1	wsw.		0	0		Prof. Costantino Pitter.
Leghorn	29.81	757.2	29.89	759.3	69.4	20.8	58	w.	2.5	1.1			1			0	0		Prof. P. Monte.
Rome	29.73	755.2	29.90	759.5	77.7	25.4	39	w.	3.1	1.4			1			0	0		Prof. P. S. Ferrari.
Lecce	29.67	753.7	29.93	760.1	69.4	20.8	31	nne.	11.2	5.0			0			0	0		Prof. O. de Giorgi.
Cosenza	29.04	737.7	29.91	759.6	72.3	22.4	76	se.	3.8	1.7			2	s.		0	0		Prof. D. Conti.
Cagliari	29.70	754.4	29.89	759.2	73.0	22.8	67	se.			4		5	w.		0	0		Prof. A. Pacinotti.
Palermo	29.74	755.4	29.98	761.6	70.3	21.3	49	ne.	8.1	3.6			0			0	0		Prof. G. Giacciatore.
Syracuse	29.84	757.9	29.88	759.0	76.3	24.6	63	s.	3.8	1.7			2	s.		0	0		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.41	746.9	29.92	759.9	69.8	21.0	65	nw.	2.0	0.9			2			0	0		Prof. T. Brioschi.
Stelvio	22.09	561.2			41.5	5.3	57	sw.			4		10			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.13	562.0			41.0	5.0	77	n.			2		10			0	0	covered	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.74	755.4	29.78	756.4	56.0	13.3	86	w.	9.4	4.2		0	0			0	0	clear	K. Ogawa.
Hakodate	29.72	754.9	29.73	755.1	52.5	11.4	74	sw.	6.0	2.7			0			0	0	clear	
Hiroshima, I. M. Obs'y	29.90	759.4	29.91	759.7	62.0	16.7	80	nne.	2.4	1.1		0	0			0	0	clear	J. Sogawa.
Kanazawa	29.83	757.7	29.93	760.2	56.0	13.3	92	sse.	2.9	1.3		1 ck	0			0	0	clear	S. Endo.
Kioto	29.77	756.1	29.95	760.7	58.9	14.9	73	se.	2.6	1.2		0	0			0	0	clear	M. Tojima.
Kochi	29.95	760.7	29.97	761.2	65.0	18.3	79	nw.	2.0	0.9		0	0			0	0	clear	K. Kusunose.
Nagasaki, I. M. Obs'y	29.85	758.2	30.05	763.3	60.9	16.1	71	ne.	0.7	0.3		0	0			0	0	clear	S. Takehayashi.
Niigata	29.87	758.7	29.90	759.4	58.3	14.6	81	sw.	5.1	2.3		0	0			0	0	clear	M. Morita.
Nobiru	29.80	756.9	29.81	757.2	58.1	14.5	67	nnw.	6.7	3.0		0	0			0	0	clear	H. Midzushina.
Supporo					53.5	11.9	74	s.	3.0	1.3			1			0	0	clear	
Tokei Obs'y, Yeddo	29.81	757.2	29.88	758.9	63.5	17.5	70	se.	5.8	2.6		0	8 ks;s		w.	0	0	cloudy	The Staff.
Wakayama	29.89	759.2	29.94	760.5	65.2	18.4	80	ene.	0.4	0.2		0	0			0	0	clear	Y. Kuwamuea.
MAURITIUS																			
Mauritius Observatory	29.83	757.7	30.02	762.5	79.3	26.3	67	w.	3.5	1.6		0	4 k;n		sse.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.72	602.6	29.94	760.6	58.8	14.9	91	calm	0	0		kcs	6 n	s.		1.221	31.0	fair	Prof. Vicente Fernandez.
Leon	24.32	617.7	29.96	761.0	60.4	15.8	85	n.			1	4 c	2 k	ssw.	ssw.	0.045	1.2	fair	Prof. M. Leal.
Mazatlan	29.70	754.4	29.96	761.0	73.5	23.1	93	ne.				1 cs	0	n.				hazy	F. Quijano, C. E.
Mexico, Central Obs'y	23.13	587.6	30.15	765.8	55.9	13.3	91	calm	0	0		6 k	0	s.		0.051	1.3	cloudy	The Staff.
Morelia	24.04	610.6	30.06	763.6	60.3	15.7	56	se.			3	2	4	s.	se.	0.126	3.2	cloudy	M. Tena, M. D.
Pabellon, Aguascalientes	23.97	608.9	29.95	760.7	61.2	16.2	89	calm	0	0		0	9 ks		sw.	0.220	5.6	cloudy	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.41	594.7	30.11	764.9	55.4	13.0	98	n.					9		sw.	1.013	25.7	cloudy	Prof. P. Spina.
San Luis Potosi	24.19	614.4	30.04	763.0	57.7	14.3	79	s.			1		10		w.	0.292	7.4	cloudy	G. Barroeta, M. D.
Zacatecas	22.59	573.7	30.19	766.8	53.4	11.9	91	w.	6.8	3.0		0	9 ks		w.	0.005	0.1	cloudy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.64	752.8	29.64	752.8	70.3	21.3		s.			3					0.244	6.2		
Groningen	29.60	751.9	29.66	753.3	67.6	19.8		se.								0.031	0.8		
Helder	29.67	753.5	29.67	753.5	62.6	17.0		ssw.			1					0.260	6.6		
Hellevoetsluis	29.65	753.2	29.65	753.2	69.1	20.6	45	e.			1					0.028	0.7		
Utrecht	29.61	752.2	29.66	753.4	70.2	21.2	55	se.			2		2			0.835	21.2	lightly cl'dy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.58	751.3	29.64	752.9	47.7	8.7	72	ssw.	16	7			6			0	0		
Brono	29.48	748.7	29.52	749.7	56.8	13.8	59	calm	0	0			5			0	0		
Christiania	29.52	749.9	29.67	753.5	63.9	17.7	58	s.	20	9			3			0	0		
Gjessvær	29.75	755.7	29.78	756.3	42.1	5.6		e.			6		10						
Lodingen	29.60	751.7	29.64	752.9	49.5	9.7	70	calm			0		2			0	0		
PORTUGUESE.																			
Angra, Azores					60.8	16.0	69	nw.	13.0	5.8			3			0	0		Dr. J. A. Sampaio.
Campo Major	28.89	733.9	29.88	758.9	63.7	17.6	44	sw.	7.4	3.3			9			0.031	0.8		Dr. A. M. R. dos Santos.
Funchal, Maderia	29.97	761.3	30.06	763.5	68.0	20.0	61	w.					5			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.55	750.5	29.90	759.5	61.9	16.6	68	ssw.	19.9	8.9			8			0.094	2.4		The Staff.
Ponta Delgada, Azores	29.81	757.2	29.88	759.0	66.6	19.2	60	w.	15.0	6.7			4			0.020	0.5		
Saint Paul de Loando	29.71	754.7	29.91	759.8	78.4	25.8	92	w.	0.7	0.3			1	e.		0	0	foggy	
Serra da Estrella	25.10	637.5	29.84	758.0	43.9	6.6	67	s.	11.9	5.3			10			1.811	46.0		
RUSSIAN.																			
Akmolinski	28.39	721.0	29.46	748.3	42.3	5.7	88	ne.	11	5			10 n			0.130	3.3		Major K. Lasarew.
Archangel	29.86	758.4	29.88	758.9	34.3	1.3	70	nw.	4	2			10			0	0	light clouds	Capt. Sselliwerstow.
Astrakhan	30.01	762.3	29.93	760.2	60.1	15.6	30	e.	16	7		0	0			0	0		Capt. Wisganow.
Barnaul	28.91	734.3	29.38	746.2	73.8	23.2	42	wsw.	45	20			10 n			0.165	4.2		Meteorological Obs'y.
Dorpat	29.66	753.3	29.89	759.2	73.2	22.9	43	sse.	4	2		0	4 k			0.016	0.4		Observatory.
Ekaterinburg	28.40	721.4	29.36	745.8	40.6	4.8	89	sw.	4	2			10 n			0.114	2.9	raining	Meteorological Obs'y.
Kasan	29.40	746.7	29.66	753.3	62.8	17.1	43	wsw.	16	8			10			0	0		Observatory.
Kertch	29.78	756.5	29.80	757.0	58.5	14.7	55	ene.	45	20		0	8 n			0	0		Lagorio & Sastyrex.
Kieff	29.35	745.4	29.97	761.1	65.1	18.4	42	n.	4	2			ck	1 ks		0	0		Observatory.
Lugan	29.76	755.8	29.96	760.9	64.6	18.1	31	ene.	18	8			0			0	0		Meteorological Obs'y
Moscow	29.38	746.2	29.83	757.6	71.1	21.7	33	se.	7.8	3.5			0						Meteorological Obs'y.
Nikolaiev	29.89	759.1	29.96	760.9	69.6	20.8	34	ene.	18	8		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.26	743.3	29.35	745.5	35.2	1.8	93	n.	4	2			10			0.260	6.6		Lieut. Iwanow.
Pekin, China	29.40	746.8	29.54	750.4	85.6	29.8	23	sw.	4	2		0	4 k			0	0		Physical Observatory
St. Petersburg	29.83	757.7	29.85	758.1	60.2	19.0	38	nw.	16	7		0	1 k			0	0		Central Physical Obs'y.
Semipalatinsk	28.97	735.7	29.58	751.3	77.7	25.4	43	s.	4	2			9			0.177	4.5	heavy clouds	Major Lasareu.
Tashkend, Laboratory	28.22	716.8	29.76	756.0	61.0	16.1	92	calm	0	0			10			0.283	7.2	thnd'r storm	Teich, A. M.
Tiflis	28.34	719.7	29.71	754.5	67.8	19.9	59	s.	4	2			10 n			0	0		Physical Observatory
Vladivostock	29.01	752.1	29.68	753.8	54.7	12.6	78	se.	2	1		0	8 k			0	0		
Warsaw	29.48	748.7	29.88	759.0	72.0	22.2	48	s.	16	7		cs	2 k						Astronomical Obs'y
Wilna	29.56	750.7	29.96	760.9	74.7	23.7	36	s.	7	3			6			0	0		Berg, Assistant.
Yeniseisk																			M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.69	754.1	29.79	756.7	77.0	2.5	40	sw.	4.7	2.1			0			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.78	756.3	29.84	757.8	70.7	21.5	37	s.	5.4	2.4		2	7	s.		0.012	0.3	almost cov'd	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.95	684.6	29.92	760.0	54.0	12.2	63	sw.	8.7	3.9			8			0.532	13.5	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.70	703.6	29.90	759.5	60.8	16.0	89	w.	17.4	7.8			9			0.110	2.8	rainy	The Staff.
Murcia, Met. Obs'y	29.74	755.3	29.89	759.2	78.1	25.6	42	s.	4.0	1.8		0	3			0	0	clouds	Olayo Diaz, Director.
Santiago, Met. Obs'y	28.81	731.7	29.69	754.2	57.6	14.2	73	ssw.	28.0	12.5			9			0.673	17.1	almost cov'd	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	29.97	761.2	30.04	762.9	77.0	25.0	85	ese.	2.2	1.0		9 c;cs		s	wnw.	0.886	22.5	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.85	758.2	29.91	759.6	84.5	29.2	73	sw.	6.4	2.9		0	8 kn		w.	0	0	threatening	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.94	760.5	30.04	763.0	59.7	15.4	91	w.	8.9	4.0			10		wsw.	0.900	22.9	light rain	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.98	761.5	30.07	763.8	79.2	26.2		se.	2.2	1.0		0	2 k		se.	0.374	9.5	clear	Manuel Maese.
Tuguegarao, Philippine Id's	29.81	757.2	29.94	760.5	81.0	27.2	79	nw.	6.8	3.0		0	7 k		nw.	0	0	cloudy	José L. Yrastorza.
SWEDISH																			
Haparanda	29.68	753.9	29.72	754.9	52.2	11.2	61	s.			2		5			0.091	2.3		
Umea	29.65	753.0	29.70	754.3	55.0	12.8	62	ssw.			4		0			0	0		
Hernosand	29.60	751.9	29.65	753.2	61.5	16.4	58	s.			6		5			0	0		
Stockholm	29.62	752.3	29.80	756.8	66.2	19.0	49	ssw.			2		4			0	0		
Wisby	29.76	755.9	29.82	757.4	66.2	19.0	51	n.			2		3			0	0		
Sub-series.																			
Upsala	29.64	752.8	29.72	755.0	70.2	21.2	39	s.	14.5	6.5			5	ssw.		0	0		S. G. Fineman.
SWISS.																			
Geneva	28.37	720.5	29.75	755.6	69.6	20.9	56	w.			2					0.256	6.5	covered	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather	OBSERVERS.
TURKISH.																			
Constantinople	.....	.....	29.77	756.2	59.4	15.2	67	n.	13	6.0	.....	.....	9	.....	ne.	0.024	0.6	.....	The Observatory.
Valona	.....	.....	29.96	760.9	72.3	22.4	.....	w.	.....	.....	2	.....	2	.....	.....	0	0	slightly cl'dy	A. Bertrand.
Sub-sertes.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.63	752.6	64.9	18.3	91	sw.	.....	.....	3	.....	10 n	.....	sw.	0.26	6.6	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.92	760.0	30.00	762.0	56	13.3	80	w.	4	1.8	.....	.....	10 n	.....	.....	0.14	3.6	light rain	J. O. Barnes.
Alpena, Michigan	29.43	747.5	30.09	764.3	41	5.0	73	nw.	6	2.7	.....	8 k	2 s	nw.	.....	0	0	cloudy	Jas. J. Fitzgerald.
Atlanta, Georgia	28.99	736.3	30.16	766.1	48.0	8.9	93	nw.	6	2.7	.....	.....	fg.	.....	.....	0.36	9.1	dense fog	H. Hall.
Atlantic City, New Jersey	29.99	761.7	30.00	762.0	59.8	15.4	75	nw.	18	8.0	.....	4 k	0	nw.	.....	0.02	0.5	fair	Jas. M. Watson.
Augusta, Georgia	29.97	761.2	30.16	766.1	65	18.3	78	ne.	6	2.7	.....	10 k	0	.....	.....	0.94	23.9	cloudy	John Healy.
Baltimore, Maryland	30.09	764.3	30.14	765.5	57	13.9	57	nw.	16	7.2	.....	0	0	.....	.....	0.32	8.1	clear	Robert Seybolh.
Barnegat, New Jersey	29.97	761.2	29.99	761.7	57.0	13.9	77	nw.	20	8.9	.....	4 k	3 s	nw.	nw.	0.14	3.6	clearing	Chas. F. Merritt.
Behring Island, Behring Sea	29.92	760.0	29.94	760.5	36.6	2.6	.....	s.	3	1.3	.....	.....	fg.	.....	.....	0	0	dense fog	Dr. L. Steineger.
Bismarck, Dakota	28.31	719.1	30.09	764.3	35	1.7	82	calm	0	0	.....	0	0	.....	.....	0	0	clear	Cyrus Cramer.
Boise City, Idaho	27.02	686.3	29.86	758.4	46	7.8	63	sw.	8	3.6	.....	0	5 s	.....	w.	0	0	fair	B. E. Light.
Boston, Massachusetts	29.92	760.0	30.08	764.0	44.0	6.7	100	se.	14	6.3	.....	.....	10n; fog	.....	.....	0.03	0.8	light rain	O. B. Cole.
Brownsville, Texas	29.99	761.7	30.03	762.7	69	20.6	100	calm	0	0	.....	7 ck	3 s	.....	e.	0.49	12.4	cloudy	M. McCarty.
Buffalo, New York	29.34	745.2	30.08	764.0	45.5	7.5	78	sw.	13	5.8	.....	0	9 s	.....	w.	1.02	25.9	cloudy	Wm. Finn.
Burlington, Vermont	29.03	752.6	29.92	760.0	54.3	12.4	73	se.	11	4.9	.....	.....	10 n	.....	s.	0.21	5.3	light rain	G. C. Schaeffer.
Cairo, Illinois	29.90	759.4	30.30	769.6	55.6	13.1	76	se.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. H. Ray.
Campo, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. H. Clendenon.
Camp Thomas, Arizona	27.16	689.9	29.83	757.7	54	12.2	40	calm	.....	.....	0	0	1 k	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.09	764.3	30.11	764.8	60	15.6	70	nw.	28	12.5	.....	0	0	.....	.....	0.27	6.9	clear	J. E. Lanouette.
Cape May, New Jersey	30.01	762.2	30.04	763.0	57	13.9	74	nw.	32	14.3	.....	2 k	0	nw.	.....	0.36	9.1	clear	W. Bolten.
Cedar Keys, Florida	30.05	763.3	30.07	763.8	75	23.9	82	e.	2	0.9	.....	0	4 k	.....	e.	inap.	inap.	fair	F. W. Mixer.
Champaign, Illinois	29.45	748.0	30.25	768.3	44.8	7.1	60	n.	4	1.8	.....	.....	10 s	.....	n.	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.04	763.0	30.09	764.3	69	20.6	90	nw.	6	2.7	.....	.....	10 s	.....	nw.	0.20	5.1	threatening.	J. H. Smith.
Charlotte, N. Carolina	29.24	742.7	30.08	764.0	62.0	16.7	73	ne.	5	2.2	.....	.....	10 s	.....	w.	0.38	9.7	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.43	747.5	30.24	768.1	51.0	10.6	80	nw.	5	2.2	.....	0	0	.....	.....	0.61	15.5	clear	B. L. Goulding.
Cheyenne, Wyoming	24.12	612.6	29.99	761.7	35.2	1.8	82	s.	8	3.6	.....	.....	10 s	.....	s.	0.08	2.0	cloudy	E. McGovern.
Chicago, Illinois	29.55	750.6	30.25	768.3	38.9	3.8	65	nw.	6	2.7	.....	.....	10 n	.....	.....	inap.	inap.	light snow	J. Mitchell.
Chincoteague, Virginia	30.04	763.0	30.06	763.5	59	15.0	75	nw.	28	12.5	.....	0	0	.....	.....	0.43	10.9	clear	V. P. Temple.
Cincinnati, Ohio	29.62	752.3	30.27	768.8	47	8.3	86	se.	3	1.3	.....	0	0	.....	.....	0.17	4.3	clear	R. B. Watkins.
Cleveland, Ohio	29.45	748.0	30.18	766.6	46	7.8	68	sw.	8	3.6	.....	5 c	0	w.	.....	0.78	19.8	fair	J. B. Newlin.
Coleman City, Texas	28.28	718.3	30.07	763.8	54	12.2	86	s.	4	1.8	.....	6 c	0	.....	.....	0	0	fair	L. Dorman.
Columbus, Ohio	29.37	746.0	30.21	767.3	45	7.2	76	w.	3	1.3	.....	0	0	.....	.....	0.42	10.7	clear	D. Cuthbertson.
Concho, Texas	28.12	714.2	30.02	762.5	59	15.0	60	s.	2	0.9	.....	4 c	0	.....	.....	0	0	fair	W. W. McConihe.
Davenport, Iowa	29.66	753.4	30.30	769.6	39	3.9	82	nw.	2	0.9	.....	.....	10 s	.....	nw.	0.05	1.3	cloudy	R. R. Martin.
Dayton, Washington T'y	28.14	714.7	29.89	759.2	43.2	6.2	76	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear	H. Clifford.
Deadwood, Dakota	25.48	647.2	29.99	761.7	31	— 0.6	81	sw.	4	1.8	.....	0	0	.....	.....	0.22	5.6	clear	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	57	13.9	57	se.	9	4.0	.....	0	4 s	.....	sw.	0	0	fair	D. J. Carr.
Delaware Breakwater, Del.	30.05	763.3	30.07	763.8	57	13.9	74	nw.	28	12.5	.....	4 k	0	nw.	.....	0.21	5.3	fair	A. Schneider.
Denison, Texas	29.34	745.2	30.13	765.3	56.0	13.3	74	se.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. McGlone.
Denver, Colorado	24.83	630.7	29.99	761.7	38.0	3.3	79	n.	6	2.7	.....	0	2 k	.....	nw.	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.42	747.3	30.31	769.9	39	3.9	82	sw.	2	0.9	.....	0	7 s	.....	sw.	0.18	4.6	fair	F. W. Conrad.
Detroit, Michigan	29.46	748.3	30.16	766.1	44.0	6.7	93	w.	6	2.7	.....	.....	10 s	.....	calm	0.12	3.0	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.53	699.2	30.08	764.0	40	4.4	100	n.	20	8.9	.....	.....	fg.	.....	.....	0.06	1.5	dense fog	E. A. Thomas.
Dubuque, Iowa	29.57	751.1	30.27	768.8	38.7	3.7	59	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.42	747.3	30.12	765.0	37	2.8	61	sw.	5	2.2	.....	0	6 s	.....	sw.	0.03	0.8	fair	N. B. Conger.
Eagle Pass, Texas	29.29	744.0	30.09	764.3	63.2	17.3	90	se.	3	1.3	.....	5 cs	0	w.	.....	0	0	fair	F. Belford.
Eagle Rock, Idaho	25.27	641.8	29.95	760.7	40	4.4	62	n.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. M. Clifford.
Eastport, Maine	30.17	766.3	30.24	768.1	41	5.0	88	e.	22	9.8	.....	.....	10 s	.....	e.	0	0	cloudy	J. H. Melton.
El Paso, Texas	26.24	666.5	29.88	758.9	59	15.0	67	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.42	747.3	30.14	765.5	48	8.9	63	w.	13	5.8	.....	0	0	.....	.....	0.89	22.6	clear	R. H. Paxton.
Escanaba, Michigan	29.50	749.3	30.16	766.1	35	1.7	79	nw.	6	2.7	.....	1 ck	4 s	w.	nw.	0.09	2.3	fair	C. Dill.
Fort Apache, Arizona	25.01	635.2	29.83	757.7	41	5.0	40	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.23	691.6	30.07	763.8	37	2.8	72	sw.	3	1.3	.....	1 c	0	sw.	.....	0	0	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.50	723.9	30.06	763.5	35.0	1.7	89	calm	0	0	.....	3 ck	0	calm	.....	0.05	1.3	cloudy	A. Pritchard.
Fort Benton, Montana	27.27	692.6	30.06	763.5	35	1.7	89	calm	0	0	.....	3 c	0	.....	.....	0	0	clear	G. W. Davis.
Fort Buford, Dakota	28.10	713.7	30.08	764.0	34	1.1	72	calm	0	0	.....	0	0	.....	.....	0.08	2.0	clear	A. H. Bell.
Fort Custer, Montana	26.92	683.8	30.02	762.5	34	1.1	88	n.	8	3.6	.....	0	2 s	.....	calm	0	0	clear	V. Verge.
Fort Davis, Texas	25.16	639.1	29.88	758.9	56	13.3	67	s.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. Williams.
Fort Elliott, Texas	27.27	692.6	29.97	761.2	44	6.7	68	nw.	.....	.....	4	7 c	0	nw.	.....	0	0	fair	W. J. Cundall.
Fort Gibson, Indian T'y	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. B. Campbell.
Fort Grant, Arizona	25.21	640.3	29.82	757.4	62	16.7	22	e.	5	2.2	.....	3 c	0	.....	.....	0	0	clear	T. J. Macgowan.
Fort Keogh, Montana	27.59	700.8	30.04	763.0	35	1.7	71	w.	1	0.4	.....	8 c	0	.....	.....	inap.	inap.	cloudy	W. B. Stockman.
Fort Macon, North Carolina	30.08	764.0	30.09	764.3	63	17.2	100	n.	18	8.0	.....	.....	9 n	.....	n;sw	0.18	4.6	light rain	L. Leonardy.
Fort McKavett, Texas	27.76	705.1	30.00	762.0	67	19.4	84	se.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. E. Thatcher.
Fort Missoula, Montana	26.70	678.2	30.00	762.0	40	4.4	73	sw.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Fort St. Michaels, Alaska	29.89	759.2	29.93	760.2	36	2.2	90	n.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	A. P. Leavitt.
Fort Shaw, Montana	26.42	671.1	30.02	762.5	30	— 1.1	88	w.	5	2.2	.....	0	0	.....	.....	0	0	clear	A. L. Mathews.
Fort Sill, Indian Territory	28.90	734.0	30.12	765.0	54.2	12.3	80	s.	4	1.8	.....	.....	10 s	.....	w.	0	0	cloudy	T. Cleary.
Fort Stevenson, Dakota	28.26	717.8	30.09	764.3	33	0.6	88	calm	0	0	.....	0	2 s	.....	.....	inap.	inap.	clear	W. Burrows.
Fort Verde, Arizona	.....	.....	.....	.....	49.2	9.6	40	w.	.....	.....	2	0	0	.....	.....	0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.52	622.8	.....	.....	32.1	0.1	85	nw.	7	3.1	.....	5 k;c	fg.	nw.	.....	0.17	4.3	fair	T. M. Ambler.
Fredericksburg, Texas	28.35	720.1	30.07	763.8	54	12.2	93	calm	0	0	.....	4 cs	0	.....	.....	0	0	fair	H. S. Miles.
Galveston, Texas	30.07	763.8	30.12	765.0	71	21.7	66	se.	10	4.5	.....	0	5 ks;hs	.....	e.	0	0	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.54	750.3	30.20	767.1	43.0	6.1	71	w.	15	6.7	.....	3 k	7 s	s.	nw.	0	0	cloudy	W. A. Reid.
Hatteras, North Carolina	30.05	763.3	30.07	763.8	66	18.9	93	sw.	16	7.2	.....	9 k	0	sw.	.....	0.04	1.0	cloudy	R. M. Crawford.
Helena, Montana	25.84	656.3	30.01	762.2	35	1.7	66	calm	0	0	.....	0	0	.....	.....	0	0	clear	S. Wheaton.
Henrietta, Texas	29.13	739.9	30.11	764.8	57.0	13.9	69	s.	12	5.4	.....	3 c	0	.....	.....	0	0	fair	J. W. Byram.
Huron, Dakota	28.81	731.8	30.16	766.1	40	4.4	82	s.	6	2.7	.....	9 cs	0	sw.	.....	0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.46	748.3	30.25	768.3	47.5	8.6	60	nw.	4	1.8	.....	7ck;cs	0	w.	.....	0	0	fair	O. Schutze
Indianola, Texas	30.06	763.5	30.09	764.3	73.1	22.8	84	se.	10	4.5	.....	4 ck	3 k	w.	e.	0	0	fair	I. A. Reed.
Jacksboro, Texas	28.93	734.8	30.08	764.0	57	13.9	80	s.	3	1.3	.....	5 c	0	w.	.....	0	0	fair	J. P. Sherry.
Jacksonville, Florida	30.04	763.0	30.08	764.0	76	24.4	76	s.	1	0.4	.....	3 cs	0	.....	.....	inap.	inap.	clear	J. W. Smith.
Keokuk, Iowa	29.65	753.1	30.30	769.6	41.0	5.0	76	ne.	7	3.1	.....	.....	10 s	.....	ne.	0	0	cloudy	F. Z. Gosewisch.
Key West, Florida	30.03	762.7	30.05	763.3	78.0	25.6	76	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	L. M. Melbourne.
Kittyhawk, North Carolina	30.09	764.3	30.11	764.8	59.5	15.3	90	n.	20	8.9	.....	5 c	3 s	nw.	.....	0.01	0.3	cloudy	E. A. Beals.
Knoxville, Tennessee	29.23	742.4	30.25	768.3	50.8	10.4	79	n.	8	3.6	.....	0	0	.....	.....	0.92	23.4	clear	J. A. Cody.
La Crosse, Wisconsin	29.48	748.8	30.24	768.1	39.6	4.2	48	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	S. C. Emery.
La Mesilla, New Mexico	26.08	662.4	29.84	757.9	51.8	11.0	74	calm	0	0	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.37	746.0	30.25	768.3	44	6.7	83	e.	4	1.8	.....	.....	10 s	.....	e.	0.04	1.0	cloudy	A. W. Browne.
Lewiston, Idaho	29.07	738.4	29.91	759.7	46.0	7.8	68	e.	1	0.4	.....	1 cs	0	.....	.....	0	0	clear	J. M. Burlew.
Little Rock, Arkansas	29.92	760.0	30.23	767.8	56	13.3	80	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. U. Simmons.
Los Angeles, California	29.60	751.8	30.00	762.0	55.1	12.8	93	e.	1	0.4	.....	.....	fg.	.....	calm	0	0	dense fog	E. F. Kubel.
Louisville, Kentucky	29.68	753.9	30.23	767.8	50	10.0	71	w.	2	0.9	.....	0	sk.	.....	.....	0.14	3.6	dense smoke	H. C. Smyth.
Lynchburg, Virginia	29.47	748.5	30.15	765.8	61.0	16.1	44.5	nw.	4	1.8	.....	0	0	.....	.....	0.29	7.4	clear	W. R. Bushby.
Madison, Wisconsin	29.24	742.7	30.24	768.1	35	1.7	69	nw.	13	5.8	.....	0	0	.....	.....	0	0	clear	C. A. Shaw.
Marquette, Michigan	29.43	747.5	30.15	765.8	39	3.9	65	w.	10	4 5	.....	0	0	.....	.....	0.03	0.8	clear	J. Gilligan.
Memphis, Tennessee	29.92	760.0	30.25	768.3	58	14.4	64	e.	7	3.1	.....	0	0	.....	.....	0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.47	748.5	30.21	767.3	35	1.7	69	w.	12	5.4	.....	3 ck	2 s	w.	.....	0	0	fair	W. Line.
Mobile, Alabama	30.12	765.0	30.16	766.1	62	16.7	81	ne.	8	3.6	.....	.....	10 s	.....	ne.	0.07	1.8	cloudy	J. D. Paxton.

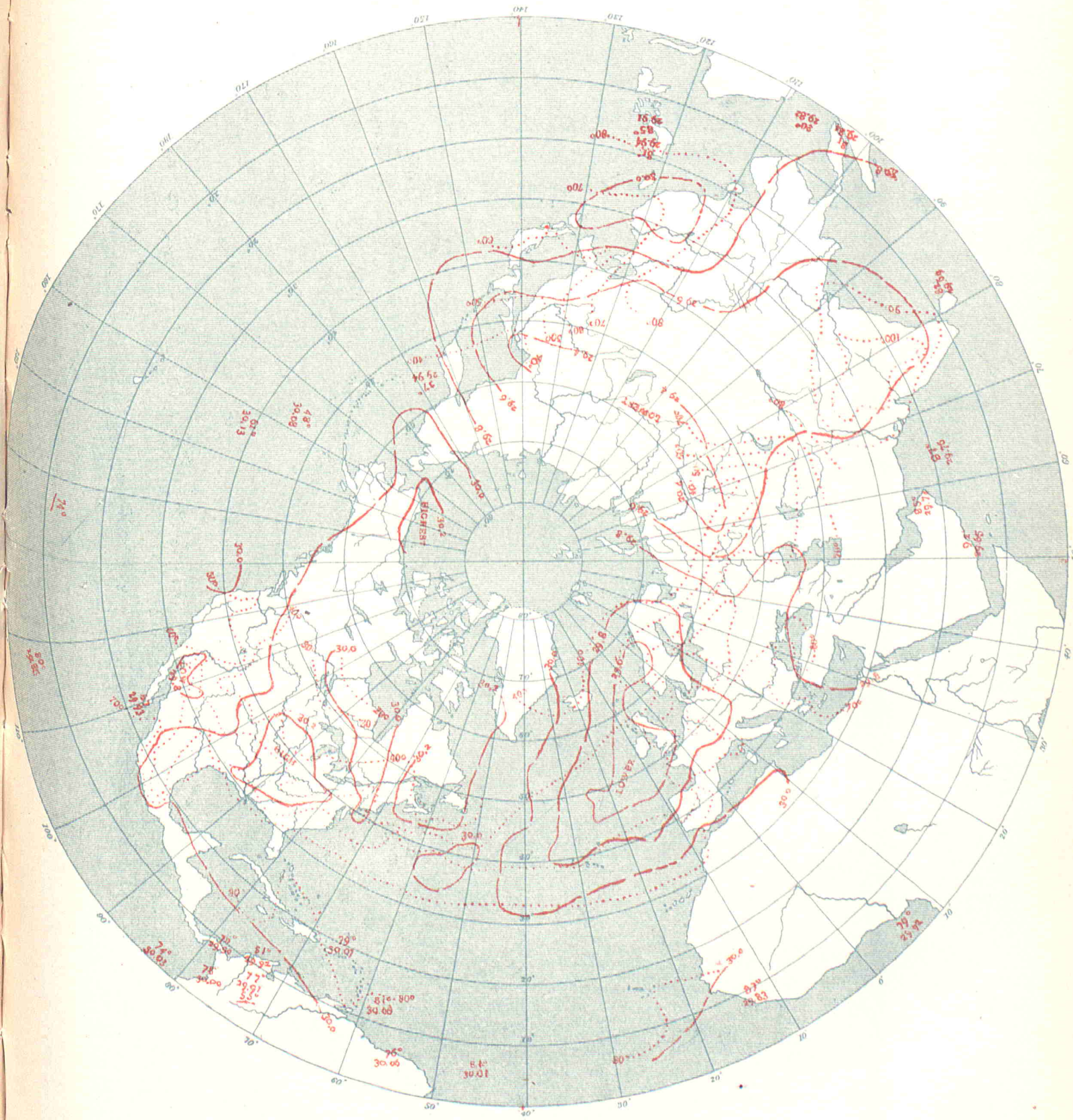
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Montgomery, Alabama	29.94	760.5	30.17	766.3	55.6	13.1	81	n.	4	1.8	.....	6ck;c	0	w.	.....	0.54	13.7	fair	J. B. McLaughlin.
Moorhead, Minnesota	29.13	739.9	30.11	764.8	37	2.8	89	sw.	6	2.7	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	H. Bessant.
Morgantown, W. Virginia	29.22	742.2	30.23	767.8	54.5	12.5	64	calm	0	0	.....	0	0	.....	.....	0.81	20.6	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.76	603.5	29.94	760.5	28.5	— 1.9	95	se.	51	22.8	.....	.....	10n;fg	.....	se.	0.18	4.6	light rain	J. G. Lipsley
Nashville, Tennessee	29.72	754.9	30.25	768.3	45.0	7.2	100	calm	0	0	.....	.....	fg.	.....	.....	0.30	7.6	dense fog	L. A. Jesunofsky.
New Haven, Connecticut	29.81	757.2	29.93	760.2	50	10.0	100	e.	7	3.1	.....	.....	10n;fg	.....	e.	0.26	6.6	heavy rain	J. H. Sherman.
New London, Connecticut	29.94	760.5	29.99	761.7	51	10.6	100	e.	13	5.8	.....	.....	10 n	.....	e.	0.16	4.1	light rain	J. G. Lynch.
New Orleans, Louisiana	30.08	764.0	30.13	765.3	62.8	17.1	71	n.	8	3.6	.....	3 ck	0	w.	.....	0	0	clear	L. Dunne.
Newport, Rhode Island	29.98	761.5	30.03	762.7	48.2	9.0	95	e.	12	5.4	.....	.....	10 n	.....	calm	0.12	3.0	light rain	W. McGillivray.
New River, N. Carolina	.....	.....	.....	.....	62	16.7	85	n.	.....	.....	1	3 ck	5 s	w.	.....	0.04	1.0	cloudy	C. C. Corbin.
New Shoreham, Rhode I'd.	29.97	761.2	30.00	762.0	49.0	9.4	100	se.	13	5.8	.....	.....	10 n	.....	se.	0.15	3.8	light rain	W. Davis.
New York, New York	29.78	756.4	29.96	761.0	54	12.2	100	nw.	13	5.8	.....	6 ck;k	0	w	.....	0.12	3.0	fair	E. B. Garriott.
Norfolk, Virginia	30.08	764.0	30.11	764.8	66	18.9	63	n.	8	3.6	.....	0	0	.....	.....	0.16	4.1	clear	J. T. Elker.
North Platte, Nebraska	27.30	693.4	30.17	766.3	37.6	3.1	89	ne.	4	1.8	.....	.....	10 s	.....	.....	0.47	11.9	cloudy	E. F. Brady.
Olympia, Washington T'y	29.85	758.2	29.89	759.2	48.0	8.9	86	calm	0	0	.....	5 cs	0	calm	.....	0	0	fair	J. Dascomb.
Omaha, Nebraska	29.12	739.6	30.28	769.1	43.2	6.2	86	e.	4	1.8	.....	0	4 k	.....	e.	0.46	11.7	fair	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.29	769.4	30.31	769.9	23.8	— 4.6	100	e.	23	10.3	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	P. H. Ray.
Oswego, New York	29.70	754.4	30.03	762.7	46.0	7.8	83	w.	15	6.7	.....	10 cs	0	w.	.....	0.95	24.1	cloudy	S. W. Beall.
Palestine, Texas	29.65	753.1	30.20	767.1	57	13.9	51	n.	9	4.0	.....	0	0	.....	.....	0	0	clear	L. M. Pindell.
Pensacola, Florida	30.11	764.8	30.14	765.5	63.1	17.3	81	n.	9	4.0	.....	.....	10 s	.....	ne.	0.63	16.0	cloudy	M. McGauran.
Philadelphia, Pa.	29.95	760.7	30.05	763.3	59	15.0	70	nw.	15	6.7	.....	0	4 k	.....	nw.	0.13	3.3	fair	T. F. Townsend.
Pike's Peak, Colorado	17.76	451.1	29.82	757.4	17	— 8.3	87	w.	18	8.0	.....	1 cs	2 s	.....	w.	0	0	clear	L. M. Dey.
Ploche, Nevada	23.91	607.3	29.83	757.7	56.8	13.8	28	s.	13	5.8	.....	2 c	0	calm	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.40	746.7	30.20	767.1	47.0	8.3	77	sw.	5	2.2	.....	0	0	.....	.....	0.44	11.2	clear	J. H. Bryce.
Poplar River, Montana	27.96	710.2	.....	.....	.....	.....	.....	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	U. D. Maxwell.
Port Eads, Louisiana	30.10	764.5	30.10	764.5	70.1	21.2	82	ne.	16	7.2	.....	3 c	3 s	w.	ne.	0.01	0.3	fair	H. G. Christian.
Port Huron, Michigan	29.44	747.8	30.12	765.0	43.7	6.5	68	w.	4	1.8	.....	10 cs	0	w.	.....	0.08	2.0	cloudy	W. O. Bailey.
Portland, Maine	30.10	764.5	30.15	765.8	45.0	7.2	83	e.	16	7.2	.....	.....	10n;fg	.....	e.	0.21	5.3	light rain	D. C. Murphy.
Portland, Oregon	29.79	756.7	29.86	758.4	51.0	10.6	80	calm	0	0	.....	0	1 s	.....	calm	0	0	clear	M. L. Hearne.
Portsmouth, N. Carolina	.....	.....	.....	.....	68	20.0	84	ne.	12	5.4	.....	.....	10 ks	.....	ne.	0.03	0.8	cloudy	F. P. Chaffee.
Prescott, Arizona	24.73	628.1	29.83	757.7	42	5.6	28	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. McN. Wright.
Provincetown, Mass.	30.05	763.3	30.08	764.0	45.5	7.5	93	se.	18	8.0	.....	.....	10 n	.....	.....	0.02	0.5	light rain	P. T. Jenkins.
Punta Rassa, Florida	30.04	763.0	30.05	763.3	74.5	23.6	82	e.	5	2.2	.....	10 cs	0	w.	.....	0	0	cloudy	W. J. Evans.
Red Bluff, California	29.46	748.3	29.83	757.7	56.6	13.7	66	se.	3	1.3	.....	0	1 s	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.87	758.7	30.11	764.8	65	18.3	90	n.	2	0.9	.....	3 cs	0	s.	.....	0	0	fair	P. M. Wilson.
Rochester, New York	29.39	746.5	30.05	763.3	47	8.3	63	w.	15	6.7	.....	7 cs	fg.	.....	.....	1.43	36.3	fair	E. Gillam.
Roseburg, Oregon	29.32	744.7	29.87	758.7	48	8.9	77	calm	0	0	.....	5 k	0	se.	.....	c	0	fair	J. J. Nanry.
Sacramento, California	29.77	756.1	29.85	758.2	52.0	11.1	80	se.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.68	753.9	30.27	768.8	50.0	10.0	92	n.	9	4.0	.....	7ck;cs	0	sw.	.....	0	0	fair	J. H. Webber.
St. Paul, Minnesota	29.34	745.2	30.19	766.8	36.0	2.2	69	sw.	3	1.3	.....	9 k	0	w.	.....	0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.23	742.4	30.09	764.3	31	— 0.6	88	n.	2	0.9	.....	0	6 k; ks	.....	nw;e	0	0	fair	G. Kingsbury.
Salt Lake City, Utah	25.51	647.9	29.83	757.7	54	12.2	43	calm	0	0	.....	.....	10 ks	.....	.....	0	0	cloudy	J. Craig.
San Antonio, Texas	29.40	746.7	30.10	764.5	62	16.7	87	calm	0	0	.....	5 k;cs	2 s	s.	calm	0	0	fair	E. Lane.
San Diego, California	29.86	758.4	29.93	760 2	58.4	14.7	92	nw.	3	1.3	.....	.....	10 n	.....	nw.	0.11	2.8	light rain	A. C. Dobbins.
Sandusky, Ohio	29.50	749.3	30.17	766.3	48	8.9	71	w.	12	5.4	.....	.....	10 s	.....	w.	0.24	6.1	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.94	760.5	29.98	761.5	57.0	13.9	80	w.	22	9.8	.....	8 k	0	nw.	.....	0.12	3.0	cloudy	B. A. Blundon.
San Francisco, California	29.85	758.2	29.92	760.0	52	11.1	90	w.	16	7.2	.....	0	fg.	.....	w.	0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.25	590.5	29.86	758.4	47	8.3	48	se.	6	2.7	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Savannah, Georgia	30.01	762.2	30.10	764.5	69	20.6	87	nw.	6	2.7	.....	.....	10 ks	.....	w.	0	0	cloudy	H. W. Ford.
Shreveport, Louisiana	29.96	761.0	30.20	767.1	60	15.6	75	e.	4	1.8	.....	0	sk.	.....	.....	0	0	clear	E. N. Meekins.
Silver City, New Mexico	24.24	615.7	29.79	756.7	45	7.2	65	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. B. Wallace.
Sitka, Alaska	29.94	760.5	30.00	762.0	44.7	7.1	77	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. J. McLean.
Smithville, North Carolina	30.06	763.5	30.10	764.5	64	17.8	100	n.	6	2.7	.....	.....	10 n	.....	n.	0.17	4.3	light rain	O. Parker.
Spokane Falls, Wash. Ter.	27.94	709.7	29.99	761.7	42	5.6	76	e.	1	0.4	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.63	752.6	30.30	769.6	49	9.4	56	ne.	5	2.2	.....	4 cs	4 s	w.	w.	0	0	cloudy	T. B. Jennings.
Springfield, Massachusetts	25.85	758.2	29.98	761.5	50.2	10.1	89	ne.	5	2.2	.....	.....	10 n	.....	ne.	0.20	5.1	light rain	T. S. Outram.
Springfield, Mo.	28.78	731.0	30.26	768.6	51	10.6	86	s.	6	2.7	.....	.....	10 s	.....	sw.	0	0	cloudy	J. B. Marbury.
Starkville, Miss.	29.78	756.4	.....	.....	52.3	11.3	93	n.	7	3.1	.....	1 cs	0	.....	.....	inap.	inap.	clear	M. J. Wright.
Stockton, Texas	26.99	685.5	30.00	762.0	60.0	15.6	84	calm	0	0	.....	.....	10 s	.....	se.	0	0	cloudy	J. O'Dowd.
Thatcher's Island, Mass.	30.01	762.2	30.06	763.5	41.7	5.4	100	e.	19	8.5	.....	.....	10n;fg	.....	e.	0.69	17.5	light rain	F. R. Day.
Toledo, Ohio	29.48	748 8	30.16	766.1	46	7.8	68	w.	7	3.1	.....	.....	10 s	.....	w.	0.12	3.0	cloudy	A. Buell.
Tucson, Arizona	27.49	698.2	29.83	757.7	62	16.7	30	calm	0	0	.....	1 k	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.54	750.3	29.91	759.7	47	8.3	63	se.	2	0.9	.....	3 c	1 s	.....	.....	0	0	fair	J. Daly.
Uvalde, Texas	29.12	739.6	30.07	763.8	59	15.0	81	se.	2	0.9	.....	3 c	0	w.	.....	0	0	clear	E. C. Imlay.
Vicksburg, Mississippi	29.96	761.0	30.21	767.3	58	14.4	74	e.	3	1.3	.....	4 c	0	.....	.....	0	0	fair	H. T. Brisbane.
Visalia, California	29.50	749.3	29.87	758.7	56	13.3	62	calm	0	0	.....	0	1 s	.....	.....	0	0	clear	W. L. Seward.
Washington, D. C.	30.05	763.3	30.16	766.1	55.3	12.9	61	nw.	9	4.0	.....	0	0	.....	.....	0.69	17.5	clear	B. M. Purssell.
West Las Animas, Colorado	26.22	666.0	30.08	764.0	42	5.6	67	calm	0	0	.....	3 c	0	w.	.....	0	0	clear	J. Grover.
Williamsport, Pa.	29.50	749.3	30.10	764.5	52	11.1	72	w.	6	2.7	.....	.....	10 ks	.....	nw.	2.03	51.6	clearing	B. F. Hough.
Wilmington, N. Carolina	30.04	763.0	30.09	764.3	64	17.8	78	ne.	10	4.5	.....	10 k	0	.....	.....	0.04	1.0	cloudy	A. T. Sherwood.
Winnemucca, Nevada	25.46	646.7	29.81	757.2	49	9.4	56	sw.	11	4.9	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Yankton, Dakota	28.96	735.6	30.24	768.1	40	4.4	65	w.	3	1.3	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	J. H. Atfield.
Yuma, Arizona	29.62	752.3	29.77	756.1	67.2	19.6	45	s.	2	0.9	.....	1 cs	0	n.	.....	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.06	560.3	.....	.....	54.5	12.5	77	sw.	4	1.8	.....	2 k	5 ks	w.	w.	0.24	6.1	fair	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.05	763 3	30.06	763.5	81	27.2	91	se.	.....	.....	.....	0	5 ks	.....	e.	0.50	12.7	.....	J. A. Racker.
Buenaventura, U. S. C.	29.97	761.2	30.00	762.0	78	25.6	86	s.	4	1.8	.....	.....	10 ks	.....	s.	1.20	30.5	cloudy	J. I. Plume.
Havana, Cuba, W. I.	30.00	762.0	30.06	763.5	79	26.1	82	calm	0	0	.....	8 cs	2 ks	calm	calm	0.80	20.3	cloudy	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.03	762.7	30.04	763.0	77.4	25.2	82	calm	0	0	.....	0	1 s	.....	e.	0	0	.....	Robert Johnston.
Magua, San Domingo, W. I.	.....	.....	.....	.....	72	22.2	.....	calm	.....	.....	0	0	0	.....	.....	0	0	.....	S. M. Pike.
Navassa, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. M. Everett.
Paramaribo, S. A.	30.06	763.5	30.06	763.5	76	24.4	91	e.	.....	.....	2	.....	10 n	e.	e.	1.150	29.2	rainy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.51	749.5	29.97	761.2	77	25.0	89	s.	.....	.....	1	.....	9 s	.....	calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	96	w.	.....	.....	1	4 ck	ks	se.	se.	0	0	fair	Earl Flint.
Santiago de Cuba, W. I.	30.01	762.2	30.04	763.0	80	26.7	78	calm	0	0	.....	0	1 k	.....	.....	0	0	fair	Robert Mason.
York Factory, B. A.	29.76	755.9	29.81	757.2	13.0	—10.6	91	e.	13	5.8	.....	3 k	3 s	e.	e.	0.02	0.5	cloudy	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Alert, S. 17° 09′, E. 41° 36′	30.04	763.0	82.5	28.1	66	sse.			2-3		2							d. clouds.
H. M. S. Alexandra, Suda Bay, Turkey in Europe	29.85	758.2	65	18.3	63	wnw.			3		4							d. clouds.
H. M. S. Amethyst, N. 10° 33′, W. 25° 14′*	29.98	761.5	75.5	24.2	97	ene.			4		3	ene.				2	ene.	d. clouds.
H. M. S. Champion, N. 13° 00′ W. 136° 00′			74	23.3	90	nne.			5		7					3	ne.	d. clouds.
H. M. S. Comus, N. 2° 10′ E. 104° 57′	29.82	757.4	79.5	26.4	91	n.			1-2		4							showery.
H. M. S. Coquette, Poro Bay, Crete	29.72	754.9	61	16.1		nw.			7		8	nw.				4	nw.	showery.
H. M. S. Diamond, S. 32° 40′, E. 154° 06′	30.07	763.8	66.5	19.2	90	e.			1-5		6					2	ene.	showery.
H. M. S. Dido, N. 13° 05′, W. 59° 30′	30.11	764.8	79	26.1		ese.			3		3	e.						d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	30.13	765.3	69.5	20.8	79	calm			0		6	calm						d. clouds.
H. M. S. Druid, N. 17° 29′, W. 88° 11′	29.99	761.7	82	27.8	86	ene.			1-2		2	e.				1	ese.	d. clouds.
H. M. S. Dwarf, S. 32° 28′, W. 60° 41′	30.01	762.2	48.5	9.2	85	calm			0		10							foggy.
H. M. S. Eclipse, S. 23° 30′, E. 43° 46′	29.91	759.7	77	25.0		wsw.			1-2		4							d. clouds.
H. M. S. Emerald, S. 52° 40′ W. 132° 55′	29.53	750.0	47	8.3	?	nw.			4		8	nw.				3	w.	showery.
H. M. S. Espiegle, S. 32° 35′ E. 153° 51′	30.06	763.5	66	18.9	90	ene.			4		8					4	e.	d. clouds.
H. M. S. Euryalus, N. 5° 45′, E. 81° 00′	29.69	754.1	82	27.8	78	wsw.			5-6		9	sw.				6	sw.	d. clouds.
H. M. S. Fantome, Savanilla, Granadian, Conf, S. A.	29.92	760.0	81	27.2		ne.			2		3	ne.						d. clouds.
H. M. S. Flying Fish, N. 37° 52′, E. 124° 35′	29.74	755.4	58	14.4	87	ssw.			2-4		5					3	s.	misty.
H. M. S. Fawn, N. 3° 52′ E. 70° 39′	29.80	756.9	79.5	26.4	88	sse.			2		10					2	ssw.	overcast.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.16	766.1	57	13.9	78	calm			0		10							overcast.
H. M. S. Garnet, Colonia, Rio de La Plata, Uruguay	30.04	763.0	56	13.3	87	nnw.			3		0							foggy.
H. M. S. Griffon, Saint John's Newfoundland	30.35	770.9	44	6.7	75	n.			1									misty.
H. M. S. Inconstant, S. 26° 00′, E. 5° 45′	30.32	770.1	66	18.9	78	e.			5		8	ese.				3	se.	d. clouds.
H. M. S. Iron Duke, N. 32° 44′, E. 129° 52′	30.00	762.0	63	17.2	94	calm			0		3							misty.
H. M. S. Kingfisher, N. 1° 25′, W. 80° 30′	30.03	762.7	74	23.3		sw.			3		3	sw.				2	sw.	d. clouds.
H. M. S. Lark, S. 8° 14′, E. 156° 30′	29.89	759.2	79.3	26.3		calm			0		4							showery.
H. M. S. Magpie, N. 35° 18′, E. 139° 39′	29.86	758.4	63.8	17.7	76	calm			0		6							d. clouds.
H. M. S. Northampton, N. 42° 00′ W. 63° 30′	30.11	764.8	45	7.2	100	nne.			4							1	nne.	foggy.
H. M. S. Orontes, Port of Spain, Trinidad	30.04	763.0	79.5	26.4	97	e.			1		3							d. clouds.
H. M. S. Pegasus, N. 1° 17′, E. 103° 51′	29.84	757.9	80.5	26.9	93	n.			1		10							showery.
H. M. S. Phoenix, N. 18° 08′, W. 76° 16′	30.00	762.0	80	26.7	86	e.			1		0					2	e.	blue sky.
H. M. S. Rambler, St. Thomas Island, Gulf of Guinea	29.92	760.0	79	26.1	100	sse.			3		7	sse.				3	sse.	d. clouds.
H. M. S. Rocket, N. 48° 27′, W. 123° 27′	29.87	758.7	49	9.4	100	calm			0		2							d. clouds.
H. M. S. Sylvia, N. 19° 31′, W. 25° 20′	30.12	765.0	71.2	21.8	80	nne.			4		6					3	nne.	d. clouds.
H. M. S. Swiftsure, N. 42° 23′ W. 9° 15′	29.74	755.4	56	13.3	93	s.			5-7		7	ssw.				7	ssw.	showery.
H. M. S. Tenedos, N. 46° 30′ W. 55° 20′	30.30	769.6	37	2.8	100	ne.			3		10					1	ene.	overcast.
H. M. S. Thetis, S. 18° 12′ W. 71° 00	30.08	764.0	65	18.3	89	ese.			2		5					2	ssw.	d. clouds.
H. M. S. Triumph, Coquimbo, Chili	30.19	766.8	61	16.1	61	ne.			1		10	calm						d. clouds.
H. M. S. Woodlark, Ras el Had, Arabia	29.64	752.8	94.5	34.7	49	s.			1-2		0					2	s.	misty.
PORTUGUESE NAVAL.																		
Rio Lima, Porto Praya, Cape Verde Islands	30.08	764.0	80.1	26.7	82	calm			0		0							blue sky.
Tamega, Hong Kong, China	30.00	762.1	80.6	27.0	73	e.			3		8			½ h'r	½ h'r	1		foggy.
SWEDISH NAVAL.																		
Saga, N. 56° 28′, E. 5° 13′	29.73	755.1	56.8	13.8	81	calm			0		6							d. clouds.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	30.06	763.5	75	23.9	72	ssw.	9	4.0			2		nw.	0	0			fair.
Navy Yard, Portsmouth, N. H.	30.07	763.8	44	6.7	84	e.	17	7.6			10		e.	0.05	1.3			cloudy.
Naval Hospital, Yokohama, Japan	29.69	754.1	63	17.2	64	calm			0		5		w.	0	0			cloudy.
Adams, Mare Island, Cal	29.66	753.4	56	13.3	94	sw.			1		0					sm'h		clear.
Alaska, Callao, Peru	29.99	761.7	62	16.7	88	calm			0		0			0	0	sm'h		clear.
Alert, Kobe, Japan*	29.79	756.7	67	19.4	64	w.			1		0			0	0	sm'h		hazy.
Alliance, N. 37° 04′ W. 73° 54′	30.04	763.0	54	12.2	100	ssw.			1-2		10			light	light	sm'h		cloudy.
Ashuelot, Kobe, Japan	29.91	759.7	65	18.3	68	nw.			1		1							clear.
Brooklyn, Montevideo, Uruguay	30.00	762.0	53	11.7	86	nw.	6	2.7			0			0	0	sm'h		clear.
Colorado, New York, N. Y.	29.93	760.2	55	12.8	100	nw.	8	3.6			10		nw.	0.08	2.0			cloudy.
Essex, Montevideo Uruguay	30.03	762.7	54	12.2	87	w.			4		2		w.			sm'h		clear.
Franklin, Norfolk, Va.	30.11	764.8	62	16.7	72	n.	12	5.4			2		calm	0.12	3.0			clear.
Galena, Dar-el-Beda, Morocco	30.06	763.5	67	19.4	95	wnw.			3		2					long	wnw.	hazy.
Independence, Navy Yard, Mare Island, Cal	29.74	755.4	51	10.6	93	sw.			3		0			0	0			clear.
Iroquois, San Francisco, Cal	29.90	759.4	55	12.8	74	sw.			1		0							clear.
Kearsarge, N. 37° 03′, W. 73° 57′	30.04	763.0	56	13.3	94	w.			6		10					sm'h		squally.
Lackawanna, Panama Bay, Panama	29.90	759.4	78	25.6	91	nw.			2		5?		w.					cloudy?
Lancaster, Casa Blanca, Morocco*	30.03	762.7	69	20.6	95	nw.			8		0		w.	0	0			clear.
Marion, S. 34° 54′, W. 56° 13′	29.98	761.5	57	13.9	94	nnw.			3		5			0	0	long	w.	fair.
Michigan, Erie, Pa.	30.09	764.3	59	15.0	94	w.			4		0		calm	0	0	sm'h		clear.
Minnesota, Newport, R. I.	30.01	762.2	49	9.4	93	se.	10	4.5			10							raining.
Monocacy, Nagasaki, Japan	30.05	763.3	63	17.2	83	wnw.			1		0							clear.
New Hampshire, Newport. R. I.	30.00	762.0	49	9.4	100	se.			3		10					sm'h		raining.
Nipsic, Dar-el-Beda, Morocco	30.06	763.5	69	20.6	75	wnw.			3		2		se.			long	nw.	clear.
Onward, Callao, Peru†	30.15	765.8	61	16.1	94	calm			0		10		n.			long	w.	cloudy.
Palos, Kobe, Japan	29.94	760.5	65	18.3	63	wnw.			1		0							clear.
Passaic, Washington, D. C.	30.21	767.3	57	13.9	100	nw.			4		0							clear.
Pensacola. Callao, Peru	30.04	763.0	60	15.6	94	calm	0	0			8			0	0	sm'h		cloudy.
Portsmouth, Plymouth, Eng*†	29.74	755.4	55	12.8	100	wsw.			2		10					sm'h		rainy.
Powhatan, Norfolk.. Va.	30.11	764.8	63	17.2	78	n.			3		0							clear.
Quinnebaug, N. 33° 41′, W. 7° 29′	30.05	763.3	69	20.6	75	w.			3		2							fair.
Ranger, Mazatlan, Mexico*	29.89	759.2	76	24.4	82	calm			0		0		calm			hv'y	n.	fair.
Richmond, Kobe, Japan*	29.86	758.4	66	18.9	64	calm			0		0			0	0	light	s;w.	clear.
Saratoga, Plymouth, Eng.	29.47	748.5	59	15.0	88	s.			2-3		8			0	0			clear.
Shenandoah, Boston, Mass*	30.14	765.5	50	10.0	93	se.			2		10		se.	light	light	sm'n		fair.
St. Louis, League Island, Pa.	30.24	768.1	58	14.4	76	wnw.	14	6.3			5		nw.	0.15	3.8			rainy.
Swatara, N. 37° 27′, E. 126° 33′*	29.69	754.1	62	16.7	77	sw.			2		0							fair.
Tennessee, N. 36° 58′, W. 73° 55′	30.11	764.8	59	15.0	82	wsw.	17	7.6			10			0.05	1.3	sm'h		clear.
Vandalia, N. 37° 19′, W. 73° 43′*†	30.29	769.4	55	12.8	93	ssw.			3		10		ssw.			mod.	wsw.	rainy.
Wabash, Boston, Mass.	30.08	764.0	46	7.8	92	ese.	7	3.1			10		ese.	0.05	1.3	sm'h		rainy.
Wachusetts, Fort Wrangle, Alaska	29.92	760.0	41	5.0	91	calm			0		0			0	0	sm'h		[illegible]
Wyoming, Port Royal, S. C.	30.12	765.0	67	19.4	95	n.	4	1.8			10		calm	0	0			[illegible]
Yantic, N. 37° 08′, W. 73° 55′*	30.01	762.2	54	12.2	?	ssw.			3		10		ssw.			sm'h		

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Nova Scotian, Off Point Levi, Canada	30.06	763.5	40	4.4		e.			3		10							heavy rain.
S. S. Prussian, Halifax, N. S.*	30.13	765.3	43	6.1		nne.			4		4		n.	2 h'r	2 h'r	light	sse.	clear.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, N. 39° 58′, W. 57° 31′	29.92	760.0	62	16.7	94	n.			5		10		ne.			mod.	ne.	overcast.
S. S. Indiana, N. 39° 14′, W. 68° 43′†	30.23	767.8	61	16.1	82	w.			4		2?		wnw.	o	o	sm'h	w.	cloudy.?
S. S. Lord Clive, N. 41° 26′, W. 53° 43′*	29.90	759.4				ene.			6		10		ene.	5 h'r	5 h'r	st'g	ene.	cloudy.
S. S. Ohio, Liverpool, Eng†	29.26	743.2	54	12.2	93	sw.			3		9		w.					cloudy.
ANCHOR LINE.																		
S. S. Bolivia, N. 40° 40′, W. 66° 11′†	30.01	762.2	57	13.9		nnw.			1					9 h'r	9 h'r	long	w.	foggy.
S. S. India, N. 14° 03′, E. 50° 43′*	29.65	753.1	92	33.3	92	sw.			1		1					sm'h		clear.
S. S. Utopia, Alicante, Spain†	30.06	763.5	70	21.1	62	sse.			3		2		s.	o	o			clear.
ATLAS LINE.																		
S. S. Alvo, N. 18° 28′, W. 66° 07′	30.21	767.3	105?	40.6?		var.					2		sw.	1 h'r	1 h'r			
S. S. Athos, Kingston, Jamaica, W. I.	29.57	751.1																
BOSTON AND HALIFAX.																		
S. S. Carroll, N. 42° 26′, W. 63° 33′			50	10.0	93	ese.			3									drizzling.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 40° 23′ E. 18° 40′	30.01	762.2	53.5	11.9	87	wsw.			7		8							showery.
British Merchant, S. 23° 47′, E. 2° 52′	30.29	769.4	67.5	19.7	64	se.			4		10							overcast.
Bk. Commewyne, N. 27° 32′, W. 25° 34′	30.20	767.1	76.6	24.8	60	nw.			2		1							blue sky.
Bk. Coppename, N. 17° 58′, W. 31° 00′	30.16	766.1	74	23.3	74	ne.			4		8							d. clouds.
S. S Earnock, N. 47° 40′, W. 12° 00′	29.50	749.3	55	12.8	80	ese.			2		5							blue sky.
Bkt. Hope, N. 32° 51′, W. 44° 24′	30.01	762.2	71.5	21.9	85	w.			5		7							d. clouds.
Bkt. May Hulse, S. 30° 30′, W. 84° 29′	30.30	769.6	64	17.8	67	ese.			2		10							overcast.
S. S. Minho, Montevideo, Uraguay	30.00	762.0	54	12.2	86	e.			4		0							blue sky.
Pole Star, S. 56° 24′, W. 69° 22′	29.27	743.4	40.3	4.6	96	wsw.			7		7							squally.
CUNARD LINE.																		
S. S. Bothnia, N. 40° 31′, W 73° 10′	29.96	761.0				sw.			5		10		sw.	8 h'r	8 h'r	mod.	sw.	raining.
S. S. Marathon, N. 46° 26′, W. 40° 28′	30.05	763.3	54	12.2		nnw.			3		10		nnw.	o	o	sm'h	n.	cloudy.
S. S. Parthia, N. 41° 18′, W. 53° 14′	29.98	761.5				ene.			6		7		ne.	9 h'r	9 h'r	con.	ene.	overcast.
S. S. Scythia, New York, N. Y.	29.95	760.7	65	18.3	94	wnw.			5		3		wnw.	o	o			clear.
GENERAL TRANS-ATLANTIC COMPANY																		
S. S. St. Laurent, N. 45° 49′, W. 25° 40′†	29.67	753.5	57.2	14.0	89	ne.			4					hail	hail	sm'h	ne.	covered.
S. S. Ville de Marseilles, N. 40° 30′, W. 65° 20′*†	30.10	764.5	61	16.1		ene.			4		9		e.	mist	mist	sm'h		cloudy.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 49° 16′, W. 12° 20′*†	29.50	749.3				e.			1		5		ene.	o	o	sm'h	ne.	fine.
S. S. Cimbria, N. 43° 53′, W 52° 55′	30.18	766.6	41.0	5.0		wnw.			4		10			o	o	mod.	ne.	covered.
S. S. Gellert, N. 49° 20′, W. 26° 05′†	29.64	752.8	60	15.6		ne.			5		10		e.	o	o	mod.	nne.	covered.
S. S. Lessing, New York, N. Y	29.91	759.7	54	12.2		nne.			2		5		ne.	o	o			cloudy.?
S. S. Silesia, N. 50° 28′, W. 3° 20′	29.59	751.6	52	11.1		ssw.			3		10		s.	3½ h'r	3½ h'r	1	s	overcast.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, S. 7° —′ W. 32° —′.*†	30.11	764.8	83	28.3		ene.			4		5?		se.	2 h'r	2 h'r	long	se.	clear?
S. S. Humboldt, N. 26° 26′, W. 64° 27′*	30.13	765.3	79.7	26.5	82	e.			1		4 k		n.	6 h'r	6 h'r	3	e.	d. clouds.
LEYLAND LINE.																		
S. S. Iberian, N. 49° 45′, W. 31° 44′	29.80	756.9				nne.			3		10		ne.	o	o			cloudy.
MERCHANT STEAMSHIP COMPANY.																		
S. S. Glenfyne, Baltimore, Md.	29.80	756.9				nnw.			5				nnw.	o	o	mod.	nw.	fair.
S. S. Glenapp, S. 13° 13′, W. 38° 33′*†	30.05	763.3				s.			3		7		s.	3 h'r	3 h'r		ssw.	showery.
NATIONAL LINE.																		
S. S. Denmark, N. 46° 51′, W. 33° 58′	29.84	757.9	56	13.3		n.			5		5		nne.	5 h'r	5 h'r	mod.	nw.	fine.
S. S. Erin, N. 41° 34′, W. 47° 46′	30.01	762.2	51	10.6		nne.			6		10		ne.	o	o	sm'h		
S. S. Greece, N. 49° 31′, W. 12° 51′	29.50	749.3				e.			2		2		e.	o	o	mod.		
S. S. Italy, N. 40° 35′ W. 72° 00′	29.96	761.0	52	11.1		s.			4		10		wsw.	4 h'r	4 h'r	sm'h		raining.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, N. 34° 58′ W. 74° 05′*†	30.21	767.3	74	23.3	72	ssw.			5		10		nw.	1 h'r	1 h'r	long	se.	misty.
S. S. City of Puebla, Vera Cruz, Mexico†	29.89	759.2	78	25.6		wnw.			1		5		nw.			light	nnw.	
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Lepanto, N. 49° 46′, W. 10° 41′	29.51	749.5	60	15.6		calm			0							sm'h		clear.
S. S. Lone Star, N. 32° 36′, W. 79° 00′*†	30.30	769.6	70	21.1		w.			3								s.	cloudy.
NORTH GERMAN LLOYD.																		
S. S. Graf Bismark, Bahia, Brazil	30.13	765.3	77.9	25.5		var.			2		5		var.	4 h'r	4 h'r			fair.
S. S. Habsburg, N. 50° 00′, W. 19° 52′	29.53	750.0	58.1	14.5		ese.			3		2		ese.	o	o	mod.	s.	fair.
S. S. Hermann, N. 47° 02′ W. 32° 28′†	29.79	756.7	59.0	15.0		n.			5		3		n.	1 h'r	1 h'r		nne.	fair.
S. S. Leipzig, N. 41° 04′, W. 52° 43′	29.99	761.7	53.5	11.9	?	ene.			6		10		ene.	3 h'r	3 h'r	cross	ene.	raining.
S. S. Main, Bremerhaven, Germany	29.82	757.4				se.			1–2		3		e.	o	o			clear.
S. S. Mosel, Southampton, England	29.55	750.6	64	17.8		ssw.			4		6		ssw.	2 h'r	2 h'r			rainy.
S. S. Neckar, N. 40° 58′, W. 56° 23′	29.96	761.0	54.5	12.5		ene.			6		10		ene.	2 h'r	2 h'r	cross	ene.	cloudy.
S. S Oder, N. 42° 08′, W. 51° 08′	30.06	763.5	41.0	5.0		nne.			4		10		ne.	o	o	mod.	nne.	cloudy.
S. S. Ohio, N. 47° 39′, W. 30° 12′	29.75	755.6				nne.			5		9		nne.	o	o	mod.	nne.	cloudy.
S. S. Saller, N. 43° 58′, W. 39° 40′	29.95	760.7	50.0	10.0		nne.			5		8		ne.	1 h'r	1 h'r	r'gh	nne.	cloudy.
S. S. Strassburg, N. 39° 40′ W. 65° 12′	30.14	765.5	60.5	15.8	88	n.			3		4		n.	o	o	sm'h	n.	cloudy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, Hong Kong, China†	30.03	762.7	77	25.0	60	ne.			3		2		ne.	o	o	sm'h		clear.
S. S. Gaelic, Yokohama, Japan†	29.97	761.2	64	17.8	89	calm			0		1		sw.					clear.
S. S. Oceanic, N. 46° 00′. W. 164° 42′*	29.98	761.5	48	8.9	92	wsw.			4		6		w.			3	sw.	cloudy.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga†	30.13	765.3				calm			0		10?		n.					clear ?
S. S. City of Columbus, Savannah, Ga.†	30.10	764.5				nw.			1		6			o	o			cloudy.
S. S. Seminole, Vineyard Sound, Mass†	30.12	765.0	58	14.4	76	ese.			6		10		se.	2 h'r	2 h'r	sm'h		rainy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, N. 40° 33′, W. 124° 36′†	30.13	765.3	48	8.9	85	n.			1							sm'h		misty.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal.†	29.84	757.9	52	11.1	86	wnw.			3		2		w.					fair.
S. S. Dakota, San Francisco, Cal.†	30.05	763.3	52	11.1	93	calm			0		0					mod.	nw	clear.
S. S. Orizaba, N. 32° 47′, W. 117° 20′†	29.98	761.5	61	16.1	77	w.			2		fg.		e.			sm'h	w.	foggy.
S. S. State of California, San Francisco, Cal†	29.90	759.4	50	10.0	86	w.			2		5?		w.					cloudy.?
S. S. Victoria, N. 48° 17′, W. 123° 32′†	29.78	756.5	49	9.4	85	nnw.			2		0			o	o	sm'h		clear.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. City of New York, S. 36° 01′, E. 175° 26′†	30.11	764.8	62	16.7	94	e.			6		8		e.	o	o	h'vy	se.	overcast.
S. S. City of Pekin, N. 37° 52′, W. 159° 07′†	30.13	765.3	61	16.1	88	nw.			3		8		nw.			light	w.	fair.
S. S. City of Rio de Janeiro, N 36° 08′, W. 121° 58′ *†	30.14	765.5	56	13.3	81	w.			1		2			o	o	sm'h		fine.
S. S. City of Sydney, S. 12° 17′, W. 169° 49′†	29.92	760.0	82	27.8	75	ene.			4		2		se.	o	o	mod.	e.	fair.
S. S. City of Tokio, Hong Kong, China†	29.97	761.2	72	22.2	80	e.			3		10		e.	6 h'r	6 h'r			cloudy.
S. S. Colima, Panama, Panama†	29.93	760.2	83	28.3	91	n.			2		4		calm	0.04	1.0			fair.
S. S. Colon, N. 34° 04′, W. 73° 57†	30.15	765.8	76	24.4		ssw.			3		6		s.	o	o	small	s.	fair.
S. S. Granada, N. 23° 08′, W. 107° 58′†	29.93	760.2	57	13.9	94	wnw.			4		8?		wnw.	o	o	light	wnw.	clear ?
S. S. Zelandia, Sydney, N. S. W.	30.20	767.1	60	15.6	71	calm			0		0							fine.
QUEBEC STEAMSHIP CO.																		
S. S. Muriel, Dominica, W. I.	29.92	760.0	83	28.3		e.			3		0			o	o	sm'h		fair.
RED STAR LINE.																		
S. S. Belgenland, Antwerp, Belgium†	29.84	757.9	56	13.3	?	s.			3		2		s.	o	o	sm'h	e.	clear.
S. S. Rhynland, N. 49° 38′, W. 15° 30′†	29.51	749.5	57	13.9	81	ene.			2		8		ene.	o	o	long	sw.	cloudy.
S. S. Switzerland, N. 41° 51′, W. 45° 03′†	30.02	762.5				ne.			3		10		ne.	5 h'r	5 h'r	mod.	ne.	cloudy.
S. S. Vaderland, N. 49° 18′ W. 20° 10′	29.46	748.3	61	16.1	82	ene.			4		8		ene.	o	o	r'gh	e.	clear.
S. S. Waesland, N 40° 00′, W. 55° 13′	29.91	759.7	61	16.1		ne.			6		8		ne.	7 h'r	7 h'r	mod.	ne.	squally.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
ROTTERDAM LINE.																		
S. S. Schiedam, N. 42° 30', W. 48° 25'*	30.00	762.0	48.2	9.0		nne.			5		5		n.	0	0	mod.	n.	hazy.
S. S. W. A. Scholten, N. 49° 31', W. 12° 00'	29.29	744.0	54.2	12.3	93	ne.			3		5		sw.	0	0	mod.	sw.	fair.
STATE LINE.																		
S. S. State of Florida, N. 41° 53', W. 46° 01'	29.95	760.7	57	13.9		ene.			4		9		ene.	1 h'r	1 h'r	short	ene.	cloudy.
S. S. State of Georgia, N. 41° 34' W. 62° 29'†	30.21	767.3	51	10.6		ne.			4		10					light	var.	cloudy.
THINGVALLA LINE.																		
S. S. Thingvalla, Copenhagen, Denmark†	30.27	768.8	62.6	17.0		ssw.			1		3		ssw.	0	0			clear.
WARREN LINE																		
S. S. Iowa, N. 46° 27', W. 38° 18'*†	30.10	764.5	54	12.2		ne.			5		10			0	0	r'gh	ne.	cloudy.
WHITE STAR LINE.																		
S. S. Baltic, N. 50° 23' W. 24° 18'†	29.69	754.1	55	12.8	93	ne.			4		8		ne.	9 h'r	9 h'r	light	ene.	cloudy.
S. S Celtic, N. 46° 16', W. 38° 46'†	30.03	762.7	54	12.2	93	n.			3		10		n.	light	light	mod	nne.	cloudy.
S. S. Germanic, N. 41° 26', W. 52° 13'†	30.04	763.0	51	10.6		ene.			5		10		ene.	0	0	short	ene.	overcast.
WILSON LINE.																		
S. S. Otranto, N. 41° 36' W. 51° 28'†	30.04	763.0	52	11.1		ene.			6		10		ene.			long	ene.	hazy.
MISCELLANEOUS.																		
Schr. Abbe Clifford, N. 12° 00', W. 65° 45'*†	30.01	762.2	81	27.2		ene.			4		3		w.	0	0	sm'h		fine.
Sch. Addie Fuller, Newport News, Va†	30.20	767.1	59	15.0	76	nne.			3	0	0			0.08	2.0			clear.
Bk. Adelaide, N. 4° 17', W. 44° 47'*†	30.01	762.2	84	28.9		ne.			3		2		ne.	3 h'r	3 h'r	mod	ne.	rainy.
Schr. Ajax, Brazos, Texas†	30.10	764.5				ese.			1		8		se.	4 h'r	4 h'r			cloudy.
Bk. Alpha, Guanatamo, W. I†	29.98	761.5	77	25.0		n.			1		1		ne.	0	0			fair.
Schr Annie Lewis, N. 26° 40', W. 94° 24'†	30.15	765.8	77	25.0		e.			4		1		e.	0	0	short	e.	clear.
Bk. Anna Thormann, N. 12° 58' W. 27° 31'	30.06	763.5	77.4	25.2	79	ene.			5		4 k		ne.	0	0	mod.	e.	fine.
Bk. Antioch, S. 39° 26', E. 147° —'*†	29 90	759.4	64	17.8		nne.			2		2		n.	0	0	sm'h		hazy.
S. S. Antonio Lopez, N. 38° 38' W 45° 12'*	29.91	759.7	60.5	15.8	94	e.			6		10 s					mod		raining.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.26	768.6	78	25.6		calm			0		0			0	0			clear.
Schr. Annie M. Smull, S. 0° 37'. E. 107° 19'*†	30.00	762.0	91	32.8		s.								0	0			
Bk. Bergenseren. N. 40° 08', W. 13° 35'†	29.65	753.1				sw.			6				wsw.	rain	rain	6	sw.	threatening
S. S. Compton, N. 32° 27', W. 76° 56'†	30.13	765.3				se.			4		9		nw.	¾ h'r	¾ h'r	light	se.	clearing.
Schr. Edith R. Seward, N. 29° 38', W. 75° 45'*†	30.30	769.6	78	25.6		ese.			1		6		e.	0	0	long	ese.	cloudy.
S. E. J. Spicer, London, England†	29.67	753.6				ssw.			3		6		ssw.	0	0			
Essex, N. 37° 41' W. 56° 37'*†	29.95	760.7	76	24.4		nw.			4		5?		nw.	0	0	sm'h	wnw.	clear.?
S. Exporter, S. 42° 00', E. 13° 20'*†	29.80	756.9				nnw.			6				nw.	24 h'r	24 h'r	cross		
Bk Freya, Dublin, Ireland			56	13.3		ne.			3		5		nne.	4 h'r	4 h'r			squally.
Godfrey, N. 38° 36', W. 58° 25'	29.96	761.0	65.5	18.6	75	n.			5		4		n.	0	0	r'gh	nne.	clear.
S. Grecian, S. 3° 20' E. 107° 00'*†	29.90	759.4	82	27.8		e.			2		0			0	0	sm'h		clear.
Schr. Hattie G. McFarland, N. 43° 24' W. 67° 22'*†	30.18	766.6	42	5.6		sse.			4		10		se.	2 h'r	2 h'r			
Schr. Henry Denison, N. 31° 44', W. 76° 11'†	30.12	765.0				s.			3		4		nw.	0	0	light	se.	fair.
S. Ismir, N. 5° 05', W. 29° 55'†	29.97	761.2				calm			0		10					swell	s.	rainy.
James Slater, N. 35° 17' W. 65° 02'*†	30.40	772.1	76	24.4		nw.			3		5			0	0	mod.	ene.	
Bk. Johanne, N. 50° 38', W. 10° 23'*†	29.50	749.3	58	14.4		calm			0		2		s.	0	0	h'vy	s.	clear.
Schr. John L. Thomas, Albuquerque Cays, C. A*†	30.00	762.0				ene.			1		2		ene.	0	0			clear.
Bkt. Josephine, Guanatamo, W. I.*†	30.15	765.8	79	26.1	78	nne.			2		0			0	0			hazy.
Bk. Julia H., Havana, Cuba, W. I	30.05	763.3	74.7	23.7	85	calm			0		9 k;ks							misty.
Bk. Kate Cann, N. 39° 19', W. 69° 01'*†	30.00	762.0				n.			2		2		ne.	0	0	sm'h	ne.	fine.
Bkt. Kryolith, N. 59° 12' W. 46° 57'*†	30.15	765.8				calm			0		2			0	0	sm'h		clear.
S. S. Lamperts, N. 16° 16, E. 63° 47'*	29.76	755.9	85.6	29.8	72	s.			1		3 k					2		misty.
Light House Tender, Laurel, Pensacola Bay, Fla†	30.14	765.5	66	18.9		se.			2		10		ne.	0	0			cloudy.
Schr. Maggie Abbott, N. 34° 18', W. 70° 40'*†	30.12	765.0				sw.			3		10		sw.	0	0	mod.	nw.	cloudy.
S. S. Malabar, Singapore, Malay Peninsula*†	29.87	758.7																
S. Minnie N. Geraw, N. 47° 56', W. 18° 41'*†	29.34	745.2				e.			4		7		sw.			mod.	se.	fair.
S. Paramita, S. 21° 15' W. 35° 44'†	30.02	762.5	80	26.7		ese.			1		0			0	0	long	s.	clear.
Bk. Pawashick, N. 37° 12', W. 49° 22'*†	30.22	767.6	64	17.8	89	w.			3		10		var.			r'gh	var.	raining.
Bk Peppina, Bordeaux, France†	29.83	757.7	72	22.2	58	sw.			2		2		w.					fair.
S. S. Ponca, N. 11° 25', W. 54° 17'†	30.03	762.7	84.5	29.2		e.			2		4		e.	0	0	light	e.	fair.
Bk. Princessen, N. 44° 35', W. 29° 00'†	29.68	753.8	56	13.3		n.			4		2			1 h'r	1 h'r	sm'h	n.	clear.
Bk. Rosebud, N. 20° 42', W. 25° 09*†	30.12	765.0	79	26.1	58	ne.			4		3		ne	0	0	sm'h		fine.
S. Salisbury, S. 42° 08' E. 31° 09'*	29.96	760 9	55.2	12.9	88	n.			7		7		nnw.	0	0	hv'y	n.	cloudy.
Bkt. Spotless, S. 17° 20', W. 34° 37'*†	30.00	762.0				ese.							ne.			h'vy	ne.	clear.
Bk. Stella, N. 6° 10', W. 117° 40'*	29.80	758.4	79.5	26.4	93	ese.			3		4 k		se.	0	0	sm'h	se.	d. clouds.
Bk. Truro, N. 48° 42' W. 12° 40'*†	29.56	750.8				s.			1		8		se.	1 h'r	1 h'r	sm'h		showery.
U.S.F.C.S.S.Fish Hawk, Havre de Grace, Md†	30.22	767.6	60	15.6	76	nw.			6		3		nw.	0.30	7.6			clear.
Yacht Vega, St. Pierre, Martinique, W. I.*†	30.20	767.1	79	26.1		ene.			1				se.	½ h'r	½ h'r	long	sse.	
S. S. Victoria J. Peed, Salamanca Id., U. S. C*†	29.12?	739.6?				ne.			3		1							
Schr Viola Reppard, N. 32° 00', W. 79° 15'†	29.94	760.5	74	23.3		sse.			1		10			8 h'r	8 h'r		se.	rainy.
S. Washington, Bremerhaven, Germany*†	29.72	754.9				s.			1		0			0	0			clear.
Bk. Wm. Wilcox, N. 28° 20' W. 45° 12'*†	30.32?	770.1?	72	22.2		s.			3		0			0	0	mod.	sse.	clear.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 24, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.06	763.4	71.6	22.0	82	sw.			3		0			0	0	clear	Moiroud.
Algiers			30.01	762.2	73.8	23.2	70	sw.			1		0			0	0	clear	Nicolas.
La Galle			29.92	760.0	78.4	25.8	49	ne.			1		0			0	0	clear	Foufréde.
Tunis			29.91	759.7															Jacques.
Saida			30.11	764.7															Dumas.
Tebessa			30.05	763.2	79.5	26.4	42	nw.			1		0			0	0	clear	Derché.
Geriville					70.9	21.6	19	n.			3		0			0	0	clear	Lonchamp.
Laghouat			30.09	764.3	86.0	30.0	41	n.			2		0			0	0	clear	Abraham.
Biskra			30.04	763.0	94.3	34.6	15	nw.			1		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.45	748.0	29.54	750.3	56.9	13.8	82	ne.	7	3.1			10			0.10	2.5	showery	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.22	742.2	29.74	755.4	78.3	25.7	38	sw.			5		3			0.106	2.7		Prof. Ivan Stozir.
Cracow, I. R Observatory	28.99	736.4	29.72	755.0	74.1	23.4	46	s.	11.2	5.0			4			0.008	0.2		Dr. Wierzbiski.
Eperies	28.97	735.8	29.82	757.3	67.5	19.7	76	s.			4		9 ks		n.	0	0		Julius Mikolik.
Gratz	28.52	724.5	29.73	755.1	68.0	20.0	78	sw.			1		9			0	0	thunder	Andreas Rospini.
Hermannstadt	28.47	723.0	29.83	757.7	73.0	22.8	47	se.			2		1			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.36	720.3	29.65	753.1	66.0	18.9	74	ene.			1		10			0	0	covered	The Staff.
Lemberg	28.90	734.1	29.85	758.2	71.1	21.7	49	s.			3		1			0	0		Dr. T. Stanecki.
Pola	29.71	754.6	29.82	757.4	62.1	16.7	84	se.			1		10			0	0		I. R. Hydrographic Office.
Szathmar	29.37	746.0	29.82	757.5	77.5	25.3	64	s.			3		1			0.441	11.2		Joseph Midlinszky, S. J.
Szegedin	29.55	750.6	29.82	757.5	70.9	21.6	50	s.			3		6			0	0		Karl Stancel.
Trieste	29.76	755.9	29.86	758.5	67.6	19.8	80	sw.			1		10			0.161	4.1		Rieder.
Vienna	29.03	737.4	29.72	754.8	72.3	22.4	55	se.			2		7			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.10	739.1	29.20	741.7	49.0	9.4	99	se.	14	6.3			10			0	0	foggy	W. Boswell
Armagh, Observatory	28.98	736.1	29.23	742.4	57.2	14.0	84	sse.	5	2.2			10					overcast	S. Call.
Bidston, Liverpool Obs'y			29.25	742.9	52.5	11.4	86	ssw.	21	9.4			10		n.			overcast	John Hartnup.
Bolton, Sharples	28.74	730.0	29.26	743.2	49.7	9.8	91	s.	18	8.0			10					raining	Thomas Mackereth. [A.S.
Bradford, Yorkshire	28.89	733.8	29.29	744.0	59.1	15.1	51	se.			3		10			0.08	2.0	raining	J. McLandsborough, F. R
Bridgetown, Barbadoes	29.98	761.5	30.00	762.0	82.5	28.1	70	ne.			2		6					gloomy	Corpl. J. Surgenor, A. H. C.
Cardington			29.39	746.5	65.0	18.3	54	s.			8.0		3					blue sky	John McLaren.
Chatham, School M. E.	29.37	746.0	29.50	749.3	60.4	15.8	66	sw.			4		8					d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.17	740.9	29.40	746.7	55.6	13.1	78	ssw.			5		9					raining	The Staff.
Fort Napier, Natal	27.92	709.2	30.13	765.3	65.3	18.5	48	ne.			3		5						Pvt. E. K. Annis, A. H. C.
Free Town, Sierra Leone	29.56	750 8	29.79	756.7	89.0	31.7	63	w.			1		5					d clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	29.99	761.7	30.04	763.0	73.5	23.1	81	w.			2		0					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	28.95	735.3	29.16	740.7	52.3	11.3	86	ene.			2							raining	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.31	744.5	29.48	748.8	60.5	15.8	70	ssw.			4		9					overcast	The Staff.
Guernsey	29.24	742.7	29.53	750.0	60.0	15.6	79	sw.			2		6			blank	blank	d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.44	747.8	29.48	748.8	62.0	16.7	63	sw.	29	13.0			7					d. clouds	The Staff.
Leicester, Museum	29.10	739.1	29.35	745.5	60.8	16.7	58	sw.			6		8			blank	blank	d. clouds	J. C. Smith.
Malta, Mediterranean	29.88	758.9	29.96	761.0	75.2	24.0	51	se.			3		0					blue sky	I. H. Whysall.
Nassau, Bahamas	30.05	763.3	30.10	764.5	80.0	26.7	82	se.			1		8					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	28.82	732.0	29.33	745.0	58.8	14.9	76	s.			6		7					showery	Warren Middleton.
Oxford, Radcliffe Obs'y	29.19	741.4	29.42	747 3	60.2	15.7	59	s.			7		7					showery	The Staff.
Plymouth	29.34	745.2	29.42	747.3	59.5	15.3	76	sw.			4		5					d. clouds	John Merrifield.
Sandwick Manse, Orkneys			29.20	741.7	50.2	10.1	89	sse.	30	13.4			10					foggy	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.85	758.2	29.92	760.0	66.0	18.9	60	ne.			2		9					d. clouds	W. H. Lyne.
Sheffield	29.04	737.6	29.31	744.5	61.1	16.2	77	sw.			3		5			0.06	1.5	d. clouds	W. F. Cooper.
Silloth Rectory	29.13	739 9	29.16	740.7	54.0	12.2	85	s.			2		10			0.750	19.0	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.29	744.0	49.0	9.4	85	ssw.	19	8.5			10					raining	J. New.
Stratfield Turgiss	29.24	742.7	29.45	748.0	61.6	16.4	68	sw.			4-5		5					squally	Rev. O. H. Griffiths, F.M.S
Truro, Royal Institution	29.38	746.2	29.40	746.7	57	13.9	76	sw.			7		8					gloomy	W. Newcombe.
Valencia, Observatory	29.22	742.2	29.25	742.9	56.6	13.7	87	wsw.	18	8.0			10			blank	blank	misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.06	763.5	30.11	764.8	41	5.0	87	e.	12	5.4			10 n		se.	inap.	inap.	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	30.06	763.5	30.12	765.0	38	3.3	100	e.	5	2.2			10 n		e.	0.16	4.1	light rain	G. A. Blair.
Father Point, Quebec*	30.03	762.7	30.06	763.5	37	2.8	92	ne.	8	3.6			fg.			0.27	6.9	light rain	J. McWilliams.
Fort Garry, Manitoba*																			
Halifax, N. S*	29.91	759.7	30.04	763.0	39	3.9	100	e.	20	8.9			10 n		e.	0.268	6.8	heavy rain	A. Allison.
Kingston, Ontario*	29.79	756.7	30.13	765.3	42	5.6	79	n.	5	2.2		2 c	2 k	w.	w.	0.01	0.3	cloudy?	A. P. Knight, M. A.
Montreal, Quebec*	29.80	756.9	30.01	762.2	44	6.7	80	sw.	16	7.2			10 n			0.35	8.9	light rain	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.48	748.8	30.19	766.8	42	5.6	83	w.	10	4.5			10 n		w.	0	0	cloudy	Rev. R. Mosley.
Port Dover, Ontario	29.53	750.0	30.24	768.1	42	5.6	74	w.	4	1.8		0	0			0	0	clear	H. Morgan.
Port Stanley, Ontario	29.57	751.1	30.23	767.8	43	6.1	74	nw.	5	2.2		0	0			0	0	clear	M. Payne.
Quebec, Quebec*	29.66	753.4	29.99	761.7	40	4.4	96	e.			3		10 n		e.	0.95	24.1	light rain	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.62	752.3	30.08	764.0	44	6.7	76	nw.	6	2.7		5 ck	0	nw.		0.35	8.9	fair	W. H. McIntyre.
Saugeen, Ontario*	29.46	748.3	30.19	766.8	42	5.6	82	sw.	4	1.8		0	0			0	0	clear	
St. Andrews, N. B	29.95	760.7	30.01	762.2	40	4.4	90	e.	1	0.4			10 n			0.42	10.7	cloudy	
Sydney, C. B*	30.16	766.1	30.22	767.6	38	3.3	92	se.	8	3.6			10 n			0	0	cloudy	T. C. Hill, C. E
Toronto, Ontario*	29.85	758.2	30.25	768.3	42	5.6	70	w.	4	1.8		0	0			0	0	clear	Magnetic Observatory.
Yarmouth, N. S*	29.87	758.7	29.94	760.5	42	5.6	96	calm	0	0		fg.	fg			0.26	6.6	dense fog	Lt. F. E. Wilmot, R. N
Sub-series.																			
St. Johns, Newfoundland	30.17	766.3	30.43	772.9	37	2.8	100	ne.				hz.	hz.			0	0	hazy	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.44	773.2	30.47	773.9	64.0	17.8	77	w.	14.9	6.7		0	8 ks			0	0	showery	John Duthie.
Cape Town, C. G. H. Obs'y	30.33	770.4	30.37	771.4	64.6	18.1	59	s.	24	10.7						0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Chinese (*Sub-series*).																			
Hankow	29.62	752.3	29.89	759.2	73.2	22.9	95	calm			0		4			blank	blank		N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.78	756.3	29.80	757.0	64.8	18.2	88	sse.	9.4	4.2			10 n			0.197	5.0	raining	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.61	752.2	29.66	753.4	62.8	17.1	56	w.	20	9			7						Oversergent Fischer.
Fanöe	29.60	751.7	29.61	752.2	58.3	14.6	89	wsw.			4		1						Overloerer Lauridsen.
Godthaab, Greenland	30.06	763.4	30.10	764.5	38.8	3.8	87	nne.			4		1			0	0		S. Kleinschmidt.
Stykkisholm, Iceland	29.74	755.5	29.79	756.6	29.1	— 1.6	84	e.			7		8						A. O. Thorlacius.
Thorshavn	29.13	739.9	29.17	740.8	46.8	8.2	83	se.	9	4			10					raining	Overloerer Bergh.
Vestervig	29.45	747.9	29.54	750.2	54.9	12.6	90	ssw.			6		9						Loerer Oesterbol.
French.																			
Agen, Normal School	29.14	740.2	29.77	756.2	68.7	20.4	62	w.			1	2 c	kn		w.	0.228	5.8		M. Labroue, Director.
Alençon, Normal School	29.12	739.7	29.67	753.7	63.0	17.2	76	s.			1	ck	0	sw.		0	0		M. Nicot, Director.
Arras, Engineer School	29.34	745.2	29.59	751.6	62.4	16.9	75	nw.			1		kn			0.035	0.9		M. Fénéon, Command't.
Avignon, Normal School	29.72	754.9	29.80	756.9	68.0	20	65	n.			1		0			0.520	13.2	clear	M. Giraud, Director.
Bar-sur-Seine	29.17	740.8	29.71	754.6	60.1	15.6	71	sse.			1		10			0.091	2.3	covered	M. Saillard, Director.
Beauvais, Normal School	29.40	746.7	29.65	753.2	69.3	20.7	35	sse.			2		8		ssw.	0	0	very cloudy	M. Frère Eugène Marl.
Besançon, Normal School	28.84	732.5	29.71	754.7	60.4	15.8	91	s.			1		10 cn		s.	0.47	12.	raining	M. Gobin, Director.
Bordeaux, Observatory	29.50	749.4	29.76	755.9	66.9	19.4	49	wnw.			1		8		wnw.	0.008	0.2	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.21	741.9	29.75	755.6	59.9	15.5	68	se.			1		kn		se.	0.020	0.5		M. Postel, Director.
Brest, Naval Observatory	29.35	745.5	29.59	751.6	60.1	15.6	75	sw.			4		8		sw.	0.669	17.0		M. de Kermaree, Dir.
Caen, Normal School	29.53	750.0	29.60	751.8	64.8	18.2	50	ssw.			2		5		ssw.	0.016	0.4	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.36	745.8	29.67	753.7	65.1	18.4	42	s.			2		5			0.012	0.3	cloudy	M. Jadot, Director.
Charleville, Normal School	29.15	740.4	29.64	752.9	69.8	21	50	e.			3		8			0.16	4.	¾ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.39	721.1	29.68	753.9	72.3	22.4	25	sw.			1		5		sw.	0	0	½ covered	M. Alluard, Director.
Cluny, Normal School	28.91	734.4	29.74	755.3	59.5	15.3	68	e.			2		7			0.098	2.5		M. de Villemontée, Dir.
Commercy, Normal School	28.87	733.2	29.75	755.7	65.3	18.5	50	ese.			1		5 kn	ese.	ese.	0.098	2.5	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.25	692.2	29.77	756.1	54.5	12.5	70					0	1 n		nw.	0.122	3.1		M. Jeanginard, Director.
Gréasque, du Rhone	28.69	728.8	29.79	756.6	64.9	18.3	62	nw.			2		3		nw.	0.04	1.		M. Kina, Director.
Grenoble, Normal School	28.99	736.4	29.74	755.5	61.7	16.5	74	wsw.			1		kn	w.	s.	0.35	9.		M. Ablard, Director.
Guéret, Normal School	28.17	715.6	29.72	754.9	60.8	16	52	s.			1		5		s.	0.016	0.4	cloudy	M. Rivoire, Director.
Lamballe, Normal School	29.30	744.3	29.57	751.0	59.7	15.4	62	s.			4		8		s.	0.16	4.	very cloudy	M. Olliffrault, Director.
Lescar, Normal School	29.22	742.2	29.73	755.2	73.4	23	33	w.			3	2 ck	0			0	0	slightly cld'y	M. Chauvin, Director.
Lorient, Naval Observatory	29.54	750.2	29.64	752.8	61.7	16.5	64	sw.			6		8	wsw.	s.	0.024	0.6	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.74	730.1	29.78	756.4	62.2	16.8	63	s.			1					0.587	14.9		M. André, Director.
Mans, Normal School	29.35	745.5	29.65	753.1	64.6	18.1	61	sw.			3		5		sw.	0.094	2.4	cloudy	M. Piboen, Director.
Marseille, Observatory	29.53	750.1	29.80	756.9	66.4	19.1	62	wsw.			2		1		wsw.	0.217	5.5		M. Stephan, Director.
Montlouis	24.67	626.5	29.51	749.5	53.2	11.8	62	se.	11.2	5.0			8		s.	0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.63	752.6	29.76	755.8	70.2	21.2	67	se.			2		2		w.	0	0	slightly cl'dy	M. Galzin, Director.
Nancy, Normal School	28.99	736.3	29.75	755.7	65.5	18.6	47	s.			1		kn			0.098	2.5		M. Hasse, Director
Nantes, Observatory	29.54	750.3	29.70	754.4	63.3	17.4	51	wsw.			2–3	0	8kn;n		ssw.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.70	754.4	29.81	757.1	65.1	18.4	59	se.	15.0	6.7			7		w.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.04	534.3			35.6	2.0		sw.			1	1	1	ne.	sw.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	28.72	729.5	29.81	757.1	60.8	16	79	s.			1		1		s.	2.28	58.	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	24.94	633.4			45.1	7.3	66	sw.			3	0	2 k			0.051	1.3	¼ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	29.71	754.7	29.74	755.5	67.6	19.8	100	wsw.			2		5		ssw.	0.31	8.	½ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.47	748.5	29.68	753.8	65.5	18.6	50	ssw.			4		5		sw.	0	0	cloudy	M. Mouillot, Director.
Rodez, Normal School	27.63	701.9	29.72	754.8	64.8	18.2	71	ne.					1		w.	0	0	clear	M. Serger, Director.
Rouen, Normal School	29.56	750.8	29.61	752.0	66.6	19.2	47	sw.			1		2		ne.	0.165	4.2	slightly cl'dy	M. Brotier.
Saint Maur, Observatory	29.50	749.4	29.67	753.6	69.1	20.6	33	ssw.			2		3	sw.	ssw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.11	739.5	29.84	757.8	72.9	22.7	35	wnw.			2		2	w.		0	0	slightly cl'dy	M. Baillaud, Director.
Tours	29.49	749.0	29.67	753.5	68.0	20.0	49	sw.			6		kn	w.	wsw.	0.031	0.8		
Versailles, Observatory	29.17	741.0	29.67	753.6	68.7	20.4	29	sw.			3					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.39	746.4	29.68	753.8	70.3	21.3	27	sw.			2		6	se.		0.008	0.2		M. Marié Davy, Director
German.																			
Bamberg	28.92	734.6	29.77	756.1	64.0	17.8	50	sw.			2	0	8 s; k		sw.	0.016	0.4		Prof. Dr. Hoh.
Berlin	29.56	750.8	29.73	755.1	68.9	20.5	58	w.			1		8			0.031	0.8		Prof. Dr. Arndt.
Breslau	29.25	742.9	29.78	756.3	67.3	19.6	65	wnw.			2		10					raining	Royal University Obs'y.
Carlsruhe	29.28	743.8	29.71	754.5	67.3	19.6	53	e.			1		9	s.		0.138	3.5		Albert Senz.
Cassel	28.98	736.0	29.69	754.1	74.5	23.6	40	s.			2		8	s.		0.031	0.8		Dr. H. Möhl.
Frankfort-on-the-Main	29.36	745.7	29.71	754.7	69.3	20.7	46	sw.			2		8			0.043	1.1		Physical Society.
Friedrichshafen	28.28	718.3	29.67	753.7	62.2	16.8	73	sw.			3		10	sw.		0.429	10.9		Wilhelm, Chief Tel.
Hamburg	29.61	752.1	29.71	754.5	67.6	19.8	47	sw.			4		5			0.114	2.9		E. Preller.
Kiel	29.64	752.9	29.66	753.3	64.8	18.2	54	sw.			2		7			0.047	1.2		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.35	745.4	29.76	755.8	66.6	19.2	49	s.			1		9			0	0		H. Leppig, Asst.
Magdeburg	29.54	750.2	29.72	754.8	69.8	21.0	51	se.			1	0	7 ks		wsw.	0.244	6.2		Dr. Assmann.
Memel	29.74	755.5	29.79	756.7	70.0	21.1	67	sse.			3	7 ck	0						Issermann.
Munich	27.93	709.3	29.77	756.2	62.4	16.9	61	ne.			2		9	se.		0.083	2.1		Central Station.
Neufahrwasser	29.71	754.5	29.72	754.9	74.7	23.7	63	ssw.			2		6			0.098	2.5	thunder	A. Lothes.
Neustadt, Palatinate	29.25	742.9	29.77	756.1	70.9	21.6	56	s.			4		10			0.146	3.7		Dickmether.
Stuttgart	28.79	731.3	29.66	753.3	64.8	18.2	63	n.			1		7	e.		0.177	4.5		Prof. Dr. Schoder.
Wustrow	29.71	754.5	29.73	755.1	62.2	16.8	62	sw.			4	0	5 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.60	751.8			73.6	23.1		s.			2.0	1 c	0			0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.72	754.8	29.76	756.0	86.3	30.2	79	wsw.	30.0	13.4			2		w.	0	0	misty	
Deesa	29.18	741.3	29.63	752.7	103.6	39.8	19	wsw.	7.2	3.2			0			0	0	blue sky	
Bombay	29.72	754.8	29.76	755.8	87.2	30.7	72	wnw.	18.0	8.0			0			0	0	blue sky	
Poona, Yarrowda	27.87	708.0	29.67	753.7	93.6	34.2	24	w.	24.0	10.7			2		w.	0	0	d. clouds	
Bellary	28.17	715.6	29.59	751.6	96.0	35.6	29	w.	11.1	5.0			9	sw.		0	0	gloomy	
Belgaum	27.22	691.5	29.72	754.9	82.4	28.0	60	sw.	8.0	3.6			2	ne.		0	0	misty	
Lahore	28.80	731.5	29.50	749.3	106.3	41.3	14	w.	1.9	0.8			0			0	0	blue sky	
Roorkee	28.60	726.3	29.44	747.8	105.3	40.7	11	nw.	2.9	1.3			0			0	0		
Agra	28.95	735.4	29.48	748.9	106.4	41.3	15	w.	7.2	3.2			2			0	0		
Nagpur	28.56	725.3	29.54	750.3	105.9	41.1	18	calm	3.1	1.4			7		w.	0	0	d. clouds	
Jubbulpore	28.27	718.0	29.56	750.8	102.9	39.4	14	nw.	2.8	1.2			2			0	0	d. clouds	
Lucknow	29.13	739.8	29.49	749.0	99.4	37.4	16	wnw.	4.4	2.0			0			0	0	blue sky	
Allahabad	29.20	741.7	29.49	749.1	107.6	42.0	9	nw.	3.5	1.6			0			0	0	blue sky	
Patna	29.36	745.8	29.54	750.2	100.7	38.2	59	ne.	3.3	1.5			0			0	0	blue sky	
Hazaribagh	27.57	700.4	29.50	749.2	97.0	36.1	15	nw.	8.1	3.6			0			0	0	misty	
Cuttack	29.48	748.8	29.56	750.8	90.1	32.3	80	s.	1.0	0.4			3			0	0	d. clouds	
Calcutta, Alipore	29.50	749.4	29.53	749.9	93.5	34.2	63	sw.	5.0	2.2			1c			0	0	overcast	
Dhubri	29.44	747.8	29.56	750.7	91.7	33.2	62	ene.	7.6	3.4			7	sw.		0	0	d. clouds	
Chittagong	29.57	751.0	29.66	753.3	76.7	24.8	87	se.	5.6	2.5			10			0.02	0.5	overcast	
Sibsagar	29.28	743.6	29.61	752.0	84.2	29.0	75	se.	1.3	0.6			10	w.	w.	0	0	overcast	
Jeypore	28.20	716.2	29.57	751.0	103.7	39.8	23	nw.	6.0	2.7			5		w.	0	0	d. clouds	
Zanzibar, Africa	29.99	761.7			84.2	29.0	59	s.	6.4	2.9			6			0.02	0.5	d. clouds	
Italian.																			
Udine	29.46	748.2	29.85	758.3	66.0	18.9	83	se.	1.8	0.8			10			0.083	2.1		Prof. Giovanni Cloelig.
Milan	29.23	742.5	29.73	755.2	73.0	22.8	37	se.	7.4	3.3			8	sw.		0	0		Prof. Schiaparelli.
Padua	29.70	754.4	29.81	757.1	68.9	20.5	58	ese.	9.8	4.4			6	s.		0.146	3.7		Prof. Dott. Lorenzoni.
Moncalieri	28.84	732.5	29.71	754.8	56.5	13.6	70	n.	9.8	4.4			9	n.		0.323	8.2		Prof. P. F. Denza.
Genoa	29.60	751.7	29.78	756.5	60.4	15.8	86	se.	3.1	1.4			10	se.		0.335	8.5		Prof. G. M. Garibaldi.
Mondovi	27.84	707.0	29.77	756.1	56.1	13.4	94	nw.			6		9			0.276	7.0		Prof. D. C. Brano.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
ITALIAN.—Continued.																			
Pesaro	29.75	755.7	29.80	756.9	74.5	23.6	47	se.	8.1	3.6			5			0	0		Prof. Luigi Guidi.
Florence	29.53	750.1	29.78	756.4	75.6	24.2	40	sw.			4		10			0	0		Prof. Costantino Pitter.
Leghorn	29.67	753.5	29.75	755.6	70.0	21.1	69	ssw.	3.1	1.4			5			0	0		Prof. P. Monte.
Rome	29.72	754.9	29.89	759.2	70.7	21.5	56	s.	11.9	5.3			7			0	0		Prof. P. S. Ferrari.
Lecce	29.66	753.4	29.91	759.8	78.6	25.9	37	ssw.	12.5	5.6			1			0	0		Prof. C. de Giorgi.
Cosenza	29.05	737.8	29.91	759.7	78.8	26.0	79	ese.	3.1	1.4			4	sw.		0	0		Prof. D. Conti.
Cagliari	29.67	753.6	29.86	758.4	75.2	24.0	50	nw.			6		1			0	0		Prof. A. Pacinotti.
Palermo	29.69	754.0	29.93	760.2	74.5	23.6	48	ene.	6.9	3.1			3			0	0		Prof. G. Ciaccolatore.
Syracuse	29.85	758.2	29.89	759.3	76.6	24.8	53	s.	15.4	6.9			3	s.		0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.39	746.5	29.90	759.4	71.4	21.9	68	w.	3.8	1.7			8	sw.		0	0		Prof. T. Brioschi.
Stelvio	22.02	559.3			38.5	3.6	70	sw.			4		10			0	0	covered	Prof. P. F. Denza.
Valdobbia	22.00	558.8			36.5	2.5	80	se.			2		10			1.181	30.0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.82	757.4	29.85	758.2	64.3	17.9	58	sw.	18.5	8.3		2 cs	0			0	0	clear	K. Ogawa.
Hakodate	29.82	757.4	29.83	757.7	62.0	16.7	67	ssw.	21.0	9.4			9		sw.	0	0	cloudy	
Hiroshima, I. M. Obs'y	29.99	761.7	30.01	762.2	64.6	18.1	77	w.	1.3	0.6		8 cs	0			0	0	overcast	J. Sogawa.
Kanazawa	29.91	759.7	30.01	762.2	63.9	17.7	82	se.	5.2	2.3		5ck;cs	0			0	0	fair	S. Endo.
Kioto	29.88	758.9	30.05	763.3	63.0	17.2	77	ssw.	2.2	1.0		8 cs	0			0	0	fair	M. Tojima.
Kochi	30.08	764.0	30.10	764.5	66.9	19.4	80	n.	3.0	1.3		5 c;cs	0	sw.		0	0	fair	K. Kusunose.
Nagasaki, I. M. Obs'y	29.84	757.9	30.04	763.0	64.7	18.2	76	ssw.	0.5	0.2		5 c	0			0	0	fair	S. Takehayashi.
Niigata	29.94	760.5	29.97	761.2	67.8	19.9	61	se.	5.3	2.4		2 ck	0			0	0	fair	M. Morita.
Nobiru	29.95	760.7	29.97	761.2	62.1	16.7	86	sw.	6.6	2.9		cs	8 s			0	0	fair	H. Midzushina.
Supporo					60.0	15.6	60	se.	10.8	4.8			10			inap.	inap.	covered	
Tokei Obs'y, Yeddo	29.96	761.0	30.03	762.7	64.1	17.8	86	s.	4.4	2.0		0	0			0	0	clear	The Staff.
Wakayama	30.00	762.0	30.05	763.3	66.3	19.1	73	calm	0	0		10 ck	0	w.		0	0	cloudy	Y. Kuwamura.
MAURITIUS																			
Mauritius Observatory	29.82	757.4	30.01	762.2	77.9	25.5	71	e.	9.0	4.0		0	4 k;n		sw.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.71	602.3	29.94	760.3	59.5	15.3	96	calm	0	0		c	10 k		w.	0.079	2.9	rainy	Prof. Vicente Fernandez.
Leon	24.32	617.7	29.96	761.0	61.2	16.2	88	nw.			1	10 c	0	w.		0.015	0.4	covered	Prof. M. Leal.
Mazatlan	29.68	753.8	29.94	760.4	71.5	21.9	92	e.	0.9	0.4		0	1 k		n.			hazy	F. Quijano, C. E.
Mexico, Central Obs'y	23.12	587.2	30.15	765.8	53.6	12.0	87	calm	0	0		4 c	2 s			0.473	12.0	½ cloudy	The Staff.
Morelia	24.18	614.0	30.22	767.6	61.2	16.2	48	ne.			2	3	1	s.	s.	inap.	inap.		M. Tena, M. D.
Pabellon, Aguascallentes	23.95	608.4	29.93	760.1	61.3	16.3	91	calm	0	0		0	6 ks		sw.	0.126	3.2	½ cloudy	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.42	594.8	30.16	766.0	54.7	12.6	90	calm	0	0			8		n.	1.205	30.6	cloudy	Prof. P. Spina.
San Luis Potosi	24.24	615.6	30.03	762.8	58.5	14.7	80	sw.			1	2	5	w.		0.307	7.8	cloudy	G. Barroeta, M. D.
Zacatecas	22.58	573.6	29.97	761.2	53.6	12.0	93	sw.	4.0	1.8		3 c		sw.	w.	0.016	0.4	½ cloudy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.63	752.5	29.63	752.5	65.5	18.6		ssw.			4					0.031	0.8		
Groningen	29.59	751.6	29.65	753.0	64.4	18.0		sw			3					0.157	4.0		
Helder	29.59	751.6	29.59	751.6	61.2	16.2		ssw.			4					0.012	0.3		
Hellevoetsluis	29.62	752.4	29.62	752.4	66.0	18.9	57	s.			3					0.161	4.1		
Utrecht	29.61	752.2	29.66	743.4	67.5	19.7	53	ssw.			2		5			0	0	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.31	744.4	29.37	746.0	45.3	7.4	45	nw.	4	2			2			0	0		
Brono	29.58	751.3	29.62	752.3	51.4	10.8	75	n.	18	8			1			0.118	3.0		
Christiania	29.35	745.0	29.50	749.2	58.5	14.7	71	ne.	7	3			10			0.134	3.4	raining	
Gjæsvær	29.01	752.2	29.64	752.8	39.7	4.3		calm			0		10						
Lodingen	29.62	752.3	29.67	753.5	48.0	8.9	63	ne.			2		8			0.197	5.0		
PORTUGUESE.																			
Angra, Azores					61.2	16.2	67	nw.	7.4	3.3			5			0	0		Dr. J. A. Sampaio.
Campo Major	28.92	734.6	29.91	759.7	64.4	18.0	58	wsw.	10.5	4.7			8			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	29.97	761.1	30.05	763.3	68.2	20.1	73	w.					6			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.57	751.0	29.92	760.0	63.0	17.2	77	ssw.	23.0	10.3			10			0.016	0.4		The Staff.
Ponta Delgada, Azores	29.75	755.6	29.82	757.4	62.6	17.0	64	wnw.	7.4	3.3			3			0.323	8.2		
Saint Paul de Loando	29.75	755.7	29.95	760.8	76.5	24.7	91	nne.	0.7	0.3			9			0	0	foggy	
Serra da Estrella	25.10	637.6	29.84	758.0	44.1	6.7	94	sw.	17.4	7.8			10			0.827	21.0	rain and fog.	
RUSSIAN.																			
Akmolinski	28.69	728.8	29.77	756.2	46.8	8.2	91	wnw.	11	5			10 n			0.213	5.4		Major K. Lasarew.
Archangel	29.74	755.4	29.76	755.9	51.6	10.9	49	ese.	9	4			9 ks			0.098	2.5		Capt. Sselliwerstow.
Astrakhan	30.21	767.3	30.13	765.2	66.9	19.4	38	ese.	9	4		0	1 s			0	0		Capt. Wisganow.
Barnaul	29.17	740.8	29.66	753.4	48.7	9.3	89	nw.	9	4			10			0.189	4.8		Meteorological Obs'y.
Dorpat	29.57	751.1	29.80	756.9	74.5	23.6	45	ssw.	9	4			10 k			0.055	1.4		Observatory.
Ekaterinburg	28.90	734.1	29.87	758.8	42.1	5.6	39	wnw.	13	6			10			0	0		Meteorological Obs'y.
Kasan	29.71	754.6	29.97	761.3	64.8	18.2	39	ssw.	2	1		0	0			0	0		Observatory.
Kertch	29.80	756.9	29.82	757.4	64.0	17.8	72	e.	31	14		0	5 ks			0	0		Lagorio & Sastyrez.
Kieff	29.35	745.0	29.97	761.1	70.2	21.2	32	ese.	2	1		0	0			0	0		Observatory.
Lugan	29.83	757.6	30.03	762.7	69.8	21.0	33	ese.	22	10			0			0	0		Meteorological Obs'y
Moscow	29.43	747.4	29.87	758.7	76.5	24.7	31	ssw.	4	2			4 ks						Meteorological Obs'y.
Nikolaiev	29.93	760.2	30.00	762.0	72.5	22.5	32	ene.	13	6		3 cs	0			0	0	light clouds	Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.69	754.2	29.78	756.4	35.6	2.0	94	nw.	9	4			10			0.181	4.6	raining	Lieut. Iwanow.
Pekin, China	29.72	754.9	29.86	758.5	63.0	17.2	96	se.	4	2			10 n			0.591	15.0	thnd'r storm	Physical Observatory
St. Petersburg	29.80	756.9	29.82	757.3	65.8	18.8	61	s.	11	5			10 s;n			0	0	light clouds	Central Physical Obs'y.
Semipalatinsk	29.24	742.7	29.90	759.5	50.0	10.0	74	wnw.	13	6			10			0.110	2.8		Major Lasareu.
Tashkend, Laboratory	28.48	723.5	29.99	761.8	76.1	24.5	59	calm	0	0			1			0	0		Teich, A. M.
Tiflis	28.57	725.7	29.97	761.2	63.5	17.5	73	e.	4	2			10			0.189	4.8		Physical Observatory
Vladivostock	29.73	755.1	29.80	756.8	57.6	14.2	79	n.	4	2		2 c	0			0	0		
Warsaw	29.37	745.9	29.77	756.2	69.6	20.9	63	sw.	7	3			10ks;n						Astronomical Obs'y
Wilna	29.45	748.0	29.85	758.1	75.7	24.3	41	s.	13	6			1			0	0		Berg, Assistant.
Yeniseisk																			M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.72	754.8	29.82	757.4	72.5	22.5	48	w.	4.9	2.2		2 c;ck	0			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	29.69	754.1	29.75	755.6	75.4	24.1	41	w.	3.6	1.6		2	3	ne.		0.008	0.2	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.91	683.4	29.84	758.0	57.6	14.2	67	sw.	8.1	3.6			10			0.150	3.8	raining	Domingo Martin.
Madrid, Royal Obs'y	27.70	703.6	29.91	759.8	59.0	15.0	67	w.	21.7	9.7		0	7			0.102	2.6	very cloudy	The Staff.
Murcia, Met. Obs'y	29.78	750.3	29.93	760.2	76.5	24.7	41	s.	6.9	3.1		2	3			0	0	clouds	Olayo Diaz, Director.
Santiago, Met. Obs'y	28.76	730.5	29.64	752.9	59.4	15.2	74	sw.	31.1	13.9			9			0.638	16.2	almost cov.	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	29.96	760.8	30.02	762.5	75.2	24.0	86	ese.	2.7	1.2		8cp;cs	2 s	w.		0.646	16.4	cloudy	Benito Vines, S. J.
Manilla, Philippine Islands	29.82	757.3	29.87	758.8	83.3	28.5	82	n.	0	0		4 c	4 ck		e.	1.315	33.4	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.97	761.3	30.07	763.8	66.6	19.2	72	sw.	7.3	3.3		0	6		w.	0.005	0.1		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.98	761.4	30.07	763.7	79.5	26.4		s.	1.8	0.8		0	2 k		s.	0.244	6.2	clear	Manuel Maese.
Tuguegarao, Philippine Id's	29.76	755.9	29.89	759.2	83.0	28.3	75	se.	0	0		2 ck	7 k		e.	sw.	0.01	0.3	very cloudy	José L. Yrastorza.
SWEDISH																			
Haparanda	29.49	749.1	29.53	750.1	52.5	11.4	73	s.			2		2			0	0		
Umea	29.56	750.7	29.61	752.0	65.8	18.8	39	sw.			4		6			0.228	5.8		
Hernosand	29.76†	755.8†	29.81†	757.1†	65.8	18.8	66	n.			2		2			0	0		
Stockholm	29.46	748.3	29.64	752.8	68.0	20.0	62	sse.			4		7			0	0		
Wisby	29.59	751.6	29.65	753.1	72.0	22.2	60	ssw.			4		3			0	0		
Sub-series.																			
Upsala	29.50	749.2	29.58	751.4	72.3	22.4	47	s.	16.1	7.2			5	sw.	s.	0.130	3.3		S. G. Flueman.
SWISS.																			
Geneva	28.36	720.4	29.78	756.4	56.5	13.6	82	sw.			1					0.063	1.6	covered	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
TURKISH.																			
Constantinople			29.97	761.2	61.3	16.3	61	n.	12	5.5			10		n.	0	0		The Observatory.
Valona			30.00	761.9	75.0	23.9		w.			1		2			0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.89	759.1	72.0	22.2	70	sw.			3		9 ks		sw.	0.62	15.7		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.08	764.0	30.16	766.1	53.5	11.9	52	w.	9	4.0		0	6 k		nw.	0.15	3.8	fair	J. O. Barnes.
Alpena, Michigan	29.52	749.8	30.18	766.6	39	3.9	82	e.	2	0.9			10 s			0	0	cloudy	Jas. J. Fitzgerald.
Atlanta, Georgia	28.98	736.1	30.15	765.8	57.0	13.9	69	n.	3	1.3		0	0			0	0	clear	H. Hall.
Atlantic City, New Jersey	30.16	766.1	30.17	766.3	56.3	13.5	67	n.	7	3.1		9 k	0	w.		0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.99	761.7	30.18	766.6	61	16.1	86	calm	0	0		4 c	0	w.		0	0	fair	John Healy.
Baltimore, Maryland	30.20	767.1	30.25	768.3	60	15.6	54	n.	6	2.7		0	6 ks		w.	inap.	inap.	fair	Robert Seyboth.
Barnegat, New Jersey	30.16	766.1	30.18	766.6	55.0	12.8	69	n.	7	3.1		0	5 k		w.	0	0	fair	Chas. F. Merritt.
Behring Island, Behring Sea	29.67	753.6	29.69	754.1	37.5	3.1		e.			2		10 ks			0	0	cloudy	Dr. L. Stejneger.
Bismarck, Dakota	28.21	716.5	29.99	761.7	42	5.6	67	n.	3	1.3		5 k	0	nw.		0	0	fair	Cyrus Cramer.
Boise City, Idaho	27.00	685.8	29.84	757.9	49	9.4	58	w.	2	0.9			10 s		calm	0	0	cloudy	B. E. Light.
Boston, Massachusetts	29.95	760.7	30.11	764.8	41.0	5.0	82	w.	6	2.7		0	fg.			0.60	15.2	clear	O. B. Cole.
Brownsville, Texas	29.92	760.0	29.96	761.0	73.5	23.1	100	e.	4	1.8		0	8 s		e.	0.16	4.1	cloudy	M. McCarty.
Buffalo, New York	29.49	749.0	30.23	767.8	44.8	7.1	54	w.	5	2.2		0	hz.			inap.	inap.	clear	Wm. Finn.
Burlington, Vermont	29.76	755.9	30.05	763.3	48.0	8.9	56	w.	5	2.2		0	0			0.32	8.1	clear	G. C. Schaeffer.
Cairo, Illinois	29.82	757.4	30.22	767.6	58.6	14.8	64	se.	8	3.6		4 ck	0	w.		0	0	fair	W. H. Ray.
Campo, California																			W. H. Clendenon.
Camp Thomas, Arizona	27.13	689.1	29.80	756.9	57	13.9	44	calm			0	0	0			0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.18	766.6	30.20	767.1	61	16.1	78	nw.	10	4.5		0	0			0	0	clear	J. E. Lanouette.
Cape May, New Jersey	30.14	765.5	30.18	766.6	58	14.4	69	n.	12	5.4			10 k		w.	0	0	cloudy	W. Bolten.
Cedar Keys, Florida	30.05	763.3	30.07	763.8	74	23.3	84	e.	12	5.4		1 ck	hz.			0	0	clear	F. W. Mixer.
Champaign, Illinois	29.40	746.7	30.20	767.1	47.2	8.4	74	se.	11	4.9			10 ks		sw.	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.09	764.3	30.14	765.5	67	19.4	90	ne.	7	3.1			10 s		ne.	0	0	threatening	J. H. Smith.
Charlotte, N. Carolina	29.30	744.2	30.14	765.5	62.0	16.7	55	ne.	6	2.7		0	0			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.37	746.0	30.18	766.6	58.0	14.4	74	calm	0	0		0	0			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.02	610.1	29.90	759.4	41.3	5.2	88	n.	8	3.6			10 n		n.	0.16	4.1	light rain	E. McGovern.
Chicago, Illinois	29.51	749.5	30.21	767.3	48.8	9.3	61	se.	6	2.7		4 c	0	w.		inap.	inap.	fair	J. Mitchell.
Chincoteague, Virginia	30.16	766.1	30.18	766.6	60	15.6	87	n.	15	6.7		0	0			0	0	clear	V. P. Temple.
Cincinnati, Ohio	29.63	752.6	30.28	769.1	50.3	10.2	85	e.	4	1.8		3 cs	0	se.		0	0	clear	R. B. Watkins.
Cleveland, Ohio	29.54	750.3	30.27	768.8	46.8	8.2	74	n.	2	0.9		0	0			0	0	clear	J. B. Newlin.
Coleman City, Texas	28.18	715.8	29.97	761.2	65	18.3	90	se.	16	7.2		8 cs	0	se.		0	0	cloudy	L. Dorman.
Columbus, Ohio	29.42	747.3	30.26	768.6	47	8.3	63	nw.	2	0.9		0	0			0	0	clear	D. Cuthbertson.
Concho, Texas	28.03	711.9	29.93	760.2	65	18.3	73	calm	0	0		0	4 s		ne.	0	0	fair	W. W. McConihe.
Davenport, Iowa	29.52	749.8	30.16	766.1	49	9.4	71	se.	4	1.8		10 cs	fg.	calm	calm	0	0	cloudy	R. R. Martin.
Dayton, Washington T'y	28.10	713.7	29.84	757.9	45.2	7.3	73	e.	2	0.9		2 c	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.40	645.1	29.91	759.7	41	5.0	86	sw.	2	0.9		0	0			0	0	clear	G. W. Scott.
Decatur, Texas																			D. J. Carr.
Delaware Breakwater, Del.	30.17	766.3	30.19	766.8	58	14.4	74	n.	12	5.4		8 ck	hz.	w.		0	0	cloudy	A. Schneider.
Denison, Texas	29.26	743.2	30.05	763.3	60.3	15.7	81	se.	4	1.8		10 c	0			0	0	cloudy	J. McGlone.
Denver, Colorado	24.72	627.9	29.88	758.9	44.0	6.7	80	s.	3	1.3		0	4 s		sw.	0	0	fair	F. M. Neal.
Des Moines, Iowa	29.26	743.2	30.15	765.8	49	9.4	86	sw.	3	1.3			10 n		sw.	0.02	0.5	heavy rain	F. W. Conrad.
Detroit, Michigan	29.55	750.6	30.25	768.3	44.0	6.7	68	w.	5	2.2		0	hz.			0	0	clear	C. F. R. Wappenhans.
Dodge City, Kansas																inap.	inap.		E. A. Thomas.
Dubuque, Iowa	29.47	748.5	30.17	766.3	47.8	8.8	74	calm	0	0			10 s		s.	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.40	746.7	30.10	764.5	38	3.3	82	ne.	1	0.4			10 s		calm	0.02	0.5	cloudy	N. B. Conger.
Eagle Pass, Texas	29.22	742.2	30.02	762.5	65.2	18.4	93	e.	2	0.9			10 s		s.	1.11	28.2	cloudy	F. Belford.
Eagle Rock, Idaho	25.20	640.1	29.88	758.9	38	3.3	58	n.	12	5.4		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.94	760.5	30.02	762.5	39	3.9	94	e.	19	8.5			10 n		e.	0.71	18.0	light rain	J. H. Melton.
El Paso, Texas	26.20	665.5	29.84	757.9	55	12.8	74	ne.	1	0.4		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.53	750.0	30.25	768.3	47	8.3	77	calm	0	0		0	0			0	0	clear	R. H. Paxton.
Escanaba, Michigan	29.47	748.5	30.13	765.3	43	6.1	83	se.	6	2.7			10 s		s.	inap.	inap.	cloudy	C. Dill.
Fort Apache, Arizona	25.01	635.2	29.83	757.7	38	3.3	58	ne.	3	1.3		0	0			0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.13	689.1	29.97	761.2	38	3.3	72	sw.	15	6.7		0	0			0	0	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.35	720.1	29.91	759.7	48.0	8.9	86	se.	11	4.9		4 c	5 s	calm	calm	0	0	cloudy	A. Pritchard.
Fort Benton, Montana	27.17	690.1	29.96	761.0	37	2.8	92	calm	0	0		0	0			0	0	clear	G. W. Davis.
Fort Buford, Dakota	28.00	711.2	29.98	761.5	40	4.4	59	s.	1	0.4		0	0			0	0	clear	A. H. Bell.
Fort Custer, Montana	26.87	682.5	29.97	761.2	39	3.9	92	se.	4	1.8		0	0			0	0	clear	V. Verge.
Fort Davis, Texas	25.12	638.0	29.84	757.9	56	13.3	67	e.	3	1.3		0	0			inap.	inap.	clear	J. Williams.
Fort Elliott, Texas	27.19	690.6	29.89	759.2	58	14.4	60	se.	8	3.6		0	0			0	0	clear	W. J. Cundall.
Fort Gibson, Indian T'y																			J. B. Campbell.
Fort Grant, Arizona	25.20	640.1	29.81	757.2	58	14.4	35	e.	6	2.7		0	0			0	0	clear	T. J. Mackowan.
Fort Keogh, Montana	27.48	698.0	29.93	760.2	37	2.8	82	ne.	2	0.9		0	0			0	0	clear	W. B. Stockman.
Fort Macon, North Carolina	30.15	765.8	30.16	766.1	63	17.2	73	ne.	10	4.5		hz.	0			inap.	inap.	clear	L. Leonardy.
Fort McKavett, Texas	27.71	703.8	29.95	760.7	67	19.4	84	sw.	3	1.3			10 s			0	0	cloudy	J. E. Thatcher.
Fort Missoula, Montana	26.69	677.9	29.99	761.7	40	4.4	92	sw.	3	1.3		0	0			0	0	clear	J. H. Jones.
Fort St. Michaels, Alaska	29.83	757.7	29.86	758.4	39	3.9	91	calm	0	0			10 ks			0	0	cloudy	A. P. Leavitt.
Fort Shaw, Montana	26.35	669.3	29.95	760.7	35	1.7	82	w.	7	3.1		0	0			0	0	clear	A. L. Mathews.
Fort Sill, Indian Territory	28.77	730.7	29.99	761.7	62.5	16.9	82	s.	9	4.0		3 c	0	w.		0.15	3.8	clear	T. Cleary.
Fort Stevenson, Dakota	28.14	714.7	29.97	761.2	42	5.6	82	calm	0	0		0	2 ks			0	0	clear	W. Burrows.
Fort Verde, Arizona					51.9	11.1	33	nw.			1	0	0			0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.51	622.5			41.2	5.1	88	se.	3	1.3			10 k			0	0	cloudy	T. M. Ambler.
Fredericksburg, Texas	28.23	717.0	29.95	760.7	63	17.2	93	s.	10	4.5			10 ks		sw.	0	0	cloudy	H. S. Miles.
Galveston, Texas	30.00	762.0	30.05	763.3	73	22.8	76	se.	8	3.6		3 c	7 ks		se.	0	0	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.56	750.8	30.22	767.6	51.5	10.8	59	s.	10	4.5		7 cs	0	sw.		0	0	fair	W. A. Reid.
Hatteras, North Carolina	30.15	765.8	30.17	766.3	62	16.7	68	ne.	14	6.3		0	hz.			0	0	clear	R. M. Crawford.
Helena, Montana	25.79	655.1	29.96	761.0	40	4.4	59	calm	0	0		0	0			0	0	clear	S. Wheaton.
Henrietta, Texas	29.05	737.9	30.03	762.7	70.0	21.1	61	se.	6	2.7		0	0			0	0	clear	J. W. Byram.
Huron, Dakota	28.67	728.2	30.02	762.5	47	8.3	77	s.	11	4.9			10 s		sw.	inap.	inap.	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.40	748.3	30.25	768.3	45	7.2	80	se.	4	1.8		3 k	fg.	w.	calm	0	0	fair	O. Schutze
Indianola, Texas	30.00	762.0	30.04	763.0	73.5	23.1	82	e.	9	4.0		4 ck	0	w.		0	0	fair	I. A. Reed.
Jacksboro, Texas	28.83	732.3	29.98	761.5	65	18.3	90	s.	7	3.1		10 cs	0	sw.		0	0	cloudy	J. P. Sherry.
Jacksonville, Florida	30.06	763.5	30.10	764.5	74	23.3	84	ne.	6	2.7			10 s		ne.	0.03	0.8	cloudy	J. W. Smith.
Keokuk, Iowa	29.50	749.3	30.15	765.8	49.0	9.4	83	e.	6	2.7			10 s		e.	0	0	cloudy	F. Z. Gosewisch.
Key West, Florida	30.00	762.0	30.02	762.5	78.2	25.7	77	e.	5	2.2			10 s			0.04	1.0	cloudy	L. M. Melbourne.
Kittyhawk, North Carolina	30.19	766.8	30.21	767.3	58	14.4	87	n.	10	4.5		hz.	0			0	0	dense haze	E. A. Beals.
Knoxville, Tennessee	29.18	741.2	30.20	767.1	56	13.3	74	ne.	4	1.8		0	0			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.38	746.2	30.14	765.5	46	7.8	68	s.	3	1.3			10 s			0	0	cloudy	S. C. Emery.
La Mesilla, New Mexico	26.03	661.2	29.79	756.7	52.8	11.6	50	calm	0	0		4 c	0	sw.		0	0	fair	N. D. Lane.
Leavenworth, Kansas	29.17	740.9	30.05	763.3	53	11.7	93	e.	1	0.4			10 n		e.	0.12	3.0	light rain	A. W. Browne.
Lewiston, Idaho	29.03	737.3	29.87	758.7	47.0	8.3	68	calm	0	0		0	0			0	0	clear	J. M. Burlew.
Little Rock, Arkansas	29.82	757.4	30.13	765.3	58	14.4	86	e.	1	0.4		3 c	0	calm		0	0	clear	W. U. Simmons.
Los Angeles, California	29.58	751.3	29.98	761.5	56.1	13.4	86	se.	4	1.8			10 s		calm	inap.	inap.	cloudy	E. F. Kubel.
Louisville, Kentucky	29.67	753.6	30.22	767.6	51	10.6	72	ne.	6	2.7		2 cs	sk.			0	0	clear	H. C. Smyth.
Lynchburg, Virginia	29.53	750.0	30.21	767.3	62.0	16.7	60	calm	0	0		0	0			0	0	clear	W. R. Bushby.
Madison, Wisconsin	29.18	741.2	30.18	766.6	45	7.2	76	s.	7	3.1			10 s		w.	0	0	cloudy	C. A. Shaw.
Marquette, Michigan	29.40	746.7	30.12	765.0	41	5.0	73	s.	1	0.4			10 n		sw.	0.02	0.5	light rain	J. Gilligan.
Memphis, Tennessee	29.84	757.9	30.16	766.1	61	16.1	65	e.	4	1.8		0	0			0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.45	748.0	30.19	766.8	47	8.3	63	sw.	10	4.5		3 ck	7 s	sw.		0	0	cloudy	W. Line.
Mobile, Alabama	30.06	763.5	30.10	764.5	61.5	16.4	81	ne.	4	1.8		1 c	0	nw.		0	0	clear	J. D. Paxton.

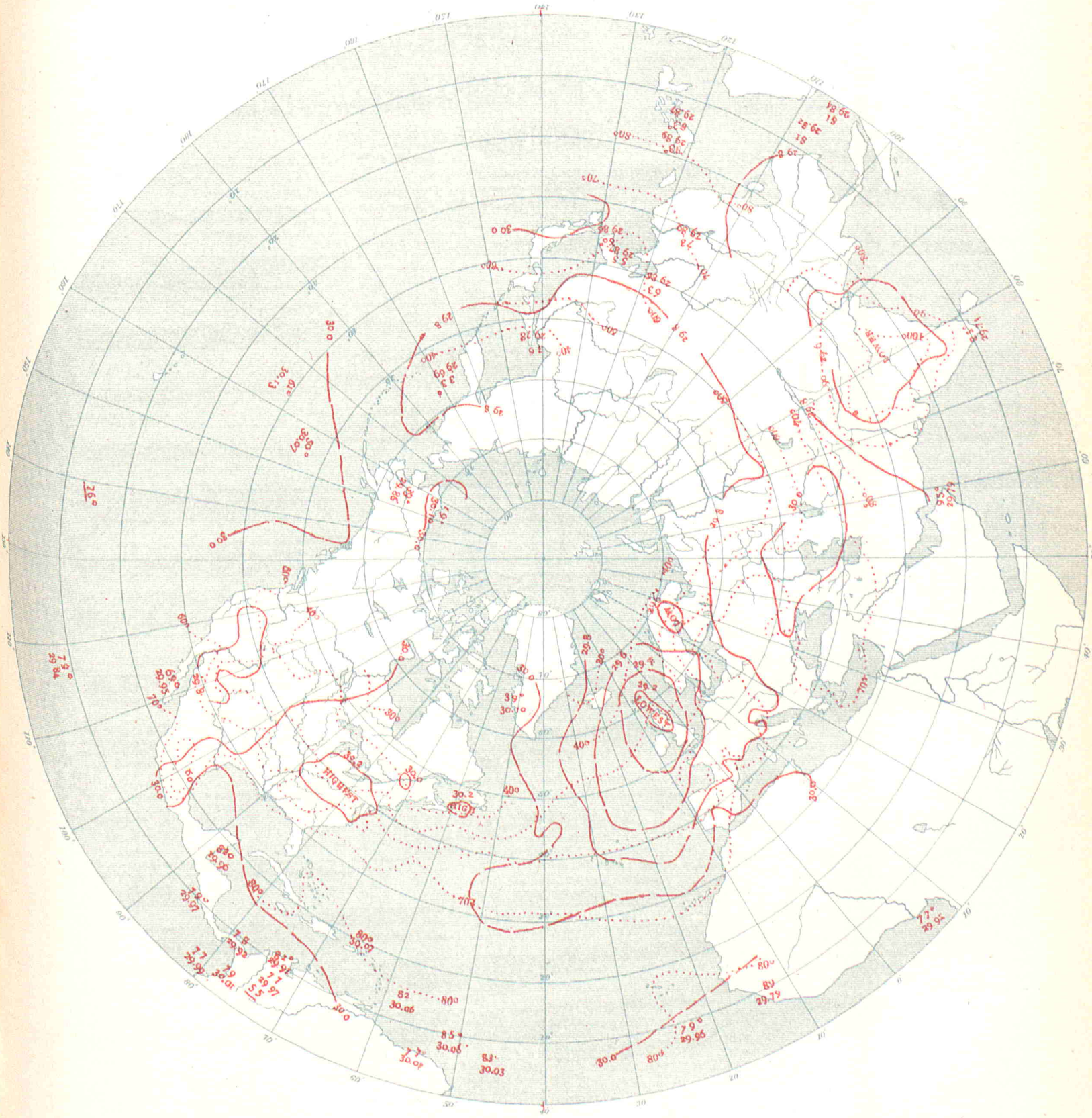
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Montgomery, Alabama	29.90	759.4	30.13	765.3	60	15.6	70	e.	3	1.3		1 c	0	w.		0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	29.04	737.6	30.02	762.5	44	6.7	83	w.	4	1.8		0	0			0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.25	742.9	30.26	768.6	53.5	11.9	77	calm	0	0		hz.	0			0	0	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.68	601.5	29.86	758.4	23.0	— 5.0	78	nw.	44	19.7			fg.		nw.	0.87	22.1	dense fog	J. G. Linsley.
Nashville, Tennessee	29.67	753.6	30.20	767.1	55.5	13.1	77	n.	1	0.4		0	fg.			0	0	clear	L. A. Jesunofsky.
New Haven, Connecticut	30.04	763.0	30.16	766.1	52	11.1	66	nw	5	2.2		2 k	sk.	w.		0.18	4.6	clear	J. H. Sherman.
New London, Connecticut	30.12	765.0	30.17	766.3	56	13.3	74	w.	7	3.1		1 k	0	sw.		0.29	7.4	clear	J. G. Lynch.
New Orleans, Louisiana	30.02	762.5	30.07	763.8	65.3	18.5	63	ne.	8	3.6		1 c	0			0	0	clear	L. Dunne.
Newport, Rhode Island	30.06	763.5	30.11	764.8	52.2	11.2	61	w.	15	6.7		1 ck	0	nw.		0.62	15.7	clear	W. McGillivray.
New River, N. Carolina					65	18.3	58	n.			1	0	0			0	0	clear	C. C. Corbin.
New Shoreham, Rhode I'd.	30.12	765.0	30.15	765.8	52.0	11.1	80	w.	8	3.6		0	0			0.45	11.4	clear	W. Davis.
New York, New York	30.02	762.5	30.20	767.1	56	13.3	62	nw.	5	2.2		0	0			0	0	clear	E. B. Garriott.
Norfolk, Virginia	30.18	766.6	30.21	757.3	66	18.9	68	nw.	4	1.8		0	hz.			0	0	clear	J. T. Elker.
North Platte, Nebraska	27.10	688.3	29.97	761.2	47.6	8.7	93	ne.	12	5.4			10 n			0.19	4.8	light rain	E. F. Brady.
Olympia, Washington T'y	29.85	758.2	29.89	759.2	46.0	7.8	83	calm	0	0		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	28.96	735.6	30.12	765.0	49.0	9.4	86	calm	0	0			10n;fg		ne.	inap.	inap.	light rain	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.08	764.0	30.10	764.5	18.5	— 7.5	100	ene.	21	9.4			10 s			0	0	cloudy	P. H. Ray.
Oswego, New York	29.84	757.9	30.17	766.3	43.8	6.6	74	w.	12	5.4		5 k	0	w.		0	0	fair	S. W. Beall.
Palestine, Texas	29.58	751.3	30.14	765.5	61	16.1	84	e.	1	0.4		hz.	0			0	0	clear	L. M. Pindell.
Pensacola, Florida	30.06	763.5	30.09	764.3	68.3	20.2	70	n.	5	2.2		0	0			0	0	clear	M. McGauran.
Philadelphia, Pa.	30.12	765.0	30.22	767.6	59	15.0	48	n.	8	3.6		0	hz.			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.77	451.3	29.83	757.7	21	— 6.1	61	sw.	28	12.5		2 cs	1 s		sw.	0	0	clear	L. M. Dey.
Plocha, Nevada	23.87	606.3	29.79	756.7	54	12.2	33	se.	13	5.8		3 c	0	calm		0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.44	747.8	30.24	768.1	48.6	9.2	68	n.	3	1.3		0	0			inap.	inap.	clear	J. H. Bryce.
Poplar River, Montana	27.87	707.9						sw.			1	0	0			0	0	clear	U. D. Maxwell.
Port Eads, Louisiana	30.06	763.5	30.07	763.8	71.1	21.7	87	e.	14	6.3		0	4 k		e	0	0	fair	H. G. Christian.
Port Huron, Michigan	29.54	750.3	30.22	767.6	45.6	7.6	60	w.	4	1.8		0	0			0	0	clear	W. O. Bailey.
Portland, Maine	30.01	762.2	30.06	763.5	46.0	7.8	76	w.	4	1.8		7 k	0	w.		0.48	12.2	fair	D. C. Murphy.
Portland, Oregon	29.82	757.4	29.89	759.2	50.0	10.0	86	calm	0	0		0	1 s		calm	0	0	clear	M. L. Hearne.
Portsmouth, N. Carolina					67	19.4	68	ne.	16	7.2		0	0			0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.68	626.9	29.78	756.4	49	9.4	32	s.	4	1.8		0	0			0	0	clear	J. McN. Wright.
Provincetown, Mass.	30.07	763.8	30.10	764.5	45	7.2	83	sw.	4	1.8		0	2 s			0.69	17.5	clear	P. T. Jenkins.
Punta Rassa, Florida	30.03	762.7	30.04	763.0	73	22.8	83	ne.	5	2.2		10cs; ck	0	calm		inap.	inap.	cloudy	W. J. Evans.
Red Bluff, California	29.45	748.0	29.82	757.4	57.8	14.3	75	calm	0	0		1 ck	4 s	s.		0	0	fair	J. M. Frantz.
Rio Grande City, Texas	29.76	755.9	30.00	762.0	74	23.3	90	se.	4	1.8			10 s		se.	0.16	4.1	cloudy	P. M. Wilson.
Rochester, New York	29.53	750.0	30.19	766.8	44	6.7	60	nw.	12	5.4		1 cs	sk.			0	0	clear	F. Gillam.
Roseburg, Oregon	29.35	745.5	29.90	759.4	47.4	8.6	89	calm	0	0			10s;fg		sw.	0.05	1.3	cloudy	J. J. Nanry.
Sacramento, California	29.76	755.9	29.84	757.9	55.8	13.2	74	se.	2	0.9			8 s		s.	0	0	cloudy	J. A. Barwick.
St. Louis, Missouri	29.58	751.3	30.17	766.3	53.0	11.7	90	se.	10	4.5			10 s			inap.	inap.	cloudy	J. H. Webber.
St. Paul, Minnesota	29.22	742.2	30.07	763.8	45.0	7.2	76	calm	0	0			10 s		nw.	0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.10	739.1	29.96	761.0	43	6.1	83	s.	5	2.2		4 ck	0	nw.		0	0	fair	G. Kingsbury.
Salt Lake City, Utah	25.45	646.4	29.77	756.1	57	13.9	37	se.	5	2.2			10 s			inap.	inap.	cloudy	J. Craig.
San Antonio, Texas	29.32	744.7	30.02	762.5	67	19.4	90	e.	3	1.3			10 n		calm	inap.	inap.	light rain	E. Lane.
San Diego, California	29.89	759.2	29.96	761.0	57.7	14.3	70	w.	5	2.2			10 s		sw.	0.06	1.5	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.59	751.6	30.26	768.6	46.8	8.2	68	sw.	4	1.8		0	0			0	0	clear	M. H. Perry.
Sandy Hook, New Jersey	30.15	765.8	30.19	766.8	55.0	12.8	62	n.	11	4.9		0	0			0	0	clear	B. A. Blundon.
San Francisco, California	29.81	757.2	29.88	758.9	55	12.8	93	s.	5	2.2			10 s		sw.	0.03	0.8	threatening	N. Gorom.
Santa Fé, New Mexico	23.20	589.3	29.81	757.2	52	11.1	55	e.	6	2.7		7 c	0	sw.		0	0	fair	H. U. Jones.
Savannah, Georgia	30.05	763.3	30.14	765.5	65	18.3	87	e.	3	1.3		0	fg.			0	0	clear	H. W. Ford.
Shreveport, Louisiana	29.88	758.9	30.12	765.0	60	15.6	81	ne.	2	0.9		3 cs	0			0	0	clear	E. N. Meekins.
Silver City, New Mexico	24.24	615.7	29.79	756.7	49	9.4	59	nw.	1	0.4		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	29.96	761.0	30.02	762.5	47.1	8.4	68	nw.	2	0.9			10 ks		nw.	0	0	cloudy	J. J. McLean.
Smithville, North Carolina	30.12	765.0	30.16	766.1	66	18.9	78	e.	7	3.1		1 c	0			0.01	0.3	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.88	708.1	29.93	760.2	44	6.7	86	calm	0	0		0	0			0	0	clear	D. Moore.
Springfield, Illinois	29.52	749.8	30.19	766.8	52	11.1	66	se.	8	3.6		1 c	6 s	n.	w.	0	0	fair	T. B. Jennings.
Springfield, Massachusetts	30.00	762.0	30.13	765.3	55.8	13.2	57	n.	1	0.4		1 k	0			0.28	7.1	clear	T. S. Outram.
Springfield, Mo.	28.66	728.0	30.14	765.5	57	13.9	77	se.	11	4.9		0	8 ks		w.	inap.	inap.	cloudy	J. B. Marbury.
Starkville, Miss.	29.69	754.1			58.1	14.5	80	ne.	5	2.2		1 cs	0			0	0	clear	M. J. Wright.
Stockton, Texas	26.92	683.8	29.93	760.2	62.0	16.7	93	s.	16	7.2		0	0			0.10	2.5	clear	J. O'Dowd.
Thatcher's Island, Mass.	30.04	763.0	30.09	764.3	47.5	8.6	81	sw.	7	3.1		0	0			0.73	18.5	clear	F. R. Day.
Toledo, Ohio	29.55	750.6	30.23	767.8	48	8.9	50	w.	3	1.3		0	0			0	0	clear	A. Buell.
Tucson, Arizona	27.45	697.2	29.79	756.7	58	14.4	39	se.	6	2.7		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.50	749.3	29.87	758.7	46	7.8	63	se.	2	0.9		5 c	0			0	0	fair	J. Daly.
Uvalde, Texas	29.02	737.1	29.97	761.2	62	16.7	100	sw.	2	0.9		8 cs	2 s	sw.		1.85	47.0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.88	758.9	30.13	765.3	63	17.2	68	calm	0	0		2 c	0			0	0	clear	H. T. Brisbane.
Visalia, California	29.50	749.3	29.87	758.7	61	16.1	60	nw.	3	1.3		0	3 s		nw.	0	0	clear	W. L. Seward.
Washington, D. C.	30.13	765.3	30.24	768.1	58.5	14.7	61	nw.	3	1.3			9 k		nw.	0	0	cloudy	B. M. Purssell.
West Las Animas, Colorado	26.01	660.6	29.87	758.7	48	8.9	89	nw.	6	2.7			10 s		calm	0	0	cloudy	J. Grover.
Williamsport, Pa.	29.63	752.6	30.23	767.8	51.5	10.8	51	nw.	2	0.9		0	0			0	0	clear	B. F. Hough.
Wilmington, N. Carolina	30.10	764.5	30.15	765.8	65	18.3	68	e.	7	3.1		0	0			inap.	inap.	clear	A. T. Sherwood.
Winnemucca, Nevada	25.36	644.1	29.71	754.6	52	11.1	59	s.	10	4.5			10 ks		sw.	0	0	cloudy	J. R. Williams.
Yankton, Dakota	28.81	731.8	30.09	764.3	48	8.9	77	sw.	3	1.3			10 s			0	0	cloudy	J. H. Atfield.
Yuma, Arizona	29.62	752.3	29.77	756.1	68.3	20.2	66	se.	6	2.7		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.05	560.1			55.0	12.8	72	w.	4	1.8			9 s		w.	0.02	0.5	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.05	763.3	30.06	763.5	82	27.8	91	ne.				10 ck	5 ks			0.80	20.3		J. A. Racker.
Buenaventura, U. S. C.	29.98	761.5	30.01	762.2	79	26.1	86	calm	0	0			10 ks		s.	0.30	7.6	cloudy	J. I. Plume.
Havana, Cuba, W. I.	29.98	761.5	30.04	763.0	78	25.6	82	calm	0	0			10 ks		calm	0.70	17.8	cloudy	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.02	762.5	30.03	762.7	80.0	26.7	71	calm	0	0		2 cs	0	w.		0	0	fair	Robert Johnston.
Magua, San Domingo, W. I.					74	23.3		calm			0	2 s	0	n.		0	0		S. M. Pike.
Navassa, W. I.																			F. M. Everett.
Paramaribo, S. A.	30.07	763.8	30.07	763.8	77	25.0	91	e.			3		10 n	e.	e.	0.180	4.6	rainy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.51	749.5	29.97	761.2	77	25.0	89	calm			0		10 s		calm	0	0	foggy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							99	se.			1	4 cs	0	se.		1.42	36.1	fair	Earl Flint.
Santiago de Cuba, W. I.	30.00	762.0	30.02	762.5	79	26.1	82	calm	0	0		4 c	2 s			0	0	cloudy	Robert Mason.
York Factory, B. A.	29.94	760.5	29.99	761.7	24.0	— 4.4	94	s.	11	4.9		0	0			0	0	clear	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.						Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.		Rainfall or melted snow in the past 24 hours.		Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Alert, S. 19° 12′, E. 42° 05′	30.14	765.5	81.5	27.5	68	sse.			1		2							d. clouds.
H. M. S. Alexandra, Suda Bay, Turkey in Europe	30.02	762.5	68	20.0	60	w.			2		2							d. clouds.
H. M. S. Amethyst, N. 8°23′ W. 25° 10′	29.96	761.0	78.5	25.8	98	ne.			1		6	ene.				3	ese.	misty.
H. M. S. S. S. Champion, N. 14° 50′ W. 139° 00′			76	24.4	?	n.			4		6	e.				2	ne.	d. clouds.
H. M. S. Comus, N. 4° 40′ E. 106° 27′	29.82	757.4	80.5	26.9	91	nne.			1–2		5							showery.
H. M. S. Coquette, N. 35° 29′, E. 25° 32′	30.02	762.5	65	18.3		wnw.			2		0					4	nw.	blue sky.
H. M. S. Diamond, S. 32° 17′, E. 155° 18′	29.85	758.2	69.5	20.8	90	n.			4-6		10	nnw.				2	ene.	raining.
H. M. S. Dido, N. 13° 05′, W. 59° 30′	30.10	764.5	82	27.8		e.			1–2		3	e.						d. clouds.
H. M. Dock Yard, Bermuda, W. I.	30.10	764.5	72.5	22.5	73	calm			0		3	calm						d. clouds.
H. M. S. Druid, N. 17° 29′, W. 88° 11′	29.96	761.0	82	27.8	86	ese.			2		2	ese.						d. clouds.
H. M. S. Dwarf, S. 31° 36′, W. 60° 12′	29.99	761.7	60.5	15.8	94	se.			3		10					2–3	s.	misty.
H. M. S. Eclipse, S 23° 35′, E. 43° 44′	30.04	763.0	79	26.1		wsw.			1		3							d. clouds.
H. M. S. Emerald, S. 52° 35′, W. 127° 20′	29.59	751.6	45	7.2	100	nw.			4–5		5	nw.				4	nw.	squally.
H. M. S. Espiegle, S. 33° 17′, E. 155° 33′	29.82	757.4	67	19.4	90	n.			6–7		10					8	ne	heavy rain.
H. M. S. Euryalus, N 7° 30′ E. 79° 00′	29.71	754.6	83	28.3	95	w.			4–5		9	calm				5	w.	squally.
H. M. S. Fantome, Savanilla, U. S. C.	29.91	759.7	82	27.8		ne.			2		4	ne.						d. clouds.
H. M. S. Flying Fish, N. 37° 52′, E. 124° 35′	29.87	758.7	55	12.8	90	ese.			1		10					3	s.	misty.
H. M. S. Fawn, S. 4° 59′, E. 69° 12′	29.77	756.1	79.5	26.4	82	se.			3		10					2	se.	overcast.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.08	764.0	52	11.1	86	e.			1		3							d. clouds.
H. M. S. Garnet, Colonia, Uruguay	30.16	766.1	56	13.3	93	ese.			3		8							d. clouds.
H. M. S. Griffon, Saint John, Newfoundland	30.36	771.1	45	7.2	92	n.			1									misty.
H. M. S. Inconstant, S. 23° 00′, E. 3° 15′	30.26	768.6	66	18.9	100	ese.			5		8	ese.				4	ese.	d. clouds.
H. M. S. Iron Duke, N. 32° 44′, E. 129° 52′	30.05	763.3	69	20.6	95	calm			0		4							d. clouds.
H. M. S. Kingfisher, N. 3° 37′ W. 79° 50′	29.99	761.7	77	25.0		wsw.			2–3		4	w.				*1	w.	d. clouds.
H. M. S. Lark, S. 8° 28′, E. 156° 19′	29.88	758.9	79.3	26.3		se.			2		10					3	se.	heavy rain.
H. M. S. Magpie, N. 35° 18′, E. 139° 39′	30.02	762.5	68.4	20.2	79	ssw.			1		0							blue sky.
H. M. S. Northampton, Halifax, Nova Scotia	30.00	762.0	43.5	6.4	96	ese.			4-6									raining.
H. M. S. Pegasus, N. 1° 17′, E. 103° 51′	29.84	757.9	80.5	26.9	?	n.			1		6	n.						d. clouds.
H. M. S. Phœnix, N. 18° 28′, W. 76° 33′	30.01	762.2	79	26.1	90	calm			0		8					2	e.	d. clouds.
H. M. S. Rambler, St. Thomas Island, Gulf of Guinea	29.94	760.5	77	25.0	?	sse.			3		6	sse.				3	sse.	d. clouds.
H. M. S. Rocket, N. 48° 27′ W. 123° 27′	29.85	758.2	49	9.4	93	calm			0		1							blue sky.
H. M. S. Sylvia, N. 16° 42′, W. 26° 11′	30.06	763.5	72	22.2	85	nne.			3		7					2	nne.	d. clouds.
H. M. S. Swiftsure, Vigo Bay, Spain	29.67	753.6	61	16.1	70	ssw.			5		8	ssw.					ssw.	showery.
H. M. S. Tenedos, N. 47° 32′ W. 52° 37′	30.29	769.4	37	2.8	90	n.			1		10					3	ne.	misty.
H. M. S. Triumph, Coquimbo, Chili	30.09	764.3	60	15.6	55	var.			1		2	s.						d. clouds.
H. M. S. Woodlark, Ras el Had, Arabia	29.69	754.1	94.5	34.7	36	ene.			1		0					3	s.	misty.
PORTUGUESE NAVAL.																		
Rio Lima, Porto Praya, Cape Verd Island	30.05	763.2	84.9	29.4	68	ne.			1							1		d. clouds.
Tamega, Hong Kong, China	29.82	757.5	82.4	28.0	85	ssw.			4		5							d. clouds.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	30.03	762.7	68	20.0	70	n.	7	3.1			2		n.	0	0			fair.
Navy Yard, Portsmouth, N. H.	30.08	764.0	45	7.2	84	nw.	2	0.9			2		nw.	1.00	25.4			clear.
Naval Hospital, Yokohama, Japan	29.83	757.7	66	18.9	79	sw.			2		0			0	0			clear.
Adams, Mare Island, Cal	29.64	752.8	58	14.4	94	sw.			1–2		8					sm'h		cloudy.
Alaska, Callao, Peru	29.94	760.5	62	16.7	94	calm			0		5			0	0	sm'h		fair.
Alert, Kobe, Japan*	29.90	759.4	71	21.7	62	wnw.			1		2		wsw.	0	0	sm'h		hazy.
Alliance, N. 36° 51′ W. 74° 10′	30.19	766.8	56	13.3	87	n.			1		0		light	light		sm'h		clear.
Ashuelot, Kobe, Japan	30.03	762.7	69	20.6	75	wnw.			1		2		calm					clear.
Brooklyn, Montevideo, Uruguay	30.15	765.8	57	13.9	87	ese.	8	3.6			2		calm	0	0	sm'h		fair.
Colorado, New York, N. Y.	30.17	766.3	56	13.3	63	nw.	12	5.4			2		w.	0	0			light haze.
Essex, Montevideo, Uruguay	30.14	765.5	57	13.9	81	se.			3		2		se.			sm'h		clear.
Franklin, Norfolk, Va.	30.21	767.3	61	16.1	82	nnw.	4	1.8			0			0	0			clear.
Galena, Mazighan, Morocco	30.09	764.3	69	20.6	90	wnw.			1		2					long	wnw.	hazy.
Independence, Mare Island, Cal	29.76	755.9	56	13.3	100	sw.			3		10		sw.	0	0			cloudy.
Iroquois, San Francisco, Cal	29.89	759.2	60	15.6	76	sw.			2		10							cloudy.
Kearsage, N. 36° 52′ W. 74° 09′	30.18	766.6	57	13.9	94	calm			0		0					sm'h		clear.
Lackawanna, Panama, Panama*	29.92	760.0	78	25.6	91	nw.			2		5?		w.	0	0			cloudy.?
Lancaster, N. 33° 18′, W. 8° 25′*	30.04	763.0	68	20.0	90	nw.			3		2		nw.	0	0	long	w.	fair.
Marion, S. 34° 54′, W. 56° 13′	30.10	764.5	57	13.9	100	se.			3		2		calm			sm'h		fair.
Michigan, Erie, Pa	30.23	767.8	47	8.3	92	w.			1		0							clear.
Minnesota, Newport, R. I.	30.09	764.3	53	11.7	67	wnw.	10	4.5			10		wnw.					
Monocacy, Nagasaki, Japan	30.06	763.5	67	19.4	84	calm			0		5		calm					fair.
New Hampshire, Newport, R. I.	30.05	763.3	57	13.9	94	nw.			3		2		nw.			sm'h		clear.
Nipsic, Mazighan, Morocco	30.08	764.0	69	20.6	75	nw.			3		2					long	nnw.	clear.
Onward, Callao, Peru†	30.14	765.5	61	16.1	100	calm			0		10		n.			long	w.	misty.
Palos, Kobe, Japan	30.06	763.5	68	20.0	70	w.			1		8		calm					fair.
Passaic, Washington, D. C.	30.26	768.6	60	15.6	100	nw.			1		8							fair.
Pensacola, Callao, Peru	30.02	762.5	61	16.1	94	w.	2	0.9			10			0	0	sm'h		cloudy.
Portsmouth, Plymouth, Eng*†	29.64	752.8	57	13.9	100	sw.			4		8		sw.			sm'h		fair.
Powhatan, Norfolk, Va.	30.19	766.8	60	15.6	82	nnw.			1		2							clear.
Quinnebaug, N. 33° 18′, W. 8° 22′	30.04	763.0	68	20.0	79	w.			4		0					long	w.	clear.
Ranger, Mazatlan, Mexico*	29.91	759.7	75	23.9	90	se.			1		5		calm	0	0	light	se.	fair.
Richmond, Kobe, Japan*	30.00	762.0	70	21.1	70	calm			0		0			0	0			clear.
Saratoga, Plymouth, Eng.	29.40	746.7	59	15.0	70	sw.			4		8		sw.	0	0	sm'h		fair.
Shenandoah, Boston, Mass*	30.17	766.3	56	13.3	51	wsw.			1		2							hazy.
St. Louis, League Island, Pa.	30.42	772.7	57	13.9	63	n.	7	3.1			2		n.	0	0			clear.
Swatara, N. 36° 12′ E. 125° 10′*	29.76	755.9	60	15.6	82	s.			3		5		s.			mod.	s.	fair.
Tennessee, N. 36° 52′, W. 74° 07′	30.21	767.3	55	12.8	80	nw.	11	4.9			0			0.11	2.8	sm'h		clear.
Vandalia, N. 36° 59′ W. 74° 09′*†	30.39	771.9	54	12.2	93	calm			0							sm'h		hazy.
Wabash, Boston, Mass.	30.12	765.0	44	6.7	84	wnw.	4	1.8			0			0.74	18.8			foggy.
Wachusetts, Fort Wrangle, Alaska	29.87	758.7	45	7.2	92	calm			0		5		calm	0	0	sm'h		fair.
Wyoming, Port Royal, S. C.	30.12	765.0	64	17.8	100	ne.	6	2.7			10		calm	0	0			foggy.
Yantic, N. 37° 01′, W. 74° 05′*	30.15	765.8	55	12.8	93	calm			0		2					sm'h		clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Prussian, N. 42° 58′, W. 64° 20′*	30.03	762.7	44	6.7		ese.			4		3		e.	8 h'r	8 h'r	sm'h		misty.
S. S. Waldensian, N. 42° 20′, W. 65° 56′*	30.17	766.3	41	5.0		wnw.			6		fg		wnw.	o	o	mod.	ne.	dense fog.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, N. 40° 20′, W. 51° 33′	30.05	763.3	61	16.1	94	ene.			5		8		ne.			mod.	ene.	
S. S. Indiana, Philadelphia, Pa†	30.27	768.8	58	14.4	93	w.			3		2		w.	o	o	sm'h	w.	fine.
S. S. Lord Clive, N. 41° 55′. W. 48° 22′*	29.98	761.5				ne.			4		8		ne.	o	o	mod.	ne.	cloudy.
S. S. Ohio, Liverpool, Engt	29.30	744.2	57	13.9	93	sw			2		6		sw.					
ANCHOR LINE.																		
S. S. Bolivia, N. 40° 38′, W. 71° 30′†	29.97	761.2	59	15.0		w.			4					o	o	sm'h		clear.
S. S. India, N. 13° 00′, E. 47° 06′*	29.73	755.1	92	33.3	92	sw.			1		2					sm'h		fair.
S. S. Utopia, Alicante, Spain†	30.00	763.5	70	21.1	71	sse.			3		4		s.	o	o			fair.
ATLAS LINE.																		
S. S. Alvo, Gonaives, Hayti, W. I.	30.06	763.5	100?	37.8?							3			1 h'r	1 h'r			
S. S. Athos, Kingston, Jamaica, W. I.	29.42	747.3																
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, N. 42° 26′, W. 63° 33′			45	7.2	100	ese.			4					rain	rain			raining.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S 40° 04′, E. 22° 11′	30.30	769.6	60	15.6	82	w.			6		7							showery.
British Merchant, S. 20° 58′, E. 0° 35′	30.21	767.3	69.8	21.0	71	ese.			5		9							misty.
Bk. Commewyne, N. 27° 00′, W. 25° 51′	30.16	766.1	70.9	21.6	67	wsw.			2		3							d. clouds.
Bk Coppename, N. 16° 32′, W 33° 23′	30.12	765.0	75	23.9	71	ne.			4		3							blue sky.
S. S. Earnock, N. 48° 24′ W. 11° 00′	29.44	747.8	59	15.0	81	ssw.			3		3							blue sky.
Glencairn, S. 32° 42′. E. 29° 37′	30.35	770.9	71	21.7	85	s.			4–7		10							showery.
Bkt. Hope, N. 34° 12′ W. 42° 28′	29.90	759.4	67	19.4	84	nnw.			3		5							d. clouds.
S. S. May Hulse, S. 31° 07′, W. 84° 30′	30.31	769.9	63.5	17.5	93	nnw.			1		10							overcast.
S. S. Minho Montevideo, Uruguay	30.15	765.8	56.5	13.6	87	e.			2		0							blue sky.
S. S. Pole Star, S. 55° 29′ W. 63° 31′	29.58	751.3	39	3.9	82	wsw.			4		9							gloomy.
CUNARD LINE.																		
S. S. Marathon, N. 44° 16′, W. 46° 14′	30.16	766.1	45	7.2		nnw.			2		9		nnw.	o	o	sm'h	n.	cloudy.
S. S. Parthia, N. 41° 31′, W. 47° 47′†	30.10	764.5				ene.			6		6?		e.	o	o	con.	e.	overcast.?
S. S. Scythia, New York, N. Y.	30.14	765.5	58	14.4	76	nw.			2		3		wnw.	o	o			clear.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. St. Laurent, N. 46° 19′, W. 31° 09′†	29.94	760.5	55.4	13.0	100	nw.			5					hail	hail	sm'h	nw.	covered.
S. S. Ville de Marseilles, N. 40° 30′, W. 70° 12′ *†	30.11	764.8	55	12.8		w.			3		2		w.	o	o	sm'h		clear.
GUION LINE.																		
S. S. Wisconsin, N. 40° 40′ W. 68° 30′*†	30.12	765.0	46	7.8		nw.			2		2		wnw.	o	o	mod.	nw.	clear.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S Bohemia, N. 49° 56′, W. 4° 56′*†	29.41	747.0				ssw.			6		5		ssw.	squ'ls	squ'ls	long	ssw.	squally.
S. S. Cimbria, N. 42° 42′, W. 59° 56′	30.04	763.0	41.9	5.5		wsw.			5		6		s.	o	o	mod.	se.	foggy.
S. S. Gellert, N. 47° 04′. W. 32° 40′	29.89	759.2	54	12.2		nw.			3		10		n.	2 h'r	2 h'r	mod.	nw.	covered.
S. S. Lessing, New York, N. Y.	30.12	765.1	56	13.3		nw.			2		8		nw.	o	o			cloudy.
S. S. Silesia, N. 49° 42′, W. 10° 14′†	29.45	748.0	58	14.4		wsw.			5		2		w.	o	o	4	wsw.	d. clouds.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, S. 4° —′ W 31° —′*†	30.19	766.8	82	27.8		ene.			4		5?		se.	o	o	long	sse.	clear.?
S. S. Humboldt, N. 29° 09′, W. 66° 10′*	30.12	765.0	75	23.9	90	ne.			1		6 k			o	o	1	e.	d. clouds.
LEYLAND LINE.																		
S. S. Iberian, N. 47° 56′. W. 38° 34′	29.96	761.0				nnw.			3		10		nnw.	o	o	sli't	nnw.	cloudy.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, Baltimore, Md.	29.73	755.1				nne.			4				ne.	o	o		ne.	fine.
S. S. Glenapp, S. 16° 43′ W. 38° 33′ *†	30.00	763.5				s.			3		4		s.	1 h'r	1 h'r		sw.	raining.
NATIONAL LINE.																		
S. S. Denmark, N. 45° 02′ W. 38° 50′	30.04	763.0	56	13.3		n.			3		5		n.	1 h'r	1 h'r	slight	nw.	hazy.
S. S. England, Mersey River, England	29.26	743.2				sw.			6		10		sw.	3 h'r	3 h'r			
S. S. Erin, N. 43° 03′, W. 42° 35′	30.02	762.5	60	15.6		ne.			3		0			o	o	mod.	ene.	clear.
S. S. Greece, N. 49° 38′, W. 6° 47′	29.50	749.3				sw.			2		5?		sw.	o	o	sm'h		overcast?
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, N. 37° 35′, W. 73° 41′†	30.07	763.8	61	16.7		nw.			1		0			o	o	sm'h		hazy.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S City of Alexandria, N 39° 45′ W. 73° 55′.*†	30.24	768.1	56	13.3	80	W.			2		4		wnw.	o	o			misty.
S. S. City of Puebla, Vera Cruz, Mexico.†	29.85	758.2	77	25.0		wnw.			1		5		wnw.			light	nw.	
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Lepanto, N. 50° 10′, W. 16° 05′*	29.35	745.5	54	12.2		nw.			5								se.	showery.
S. S. Lone Star, N. 29° 08′ W. 80° 30′ *†	30.30	769.6	76	24.4		e.			2							sm'h		clear.
NORTH GERMAN LLOYD																		
S. S. Graf Bismarck, S. 11° 05′, W 36° 16′	30.13	765.3	75.2	24.0		ese.			4–6		6		ese.	3 h'r	3 h'r	mod.	ese.	rainy.
S. S. Habsburg, N. 49° 32′, W. 27° 25′	29.73	755.1	53.6	12.0		nnw.			5		10			1 h'r	1 h'r	mod.	n.	cloudy.
S. S. Hermann, N. 45° 09′, W. 38° 58′†	29.88	758.9	55.4	13.0		nne.			4		3		nw.	o	o	mod.	nne.	fair.
S. S. Leipzig, N. 41° 59′, W. 47° 50′	30.12	765.0	51.5	10.8	?	nne.			4		5		ne.	o	o	mod.	ne.	fair.
S. S. Main, Bremerhaven, Germany	30.05	763.3				ne.			3		5		ene.	o	o			fine.
S. S. Mosel, N. 49° 57′, W. 8° 19′	29.40	746.7	57	13.9		wsw.			4		6?		sw.	4½h'r	4½h'r	mod.	sw.	clear.?
S. S. Neckar, N. 40° 50′, W. 50° 40′	30.10	764.5	58.1	14.5		ne.			3		8		ne.	o	o	mod.	ne	fine.
S. S. Oder, N. 41° 39′, W. 58° 19′	30.16	766.1	57.2	14.0		ese.			2		5		se.	o	o	mod.	e.	fair.
S. S. Ohio, N. 46° 05′, W. 36° 34′	30.01	762.2				nne.			4		2		nne.	o	o	sm'h	nne.	clear.
S. S. Rhein, New York, N. Y.	30.17	766.3				nw.			3		2		nw.	o	o			clear.
S. S. Salier, N. 45° 39′, W. 33° 07′	29.90	759.4	50.9	10.5		n.			6		8		nne.	1 h'r	1 h'r	r'gh	nne.	cloudy.
S. S. Strassburg, N. 38° 44′. W. 68° 14′	30.15	765.8	66.0	18.9	?	nw.			5		2		n.	1 h'r	1 h'r	mod.	nw.	fair.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 37° 45′ W. 125° 24′*†	30.16	766.1	57	13.9	94	W.			2–3		2		sw.	o	o	sm'h		d. clouds.
S. S. Belgic Hong Kong, China†	29.96	761.0	78	25.6	100	calm			0		10		ne.	o	o	sm'h		cloudy.
S. S. Gaelic, Yokohama, Japan†	29.65	753.1	71	21.7	80	W.			1		1		sw.					clear.
S. S. Oceanic, N. 46° 00′, W. 158° 05′*	29.97	761.2	50	10.0	86	sw.			4		2					3	sw.	clear
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga.†	30.15	765.8				nne.			1		1		ne.					foggy.
S. S. City of Columbus, Savannah, Ga.†	30.11	764.8				n.			1		1		ne.	o	o			clear.
S. S. Seminole, Boston, Mass.†	30.17	766.3	45	7.2	46	nw.			1		fg		nw.	8 h'r	8 h'r			clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, N. 45° 35′, W. 124° 16′†	29.93	760.2	54	12.2	79	nnw.			2		8		nnw.			light	nw.	cloudy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal.†	29.82	757.4	55	12.8	87	sw.			1		10		sw.					misty.
S. S. Orizaba, N. 33° 40′, W. 118° 10′†	30.00	762.0	61	16.1	77	sw.			3				s.			sm'h	sw.	overcast.
S. S. State of California, San Francisco, Cal.†	29.90	759.4	54	12.2	93	sw.			2		8		sw.					overcast.
S. S. Victoria, N. 49° 13′, W. 122° 54′†	29.78	756.5	47	8.3	85	calm			0		0			o	o	sm'h		clear.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. City of New York, S. 34° 30′, E 176° —′†	29.71	754.6	68	20.0	84	e.			7		9		e.	rain	rain	h'vy	se.	cloudy.
S. S. City of Pekin, N. 37° 33′ W. 164° 45′†	30.13	765.3	61	16.1	88	wsw.			4		5		sw.			light	wsw.	fair.
S. S. City of Rio de Janeiro, N. 32° 10′, W. 119° 24′*†	30.16	766.1	57	13.9	87	s.			1		2			o	o	sm'h		fine.
S. S. City of Sydney, S. 17° 07′, W. 171° 41′†	29.89	759.2	82	27.8	83	nne.			3		8		sw.	0.125	3.1	mod.	ne.	cloudy.
S. S. City of Tokio, Hong Kong, China†	29.99	761.7	70	21.1	80	wsw.			3		10		sw.	3 h'r	3 h'r			cloudy.
S. S. Colon, N. 38° 23′, W. 73° 58′†	30.15	765.8	53	11.7		W.			2		3		nnw.	o	o	sm'h		fair.
S. S. Granada, N. 24° 10′ W. 111° 38′.†	29.95	760.7	59	15.0	88	wnw.			3		2		wnw.	o	o	light	wnw.	clear.
S. S. South Carolina, Punta Arenas, Costa Rica.†	29.97	761.2	79	26.1	91	nne.			1		10		nne.	o	o	sm'h		fair.
S. S. Zelandia, Sydney, N. S. W.	29.79	756.7	59	15.0	70	calm			0		8		nw.					cloudy.
QUEBEC STEAMSHIP COMPANY.																		
S. S. Muriel, Martinique, W. I.	29.92	760.0	82	27.8		e.			2		0			light	light	sm'h		fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
Red Star Line.																		
S. S. Belgenland, Antwerp, Belgium†	29.74	755.4	69	20.6	75	ssw.			4		2		s.			sm'h		rainy.
S. S. Rhynland, N. 49° 05′ W. 23° 07′	29.55	750.6	54	12.2	79	n.			6		9		nnw.	0	0	mod.	n.	cloudy.
S. S. Switzerland, N. 43° 40′ W. 40° 09′†	30.06	763.5				nne.			2		8		nne.	0	0	sm'h		fair.
S. S. Vaderland, N. 49° 28′, W. 13° 15′	29.44	747.8	60	15.6	76	wsw.			2		5		ssw.	0	0	sm'h	wsw.	fair.
S. S. Waesland, N. 39° 54′, W. 49° 51′	30.05	763.3	63	17.2		e.			6		2		e.	rain	rain	r'gh	e.	clear.
Rotterdam Line.																		
S. S. Schiedam, N. 42° 16′ W. 54° 18′*	30.16	766.1	50.5	10.3		ne.			3		10			0	0	mod.	ne.	cloudy.
S. S. W. A. Scholten, N. 49° 03′ W. 18° 45′	29.32	744.7	54.0	12.2	86	nne.			1		10		nw.	4 h'r	4 h'r	long	s.	rainy.
State Line.																		
S. S. State of Florida, N. 43° 54′ W. 40° 50′	29.99	761.7	56	13.3		ne.			2		9?		ene.	0	0	mod.	ne.	clear.?
S. S. State of Georgia, N. 40° 26′, W. 68° 41′†	30.16	766.1	45	7.2		w.			3		5		w.			sm'h		fine.
Thingvalla Line.																		
S. S. Thingvalla, Copenhagen, Denmark†	30.20	767.1	64.4	18.0		ssw.			1		2		ssw.	0	0			clear.
Warren Line.																		
S. S. Iowa, N. 48° 13′, W. 32° 18′*†	30.00	762.0	50	10.0		n.			3		10		n.	0	0	mod.	nne.	cloudy.
White Star Line.																		
S. S. Baltic, N. 48° 17′ W. 33° 14′†	29.96	761.0	58	14.4	86	nne.			4		9		nne.	0	0	sm'h	ne.	cloudy.
S. S. Celtic, N. 43° 52′ W. 45° 42′.†	30.13	765.3	53	11.7	79	n.			3		10		n.	0	0	sm'h		cloudy.
S. S. Germanic, N. 43° 10′, W 45° 22′†	30.16	766.1	53	11.7		ne.			4		2		ne.			short	ne.	d. clouds.
Wilson Line.																		
S. S. Otranto, N. 42° 24′, W. 47° 34′†	30.18	766.6	52	11.1		ne.			5		5		ne.			mod.	ene.	clear.
Miscellaneous.																		
Sch. Addie Fuller, Newport News, Va†	30.27	768.8	61	16.1	77	ne.			2	1 c	0			0	0			clear.
Bk. Adelaide, N. 6° 00′, W. 46° 30′*†..	30.03	762.7	83	28.3		ne.			5		9		ne.	6 h'r	6 h'r	rg'h	ne.	threatening
Schr. Ajax, Brazos, Texas†	30.02	762.5				calm			0		8		se.	0	0			cloudy.
Bk. Alpha, Guanatamo, Cuba, W. I.†	29.94	760.5	78	25.6		n.			1		2		ne.	0	0			fair.
Sch'r Annie R. Lewis, N. 26° 33′, W. 94° 16′†	30.09	764.3	79	26.1		ene.			2		5?		ene.	0	0	long	e.	cloudy.?
Bk. Annie Thorman, N. 11° 14′, W. 26° 28′	30.03	762.8	77.5	25.3	76	ene.			4		4 k		ene.	0	0	cross	e;s	fair.
S. S. Antonio Lopez, N. 39° 46′ W. 39° 33′*	29.97	761.2	60.5	15.8	82	ne.			3		5 s			0	0	mod.	ne.	squally.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.23	767.8	77	25.0		wnw.			1		10		ne.	0	0			hazy.
Schr. Annie M. Smull, S. 0° 17′, E. 106° 42′*†	30.00	762.0	90	32.2		e.								0	0			
Bk. Bergenseren, N. 41° 15′ W. 14° 58′†	29.50	749.3				sw.			6				wsw.	rain	rain	5	nw.	squally.
S. S. Compton, N. 35° 52′, W. 74° 11′†	30.13	765.3				nne.			4		2		nw.	0	0	mod.	ne.	clear.
Schr. Edith R. Seward, N. 31° 38′, W. 75° 45′*†	30.28	769.1	77	25.0		s.			1		7		ene.	0	0	long	sse.	cloudy.
S. E. J. Spicer, London, Eng.†	29.62	752.3				wsw.			7		10		w.	1 h'r	1 h'r			overcast.
Essex, N. 36° 23, W. 54° 39′*†	30.03	762.7	66	18.9		ne.			3		1		nne.	0	0	long	n.	clear.
S. Exporter, S 42° 30′, E. 17° 10′*†	30.00	762.0				nnw.			6		6		w.	12 h'r	12 h'r	long	w.	cloudy.
Bk. Freya, Dublin, Ireland			58	14.4		sse.			3		8		sse.	3 h'r	3 h'r			squally.
Godfrey, N. 38° 31′ W. 56° 38′	30.08	764.0	65.7	18.7	73	e.			4		6		wnw.	0	0	r'gh	nne.	fair.
S. Grecian, S. 2° 40′, E. 107° 00′*†	29.90	759.4	82	27.8		wnw.			4		3		nne.	0	0	sm'h		clear.
Bk Hattie G. McFarland, N. 43° 00′, W. 67° 30′*†	29.99	761.7	40	4.4		n.			4		10		nw.	22 h'r	22 h'r			stormy.
Schr. Henry Denison, N. 33° 56′, W. 75° 34′†	30.10	764.5				ssw.			4		4		ene.	8 h'r	8 h'r	high	ne.	drizzling
S. Ismir, N. 4° 30′W 30° 20′†	29.97	761.2				sse.			3		9		se.			r'gh	s.	fine.
James Slater, N. 34° 55″, W. 63° 30′*†	30.33	770.4	72	22.2		ssw.			2		0			0	0	sm'h	nw.	
Bk. Johanne, N. 50° 08′, W. 8° 55′*†	29.35	745.5	58	14.4		ssw.			3		8		wsw.	0	0	mod.	sw.	fair.
Schr. John L. Thomas, Albuquerque Cays, C. A*†	30.02	762.5				ene.			1		1		ene.	0	0			clear.
Bkt. Josephine, Guanatamo, W. I.*†	30.14	765.5	80	26.7	74	n.			1		0			0	0			clear.
Bk. Julia H., Havana, Cuba, W. I.	30.03	762.7	74.0	23.3	90	e.			1		9 k;s							overcast.
Bk. Kate Cann, N. 38° 58′, W. 69° 30′*†	30.04	763.0				e.			1		0		w.	0	0	sm'h	ne.	threatening.
Bkt. Kryolith, N. 58° 55′, W. 48° 05′*†	29.97	761.2				nw.			6		0			0	0	sm'h		clear.
S. S. Lamperts, N. 17° 16′, E. 67° 29′*	29.78	756.4	84.0	28.9	71	n.			1		3 k					1		d. clouds.
Light House Tender, Laurel, Pensacola Bay, Fla†	30.10	764.5	70	21.1		ne.			2		1		n.	0	0			clear.
Schr. Maggie Abbot, N. 33° 10′, W. 69° 34′†*	30.09	764.3				sw.			1				w.	0	0	mod.	se.	cloudy.
S. S. Malabar, Singapore, Malay Peninsula*†	29.86	758.4							1									clear.
S. Minnie N. Geraw, N. 46° 57′, W. 22° 23′*†	29.50	749.3				nnw.			6		10		nw.			mod.	n.	cloudy.
S. Paramita, S. 22° 54′, W. 36° 18′†	30.02	762.5	81	27.2		ese.			1		0			0	0	long	s.	clear.
Bk. Pawashick, N. 37° 10′ W. 47° 50′*†	30.10	764.5	62	16.7	100	ene.			6		5		e.			r'gh	var.	fine.
Bk. Peppina, Bordeaux, France†	25.75	755.6	69	20.6	48	wsw.			2		2		w.					fair.
S. S. Ponca, N 8° 05′, W. 52° 31′†	29.96	761.0	85	29.4		ene.			2		5		e.	1 h'r	1 h'r	light	e.	fair.
Bk. Princessen, N. 44° 46′ W. 25° 24′†	29.70	754.3	57	13.9		n.			4		8			2 h'r	2 h'r	mod.	n.	sprinkling.
Bk. Rosebud, N. 18° 00′, W. 25° 25*†	30.08	764.0	80	26.7	58	ene.			5		3		e.	0	0	sm'h		fine.
S. Salisbury. S. 42° 09′, E. 34° 08′*	30.29	769.3	43.5	6.4	77	wsw.			3		8		w.	2 h'r	2 h'r	long	wsw.	cloudy.
Bkt. Spotless, S. 15° 15′, W. 33° 55′						ese.							e.			hv'y	ne.	clear.
Bk. Stella, N. 7° 07′, W. 118° 25′*	29.84	757.9	78.8	26.0	92	e.			1		7 n?		se.	1 h'r	1 h'r	sm'h	se.	overcast?
Bk. Truro, N. 48° 56′ W. 11° 50′*†	29.45	748.0				sw.			2		2		sw.	0	0	sm'h		clear.
U. S. F. C. S. FishHawk, Havre de Grace, Md†	30.33	770.4	59	15.0	81	n.			4		6		nw.	0	0			fair.
S. S. Victoria J. Peed, Salamanca Id, U. S. C.*†	29.12	739.6				n.			3		1							
Schr. Viola Reppard, N. 32° 25′, W. 79° 54′†	29.93	760.2	72	22.2		nne.			1		9		nw.	0	0	long	e.	fair.
Bk. Wm. Wilcox, N. 28° 00′, W. 43° 00′*†	30.24?	768.1?	73?	22.8?		s.			3		5		sw.	0	0	sm'h		fair.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 25, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.06	763.6	74.5	23.6	74	sw.			2		0			0	0	clear	Moiroud.
Algiers			30.04	762.9	77.4	25.2	86	nw.			1		0			0	0	clear	Nicolas.
La Calle			30.05	763.3	72.7	22.6	59	ene.			2		0			0	0	clear	Fonfrède.
Tunis			30.07	763.8															Jacques.
Saida			30.11	764.8															Dumas.
Tebessa			30.10	764.4	77.0	25.0	42	se.			1		0			0	0	clear	Derché.
Geriville					89.2	31.8	19	ese.			2		4			0	0	cloudy	Lonchamp.
Laghouat			30.14	765.5	87.8	31.0	32	ne.			1		0			0	0	clear	Abraham.
Biskra			30.10	764.5	90.0	32.2	24	nw.			1		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.60	751.8	29.69	754.1	53.2	11.8	79	nnw.	11	4.9			6			0.17	4.3	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.37	745.9	29.89	759.3	73.8	23.2	52	ne.			4		4			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.10	739.2	29.85	758.1	67.1	19.5	61	s.	3.8	1.7			10			0.043	1.1		Dr. Wierzbiski.
Eperies	29.01	736.8	29.86	758.5	66.2	19.0	74	s.			2		10n;ks		n.	0	0		Julius Mikolik.
Gratz	28.65	727.8	29.86	758.5	69.4	20.8	72	w.			2		4			0.130	3.3		Andreas Rospini.
Hermannstadt	28.53	724.6	29.91	759.8	67.3	19.6	70	nw.			3		10			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.55	725.2	29.84	758.0	68.7	20.4	66	se.			1		3			0.154	3.9	clear	The Staff.
Lemberg	28.91	734.2	29.85	758.3	71.2	21.8	41	se.			4		1			0	0		Dr. T. Stanecki.
Pola	29.90	759.5	30.01	762.3	69.6	20.9	68	wsw.			1		5			0.118	3.0		I. R. Hydrographic Office.
Szathmar	29.46	748.2	29.91	759.7	68.0	20.0	75	sw.			3		10			0.327	8.3		Joseph Midlinszky, S. J.
Szegedin	29.61	752.0	29.88	758.9	67.3	19.6	70	sw.			2		6			0.063	1.6		Karl Stancel.
Trieste	29.91	759.7	30.01	762.3	69.4	20.8	67	w.			1		3			0	0		Rieder.
Vienna	29.19	741.5	29.89	759.1	68.0	20.0	57	w.			2		7			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.36	745.7	29.46	748.3	56.5	13.6	71	sse.	17	7.6			6			0.245	6.2	squally	W. Boswell
Armagh, Observatory	29.09	738.9	29.33	745.0	51.5	10.8	96	s.	6	2.7			10					raining	S. Call.
Bidston, Liverpool Obs'y			29.35	745.5	58.0	14.4	79	se.	14	6.3			10					overcast	John Hartnup.
Bolton, Sharples	28.84	732.5	29.36	745.7	56.6	13.7	65	se.	6	2.7			10					overcast	Thomas Mackereth. [A.S.
Bradford, Yorkshire	28.99	736.3	29.39	746.5	59.2	15.1	67	se.			1		10			0.31	7.9	raining	J. McLandsborough, F. R
Bridgetown, Barbadoes	29.96	761.0	30.00	762.0	86.0	30.0	68	ne.			2		3					d. clouds	Corpl. J. Surgenor, A. H. C.
Cardington			29.30	744.2	54.0	12.2	97	se.			1.0		10					raining	John McLaren.
Chatham, School M. E.	29.20	741.7	29.33	745.0	53.5	11.9	93	sw.			2		10					raining	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.15	740.4	29.37	746.0	59.2	15.1	64	sw.			3		6					d. clouds	The Staff.
Fort Napier, Natal	27.98	710.7	30.20	767.1	63.6	17.6	67	s.			1		8			blank	blank	overcast	Pvt. E. K. Annis, A. H. C.
Free Town, Sierra Leone	29.59	751.6	29.82	757.4	89.0	31.7	47	nw.			1		5					blue sky	Sergt. John Robinson.
Gibraltar, Mediterranean	30.02	762.5	30.07	763.8	76.4	24.7	76	w.			2		0					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.09	738.9	29.29	744.0	59.0	15.0	63	se.			2		6 n					gloomy	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.15	740.4	29.32	744.7	53.1	11.7	97	ese.			1		10					raining	The Staff.
Guernsey	29.17	740.9	29.46	748.3	53.7	12.1	95	sw.			2		10					showery	A. Collenette, F. M. S.
Kew, Observatory	29.28	743.7	29.32	744.7	53.3	11.8	90	e.	16	7.2			10					raining	The Staff.
Leicester, Museum	29.07	738.4	29.32	744.7	53.3	11.8	90	ne.			2		10						J. C. Smith.
Malta, Mediterranean	29.94	760.5	30.02	762.5	78.2	25.7	54	se.			2		0					blue sky	I. H. Whysall.
Nassau, Bahamas	30.01	762.2	30.06	763.5	76.5	24.7	95	s.			1		10					overcast	O. S. Duncombe.
Oscott, St. Mary's College	28.85	732.8	29.36	745.7	52.1	11.2	93	ese.			2		10					raining	Warren Middleton.
Oxford, Radcliffe Obs'y	29.11	739.4	29.34	745.2	51.8	11.0	96	n.			1		10					raining	The Staff.
Plymouth	29.30	744.2	29.37	746.0	59.2	15.1	68	sw.			2		10					overcast	John Merrifield.
Sandwick Manse, Orkneys			29.48	748.8	50	10.0	86	ese.	15	6.7			3					d. clouds	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.93	760.2	30.00	762.0	69.4	20.8	54	ssw.			1		2					d. clouds	W. H. Lyne.
Sheffield	29.10	739.1	29.38	746.2	54.9	12.7	87	e.			1		10			0.32	8.1	raining	W. F. Cooper.
Silloth Rectory	29.34	745.2	29.37	746.0	59.0	15.0	68	w.			3		5			0.115	2.9	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.39	746.5	59.1	15.1	59	sse.	17	7.6			10					overcast	J. New.
Stratfield Turgiss	29.16	740.7	29.37	746.0	51.7	10.9	93	se.			3-4		9					showery	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.39	746.5	29.41	747.0	64	17.8	67	sw.			6		6					d. clouds	W. Newcombe.
Valencia, Observatory	29.25	742.9	29.28	743.7	52.6	11.4	72	w.	10	4.5			10			blank	blank	d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.00	762.0	30.04	763.0	44	6.7	80	w.	4	1.8			10 n		sw.	0.260	6.6	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.98	761.5	30.04	763.0	41	5.0	96	sw.	3	1.3			10 s		sw.	0.23	5.8	cloudy	G. A. Blair.
Father Point, Quebec*	29.96	761.0	29.98	761.5	39	3.9	100	w.	10	4.5			fg.			0.23	5.8	light fog	J. McWilliams.
Fort Garry, Manitoba*																			
Halifax, N. S*	29.95	760.7	30.08	764.0	47	8.3	93	w.	2	0.9		10 k	0			0.233	5.9	cloudy	A. Allison.
Kingston, Ontario*	29.73	755.1	30.07	763.8	48	8.9	77	w.	12	5.4		5 ck	5 s	w.	w.	0	0	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.84	757.9	30.04	763.0	46	7.8	80	w.	6	2.7			10 s		w.	inap.	inap.	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.37	746.0	30.07	763.8	45	7.2	71	calm	0	0		0	0			0	0	clear	Rev. R. Mosley.
Port Dover, Ontario	29.41	747.0	30.10	764.5	48	8.9	85	s.	7	3.1		0	0			0	0	clear	H. Morgan.
Port Stanley, Ontario	29.43	747.5	30.08	764.0	47	8.3	71	nw.	1	0.4		0	0			0	0	clear	M. Payne.
Quebec, Quebec*	29.71	754.6	30.04	763.0	45	7.2	76	w.			3	0	5 s		w.	0.03	0.8	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.56	750.8	30.02	762.5	46	7.8	89	nw.	2	0.9		0	0			0	0	clear	W. H. McIntyre.
Saugeen, Ontario*	29.36	745.7	30.09	764.3	40	4.4	92	calm	0	0			10 s			0	0	cloudy	
St. Andrews, N. B	30.01	762.2	30.06	763.5	47	8.3	83	w.	1	0.4		0	0			0.08	2.0	clear	
Sydney, C. B*	29.97	761.2	30.03	762.7	38	3.3	96	n.	4	1.8			10 n			0.51	13.0	cloudy	T. C. Hill, C. E
Toronto, Ontario*	29.71	754.6	30.10	764.5	47	8.3	68	w.	2	0.9		2 k	8 ks	w.	w.	0	0	cloudy	Magnetic Observatory.
Yarmouth, N. S*	30.04	763.0	30.11	764.8	40	4.4	96	w.	1	0.4		fg	fg.			0	0	dense fog	Lt. F. E. Wilmot, R. N
Sub-series.																			
St. Johns, Newfoundland	30.04	763.0	30.30	769.6	44	6.7	84	w.				0	0			0	0		John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.44	773.2	30.47	773.9	66.0	18.9	73	e.	6.6	3.0		0	1 k			0	0	clear	John Duthie.
Cape Town, C. G. H. Obs'y	30.30	769.6	30.34	770.6	65.0	18.3	67	ssw.	25	11.2		0	1			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Chinese (*Sub-series*).																			
Hankow																2.01	51.1		N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.82	757.5	29.85	758.1	62.4	16.9	82	nne.	7.8	3.5			10 n		n.	0.366	9.3	covered	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.80	757.0	29.85	758.2	63.7	17.6	63	calm	0	0			8					hazy	Oversergent Fischer.
Fanöe	29.72	754.8	29.74	755.3	66.4	19.1	71	sse.			6		2						Overloerer Lauridsen.
Godthaab, Greenland	30.01	762.2	30.05	763.3	36.5	2.5	91	nne.			2		0			0	0		S. Kleinschmidt.
Stykkisholm, Iceland	29.45	747.9	29.49	749.0	32.4	0.2	76	s.			2		8						A. O. Thorlacius.
Thorshavn	29.34	745.1	29.37	746.0	52.5	11.4	70	sw.	9	4			5						Overloerer Bergh.
Vestervig	29.67	753.6	29.76	755.9	64.2	17.9	59	se.			4		7						Loerer Oesterbol.
French.																			
Agen, Normal School	29.22	742.2	29.85	758.2	63.7	17.6	71	s.			2		10		sw.	0	0	covered	M. Labroue, Director.
Alençon, Normal School	29.08	738.6	29.63	752.6	56.1	13.4	88	sw.			4		10 n		sw.	0.63	16.	raining	M. Nicot, Director.
Arras, Engineer School	29.28	743.7	29.53	750.0	60.4	15.8	71	sw.			10		n		w.	0.244	6.2		M. Fénéon, Command't.
Avignon, Normal School	29.82	757.4	29.99	759.4	71.6	22	66	se.			3		5		s.	0	0	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.17	740.8	29.70	754.4	65.5	18.6	69	s.			1		10			0.020	0.5	covered	M. Saillard, Director.
Beauvais, Normal School	29.29	744.0	29.55	750.5	63.5	17.5	63	sw.			3		8		sw.	0.51	13.	very cloudy	M. Frère Eugène Marl.
Besançon, Normal School	28.85	732.8	29.71	754.7	73.4	23	37	s.			2		10 cn		s.	0.138	3.5	raining	M. Gobin, Director.
Bordeaux, Observatory	29.56	750.7	29.81	757.2	62.8	17.1	52	wsw.			1		10			0.028	0.7	covered	M. Rayet, Director.
Bourges, Normal School	29.18	741.1	29.71	754.6	67.1	19.6	46	sw.			2		k		sw.	0	0		M. Postel, Director.
Brest, Naval Observatory	29.32	744.7	29.56	750.9	61.9	16.6	73	sw.			4		6		sw.	0.945	24.0		M. de Kermaree, Dir.
Caen, Normal School	29.45	748.0	29.52	749.8	60.1	15.6	56	ssw.			3		10		ssw.	0.528	13.4	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.30	744.3	29.61	752.2	67.8	19.9	54	sw.			6		10		w.	0.004	0.1	covered	M. Jadot, Director.
Charleville, Normal School	29.08	738.6	29.57	751.1	64.0	17.8	56	se.			3		10			0	0	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.48	723.5	29.78	756.5	72.5	22.5	37	sw.			3		10			0.031	0.8	covered	M. Allnard, Director.
Cluny, Normal School	28.93	734.7	29.73	755.2	73.4	23	44	se.			4		5		se.	0.098	2.5		M. de Villemontée, Dir.
Commercy, Normal School	28.80	733.1	29.71	754.6	66.7	19.3	56	ssw.			4		10 n	ssw.	ssw.	0.020	0.5	covered	Dr. Coulet, Director.
Gap, Normal School	27.49	698.2	29.95	760.7	66.2	19	63					0	2 k		e.	0.008	0.2		M. Jeangirard, Director.
Gréasque, du Rhone	28.85	732.8	29.95	760.6	68.2	20.1	60	se.			3		7		se.	0.12	3.		M. Kina, Director.
Grenoble, Normal School	29.08	738.5	29.81	757.2	72.5	22.5	38	ssw.			2		n	s.	s.	0	0		M. Ablard, Director.
Guéret, Normal School	28.22	716.8	29.77	755.1	58.6	14.8	65	sw.			1		10		sw.	0	0	covered	M. Rivoire, Director.
Lamballe, Normal School	29.24	742.7	29.50	749.4	56.5	13.6	80	ssw.			6		8		ssw.	0.20	5.	very cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.26	743.3	29.79	756.6	64.4	18	78	w.			1		10					raining	M. Chauvin, Director.
Lorient, Naval Observatory	29.49	745.0	29.59	751.6	61.2	16.2	77	sw.			8		8.		sw.	0.323	8.2	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.76	730.6	29.79	756.6	67.6	19.8	50	s			3		8		sw.	0.232	5.9	¾ covered	M. André, Director.
Mans, Normal School	29.34	745.1	29.64	752.8	57.0	13.9	79	w.			3		10			0.429	10.9	covered	M. Piboen, Director.
Marseille, Observatory	29.68	753.8	29.95	760.6	69.8	21.0	57	ese.			3		9		w.	0	0		M. Stephan, Director.
Montlouis	24.74	628.4	29.58	751.4	58.1	14.5	54	sw.	24.2	10.8			5		w.	0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.73	755.1	29.85	758.3	67.6	19.8	87	ese.			3		8		ese.	0	0		M. Galzin, Director.
Nancy, Normal School	28.92	734.5	29.67	753.7	70.2	21.2	43	sse.			2		kn		sw.	0.102	2.6		M. Hasse, Director
Nantes, Observatory	29.51	749.5	29.67	753.6	54.5	12.5	65	wsw.			2-4	0	8k;kn		wsw.	0.890	22.6		M. Larocque, Director.
Perpignan, Observatory	29.69	754.1	29.80	756.8	70.0	21.1	58	se.	7.4	3.3			8	wsw.	wsw.	0.031	0.8		Dr. Fines, Director.
Pic-du-Midi, Summit	21.13	536.8			33.1	0.6		sw.			1		10	ne.	sw.	0.134	3.4	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.83	732.2	29.86	758.5	66.9	19.4	67	s.			1		0			0	0	clear	M. Tailleu.
Puy de Dôme Obs'y, Summit	24.98	634.4			49.5	9.7	71	sw.			6		8		sw.	0.094	2.4		M. Allnard, Director.
Rochefort, Naval Obs'y	29.72	754.9	29.75	755.7	65.5	18.6	100	sw.			4		8		wsw.	0.020	0.5	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.45	748.1	29.67	753.5	60.4	15.8	71	ssw.			4		5	s.	ssw.	0.449	11.4	cloudy	M. Mouillot, Director.
Rodez, Normal School	27.67	702.8	29.73	755.1	71.2	21.8	21				1		1		ne.	0.68	17.	clear	M. Serger, Director.
Rouen, Normal School	29.49	749.0	29.54	750.2	61.9	16.6	73	sw.			2		8		nw.	0.488	12.4	very cloudy.	M. Brotier.
Saint Maur, Observatory	29.44	747.8	29.61	752.0	63.3	17.4	62	sw.			3		9	sw.	sw.	0.173	4.4		M. Renou, Director.
Toulouse, Observatory	29.22	742.3	29.95	760.6	72.1	22.3	48	n.			1		10	sw.		0	0	covered	M. Baillaud, Director.
Tours	29.48	748.7	29.65	753.2	65.1	18.4	63	sw.			8		kn	sw.	sw.	0.079	2.0		
Versailles, Observatory	29.11	739.5	29.61	752.0	62.6	17.0	61	sw.			4					0.331	8.4		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.31	744.4	29.60	751.8	63.9	17.7	63	sw.			3		6		sw.	0.264	6.7		M. Marié Davy, Director
German.																			
Bamberg	28.99	736.4	29.84	757.9	72.0	22.2	44	s.			1	0	4 k		sw.	0	0		Prof. Dr. Hoh.
Berlin	29.65	753.0	29.82	757.3	67.5	19.7	45	nw.			1		7			0.126	3.2		Prof. Dr. Arndt.
Breslau	29.33	745.0	29.86	758.4	68.0	20.0	65	wnw.			2		8			0	0		Royal University Obs'y.
Carlsruhe	29.34	745.1	29.75	755.7	73.8	23.2	48	s.			1		10	sw.		0.083	2.1		Albert Senz.
Cassel	29.02	737.2	29.74	755.3	73.0	22.8	36	s.			4		8	sw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.40	746.8	29.75	755.6	74.8	23.8	38	s.			2		8			0.004	0.1		Physical Society.
Friedrichshafen	28.43	722.1	29.81	757.2	68.7	20.4	55	s.			2		8	sw.		0.165	4.2		Wilhelm, Chief Tel.
Hamburg	29.67	753.6	29.76	756.0	69.4	20.8	47	sse.			3		5	wsw.		0	0		E. Preller.
Kiel	29.75	755.7	29.77	756.1	66.2	19.0	55	ese.			5		3			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.41	747.0	29.82	757.3	74.1	23.4	36	ssw.			2		6	sw.		0	0		H. Leppig, Asst.
Magdeburg	29.60	751.7	29.78	756.4	55.6	13.1	76	se.			1	0	3 k		sw.	0	0		Dr. Assmann.
Memel	29.85	758.2	29.90	759.4	74.1	23.4	33	se.			3	0	1 s						Issermann.
Munich	28.07	712.9	29.92	760.0	67.8	19.9	39	e.			1		2	se.		0.154	3.9		Central Station.
Neufahrwasser	29.79	756.7	29.81	757.1	60.3	15.7	88	calm			0		7			0.673	17.1	thunder	A. Lothes.
Neustadt, Palatinate	29.27	743.4	29.80	756.9	71.2	21.8	60	s.			3		9	sw.		0.118	3.0		Dicknether.
Stuttgart	28.87	733.4	29.73	755.1	72.0	22.2	42	s.			1		5	w.		0.220	5.6		Prof. Dr. Schoder.
Wustrow	29.84	757.9	29.86	758.5	63.0	17.2	59	e.			2	0	3 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.67	753.6			74.1	23.4		nw.			2.0		2			0	0	misty	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.69	754.1	29.74	755.4	86.2	30.1	83	wsw.	36.0	16.1			1			0	0	misty	
Deesa	29.17	741.0	29.62	752.4	105.6	40.9	21	wsw.	10.1	4.5			3		wsw.	0	0	d. clouds	
Bombay	29.73	755.1	29.77	756.1	87.1	30.6	67	wnw.	11.0	4.9			1	w.		0	0	d. clouds	
Poona, Yarrowda	27.88	708.1	29.68	753.9	91.9	33.3	39	wnw.	22.0	9.8			3	nw.	nw.	0	0	d. clouds	
Bellary	28.19	715.8	29.61	752.1	94.5	34.7	33	w.	10.2	4.6			8			0	0	gloomy	
Belgaum	27.23	691.7	29.73	755.2	81.8	27.7	64	wsw.	11.0	4.9			7	n.	w.	0	0	d. clouds	
Lahore	28.76	730.4	29.45	748.0	109.9	43.3	9	nw.	1.6	0.7			0			0	0	blue sky	
Roorkee	28.59	726.2	29.43	747.5	107.5	41.9	16	nw.	1.9	0.8			1			0	0		
Agra	28.96	735.7	29.49	749.0	110.8	43.8	13	n.	7.4	3.3			0			0	0		
Nagpur	28.53	724.8	29.52	749.7	107.4	41.9	15	calm	8.9	4.0			8		nw.	0	0	d. clouds	
Jubbulpore	28.28	718.2	29.57	751.1	100.7	38.2	19	calm	2.9	1.3			9		e.	0	0	overcast	
Lucknow	29.14	740.2	29.50	749.2	109.4	43.0	13	calm	2.3	1.0			0			0	0	blue sky	
Allahabad	29.18	741.3	29.48	748.7	108.6	42.6	10	nw.	2.8	1.2			0			0	0	blue sky	
Patna	29.36	745.9	29.54	750.3	101.5	38.6	65	ne.	5.4	2.4			4	ne.	ne.	0	0	d. clouds	
Hazaribagh	27.58	700.5	29.49	749.1	99.6	37.6	17	nnw.	6.8	3.0			0			0	0	misty	
Cuttack	29.51	749.5	29.59	751.5	92.1	33.4	62	s.	5.9	2.6			0			0	0	blue sky	
Calcutta, Alipore	29.60	751.8	29.62	752.3	88.5	31.4	64	ssw.	12.0	5.4			10	sw.		0	0	overcast	
Dhubri	29.56	750.7	29.67	753.7	83.0	28.3	71	calm	4.9	2.2			6	w.		0	0	d. clouds	
Chittagong	29.65	753.2	29.74	755.5	78.7	25.9	83	e.	6.7	3.0			6			0	0	d. clouds	
Sibsagar	29.38	746.2	29.71	754.7	79.0	26.1	87	ne.	2.3	1.0			10	w.	w.	0.10	2.5	d. clouds	
Jeypore	28.17	715.4	29.53	750.1	106.4	41.3	23	wnw.	8.1	3.6			4		wnw.	0	0	d. clouds	
Zanzibar, Africa	30.00	762.0			83.6	28.7	62	se.	7.6	3.4			6		s.	0	0	d. clouds	
Italian.																			
Udine	29.58	751.3	29.98	761.4	71.4	21.9	76	sw.	1.8	0.8			8			0.299	7.6		Prof. Giovanni Clodig.
Milan	29.48	748.8	29.98	761.5	71.2	21.8	45	nw.	4.9	2.2			8	sw.		0.122	3.1		Prof. Schiaparelli.
Padua	29.86	758.4	29.97	761.1	71.8	22.1	44	wnw.	12.5	5.6			6	w.		0.102	2.6		Prof. Dott. Lorenzoni.
Moncalieri	29.09	738.8	29.97	761.1	67.5	19.7	70	s.	2.5	1.1			7	ne.		0	0		Prof. P. F. Denza.
Genoa	29.86	758.4	30.05	763.2	64.8	18.2	76	se.	9.8	4.4			10	s.		0.012	0.3		Prof. G. M. Garibaldi.
Mondovi	28.06	712.8	30.00	761.9	64.2	17.9	64	nw.			4		5	w.		0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	29.93	760.2	29.98	761.4	74.7	23.7	46	sw.	5.6	2.5			10			0.197	5.0		Prof. Luigi Guidi.
Florence	29.80	756.8	30.04	763.1	72.3	22.4	47	w.			4		10	w.		0	0		Prof. Costantino Pitter.
Leghorn	29.93	760.1	30.01	762.2	70.7	21.5	64	wsw.	5.6	2.5			10	wsw.		0	0		Prof. P. Monte.
Rome	29.90	759.4	30.07	763.7	72.9	22.7	51	sw.	8.1	3.6			10			0	0		Prof. P. S. Ferrari.
Lecce	29.78	756.5	30.04	762.9	78.3	25.7	41	ese.	9.4	4.2			1			0	0		Prof. C. de Giorgi.
Cosenza	29.15	740.3	30.01	762.2	79.2	26.2	79	wsw.	1.8	0.8			0			0	0		Prof. D. Conti.
Cagliari	29.82	757.4	30.01	762.2	72.9	22.7	47	se.			4		1			0	0		Prof. A. Pacinotti.
Palermo	29.85	758.1	30.09	764.3	71.2	21.8	48	ne.	9.8	4.4			0			0	0		Prof. G. Giacciatore.
Syracuse	29.93	760.3	29.98	761.4	78.1	25.6	55	s.	7.4	3.3			3	sw.		0	0		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R.	29.56	750.7	30.07	763.7	69.8	21.0	74	w.	6.9	3.1			5	ne.		0	0		Prof. T. Brioschi.
Stelvio	22.17	563.1			41.7	5.4	49	sw.			4		3			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.21	564.2			46.9	8.3	55	n.			2		10			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.95	760.7	29.98	761.5	57.0	13.9	87	wnw.	0.9	0.4			10			0	0	overcast	K. Ogawa.
Hakodate	29.96	761.0	29.97	761.2	53.0	11.7	73	calm	0	0			4			0	0	fair	
Hiroshima, I. M. Obs'y	29.80	756.9	29.82	757.4	63.8	17.7	91	n.	4.4	2.0			10 n			0.607	15.4	raining	J. Sogawa.
Kanazawa	29.78	756.4	29.89	759.2	68.4	20.2	68	se.	5.8	2.6		ck	10 s			0.090	2.3	cloudy	S. Endo.
Kioto	29.73	755.1	29.90	759.4	68.6	20.3	72	s.	2.3	1.0			10 s			0.140	3.6	cloudy	M. Tojima.
Kochi	29.85	758.2	29.88	758.9	64.0	17.8	89	e.	7.5	3.3			10 n			0.285	7.2	raining	K. Kusunose.
Nagasaki, I. M. Obs'y	29.56	750.8	29.76	755.9	63.0	17.2	95	n.	2.0	0.9			10 n			0.910	23.1	raining	S. Takehayashi.
Niigata	29.88	758.9	29.91	759.7	64.2	17.9	83	ene.	1.3	0.6		10 ck	0			0.010	0.2	cloudy	M. Morita.
Nobiru	29.89	759.2	29.90	759.4	63.8	17.7	87	ese.	6.8	3.0		cs	8 s			0	0	fair	H. Midzushina.
Supporo					50.0	10.0	96	n.	10.8	4.8			0			0	0	clear	
Tokei Obs'y, Yeddo	29.88	758.9	29.95	760.7	67.3	19.6	75	s.	10.2	4.6			10 s		w.	0.172	4.4	covered	The Staff.
Wakayama	29.83	757.7	29.88	758.9	68.6	20.3	83	nw.	1.6	0.7		ck	10 n			0.043	1.1	light rain	Y. Kuwamuea.
MAURITIUS																			
Mauritius Observatory	29.81	757.2	30.00	762.0	75.6	24.2	61	se.	20.5	9.2		c	1 k			0.11	2.8	clear	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.71	602.2	29.93	760.2	60.6	15.9	88	calm	0	0		1 ck	7 kn		nw.	0.087	2.2	rainy	Prof. Vicente Fernandez.
Leon	24.31	617.5	29.94	760.5	61.0	16.1	90	nw.			1	0	3 s			0.591	15.0	clear	Prof. M. Leal.
Mazatlan	29.69	754.1	29.95	760.7	74.5	23.6	72	ene.	0.8	0.4		0	0			0	0	clear	F. Quijano, C. E.
Mexico, Central Obs'y	23.11	587.1	30.12	765.1	56.1	13.4	81	calm	0	0			10 k		w.	0.095	2.4	covered	The Staff.
Morelia	24.14	613.2	30.18	766.6	61.3	16.3	59	ne.			1	5	3	s.	w.	inap.	inap.	cloudy	M. Tena, M. D.
Pabellon, Aguascalientes	23.94	608.2	29.91	759.8	59.4	15.2	89	calm	0	0		1 c	0			inap.	inap.	clear	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.39	594.1	30.11	764.7	55.8	13.2	98	nnw.	0.2	0.1			8		sw.	0.410	10.4	cloudy	Prof. P. Spina.
San Luis Potosi	24.17	614.0	30.13	765.4	61.4	16.3	49	ese.			1	3	1	w.	w.		0	foggy	G. Barroeta, M. D.
Zacatecas	22.57	573.3	30.15	765.7	55.8	13.2	72	sw.	3.6	1.3		0	0			0	0	fine	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.48	748.9	29.48	748.9	61.2	16.2		se.			4					0	0		
Groningen	29.59	751.6	29.65	753.0	68.0	20.0		s.			1					0	0		
Helder	29.59	751.6	29.59	751.6	63.0	17.2		e.			2					0.272	6.9		
Hellevoetsluis	29.51	749.6	29.51	749.6	59.4	15.2	79	ese.			4					0.079	2.0		
Utrecht	29.54	750.4	29.59	751.6	66.4	19.1	57	sse.			4		10			0.220	5.6	raining	H. van der Brink.
NORWEGIAN.																			
Bergen	29.64	752.8	29.70	754.4	47.8	8.8	63	s.	25	11			6			0.110	2.8		
Brono	29.69	754.1	29.73	755.1	50.0	10.0	89	sw.	18	8			10			0.035	0.9	raining	
Christiania	29.70	754.4	29.84	758.0	64.2	17.9	59	wsw.	7	3			5			0.106	2.7		
Gjesvær	29.98	761.6	30.01	762.2	41.5	5.3		calm			0		10						
Lodingen	29.68	753.8	29.72	755.0	54.3	12.4	48	ne.			4		0			0	0		
PORTUGUESE.																			
Angra, Azores					60.4	15.8	71	w.	13.0	5.8			4			0.079	2.0		Dr. J. A. Sampaio.
Campo Major	28.93	734.8	29.93	760.3	57.6	14.2	95	ssw.	4.9	2.2			10			1.110	28.2	raining	Dr. A. M. R. dos Santos.
Funchal, Maderia	29.95	760.8	30.04	763.0	68.7	20.4	76	w.					4			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.55	750.5	29.91	759.6	59.0	15.0	97	sw.	6.3	2.8			10			0.256	6.5	raining	The Staff.
Ponta Delgada, Azores	29.86	758.5	29.93	760.3	64.8	18.2	53	se.	3.1	1.4			4			0	0		
Saint Paul de Loando	29.78	756.3	29.98	761.4	77.9	25.5	94	wsw.	0.7	0.3			10			0	0	foggy	
Serra da Estrella	25.12	638.0	29.88	758.9	42.8	6.0	93	wsw.	16.8	7.5			10			2.362	60.0	raining	
RUSSIAN.																			
Akmolinski	29.09	738.9	30.17	766.3	54.5	12.5	32	w.	4	2		0	2 ks			0.016	0.4		Major K. Lasarew.
Archangel	29.86	758.5	29.88	759.0	48.0	8.9	74	wnw.	13	6		0	6 ks			0	0		Capt. Sselwerstow.
Astrakhan	30.13	765.2	30.04	763.1	61.0	16.1	74	e.	22	10			10 s;n			0.425	10.8		Capt. Wisganow.
Barnaul	29.63	752.7	30.13	765.4	51.1	10.6	74	nw.	9	4			7			0.004	0.1		Meteorological Obs'y.
Dorpat	29.71	754.7	29.95	760.6	71.1	21.7	52	sw.	11	5			9 kn						Observatory.
Ekaterinburg	28.95	735.2	29.88	758.9	65.7	18.7	38	wsw.	18	8			9			0.189	4.8		Meteorological Obs'y.
Kasan	29.76	755.7	30.00	762.1	78.4	25.8	35	wsw.	7	3		0	5			0	0		Observatory.
Kertch	29.92	760.0	29.94	760.5	64.2	17.9	83	se.	13	6		5 cs	0			0	0		Lagorio & Sastyrez.
Kieff	29.39	746.4	30.00	761.9	71.8	22.1	31	ese.	13	6		ck	3 ks			0	0		Observatory.
Lugan	29.83	757.7	30.03	762.7	75.6	24.2	22	ese.	22	10			2			0	0	light clouds	Meteorological Obs'y
Moscow	29.56	750.9	30.01	762.2	77.5	25.3	28	calm	0	0			0						Meteorological Obs'y.
Nikolaiev	29.90	759.4	29.97	761.2	75.0	23.9	48	calm	0	0		0	8 kn			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor.	29.91	759.7	30.00	761.9	44.1	6.7	91	calm	0	0			10			blank	blank		Lieut. Iwanow.
Pekin, China	29.74	755.4	29.88	759.0	73.8	23.2	44	se.	7	3		0	2 k			0	0		Physical Observatory
St. Petersburg	29.92	759.9	29.93	760.3	73.8	23.2	49	nw.	4	2		cs	2 k			0	0		Central Physical Obs'y.
Semipalatinsk	29.60	751.7	30.25	768.4	58.3	14.6	50	wnw.	4	2		0	6 ks			0	0		Major Lasareu.
Tashkend, Laboratory	28.55	725.1	30.05	763.2	79.3	26.3	46	n.	4	2			0			0	0		Teich, A. M.
Tiflis	28.56	725.3	29.94	760.5	66.9	19.4	59	nw.	2	1			10			0.248	6.3	light rain	Physical Observatory
Vladivostock	29.87	758.7	29.94	760.4	60.1	15.6	53	calm	0	0		0	6 k			0	0		
Warsaw	29.42	747.2	29.82	757.4	76.1	24.5	43	sw.	13	6		cs	4 ks					light clouds	Astronomical Obs'y
Wilna	29.58	751.2	29.97	761.3	77.0	25.0	36	sse.	7	3			1			0	0		Berg, Assistant.
Yeniseisk																			M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.83	757.6	29.93	760.3	73.4	23.	54	sw.	5.1	2.3		1c;cs	0			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	29.74	755.5	29.80	757.0	68.7	20.4	51	s.	4.9	2.2			10			0	0	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.96	684.8	29.91	759.8	53.4	11.9	78	sw.	13.6	6.1			10			0.953	24.2	covered	Domingo Martin.
Madrid, Royal Obs'y	27.72	704.1	29.95	760.7	55.4	13.0	89	w.	16.8	7.5			10			0.008	0.2	covered	The Staff.
Murcia, Met. Obs'y	29.70	754.3	29.87	758.6	82.8	28.2	43	ssw.	4.7	2.1		1	3			0	0	clouds	Olayo Diaz, Director.
Santiago, Met. Obs'y	28.84	732.4	29.72	754.8	59.4	15.2	70	sw.	16.8	7.5			4			1.303	33.1	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	29.93	760.1	29.99	761.7	75.3	24.1	86	se.	3.6	1.6		90p;cs	1 s	wsw.		1.287	32.7	cloudy	Benito Vines, S. J.
Manilla, Philippine Islands	29.82	757.4	29.87	758.8	86.3	30.2	72	se.	2.6	1.2		0	1 ks			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.97	761.3	30.07	763.8	68.9	20.5	70	ssw.	7.5	3.4		3	3	sw.	sw.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I.	29.98	761.6	30.08	763.9	79.5	26.4		calm	0	0		2 cs	2 k	se.	se.	0.441	11.2		Manuel Maese.
Tuguegarao, Philippine Id's	29.78	756.4	29.91	759.7	81.3	27.4	71	nw.	4.6	2.1		1 cs	9 kn		n.	0	0	covered	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.83	757.6	29.87	758.6	50.7	10.4	72	ne.			4		10			0	0		
Umea	29.80	757.0	29.85	758.3	50.7	10.4	92	nne.			2		10			0	0		
Hernosand	29.76	755.9	29.81	757.2	65.5	18.6	73	s.			2		4			0.016	0.4		
Stockholm	29.74	755.3	29.91	759.8	66.9	19.4	53	s.			2		10			0.024	0.6		
Wisby	29.80	756.8	29.85	758.3	60.4	15.8	73	e.			2		10			0	0		
Sub-series.																			
Upsala	29.78	756.4	29.87	758.6	66.7	19.3	57	s.	9.4	4.2			9	sw.	w.	0.209	5.3		S. G. Fineman.
SWISS.																			
Geneva	28.46	722.8	29.86	758.5	61.2	16.2	57	n.			1					0	0	covered	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather	Observers.
TURKISH.																			
Constantinople	.....	.....	30.05	763.2	68.9	20.5	44	sw.	6	2.5	.....	.....	1	.....	sw.	0	0	.....	The Observatory.
Valona	.....	.....	30.11	764.9	75.7	24.3	.....	s.	.....	.....	1	.....	2	.....	.....	0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.11	764.8	75.6	24.2	66	wsw.	.....	.....	2	0	3 ks	.....	sw.	0.08	2.0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.06	763.5	30.14	765.5	52	11.1	66	sw.	2	0.9	.....	.....	10 n	.....	.....	inap.	inap.	light rain	J. O. Barnes.
Alpena, Michigan	29.42	747.3	30.08	764.0	46	7.8	77	se.	1	0.4	.....	0	0	.....	.....	0	0	clear	Jas. J. Fitzgerald.
Atlanta, Georgia	28.90	734.0	30.07	763.8	69.0	20.6	76	se.	5	2.2	.....	0	0	.....	.....	0	0	clear	H. Hall.
Atlantic City, New Jersey	30.11	764.8	30.12	765.0	52.3	11.3	90	se.	4	1.8	.....	.....	10 n	.....	s.	0.58	14.7	light rain	Jas. M. Watson.
Augusta, Georgia	29.90	759.4	30.09	764.3	65	18.3	78	se.	2	0.9	.....	6 c	0	.....	.....	0	0	fair	John Healy.
Baltimore, Maryland	30.01	762.2	30.06	763.5	56	13.3	93	s.	6	2.7	.....	.....	10 n	.....	sw.	0.49	12.4	light rain	Robert Seyboth.
Barnegat, New Jersey	30.10	764.5	30.12	765.0	52.0	11.1	96	se.	7	3.1	.....	.....	10 n	.....	s.	0.28	7.1	light rain	Chas. F. Merritt.
Behring Island, Behring Sea	29.71	754.6	29.73	755.1	37.5	3.1	.....	e.	.....	.....	1	.....	10 ks	.....	.....	0	0	cloudy	Dr. L. Steineger.
Bismarck, Dakota	28.12	714.2	29.90	759.4	50	10.0	74	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	Cyrus Cramer.
Boise City, Idaho	26.93	684.0	29.77	756.1	48	8.9	66	nw.	2	0.9	.....	.....	10 s	.....	calm	0.06	1.5	cloudy	B. E. Light.
Boston, Massachusetts	29.96	761.0	30.12	765.0	55.0	12.8	49	w.	3	1.3	.....	10 cs	hz.	.....	.....	0	0	cloudy	O. B. Cole.
Brownsville, Texas	29.85	758.2	29.89	759.2	72	22.2	100	calm	0	0	.....	0	fg.	.....	.....	0.07	1.8	clear	M. McCarty.
Buffalo, New York	29.34	745.2	30.08	764.0	47.8	8.8	70	e.	3	1.3	.....	4 cs	3s;hz	nw.	.....	0.02	0.5	fair	Wm. Finn.
Burlington, Vermont	29.78	756.4	30.07	763.8	51.0	10.6	59	s.	7	3.1	.....	.....	10 s	.....	w.	inap.	inap.	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.69	754.1	30.09	764.3	60.6	15.9	89	ne.	8	3.6	.....	.....	10 s	.....	ne.	0.06	1.5	threatening.	W. H. Ray.
Campo, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. H. Clendenon.
Camp Thomas, Arizona	27.11	688.6	29.78	756.4	58	14.4	39	calm	.....	.....	0	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.02	762.5	30.04	763.0	63	17.2	78	sw.	16	7.2	.....	5 k	3 s	sw.	.....	0	0	cloudy	J. E. Lanouette.
Cape May, New Jersey	30.06	763.5	30.09	764.3	55	12.8	86	e.	9	4.0	.....	.....	10 n	.....	e.	0.43	10.9	heavy rain	W. Bolten.
Cedar Keys, Florida	30.02	762.5	30.04	763.0	74	23.3	82	e.	8	3.6	.....	4 c	0	.....	.....	1.20	30.5	fair	F. W. Mixer.
Champaign, Illinois	29.30	744.2	30.10	764.5	48.0	8.9	83	ne.	10	4.5	.....	3 c	0	nw.	.....	1.16	29.5	clear	L. A. Welsh.
Charleston, S. Carolina	30.00	762.0	30.05	763.3	68	20.0	84	ne.	4	1.8	.....	5 c	0	ne.	.....	0	0	fair	J. H. Smith.
Charlotte, N. Carolina	29.19	741.4	30.03	762.7	68.0	20.0	66	sw.	3	1.3	.....	0	hz.	.....	.....	0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.24	742.7	30.06	763.5	60.0	15.6	81	nw.	1	0.4	.....	0	sk.	.....	.....	0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	23.93	607.8	29.80	756.9	44.2	6.8	86	sw.	10	4.5	.....	.....	10s;fg	.....	.....	inap.	inap.	cloudy	E. McGovern.
Chicago, Illinois	29.43	747.5	30.13	765.3	49.7	9.8	87	ne.	2	0.9	.....	0	0	.....	.....	0.25	6.3	clear	J. Mitchell.
Chincoteague, Virginia	30.06	763.5	30.08	764.0	57	13.9	100	nw.	20	8.9	.....	.....	10 n	.....	nw.	0.07	1.8	light rain	V. P. Temple.
Cincinnati, Ohio	29.44	747.8	30.09	764.3	52	11.1	86	ne.	4	1.8	.....	.....	10 s	.....	ne.	0.13	3.3	cloudy	R. B. Watkins.
Cleveland, Ohio	29.38	746.2	30.11	764.8	48.5	9.2	79	se.	3	1.3	.....	0	0	.....	.....	0.05	1.3	clear	J. B. Newlin.
Coleman City, Texas	28.09	713.5	29.88	758.9	63	17.2	93	s.	10	4.5	.....	0	8 s	.....	s.	0.55	14.0	cloudy	L. Dorman.
Columbus, Ohio	29.24	742.7	30.08	764.0	49	9.4	86	ne.	3	1.3	.....	5 k	4 s	nw.	.....	0.58	14.7	cloudy	D. Cuthbertson.
Concho, Texas	28.04	712.2	29.94	760.5	65	18.3	78	se.	16	7.2	.....	0	5 s	.....	s.	0	0	fair	W. W. McConihe.
Davenport, Iowa	29.49	749.0	30.13	765.3	45	7.2	83	ne.	3	1.3	.....	.....	fg.	.....	calm	0.47	11.9	dense fog	R. R. Martin.
Dayton, Washington T'y	28.00	711.2	29.75	755.6	49.2	9.6	70	ne.	5	2.2	.....	5 c	0	.....	.....	0	0	fair	H. Clifford.
Deadwood, Dakota	25.30	642.6	29.81	757.2	43.5	6.4	63	sw.	2	0.9	.....	3 c	0	w.	.....	0	0	clear	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	D. J. Carr.
Delaware Breakwater, Del.	30.08	764.0	30.10	764.5	55	12.8	93	ne.	14	6.3	.....	.....	10n;fog	.....	sw.	0.21	5.3	light rain	A. Schneider.
Denison, Texas	29.12	739.6	29.91	759.7	67.4	19.7	73	s.	6	2.7	.....	10 cs	0	.....	.....	0	0	cloudy	J. McGlone.
Denver, Colorado	24.63	625.6	29.79	756.7	47.0	8.3	80	nw.	6	2.7	.....	4 c	0	calm	.....	0.01	0.3	fair	F. M. Neal.
Des Moines, Iowa	29.24	742.7	30.13	765.3	40	4.4	89	e.	1	0.4	.....	.....	fg.	.....	.....	0.24	6.1	dense fog	F. W. Conrad.
Detroit, Michigan	29.42	747.3	30.12	765.0	47.2	8.4	63	w.	9	4.0	.....	0	0	.....	.....	0.02	0.5	clear	C. F. R. Wappenhans.
Dodge City, Kansas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	E. A. Thomas.
Dubuque, Iowa	29.41	747.0	30.11	764.8	43.8	6.6	80	s.	1	0.4	.....	0	fg.	.....	calm	0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.17	740.9	29.87	758.7	48	8.9	86	ne.	3	1.3	.....	.....	10 s	.....	calm	0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.13	739.9	29.93	760.2	73.0	22.8	90	se.	6	2.7	.....	0	2 s	.....	se.	0	0	clear	F. Belford.
Eagle Rock, Idaho	25.11	637.8	29.79	756.7	47	8.3	61	n.	14	6.3	.....	.....	10 s	.....	s.	0	0	cloudy	J. M. Clifford.
Eastport, Maine	29.99	761.7	30.06	763.5	49	9.4	74	sw.	3	1.3	.....	0	0	.....	.....	0.04	1.0	clear	J. H. Melton.
El Paso, Texas	26.20	665.5	29.84	757.9	56	13.3	34	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.38	746.2	30.10	764.5	50	10.0	72	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	R. H. Paxton.
Escanaba, Michigan	29.38	746.2	30.04	763.0	49	9.4	71	calm	0	0	.....	0	0	.....	.....	0.02	0.5	clear	C. Dill.
Fort Apache, Arizona	24.95	633.7	29.77	756.1	39	3.9	52	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.08	687.8	29.92	760.0	49	9.4	58	ne.	12	5.4	.....	0	0	.....	.....	0	0	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.31	719.1	29.87	758.7	55	12.8	74	se.	6	2.7	.....	2 c	2 s	calm	calm	0	0	fair	A. Pritchard.
Fort Benton, Montana	27.06	687.3	29.85	758.2	52	11.1	55	ne.	13	5.8	.....	1 c	0	.....	.....	0	0	clear	G. W. Davis.
Fort Buford, Dakota	27.98	710.7	29.96	761.0	43	6.1	68	ne.	7	3.1	.....	0	0	.....	.....	0	0	clear	A. H. Bell.
Fort Custer, Montana	26.68	677.7	29.78	756.4	46	7.8	86	se.	2	0.9	.....	0	2 s	.....	calm	0	0	clear	V. Verge.
Fort Davis, Texas	25.09	637.3	29.81	757.2	60	15.6	50	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Williams.
Fort Elliott, Texas	27.22	691.4	29.92	760.0	49	9.4	58	n.	12	5.4	.....	.....	10 s	.....	n.	1.05	26.7	cloudy	W. J. Cundall.
Fort Gibson, Indian T'y	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. B. Campbell.
Fort Grant, Arizona	25.18	639.6	29.79	756.7	58	14.4	10	calm	0	0	.....	0	0	.....	.....	0	0	clear	T. J. Macgowan.
Fort Keogh, Montana	27.36	694.9	29.81	757.2	48	8.9	66	ne.	14	6.3	.....	8 c	0	e.	.....	0	0	cloudy	W. B. Stockman.
Fort Macon, North Carolina	30.06	763.5	30.06	763.5	67	19.4	90	n.	2	0.9	.....	hz.	hz.	calm	calm	0	0	dense haze	L. Leonardy.
Fort McKavett, Texas	27.69	703.3	29.93	760.2	66	18.9	65	se.	20	8.9	.....	.....	10 s	.....	.....	0	0	cloudy	J. E. Thatcher.
Fort Missoula, Montana	26.52	673.6	29.82	757.4	45	7.2	93	e	1	0.4	.....	4 c	4 s	w.	w.	0	0	cloudy	J. H. Jones.
Fort St. Michaels, Alaska	29.66	753.4	29.70	754.4	38	3.3	91	se.	8	3.6	.....	0	8 s	.....	se.	0	0	fair	A. P. Leavitt.
Fort Shaw, Montana	26.24	666.5	29.84	757.9	40	4.4	73	w.	7	3.1	.....	2 cs	0	w.	.....	0	0	clear	A. L. Mathews.
Fort Sill, Indian Territory	28.75	730.2	29.97	761.2	58	14.4	93	nw.	13	5.8	.....	.....	10 s	.....	.....	0.91	23.1	cloudy	T. Cleary.
Fort Stevenson, Dakota	28.08	713.2	29.90	759.4	44	6.7	76	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. Burrows.
Fort Verde, Arizona	.....	.....	.....	.....	60.3	15.7	46	w.	.....	.....	2	0	hz.	.....	.....	0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.33	618.0	.....	.....	44.0	6.7	89	calm	0	0	.....	4 c	2 k	.....	.....	0.01	0.3	fair	T. M. Ambler.
Fredericksburg, Texas	28.24	717.3	29.96	761.0	65	18.3	90	ne.	1	0.4	.....	.....	10 ks	.....	ne.	0	0	cloudy	H. S. Miles.
Galveston, Texas	29.92	760.0	29.97	761.2	74	23.3	81	se.	2	0.9	.....	1 c	4 ks;hz	.....	s.	0	0	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.46	748.3	30.12	765.0	49.5	9.7	77	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. A. Reid.
Hatteras, North Carolina	30.05	763.3	30.07	763.8	71	21.7	76	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	R. M. Crawford.
Helena, Montana	25.64	651.2	29.80	756.9	48	8.9	52	sw.	6	2.7	.....	6 c	0	.....	.....	0	0	fair	S. Wheaton.
Henrietta, Texas	28.99	736.3	29.97	761.2	63.0	17.2	93	nw.	10	4.5	.....	.....	10 s	.....	nw.	0.14	3.6	cloudy	J. W. Byram.
Huron, Dakota	28.60	726.4	29.95	760.7	49	9.4	86	s.	10	4.5	.....	0	0	.....	.....	0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.30	744.2	30.08	764.0	49	9.4	86	ne.	6	2.7	.....	.....	10 ks	.....	ne.	0.87	22.1	cloudy	O. Schutze
Indianola, Texas	29.92	760.0	29.95	760.7	74.7	23.7	85	e.	4	1.8	.....	4 cs	0	nw.	.....	0	0	fair	I. A. Reed.
Jacksboro, Texas	28.77	730.7	29.92	760.0	64	17.8	93	e.	1	0.4	.....	10 cs	0	.....	.....	0.20	5.1	cloudy	J. P. Sherry.
Jacksonville, Florida	30.00	762.0	30.04	763.0	74	23.3	82	e.	1	0.4	.....	2 cs	0	.....	.....	0	0	clear	J. W. Smith.
Keokuk, Iowa	29.47	748.5	30.12	765.0	50.5	10.3	82	ne.	4	1.8	.....	0	0	.....	.....	1.08	27.4	clear	F. Z. Gosewisch.
Key West, Florida	29.96	761.0	29.98	761.5	75.0	23.9	85	e.	4	1.8	.....	.....	10 n	.....	e.	1.16	29.5	light rain	L. M. Melbourne.
Kittyhawk, North Carolina	30.05	763.3	30.07	763.8	65	18.3	84	s.	7	3.1	.....	3 c	0	sw.	.....	0	0	clear	E. A. Beals.
Knoxville, Tennessee	29.03	737.3	30.05	763.3	62.8	17.1	78	w.	6	2.7	.....	2 c	0	w	.....	0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.31	744.5	30.07	763.8	54	12.2	61	s.	10	4.5	.....	0	0	.....	.....	0	0	clear	S. C. Emery.
La Mesilla, New Mexico	26.05	661.7	29.81	757.2	47.2	8.4	44	calm	0	0	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.24	742.7	30.12	765.0	48	8.9	86	e.	4	1.8	.....	.....	10 s	.....	.....	0.52	13.2	cloudy	A. W. Browne.
Lewiston, Idaho	28.88	763.5	29.72	754.9	53.9	12.2	66	calm	0	0	.....	0	4 s	.....	.....	0	0	fair	J. M. Burlew.
Little Rock, Arkansas	29.67	753.6	29.98	761.5	64	17.8	90	calm	0	0	.....	6 ck	0	calm	.....	0	0	fair	W. U. Simmons.
Los Angeles, California	29.62	752.3	30.02	762.5	56.0	13.3	86	sw.	1	0.4	.....	.....	10 s	.....	calm	0.61	15.5	cloudy	E. F. Kubel.
Louisville, Kentucky	29.46	748.3	30.00	762.0	53.5	11.9	88	n.	12	5.4	.....	.....	10 s	.....	n.	0.11	2.8	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.39	746.5	30.07	763.8	64.5	18.1	60	sw.	4	1.8	.....	.....	10 ks	.....	w.	0.06	1.5	cloudy	W. R. Bushby.
Madison, Wisconsin	29.12	739.6	30.12	765.0	46	7.8	83	w.	5	2.2	.....	1 cs	0	w.	.....	0	0	clear	C. A. Shaw.
Marquette, Michigan	29.26	743.2	29.98	761.5	54	12.2	49	w.	14	6.3	.....	1 c	0	w.	.....	0.03	0.8	clear	J. Gilligan.
Memphis, Tennessee	29.69	754.1	30.02	762.5	66	18.9	78	ne.	8	3.6	.....	4 cs	0	nw.	.....	0	0	fair	D. T. Flannery.
Milwaukee, Wisconsin	29.36	745.7	30.10	764.5	47	8.3	68	sw.	14	6.3	.....	1 ck	hz.	.....	.....	0	0	clear	W. Line.
Mobile, Alabama	29.98	761.5	30.02	762.5	69	20.6	87	n.	2	0.9	.....	1 c	0	.....	.....	0	0	clear	J. D. Paxton.

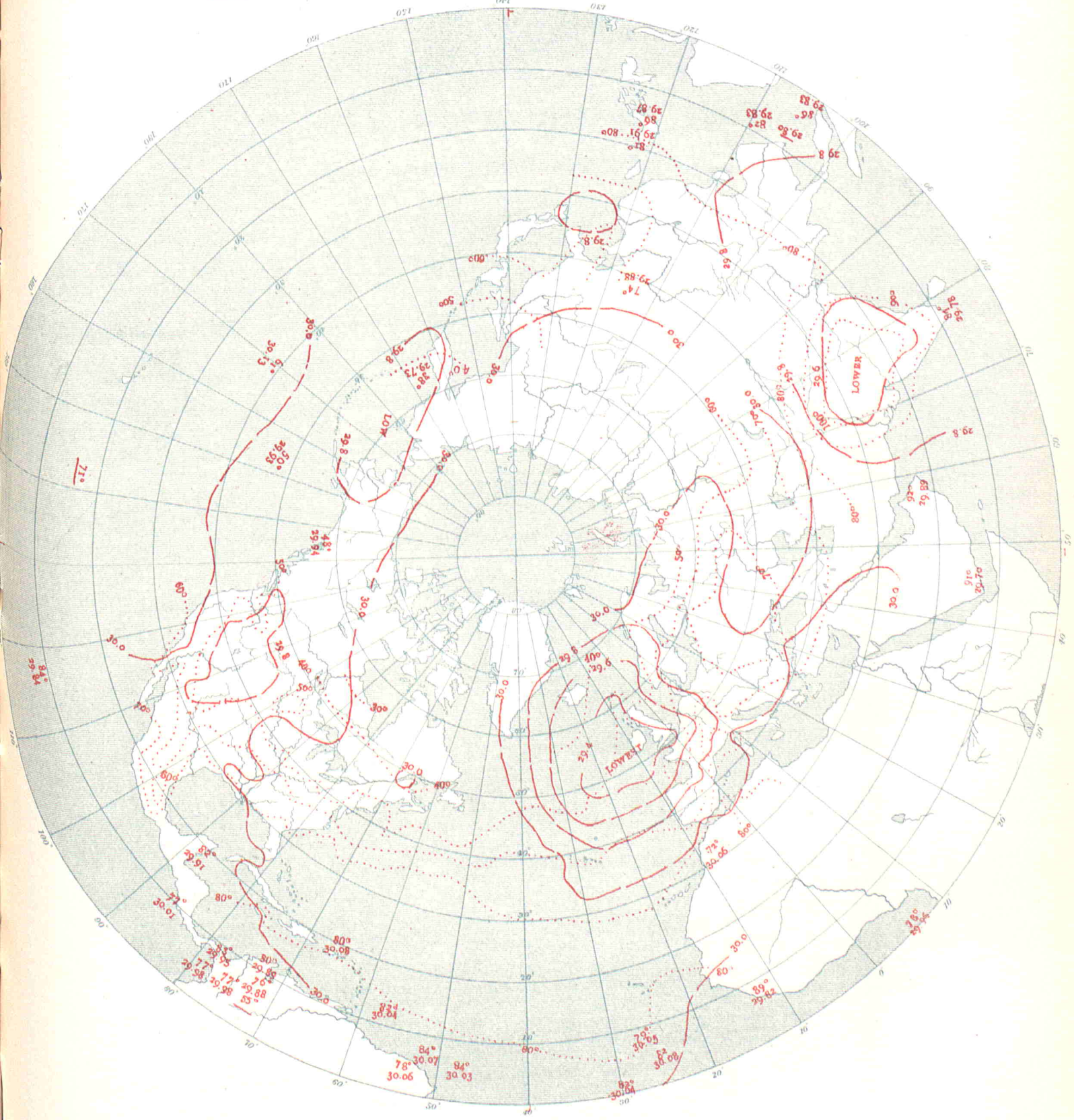
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Montgomery, Alabama	29.80	756.9	30.03	762.7	67.6	19.8	79	calm	0	0		1 cs	0			0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	28.84	732.5	29.82	757.4	50.3	10.2	58	n.	14	6.3		6 ck	0	w.		0	0	fair	H. Bessant.
Morgantown, W. Virginia	29.06	738.1	30.07	763.8	49.5	9.7	74	ne.	9	4.0			10 n			0.30	7.6	light rain	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.77	603.7	29.95	760.7	24.0	— 4.4	88	nw.	24	10.7			10 s		nw.	0	0	cloudy	J. G. Livsley.
Nashville, Tennessee	29.50	749.3	30.02	762.5	63.0	17.2	78	calm	0	0		8 cs	fg.	w.		0	0	fair	L. A. Jesunofsky.
New Haven, Connecticut	30.04	763.0	30.16	766.1	49	9.4	63	n.	2	0.9			ron;fg		n.	inap.	inap.	light rain	J. H. Sherman.
New London, Connecticut	30.11	764.8	30.16	766.1	52	11.1	72	n.	1	0.4		9 k	fg.	calm		0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.93	760.2	29.98	761.5	72.0	22.2	87	ne.	4	1.8			10 s		ne.	0	0	cloudy	L. Dunne.
Newport, Rhode Island	30.09	764.3	30.14	765.5	52.2	11.2	66	calm	0	0			10 s		calm	0	0	cloudy	W. McGillivray.
New River, N. Carolina					70	21.1	77	calm			0	0	2 s			0	0	clear	C. C. Corbin.
New Shoreham, Rhode I'd.	30.11	764.8	30.14	765.5	50.0	10.0	77	calm	0	0		10 cs	0	w.		0	0	cloudy	W. Davis.
New York, New York	29.96	761.0	30.14	765.5	52	11.1	93	e.	4	1.8			10 n		e.	0.16	4.1	light rain	E. B. Garriott.
Norfolk, Virginia	30.03	762.7	30.06	763.5	62	16.7	84	sw.	5	2.2		4 ck	5 s	se.		0	0	cloudy	J. T. Elker.
North Platte, Nebraska	27.12	688.8	29.99	761.7	47.6	8.7	91	s.	6	2.7			10 s			0.04	1.0	cloudy	E. F. Brady.
Olympia, Washington T'y	29.82	757.4	29.86	758.4	46.5	8.1	88	ne.	2	0.9		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	28.97	735.8	30.13	765.3	45.0	7.2	93	calm	0	0			fg.			0.25	6.3	dense fog	A. Pollak.
Ogdenamie, Pt. Barrow, Alas.	30.03	762.7	30.05	763.3	17.4	— 8.1		ene.	22	9.8			10 s			0	0	cloudy	P. H. Ray.
Oswego, New York	29.77	756.1	30.10	764.5	51.0	10.6	66	s.	8	3.6			10 s			inap.	inap	cloudy	S. W. Beall.
Palestine, Texas	29.49	749.0	30.04	763.0	67	19.4	90	se.	4	1.8		0	3 s			0	0	clear	L. M. Pindell.
Pensacola, Florida	29.99	761.7	30.02	762.5	70.7	21.5	94	s.	4	1.8		0	6 s		se.	0	0	fair	M. McGauran.
Philadelphia, Pa.	29.96	761.0	30.06	763.5	55	12.8	100	se.	10	4.5			10 n		se.	0.45	11.4	light rain	T. F. Townsend.
Pike's Peak, Colorado	17.76	451.1	29.82	757.4	19.5	— 6.9	93	sw.	29	13.0		3 cs	0	sw.		0	0	clear	L. M. Dey.
Pioche, Nevada	23.84	605.5	29.76	755.9	44	6.7	51	se.	5	2.2		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.28	743.7	30.08	764.0	48.8	9.3	86	n.	6	2.7			10 n		nw.	0.22	5.6	light rain	J. H. Bryce.
Poplar River, Montana	27.83	706.9						se.			1	0	0			0	0	clear	U. D. Maxwell.
Port Eads, Louisiana	29.98	761.5	29.99	761.7	73.0	22.8	98	e.	8	3.6		2 c	0	w.		0	0	clear	H. G. Christian.
Port Huron, Michigan	29.42	747.3	30.10	764.5	48.4	9.1	58	n.	3	1.3		0	hz.			0	0	clear	W. O. Bailey.
Portland, Maine	30.03	762.7	30.08	764.0	53.0	11.7	55	w.	4	1.8		4 c	4 s	calm	calm	0	0	cloudy	D. C. Murphy.
Portland, Oregon	29.82	757.4	29.89	759.2	52.0	11.1	80	se.	4	1.8		0	1 s		calm	0	0	clear	M. L. Hearne.
Portsmouth, N. Carolina					72	22.2	53	calm	0	0		0	hz.		calm	0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.75	628.6	29.85	758.2	45	7.2	58	s.	1	0.4		0	0			0	0	clear	J. McN. Wright.
Provincetown, Mass.	30.09	764.3	30.12	765.0	53.5	11.9	74	s.	3	1.3		2 cs	2 s	nw.		0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	29.99	761.7	30.00	762.0	70.5	21.4	90	ne.	5	2.2			10 n		calm	0.64	16.3	light rain	W. J. Evans.
Red Bluff, California	29.55	750.6	29.92	760.0	56.5	13.6	92	s.	4	1.8			10 n		s.	0.05	1.3	light rain	J. M. Frantz.
Rio Grande City, Texas	29.70	754.4	29.94	760.5	77	25.0	85	se.	5	2.2			10 ks		se.	0	0	cloudy	P. M. Wilson.
Rochester, New York	29.42	747.3	30.08	764.0	46	7.8	83	s.	10	4.5			10 n		s.	0.01	0.3	light rain	F. Gillam.
Roseburg, Oregon	29.42	747.3	29.97	761.2	45.5	7.5	83	calm	0	0		2 ck	0	w.		0	0	clear	J. J. Naury.
Sacramento, California	29.87	758.7	29.95	760.7	53.0	11.7	80	s.	12	5.4			10 s		sw.	0.35	8.9	cloudy	J. A. Barwick.
St. Louis, Missouri	29.53	750.0	30.12	765.0	49.0	9.4	100	n.	11	4.9			10s;fg			0.12	3.0	cloudy	J. H. Webber.
St. Paul, Minnesota	29.13	739.9	29.98	761.5	49.0	9.4	86	sw.	7	3.1		1 ck	0	n.		0.04	1.0	clear	P. F. Lyons.
St. Vincent, Minnesota	28.98	736.1	29.84	757.9	45	7.2	93	nw.	11	4.9		0	0			0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.40	645.1	29.72	754.9	60	15.6	46	se.	2	0.9		7 k	0	sw.		0	0	fair	J. Craig.
San Antonio, Texas	29.27	743.4	29.97	761.2	72	22.2	97	e.	3	1.3			10 ks		se.	0.13	3.3	cloudy	E. Lane.
San Diego, California	29.93	760.2	30.00	762.0	59.4	15.2	77	w.	6	2.7		1 k	5 ks	w.	w.	0	0	fair	A. C. Dobbins.
Sandusky, Ohio	29.41	747.0	30.08	764.0	51.7	10.9	59	n.	16	7.2		0	0			0.02	0.5	clear	M. H. Perry.
Sandy Hook, New Jersey	30.10	764.5	30.14	765.5	53.0	11.7	93	e.	2	0.9			10 n		e.	0.25	6.3	light rain	B. A. Blundon.
San Francisco, California	29.92	760.0	29.99	761.7	55	12.8	80	sw.	6	2.7			10 s		sw.	0	0	cloudy	N. Gorom.
Santa Fé, New Mexico	23.19	589.0	29.80	756.9	52	11.1	47	e.	6	2.7		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	29.98	761.5	30.07	763.8	68	20.0	73	ne.	3	1.3		5 c	0			0	0	fair	H. W. Ford.
Shreveport, Louisiana	29.76	755.9	30.00	762.0	65	18.3	84	s.	1	0.4		4 c	hz.			0	0	fair	E. N. Meekins.
Silver City, New Mexico	24.24	615.7	29.79	756.7	46	7.8	58	nw.	3	1.3		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	29.88	758.9	29.94	760.5	48.1	8.9	71	e.	4	1.8			10 s		calm	0	0	cloudy	J. J. McLean.
Smithville, North Carolina	30.03	762.7	30.07	763.8	70	21.1	84	e.	4	1.8		3 c	0			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.73	704.3	29.78	756.4	47	8.3	86	calm	0	0		3 c	0			0	0	clear	D. Moore.
Springfield, Illinois	29.45	748.0	30.12	765.0	49	9.4	77	ne.	7	3.1		0	1 s		ne.	0.90	22.9	clear	T. B. Jennings.
Springfield, Massachusetts	30.02	762.5	30.15	765.8	49.6	9.8	69	s.	3	1.3			10 s			0	0	cloudy	T. S. Outram.
Springfield, Mo.	28.60	726.4	30.08	764.0	55	12.8	96	ne.	7	3.1			fg.			0.69	17.5	dense fog	J. B. Marbury.
Starkville, Miss.	29.56	750.8			66	18.9	84	ne.	4	1.8		1 c	0			0	0	clear	M. J. Wright.
Stockton, Texas	26.88	682.7	29.89	759.2	65.0	18.3	93	s.	12	5.4		0	0			0.04	1.0	clear	J. O'Dowd.
Thatcher's Island, Mass.	30.03	762.7	30.08	764.0	49.9	9.9	81	w.	5	2.2			10 s			0	0	cloudy	F. R. Day.
Toledo, Ohio	29.43	747.5	30.11	764.8	50	10.0	64	n.	8	3.6		0	0			0.01	0.3	clear	A. Buell.
Tucson, Arizona	27.44	697.0	29.78	756.4	56	13.3	47	s.	6	2.7		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.40	746.7	29.77	756.1	53	11.7	61	se.	4	1.8		2 c	2 s			0	0	fair	J. Daly.
Uvalde, Texas	28.97	735.8	29.92	760.0	72	22.2	90	se.	5	2.2			10 s			0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.76	755.9	30.01	762.2	67	19.4	84	calm	0	0		0	0			0	0	clear	H. T. Brisbane.
Visalia, California	29.58	751.3	29.95	760.7	56	13.3	90	w.	1	0.4			10 s		nw.	0.35	8.9	cloudy	W. L. Seward.
Washington, D. C.	29.93	760.2	30.04	763.0	56.6	13.7	86	s.	2	0.9			10 n		sw.	0.33	8.4	light rain	B. M. Pursell.
West Las Animas, Colorado	26.01	660.6	29.87	758.7	52.5	11.4	75	e.	6	2.7		0	5 s		se.	0	0	fair	J. Grover.
Williamsport, Pa.	29.48	748.8	30.08	764.0	49	9.4	80	calm	0	0			10 n		e.	0.35	8.9	light rain	B. F. Hough.
Wilmington, N. Carolina	30.02	762.5	30.07	763.8	70	21.1	79	calm	0	0		3 c	0			0	0	clear	A. T. Sherwood.
Winnemucca, Nevada	25.42	645.7	29.77	756.1	46	7.8	89	sw.	8	3.6			10 ks		nw.	0.08	2.0	cloudy	J. R. Williams.
Yankton, Dakota	28.76	730.5	30.04	763.0	49	9.4	77	w.	5	2.2		0	0			0	0	clear	J. H. Atfield.
Yuma, Arizona	29.72	754.9	29.87	758.7	60.0	15.6	60	w.	6	2.7		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.07	560.6			54.5	12.5	74	se.	1	0.4			10 s;n			0.07	1.8	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.03	762.7	30.04	763.0	82	27.8	91	e.				5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.95	760.7	29.98	761.5	77	25.0	95	sw.	4	1.8			10 ks		s.	0.10	2.5	cloudy	J. I. Plume.
Havana, Cuba, W. I.	30.00	762.0	30.05	763.3	78	25.6	76	se.	1.2	0.5			10 ks		calm	0.85	21.6	cloudy	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.00	762.0	30.01	762.2	79.0	26.1	76	calm	0	0		0	0			0	0	fine	Robert Johnston.
Magua, San Domingo, W. I.					72	22.2		calm			0	0	0			0.03	0.8		S. M. Pike.
Navassa, W. I.																			F. M. Everett.
Paramaribo, S. A.	30.06	763.5	30.06	763.5	78	25.6	91	e.			2	5 k	7 ps	e.	e.	0.120	3.0		Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.42	747.3	29.88	758.9	76	24.4	94	s.			1		9 ks		s.	0.72	18.3	clearing	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							94	ne.			1	9 cs	0	se.		0	0	fair	Earl Flint.
Santiago de Cuba, W. I.	29.98	761.5	30.00	762.0	79	26.1	82	calm	0	0		2 c	7 s		s.	0	0	cloudy	Robert Mason.
York Factory, B. A.	30.00	762.0	30.05	763.3	25.0	— 3.9	94	ne.	10	4.5		0	0			0	0	clear	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
										Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	Direction. From.	Velocity. Miles p. hr.	Velocity. Mtrs. p. sec	Force. 0-10	Upper. 0-10	Lower. 0-10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
BRITISH NAVAL.																		
H. M. S. Alert, S. 21° 20′ E. 42° 22′	30.06	763.5	81	27.2	66	sw.			2		2							d. clouds.
H. M. S. Alexandra, Suda Bay, Turkey in Europe	30.11	764.8	71.5	21.9	62	w.			5		5	wnw.						d. clouds.
H. M. S. Amethyst, N. 6° 07′, W. 24° 50′	29.93	760.2	81.5	27.5	93	se.			2		6	sse.				3	sse.	d. clouds.
H. M. S. Champion, N. 16° 05′, W. 142° 10′			71	21.7	?	ne.			2		3	ne.				2	ne.	d. clouds.
H. M. S. Comus, N. 6° 30′, E. 107° 30′	29.83	757.7	81.5	27.5	91	nne.			1-2		5							showery.
H. M. S. Diamond, S 31° 20′, E. 156° 20′	29.91	759.7	68.5	20.3	65	wsw.			2-3		1					1-2	wsw.	blue sky.
H. M. S. Dido, N. 13° 05′, W. 59° 30′	30.09	764.3	80	26.7		se.			2		4	e.						d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	30.10	764.5	72.5	22.5	78	sse.			1-2		5	sse.						d. clouds.
H. M. S. Druid, N. 17° 29′, W. 88° 11′	29.91	759.7	82	27.8	87	ese.			1		3	ese.						d. clouds.
H. M. S. Dwarf, S. 30° 19′, W. 59° 33′	29.98	761.5	60.5	15.8	77	e.			1		9					1	e.	d. clouds.
H. M. S. Eclipse, S. 23° 35′, E. 43° 44′	30.02	762.5	78	25.6		wsw.			1		2							d. clouds.
H. M. S. Emerald, S. 52° 45′, W. 123° 10′	29.61	752.1	44	6.7	?	n.			2-3		10					5	w.	d. clouds.
H. M. S. Espiegle, S. 33° 12′ E. 156° 25′	29.77	756.1	66	18.9	78	w.			2		0					5	w.	blue sky.
H. M. S. Euryalus, N. 8° 30′, E. 76° 30′	29.78	756.4	84	28.9	83	nw.			2-3		2	calm				2	nw.	d. clouds.
H. M. S. Fantome, Savanilla, U. S. C.	29.89	759.2	80	26.7		ese.			1		4	ese.						d. clouds.
H. M. S. Flying Fish, N. 37° 58′, E. 124° 40′	29.85	758.2	59	15.0	81	nw.			2		6					1	nw.	misty.
H. M. S. Fawn, S. 5° 28′, E. 67° 35′	29.89	759.2	80.5	26.9	74	s.			3		8					2	s.	d. clouds.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.11	764.8	54.5	12.5	90	se.			1		10							overcast.
H. M. S. Garnet, Colonia, Rio de La Plata, Uruguay	30.16	766.1	51	10.6	78	nne.			2		0							blue sky.
H. M. S. Inconstant, S. 20° 30′ E. 1° 00′	30.20	767.1	67	19.4	94	ese.			4		10	ese.				4	ese.	misty.
H. M. S. Iron Duke, N. 32° 44′ E. 129° 52′	29.77	756.1	64	17.8	94	nne.			2		10							raining.
H. M. S. Kingfisher, N. 4° 40′, W. 79° 28′	29.98	761.5	77	25.0		w.			1		6	w.				1-2	w.	showery.
H. M. S. Lark, S. 8° 39′, E. 156° 04′	29.88	758.9	81.3	27.4		se.			1		5					2	se.	d. clouds.
H. M. S. Magpie, N. 35° 26′, E. 139° 33′	29.94	760.5	69.5	20.8	75	s.			2-3		10					1	ssw.	d. clouds.
H. M. S. Northampton, Halifax, Nova Scotia	30.02	762.5	47	8.3	96	calm			0		5	nnw.						d. clouds.
H. M. S. Pegasus, N. 1° 17′, E. 103° 51′	29.83	757.7	85.5	29.7	73	w.			1		7							d. clouds.
H. M. S. Phœnix, N. 18° 25′, W. 77° 08′	30.00	762.0	82	27.8	91	calm			0		0					1	e.	blue sky.
H. M. S. Rambler, St. Thomas Island, Gulf of Guinea	29.96	761.0	78	25.6	100	se.			2		7	sse.				3	sse.	d. clouds.
H. M. S. Rocket, N. 48° 27′, W. 123° 27′	29.78	756.4	50	10.0	93	calm			0		2							d. clouds.
H. M. S. Sylvia, N. 14° 04′, W. 26° 13′	30.03	762.7	74.5	23.6	85	nne.			3		1					2	nne.	blue sky.
H. M. S. Swiftsure, Vigo Bay, Spain	29.70	754.4	61	16.1	77	ssw.			4		6	ssw.						d. clouds.
H. M. S. Tenedos, N. 47° 34′ W. 52° 41′	30.14	765.5	41.5	5.3	87	sw.			1		7							d. clouds.
H. M. S. Triumph, Coquimbo, Chili	30.12	765.0	55	12.8	87	ene.			1-2		10	calm						d. clouds.
H. M. S. Woodlark, Ras el Had, Arabia	29.69	754.1	91.5	33.1	45	ne.			2		0					3	s.	misty.
PORTUGUESE NAVAL.																		
Rio Lima, Porto Praya, Cape Verd Islands	30.04	763.0	83.8	28.8	72	ne.			3		0					2		blue sky.
Tamega, Macao, China	29.82	757.3	82.4	28.0	85	e.			3		7							d. clouds.
SWEDISH NAVAL.																		
Sago, N. 55° 17′, E. 3° 43′	29.60	751.9	56.3	13.5	83	ese.			3		5							d. clouds.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla.	29.97	761.2	71	21.7	95	nne.	2	0.9			5		se	0	0			fair.
N. Yard, Portsmouth, N. H.	30.07	763.8	51	10.6	79	calm	0	0			2		nw.	0	0			fair.
Naval Hospital, Yokohama, Japan	29.86	758.4	68.5	20.3	77	sw.			3		10		w.	0	0			cloudy.
Adams, Mare Island, Cal.	29.82	757.4	56	13.3	87	wsw.			2		10		w.			sm'h		cloudy.
Alaska, Callao, Peru	29.94	760.5	61	16.1	94	calm			0		5			0	0	sm'h		fair.
Alert, Kobe, Japan*	29.81	757.2	72	22.2	76	ene.			1		10		calm	0	0	sm'h		cloudy.
Alliance, N. 37° 02′, W. 74° 14′	30.06	763.5	57	13.9	87	e.			2		2			0	0	sm'h		clear.
Ashuelot, Kobe, Japan	29.88	758.9	70	21.1	85	e.			1		10		calm					cloudy.
Brooklyn, S. 34° 47′, W. 53° 55′	30.21	767.3	55	12.8	87	e.	12	5.4			2		calm	0	0	mod.	se.	fair.
Colorado, New York, N. Y.	30.13	765.3	53	11.7	86	e.			1		10			0.07	1.8			raining.
Essex, Montevideo, Uruguay	30.19	766.8	57	13.9	81	ne.			1		0					sm'h		clear.
Franklin, Norfolk, Va.	30.08	764.0	62	16.7	77	s.	10	4.5			5		w.	0	0			fair.
Galena, Mogador, Marocco	30.09	764.3	69	20.6	90	sw.			2		57					long	nw.	overcast?.
Independence, Mare Island, Cal.	29.81	757.2	56	13.3	87	wsw.			2		8		sw.	0.08	2.0			cloudy.
Iroquois, San Francisco, Cal.	29.97	761.2	55	12.8	74	calm			0		10							misty.
Kearsarge, N. 37° 06′, W. 74° 18′	30.07	763.8	57	13.9	87	se.			3		2					sm'h		clear.
Lackawana, Panama Bay, Panama*	29.92	760.0	78	25.6	91	calm			0		8		nw.					cloudy.
Lancaster, Mogador, Marocco	30.06	763.5	72	22.2	90	w.			1		0			0	0	long	w.	clear.
Marion, S. 34° 54′, W. 56° 13′	30.14	765.5	50	10.0	100	ne.			2		0					sm'h		clear.
Michigan, Erie, Pa.	30.07	763.8	50	10.0	93	sse.			2		0							clear.
Minnesota, Newport, R. I.	30.13	765.3	55	12.8	74	calm	0	0			10							overcast.
Monocacy, Nagasaki, Japan	29.78	756.4	66	18.9	100	ene.			1		10		calm					rainy.
New Hampshire, Newport, R. I.	29.98	761.5	47	8.3	92	se.			1		10					sm'h		overcast.
Nipsic, Mogador, Marocco	30.09	764.3	70	21.1	70	nnw.			3		0					long	nnw.	clear.
Onward, Callao, Peru†	30.13	765.3	61	16.1	94	wnw.			1		10		s.			long	w.	cloudy.
Palos, Kobe, Japan	30.00	762.0	76	24.4	60	sw.			4		8		sw.					fair.
Passaic, Washington, D. C.	30.06	763.5	57	13.9	100	se.			1		10		w.					cloudy.
Pensacola, Callao, Peru	30.04	763.0	61	16.1	94	w.	2	0.9			10			0	0	sm'h		cloudy.
Portsmouth, Plymouth, Eng*†	29.60	751.8	57	13.9	94	ssw.			4		8		sw.			sm'h		cloudy.
Powhatan, Norfolk, Va.	30.06	763.5	63	17.2	83	ssw.			1		8		sw.					cloudy.
Quinnebaug, N. 31° 31′, W. 9° 45′	30.10	764.5	72	22.2	71	wnw.			1		2		calm			long	w.	clear.
Ranger, Mazatlan, Mexico*	29.88	758.9	74	23.3	76	e.			1		0			0	0	light	s.	clear.
Richmond, Kobe, Japan*	29.86	758.4	71	21.7	71	calm			0		10			0	0			cloudy.
Saratoga, Plymouth, Eng.	29.34	745.2	56	13.3	94	se.			3-5		8		se.	light	light	sm'h		fair.
St. Louis, League Island, Pa.	30.29	769.4	58	14.4	82	se.	17	7.6			10		n.	0.48	12.2			cloudy.
Swatara, N. 33° 05′, E. 123° 34′*	29.58	751.3	60	15.6	88	nne.			4		10					mod	ne.	drizzling.
Tennessee, N. 37° 08′ W. 74° 10′	30.10	764.5	58	14.4	89	ese.	9	4.0			5			0	0	sm'h		fair.
Vandalia, N. 36° 54′, W. 74° 14′*†	30.31	769.9	59	15.0	82	ese.			4		5		calm			sm'h		fair.
Wabash, Boston, Mass.	30.11	764.8	58	14.4	76	w.	2	0.9			8		nw.	0	0			hazy.
Wachusetts, Fort Wrangle, Alaska	29.86	758.4	41	5.0	82	se.			1		0					sm'h		clear.
Wyoming, Port Royal, S. C.	30.09	764.3	66	18.9	89	e.	3	1.3			5		w.	0	0			fair.
Yantic, N. 37° 02′, W. 74° 13′*	30.04	763.0	57	13.9	87	e.			2		5					sm'h		hazy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Prussian, N. 40° 21′, W. 67° 40′*	29.99	761.7	46	7.8		calm			0		2		w.	0	0	sm'h		clear.
S. S. Scandinavian, N. 55° 21′, W. 7° 00′*	29.24	742.7	49	9.4		ene.			3		10		ene.	12 h'r	12 h'r	mod.	nw.	showery.
S. S. Waldensian, N. 42° 26′, W. 60° 20′*	30.21	767.3	42	5.6		var.			3		fg.		wnw.	0	0	mod.	nw.	dense fog.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, N. 41° 32′, W 45° 15′	30.17	766.3	58	14.4	?	ne.			4		2		ne.			sm'h	n.	clear
S. S. Indiana, Philadelphia, Pa.†	30.14	765.5	57	13.9	62	w.			3		2		w.	0	0			fine.
S. S. Lord Clive, N. 43° 43′, W. 42° 34′*	29.97	761.2				nne.			4		6		n.	0	0	light	e.	cloudy.
S. S. Ohio, Liverpool, Eng†	29.30	744.2	57	13.9	93	s.			2		6		s.					fair.
ANCHOR LINE.																		
S. S. Bolivia, N. 40° 42′, W. 74° 00′†	29.97	761.2	50	10.0		nne.			2					7 h'r	7 h'r			hazy.
S. S. India, N. 12° 27′, E. 43° 47′*	29.70	754.4	91	32.8	92	wnw.			3		2					sm'h		fair.
S. S. Utopia, Valencia, Spain			79	26.1	58	sw.			2		2		sw.	0	0			clear.
ATLAS LINE.																		
S. S. Alvo, Saint Marc, Hayti, W. I.	30.05	763.3	102?	38.9?							2			0	0			
S. S. Athos, Kingston, Jamaica, W. I.	29.52	749.8																
BOSTON AND HALIFAX.																		
S. S. Carroll, N. 42° 26′, W. 63° 33′			50	10.0	93	calm			0					0	0			cloudy.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 39° 50′ E. 25° 30′	30.30	769.6	58	14.4	78	w.			5		6							d. clouds.
British Merchant, S. 18° 21′, W. 1° 57′	30.17	766.3	73.2	22.9	72	ese.			5		5							misty.
Bk. Commewyne, N. 26° 12′, W. 26° 04′	30.13	765.3	71.4	21.9	80	ssw.			3		5							d. clouds.
Bk. Coppename, N. 15° 30′, W. 35° 40′	30.11	764.8	76	24.4	75	ene.			4		3							blue sky.
S. S Earnock, N. 48° 57′, W. 9° 06′	29.38	746.2	55.5	13.1	74	wnw.			4		3							blue sky.
S. S. Glencairn, S. 34° 30′, E. 27° 32′	30.42	772.7	66.5	19.2	90	nne.			2–3		8							showery.
Bkt. Hope, N. 35° 05′, W. 42° 30′	30.13	765.3	65.5	18.6	73	ne.			3		1							blue sky.
Bkt. May Hulse, S. 33° 01′, W. 84° 26′	30.13	765.3	65.5	18.6	73	wsw.			4		5							squally.
S. S. Minho, Buenos Ayres, S. A.	30.14	765.5	53.3	11.8	79	ne.			2		2							blue sky.
Pole Star, S. 54° 57′, W. 61° 46′	29.68	753.9	39.1	3.9	100	ne.			2		5							gloomy.
CUNARD LINE.																		
S. S. Marathon, N. 43° 09′, W. 52° 10′	30.20	767.1	46	7.8		sse.			3		7		sse.	0	0	sm'h		cloudy.
S. S. Parthia, N. 43° 55′, W. 42° 07′†	30.09	764.3				ne.			4		4?		e.	0	0	con.	e.	cloudy.?
S. S. Scythia, N. 40° 11′, W. 68° 32′	30.10	764.5	55	12.8	93	e.			2		1		e.	0	0	sm'h		clear.
GENERAL TRANS-ATLANTIC COMPANY																		
S. S. St. Germain, N. 40° 20′ W. 69° 20′	30.28	769.1	42.8	6.0		w.			2				w.	0	0	sm'h	w.	hazy.
S. S. St. Laurent, N. 44° 44′, W. 38° 03′†	30.02	762.5	53.6	12.0	88	wnw.			5					0	0	sm'h	wnw.	covered.
GUION LINE.																		
S. S. Wisconsin, N. 41° 00′, W. 62° 00′*†	30.14	765.5	56	13.3		n.			2		5?		n.	0	0	sm'h		clear ?
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 51° 42′, E. 2° 10′*†	29.47	748.5				se.			5		10		sse.	4 h'r	4 h'r	mod.	sse.	misty.
S. S. Cimbria, N. 41° 35′. W 65° 54′	30.12	765.0	41.5	5.3		wsw.			3		8		w.	0	0	sm'h	wsw.	covered.
S. S. Gellert, N. 44° 00′, W. 39° 30′	30.06	763.5	58	14.4		nw.			5		10		nw.	0	0	mod.	nw	covered.
S. S. Lessing, New York, N. Y	30.10	764.5	52	11.1		ne.			2		10			rain	rain			covered.
S. S. Silesia, N. 49° 21′, W. 17° 21′†..	29.44	747.8	55	12.8		w.			6		5		w.	0	0	5	nnw.	d. clouds.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, N. 1° —′ W. 30° —′.*†	30.19	766.8	82	27.8		sse.			3		5?		ese.	0	0	long	se.	clear ?
S. S. Humboldt, N. 32° 02′, W. 68° 25′*	30.15	765.8	76.5	24.7	74	ne.			1		4 k			0	0	2	con.	d. clouds.
LEYLAND LINE.																		
S. S. Iberian, N. 45° 29′, W. 44° 32′	30.08	764.0				wnw.			3		10		wnw.	0	0			cloudy.
MERCHANT STEAMSHIP COMPANY.																		
S. S. Glenfyne, Chesapeake Bay	29.80	756 9				w.			5				ne.	0	0	h'vy	ne.	fine.
S. S. Glenapp, S. 20° 03′, W. 39° 29′*†	30.09	764.3				ne.			2		5		e.	1 h'r	1 h'r	sm'h		squally.
NATIONAL LINE.																		
S. S. Denmark, N. 42° 48′, W. 43° 56′	30.18	766.6	57	13.9		wnw.			4		5		wnw.	0	0	sll't	wnw.	fine.
S. S. England, Off Ballycottin, Ireland	29.32	744.7				s.			6		5?		s.	0	0	sll't	s.	cloudy.?
S. S. Erin, N. 44° 47′, W. 37° 03′	29.95	760.7	53	11.7		nw.			7		10		nw.	0	0	long	ene.	
S. S. Greece, N. 50° 38′, W. 0° 39′	29.43	747.5				sw.			5		8		sw.	2 h'r	2 h'r	sm'h		cloudy.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, N. 33° 01′, W. 73° 55′†	30.12	765.0	71	21.7		s.			5		1		s.	0	0	sm'h	se.	fine.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, New York, N. Y.*†	30.19	766.8	55	12.8	80	n.			2					0	0			d. clouds.
S. S. City of Puebla, Vera Cruz, Mexico†	29.79	756.7	80	26.7		sw.			1		8		nw.			mod.	nnw.	
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Lepanto, N. 50° 11′, W. 21° 30′†	29.39	746.5	49	9.4		w.			6								ese.	rainy.
S. S. Lone Star, N. 25° 05′, W. 80° 16′*†	30.20	767.1	76	24.4		ne.			1							sm'h		rainy.
NORTH GERMAN LLOYD.																		
S. S. Elbe, N. 39° 54′ W. 67° 35′	30.17	766.2	49.1	9.5	80	w.			2		8		w.	0	0	sm'h		hazy
S. S. Graf Bismark, S. 8° 12′, W. 33° 45′	30.08	764.0	81.5	27.5		sse.			4		4		se.	0	0	mod.	se.	fair.
S. S. Habsburg, N. 48° 13′, W. 34° 19′	29.74	755.4	50.9	10.5		wnw.			6		8		wnw.	0	0	r'gh	wnw.	cloudy.
S. S. Hermann, N. 43° 22′ W 44° 46′†	30.01	762.2	55.4	13.0		n.			4		4		w	0	0	mod.	nne.	fair.
S. S. Leipzig, N. 43° 07′, W 41° 58′	30.10	764.5	57.0	13.9	81	n.			4		10		n.	0	0	sm'h		fair.
S. S. Main, Bremerhaven, Germany						sw.			3–4		6		sw.	2 h'r	2 h'r			raining.
S. S. Mosel, N. 49° 38′, W. 15° 43′	29.39	746.5	52	11.1		w.			4		4		w.	1½h'r	1½h'r	mod.	wnw.	clear.
S. S. Néckar, N. 42° 29′, W. 44° 38′	30.12	765.0	50.9	10.5		nw.			3		5		nw.	0	0	sm'h	nw.	fair.
S. S. Oder, N. 41° 28′, W. 64° 58′	30.17	766.3	53.6	12.0		w.			3		9		w.	0	0	sm'h	w.	cloudy.
S. S. Ohio, N. 44° 15′, W. 42° 07′	30.13	765.3				wnw.			3		2		nw.	0	0	sm'h	nw.	clear.
S. S. Salier, N. 47° 13′, W. 26° 16′	29.56	750.8	50.0	10.0		wnw.			6		8		w.	1 h'r	1 h'r	r'gh	wnw.	cloudy.
S. S. Strassburg, N. 37° 41′ W. 73° 49′	30.04	763.0	70.0	21.1	90	sse.			4		3		sse.	0	0	sm'h	sse.	fair.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 37° 40′, W. 131° 09′*†	30.21	767.3	58	14.4	94	w.			3		8		w.	0	0	sm'h		d. clouds.
S. S. Belgic, Hong Kong, China†	29.93	760.2	84	28.9	83	calm			0		10		ne.	rain	rain	sm'h		cloudy.
S. S. Gaelic, N. 34° 23′, E. 138° 23′†	29.72	754.9	73	22.8	?	sw.			3		4		sw.			slight	s	clear.
S. S. Oceanic, N. 45° 56′, W. 151° 16′*	29.93	760.2	50	10.0	93	s.			4		7		w.			2	sw.	fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga†	30.07	763.8				calm			0		3		sw.					clear.
S. S. City of Columbus, N. 33° 36′, W. 77° 45′†	30.12	765.0				calm			0		2		n.	0	0	mod.	ene.	clear.
S. S. Seminole, Boston, Mass†	30.07	763.8	65	18.3	62	wsw.			1		hz		sw.	0	0			hazy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Columbia, N. 43° 22′ W. 124° 33′†	29.96	761.0	51	10.6	78	s.			2		10		s.			mod.	w.	cloudy.
S. S. Oregon, Portland Oregon†	29.87	758.7	53	11.7	79	calm			0		0							clear.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal.†	29.92	760.0	54	12.2	87	w.			2		10		sw.					cloudy.
S. S. Orizaba, N. 34° 35′, W. 120° 40′†	30.02	762.5	60	15.6	88	calm			0				se.			sm'h	nw.	foggy.
S. S. State of California, San Francisco, Cal†	29.97	761.2	53	11.7	80	wsw.			2		10		wnw.					cloudy.
S. S. Victoria, N. 49° 10′, W. 123° 56′†	29.78	756.5	54	12.2	87	calm			0		0			0	0	sm'h		clear.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. City of New York, S. 28° 30′, W. 179° 50′†	29.64	752.8	69	20.6	95	sw.			3		1		sw.	0	0	h'vy	sw.	clear.
S. S. City of Pekin, N. 37° 12′, W. 170° 02′†	30.13	765.3	61	16.1	88	wsw.			4		5		sw.			light	wsw.	fair.
S. S. City of Rio de Janeiro, N 28° 34′, W. 116° 15′ *†	30.22	767.6	61	16.1	82	nw.			2		5		nw.	0	0	long	nw.	fair.
S. S. City of Sydney, S. 21° 39′, W. 173° 58′†	29.82	757.4	76	24.4	64	sw.			5		2		sw.	0.125	3.1	long	sw.	fair.
S. S. City of Tokio, N. 22° 10′, W. 115° 04′†	29.88	758.9	80	26.7	91	sw.			2		10		sw.	3 h'r	3 h'r	sm'h		cloudy.
S. S. Colima, Panama, Panama†	29.95	760.7	83	28.3	67	ne.			2		8		ene.	0.03	0.8			cloudy.
S. S. Granada, N 27° 20′, W. 114° 55′†	29.97	761.2	58	14.4	88	nw.			2		2		nw.	0	0	light	wnw.	clear.
S. S. South Carolina, San Juan del Sur, Nicaragua†	30.01	762.2	77	25.0	82	n.			4		2		nne.	0	0	sm'h		fair.
S. S. Zelandia, Sydney, N. S. W	29.80	756.9	62	16.7	66	nw.			2		2		sw.					clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
QUEBEC STEAMSHIP CO.																		
S. S. Muriel, St. Lucia, W. I.	29.92	760.0	80	26.7	.....	e.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	.....	fair.
RED STAR LINE.																		
S. S. Belgenland, Antwerp, Belgium†	29.59	751.6	66	18.9	?	s.	.....	.....	4	.....	9?	.....	s.	0	0	sm'h	e.	clear.?
S. S. Rhynland, N. 48° 08′, W. 30° 28′	29.58	751.3	49	9.4	77	wnw.	.....	.....	6	.....	9	.....	wnw.	0	0	long	wnw.	cloudy.
S. S. Switzerland, N. 45° 26′, W. 34° 19′†	29.90	759.4	.....	.....	.....	nw.	.....	.....	4	.....	10	.....	nw.	0	0	mod	nw.	cloudy.
S. S. Vaderland, N. 49° 44′ W. 7° 00′	29.40	746.7	56	13.3	87	ssw.	.....	.....	4	.....	5	.....	s.	0	0	mod.	sw.	fair.
S. S. Waesland, N 41° 24′, W. 44° 09′	30.13	765.3	63	17.2	.....	n.	.....	.....	4	.....	1	.....	nnw.	1 h'r	1 h'r	mod	n.	clear.
ROTTERDAM LINE.																		
S. S. Schiedam, N. 41° 56′, W. 59° 36′*	30.12	765 0	52.0	11.1	.....	nw.	.....	.....	6	.....	3	.....	nw.	3 h'r	3 h'r	r'gh	nw.	cloudy.
S. S. W. A. Scholten, N. 48° 25′, W. 25° 37′	29.36	745.7	54.1	12.3	79	wnw.	.....	.....	6	.....	8	.....	wnw.	.....	.....	mod.	nne.	drizzling.
STATE LINE.																		
S. S. State of Florida, N. 46° 17′, W. 35° 19′	29.83	757.7	53	11.7	.....	nw.	.....	.....	5	.....	9	.....	nw.	0	0	mod	nw.	cloudy.
THINGVALLA LINE.																		
S. S. Thingvalla, Copenhagen, Denmark†	30.14	765.5	68.9	20.5	.....	se.	.....	.....	1	.....	3	.....	se.	0	0	.....	.....	clear.
WARREN LINE.																		
S. S. Iowa, N. 49° 29′, W. 25° 23′*†	29.50	749.3	50	10.0	.....	nnw.	.....	.....	6	.....	10	.....	nnw.	½ h'r	½ h'r	long	nne.	squally.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 50° 41′. E. 0° 29′	29.40	746.7	.....	.....	.....	.....	.....	.....	.....	.....	4	.....	sw.	4 h'r	4 h'r	3	sw.	blue sky
WHITE STAR LINE.																		
S. S. Baltic, N. 46° 07′ W. 40° 26′†	30.05	763.3	58	14.4	86	nw.	.....	.....	4	.....	9	.....	nw.	0	0	mod	nw.	cloudy.
S. S. Celtic, N. 42° 28′, W. 52° 50′†	30.07	763.8	48	8.9	77	ese.	.....	.....	3	.....	10	.....	ssw.	0	0	sm'h	.....	dull.
S. S. Germanic, N. 46° 16′, W. 37° 39′†	29.97	761.2	54	12.2	.....	nw.	.....	.....	4	.....	6	.....	n.	0	0	sm'h	.....	d. clouds.
WILSON LINE.																		
S. S. Otranto, N. 43° 27′ W. 42° 34′†	30.19	766.8	55	12.8	.....	ne.	.....	.....	3	.....	2	.....	ne.	0	0	mod.	nne.	clear.
MISCELLANEOUS.																		
Schr. Abbe Clifford, Orchilla Id., W. I.*†	30.04	763.0	81	27.2	.....	e.	.....	.....	4	.....	3	.....	w.	0	0	.....	.....	fine.
Sch. Addie Fuller, Newport News, Va†	30.11	764.8	60	15.6	82	sw.	.....	.....	2	.....	9 k	.....	sw.	0	0	.....	.....	cloudy.
Bk. Adelaide, N. 8° 36′, W. 48° 54′*†	30.03	762.7	84	28.9	.....	ne.	.....	.....	5	.....	2	.....	nne.	0	0	mod.	ne.	clear.
Schr. Ajax, Brazos, Texas†	29.98	761.5	.....	.....	.....	se.	.....	.....	1	.....	5	.....	se.	0	0	.....	.....	clearing.
Bk. Alpha, Guanatamo, W. I†	29.96	761.0	80	26.7	.....	n.	.....	.....	1	.....	2	.....	ne.	0	0	.....	.....	fair.
Schr Annie Lewis, N. 26° 34′, W. 94° 08′†	30.01	762.2	79	26.1	.....	calm	.....	.....	0	.....	5?	.....	ene.	0	0	long	e.	cloudy.?
Bk. Anna Thormann, N. 9° 40′ W. 26° 29′	30.05	763.2	79.2	26.2	80	e.	.....	.....	4	.....	4 k	.....	e.	0	0	mod.	e.	fair.
Bk. Antioch, S. 38° 55′, E. 148° 30′*†	29.50	749.3	63	17.2	.....	w.	.....	.....	3	.....	2?	.....	w.	¼ h'r	¼ h'r	sm'h	ne.	cloudy.?
S. S. Antonio Lopez, N. 40° 47′ W 33° 06′*	30.01	762.2	60	15.6	76	nne.	.....	.....	3	.....	4 k	.....	.....	0	0	mod.	ne.	fair.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.20	767.1	78	25.6	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
Schr. Annie M. Smull, N. 1° 01′. E. 106° 44′*†	29.90	759.4	88	31.1	.....	s.	.....	.....	.....	.....	.....	.....	.....	1 h'r	1 h'r	.....	.....	
Bk. Bergenseren. N. 42° 43′. W. 16° 05′†	29.60	751.8	.....	.....	.....	wsw.	.....	.....	6	.....	.....	.....	w.	rain	rain	5	w.	squally.
S. S. Compton, Delaware River, Del†	30.01	762.2	.....	.....	.....	se.	.....	.....	5	.....	10	.....	.....	1½h'r	1½h'r	.....	.....	raining.
Schr. Edith R. Seward, N. 32° 38′. W. 76° 30′*†	30.28	769.1	76	24.4	.....	nnw.	.....	.....	1	.....	5	.....	calm	¼ h'r	¼ h'r	r'gh	ne.	fair.
S. E. J. Spicer, London, England†	29.52	749.8	.....	.....	.....	se.	.....	.....	6	.....	10	.....	sse.	6 h'r	6 h'r	.....	.....	overcast.
Essex, N. 35° 54′ W. 52° 39′*†	30.14	765.5	72	22.2	.....	wnw.	.....	.....	1	.....	1	.....	n.	0	0	long	nne.	clear.
S. Exporter, S. 42° 30′, E. 21° 40′*†	30.30	769.6	.....	.....	.....	wsw.	.....	.....	7	.....	10	.....	w.	0	0	long	w.	cloudy.
Bk Freya, Dublin, Ireland	.....	.....	58	14.4	.....	se.	.....	.....	5	.....	5	.....	sse.	0	0	.....	.....	fair.
Godfrey, N. 39° 04′, W. 54° 49′	30.06	763.5	65.3	18.5	87	sse.	.....	.....	4	.....	10	.....	w.	3 h'r	3 h'r	r'gh	ene.	heavy rain.
S. Grecian, S. 1° 50′ E. 107° 20′*†	29.90	759.4	82	27.8	.....	wnw.	.....	.....	4	.....	9	.....	var.	sq'ls	sq'ls	sm'h	.....	cloudy.
Schr. Hattie G. McFarland, N. 43° 22′ W. 64° 34′*†	30.12	765.0	38	3.3	.....	wsw.	.....	.....	3	.....	.....	.....	sw.	0	0	.....	.....	foggy.
Schr. Henry Denison, N. 35° 28′, W. 75° 26′†	30.06	763.5	.....	.....	.....	se.	.....	.....	2–5	.....	2	.....	se.	0	0	mod.	se.	fine.
S. Ismir, N. 3° 00′, W. 31° 40′†	29.99	761.7	.....	.....	.....	sse.	.....	.....	4	.....	6	.....	sse.	.....	.....	r'gh	s.	fine.
James Slater, N. 34° 31′ W. 62° 51′*†	30.40	772.1	75	23.9	.....	s.	.....	.....	1	.....	2	.....	.....	¼ h'r	¼ h'r	mod.	nw.	
Bk. Johanne, N. 49° 38′, W. 5° 12′*†	29.67	753.6	58	14.4	.....	ssw.	.....	.....	5	.....	2	.....	sw.	0	0	mod.	wsw.	fair.
Schr. John L. Thomas, Albuquerque Cays, C. A*†	30.00	762.0	.....	.....	.....	ene.	.....	.....	1	.....	1	.....	ese.	0	0	.....	.....	clear.
Bkt. Josephine, Guanatamo, W. I.*†	30.13	765.3	80	26.7	82	n.	.....	.....	1	.....	2	.....	.....	0	0	.....	.....	fair.
Bk. Julia H., Havana, Cuba, W. I	30.00	762.0	73.3	22.9	90	se.	.....	.....	1	.....	S k	.....	.....	.....	.....	.....	.....	d. clouds.
Bk. Kate Cann, N. 38° 46′, W. 72° 33′*†	30.02	762.5	.....	.....	.....	ene.	.....	.....	3	.....	fg	.....	.....	0	0	sm'h	n.	foggy.
Bkt. Kryolith, N 59° 29′ W. 49° 21′*†	30.02	762.5	.....	.....	.....	ene.	.....	.....	2	.....	.....	.....	.....	0	0	sm'h	.....	dense fog.
S. S. Lamperis, N. 18° 07, E. 71° 02′*	29.71	754.6	84.0	28.9	75	nnw.	.....	.....	2	.....	2 k	.....	.....	.....	.....	1	.....	blue sky.
Light House Tender, Laurel, Pensacola Bay, Fla†	30.04	763.0	75	23.9	.....	ene.	.....	.....	1	.....	7	.....	ne.	0	0	.....	.....	cloudy.
Schr. Maggie Abbott, N. 32° 25′, W. 69° 46′*†	30.08	764.0	.....	.....	.....	se.	.....	.....	3	.....	.....	.....	s.	sh'rs	shr's	.....	.....	cloudy.
S. S. Malabar, N. 4° 47′, E. 105° 46′*†	29.80	756.9	.....	.....	.....	var.	.....	.....	1	.....	5	.....	sw.	.....	.....	sm'h	.....	showery.
S. Minnie N. Geraw, N. 45° 09′, W. 26° 32′*†	29.60	751.8	.....	.....	.....	wnw.	.....	.....	6	.....	10	.....	w.	.....	.....	long	.....	threatening
S. Paramita, S. 23° 40′ W. 36° 52′†	30.01	762.2	80	26.7	.....	e; n.	.....	.....	1	.....	0	.....	.....	0	0	small	ene.	clear.
Bk. Pawashick, N. 37° 36′. W. 47° 52′*†	30.30	769.6	64	17.8	83	ese.	.....	.....	3	.....	8	.....	sse.	.....	.....	sm'h	var.	fine.
Bk. Peppina, Bordeaux, France†	29.83	757.7	70	21.1	49	w.	.....	.....	2	.....	2	.....	w.	.....	.....	.....	.....	fair.
S. S. Ponca, N. 7° 10′, W. 51° 00′†	29.97	761.2	84	28.9	.....	ene.	.....	.....	2	.....	6	.....	ene.	0	0	mod.	ene.	fair.
Bk. Princessen, N. 45° 30′, W. 22° 22′†	29.59	751.5	55	12.8	.....	nw.	.....	.....	3	.....	8	.....	.....	3 h'r	3 h'r	mod.	n.	sprinkling.
Bk. Rosebud, N. 15° 25′, W. 25° 34*†	30.10	764.5	79	26.1	65	ene.	.....	.....	5	.....	0	.....	.....	0	0	sm'h	.....	fine
S. Salisbury, S. 42° 05′ E. 39° 00′*	30.09	764.3	47 3	8.5	82	wsw.	.....	.....	5	.....	5	.....	wsw.	1 h'r	1 h'r	long	w.	fair.
Bkt. Spotless, S. 12° 20′, W. 33° 37′	.....	.....	.....	.....	.....	se.	.....	.....	.....	.....	.....	.....	se.	.....	.....	h'vy	ne.	clear.
Bk. Stella, N. 8° 00′, W. 118° 30′*	29.84	757.9	84	28.9	87	var.	.....	.....	1	.....	9 n	.....	var.	2 h'r	2 h'r	sm'h	se.	rainy.
Bk. Truro, N. 49° 12′ W. 9° 50′*†	29.40	746.7	.....	.....	.....	w.	.....	.....	3	.....	6	.....	wsw.	0	0	sm'h	.....	fair.
U.S.F.C.S.S.Fish Hawk, Havre de Grace, Md†	30.15	765.8	56	13.3	100	s.	.....	.....	4	.....	10	.....	s.	0.71	18.0	.....	.....	rainy.
Schr Viola Reppard, N. 31° 08′, W. 81° 55′†	29.91	759.7	76	24.4	.....	ne.	.....	.....	1	.....	2	.....	ne.	0	0	small	e.	fair.
Bk. Wm. Wilcox, N. 26° 55′ W. 38° 48′*†	30.20	768.6	73	22.8	.....	sw.	.....	.....	3	.....	5	.....	w.	0	0	sm'h	.....	fair.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 26, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.08	763.9	74.8	23.8	74	sw.			3		0			0	0	clear	Moiroud.
Algiers			30.09	764.3	77.0	25.0	60	nw.			2		0			0	0	clear	Nicolas.
La Calle			30.11	764.8	81.7	27.6	63	ene.			2		1			0	0	very fair	Fonfrède.
Tunis			30.13	765.3															Jacques.
Saida			30.14	765.5															Dumas.
Tebessa			30.14	765.6	70.5	21.4	56	se.			4		2			0	0	fair	Derché.
Geriville					90.3	32.4	11	ese.			1		0			0	0	clear	Lonchamp.
Laghouat			30.16	766.0	86.0	30.0	41	ne.			2		0			0	0	clear	Abraham.
Biskra			30.15	765.8	94.3	34.6	9	se.			6		2			0	0	fair	Malau.
Australian.																			
Melbourne, Victoria	29.79	756.6	29.88	758.9	51.4	10.8	98	sw.	2	0.9			10			0.53	13.5	foggy	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.49	749.1	30.02	762.5	77.0	25.0	42	sw.			5		2			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.28	743.8	30.03	762.7	72.3	22.4	56	e.	2.5	1.1			1			0.008	0.2		Dr. Wierzbiski.
Eperies	29.17	740 8	30.02	762.4	70.3	21.3	65	s.			3		9 8			0.047	1.2		Julius Mikolik.
Gratz	28.78	730.9	29.98	761.5	71.6	22.0	77	s.			1		0			0	0		Andreas Rospini.
Hermannstadt	28.66	727.9	30.03	762.7	74.8	23.8	39	wnw.			1		3			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.67	728.3	29.96	761.0	73.6	23.1	53	ene.			1	2 c	0			0.083	2.1	clear	The Staff.
Lemberg	29.06	738.1	30.01	762.2	74.1	23.4	48	s.			2		5			0	0		Dr. T. Stanecki.
Pola	30.05	763.2	30.16	766.0	73.8	23.2	60	sse.			2		6			0	0		I. R. Hydrographic Office.
Szathmar	29.60	751.9	30.06	763.5	73.4	23.0	79	e.			2		7			0	0		Joseph Midlinszky, S. J.
Szegedin	29.78	756.5	30.05	763.3	73.8	23.2	53	w.			1		5			0	0		Karl Stancel.
Trieste	30.06	763.6	30.17	766.2	71.2	21.8	63	sw.			2		0			0	0		Rieder.
Vienna	29.33	745.0	30.02	762.5	74.7	23.7	51	se.			1		4			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.44	747.8	29.53	750.0	61.9	16.6	46	ssw.	18	8.0			3			0	0	blue sky	W. Boswell
Armagh, Observatory	29.29	744.0	29.52	749.8	58.1	14.5	75	sse.	17	7.6			7					d. clouds	S. Call.
Bidston, Liverpool Obs'y			29.63	752.6	61.0	16.1	70	ssw.	14	6.3			10					overcast	John Hartnup.
Bolton, Sharples	29.11	739.4	29.63	752.6	59.8	15.4	67	ssw.	18	8.0			8					d. clouds	Thomas Mackereth. [A.S.
Bradford, Yorkshire	29.26	743.2	29.66	753.4	61.9	16.6	62	se.			1		5			0.13	3.3	d. clouds	J. McLandsborough, F. R
Bridgetown, Barbadoes	29.97	761.2	30.00	762.0	84.0	28.9	67	ne.			3		6					gloomy	Corpl. J. Surgenor, A. H. C.
Cardington			29.75	755.6	65.0	18.3	62	sw.			4.0		5					d. clouds	John McLaren.
Chatham, School M. E.	29.73	755.1	29.86	758.4	63.0	17.2	59	sw.			4		7					d. clouds	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.49	749.0	29.72	754.9	59.0	15.0	74	ssw.			4		8					misty	The Staff.
Fort Napier, Natal	27.78	705.6	30.00	762.0	66.0	18.9	59	calm			0		0					blue sky	Pvt. E. K. Annis, A. H. C.
Free Town, Sierra Leone	29.66	753.4	29.90	759.4	88.0	31.1	69	n.			1		3					d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	30.04	763.0	30.10	764.5	76.6	24.8	79	w.			1		0					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.88	758.9	30.08	764.0	58.6	14.8	53	ssw.			4		8 n; k					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.65	753.1	29.82	757.4	64.7	18.2	63	ssw.			4		6					d. clouds	The Staff.
Guernsey	29.58	751.3	29.88	758.9	55.5	13.1	96	ssw.			2		9					raining	A. Collenette, F. M. S.
Kew, Observatory	29.78	756.4	29.82	757.4	63.1	17.3	63	sw.	26	11.6			8					d. clouds	The Staff.
Leicester, Museum	29.46	748.3	29.72	754.9	60.2	15.7	79	sw.			2		7					d. clouds	J. C. Smith.
Malta, Mediterranean	30.06	763.5	30.14	765.5	72.8	22.7	77	ne.			2		4					d. clouds	I. H. Whysall.
Nassau, Bahamas	29.96	761.0	30.00	762.0	74.5	23.6		se.			1		10			blank	blank	overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.19	741.4	29.71	754.6	59.0	15.0	76	s.			5		6					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.54	750.3	29.77	756.1	58.0	14.4	73	s.			5		10					drizzling	The Staff.
Plymouth	29.66	753.4	29.74	755.4	61.3	16.3	77	sw.			4		10					overcast	John Merrifield.
Sandwick Manse, Orkneys			29.52	749.8	50.1	10.1	93	ese.	12	5.4			10					raining	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.99	761.7	30.05	763.3	71.2	21.8	46	sw.			1		4					d. clouds	W. H. Lyne.
Sheffield	29.41	747.0	29.69	754.1	62.1	16.7	81	sw.			1		8			0.09	2.3	overcast	W. F. Cooper.
Silloth Rectory	29.59	751.6	29.62	752.3	58.0	14.4	71	sw.			2		10			0	0	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.66	753.4	60.0	15.6	66	s.	20	8.9			7					d. clouds	J. New.
Stratfield Turgiss	29.59	751.6	29.80	756.9	61.2	16.2	70	sw.			2-4		10					showery	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.71	754.6	29.73	755.1	63	17.2	61	sw.			7		5					d. clouds	W. Newcombe.
Valencia, Observatory	29.33	745.0	29.36	745.7	52.7	11.5	93	s.	38	17.0			10					raining	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.01	762.2	30.05	763.3	48	8.9	79	s.	2	0.9		0	0			0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.01	762.2	30.07	763.8	44	6.7	86	sw.	1	0.4		0	0			0.02	0.5	clear	G. A. Blair.
Father Point, Quebec*	30.00	762.0	30.02	762.5	45	7.2	83	w.	16	7.2		2 cs	0	calm		0	0	fair	J. McWilliams.
Fort Garry, Manitoba*																			
Halifax, N. S*	29.96	761.0	30.09	764.3	49	9.4	77	nw.	4	1.8		2 ck	0			0	0	clear	A. Allison.
Kingston, Ontario*	29.71	754.6	30.05	763.3	49	9.4	77	w.	12	5.4		5 cs	5 k	w.	w.	0	0	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.81	757.2	30.01	762.2	50	10.0	71	s.	12	5.4		2 c	0			inap.	inap.	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.18	741.2	29.87	758.7	51	10.6	59	sw.	7	3.1		2 k	5 ks	sw.	sw.	0	0	fair	Rev. R. Mosley.
Port Dover, Ontario	29.35	745.5	30.04	763.0	52	11.1	79	sw.	10	4.5		4 ok	0	w.		0	0	fair	H. Morgan.
Port Stanley, Ontario	29.39	746.5	30.03	762.7	51	10.6	86	w.	8	3.6		2 k	0	w.		0	0	fair	M. Payne.
Quebec, Quebec*	29.73	755.1	30.06	763.5	45	7.2	86	calm			0	0	hz.			0	0	hazy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.39	746.5	29.85	758.2	45	7.2	86	calm	0	0			10 s		sw.	0.02	0.5	light rain	W. H. McIntyre.
Saugeen, Ontario*	29.19	741.4	29.90	759.4	55	12.8	62	s.	17	7.6			10 ks			0	0		
St. Andrews, N. B	30.02	762.5	30.07	763.8	45	7.2	91	w.	1	0.4		0	0			0	0	clear	
Sydney, C. B*	30.02	762.5	30.09	764.3	38	3.3	92	calm	0	0		0	0			0	0	clear	T. C. Hill, C. E
Toronto, Ontario*	29.65	753 1	30.03	762.7	51	10.6	64	sw.	8	3.6		3 cs	0	w.		0	0	fair	Magnetic Observatory.
Yarmouth, N. S*	30.03	762.7	30.10	764.5	48	8.9	80	n.	2	0.9		0	0			0	0	clear	Lt. F. E. Wilmot, R. N
Sub-series.																			
St. Johns, Newfoundland	30.01	762.2	30.26	768.6	47	8.3	92	sw.					10			0	0		John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.32	770.1	30.35	770.9	65.0	18.3	73	w.	8.6	3.8		0	2 k			0	0	clear	John Duthie.
Cape Town, C. G. H. Obs'y	30.29	769.4	30.33	770.4	61.8	16.6	82	s.	26	11.6		0	1			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Chinese (*Sub-series*).																			
Hankow	29.81	757.2	30.08	764.0	72.8	22.7	74	sse.			2		7			0	0		N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.94	760.4	29.96	761.0	61.6	16.9	83	e.	2.9	1.3		7 cs	1g			0	0	very cloudy	M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	29.91	759.8	29.96	761.0	64.2	17.9	58	sw.	18	8			7						Oversergent Fischer.
Fanöe	29.93	760.1	29.95	760.6	59.5	15.3	86	sw.			4		1						Overloerer Lauridsen.
Godthaab, Greenland	30.08	763.9	30.12	765.0	34.9	1.6	96	nne.			2		10			0	0		S. Kleinschmidt.
Stykkisholm, Iceland	29.75	755.6	29.79	756.7	36.5	2.5	84	calm			0		5						A. O. Thorlacius.
Thorshavn	29.60	751.8	29.63	752.7	48.6	9.2	93	ne.	13	6			10					raining	Overloerer Bergh.
Vestervig	29.79	756.7	29.88	759.0	58.1	14.5	86	ssw.			6		2						Loerer Oesterbol.
French.																			
Agen, Normal School	29.48	748.7	30.11	764.9	69.4	20.8	73	w.			2	2 c	k			0.035	0.9		M. Labroue, Director.
Alençon, Normal School	29.43	747.5	29.98	761.5	61.5	16.4	85	se.			2		kn		sw.	0.260	6.6		M. Nicot, Director.
Arras, Engineer School	29.70	754.4	29.95	760.8	58.5	14.7	70	nw.			3		10			0.075	1.9	covered	M. Fénéon, Command't.
Avignon, Normal School	29.99	761.8	30.07	763.8	78.1	25.6	50	sw.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.44	747.8	29.99	761.7	62.8	17.1	81	s.			1		10			0.260	6.6	covered	M. Saillard, Director.
Beauvais, Normal School	29.71	754.7	29.97	761.3	62.1	16.7	70	w.			1		10		w.	0.146	3.7	covered	M. Frère Eugène Mari.
Besançon, Normal School	29.08	738.7	29.96	760.9	71.6	22	53	s.			1		10 n		s.	0.59	15.	raining	M. Gobin, Director.
Bordeaux, Observatory	29.75	755.6	30.00	762.1	70.3	21.3	46	ne.			1		8		sw.	0	0	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.45	748.0	29.98	761.6	67.1	19.5	68	ssw.			2		k		ssw.	0.008	0.2		M. Postel, Director.
Brest, Naval Observatory	29.61	752.2	29.86	758.4	61.9	16.6	73	sw.			4		7		sw.	0.165	4.2		M. de Kermaree, Dir.
Caen, Normal School	29.86	758.5	29.89	759.3	66.2	19	46	s.			2		8		s.	0.213	5.4	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.58	751.4	29.90	759.4	59.9	15.5	89	s.			3		8	w.	w.	0.004	0.1	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.43	747.6	29.93	760.2	66.9	19.4	58	s.			1		10			0.098	2.5	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.63	727.3	29.95	760.8	66.6	19.2	57	wsw.			4		8		sw.	0	0	¾ covered	M. Allnard, Director.
Cluny, Normal School	29.24	742.6	30.02	762.6	56.3	13.5	100	s.			2		8		s.	0.83	21.		M. de Villemontée, Dir.
Commercy, Normal School	29.16	740.7	30.02	762.4	57.0	13.9	91	sse.			1		10 n	sse.	sse.	0.08	2.	covered	Dr. Coulet, Director.
Gap, Normal School	27.57	700.2	30.02	762.5	70.7	21.5	45					0	1 k		e.	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.98	736.1	30.07	763.8	74.1	23.4	39	se.			3		7		se.	0	0		M. Kina, Director.
Grenoble, Normal School	29.42	747.2	30.16	766.0	76.3	24.6	43	s.			3		ckn	n.	s.	0.04	1.		M. Ablard, Director.
Guéret, Normal School	28.45	722.6	30.01	762.2	59.9	15.5	61	sw.			2		10		sw.	0.130	3.3	covered	M. Rivoire, Director.
Lamballe, Normal School	29.61	752.0	29.89	759.1	61.9	16.6	70	s.			4		2		s.	0.12	3.	slightly cld'y	M. Ollitrault, Director.
Lescar, Normal School	29.45	748.0	30.00	761.9	74.8	23.8	46	ne.			3	2 c	0			0.079	2.0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	29.82	757.4	29.92	760.0	61.7	16.5	73	sw.			8		8	s.	sw.	0	0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.04	737.6	30.09	764.3	61.9	16.6	78	w.			2		10		s.	0.394	10.0	thund'r st'm	M. André, Director.
Mans, Normal School	29.67	753.5	29.97	761.2	62.8	17.1	61	nw.			3		2		wnw.	0.08	2.	slightly cl'dy	M. Piboen, Director.
Marseille, Observatory	29.81	757.2	30.08	764.0	73.0	22.8	53	sse.			3.4		5		wsw.	0	0		M. Stephan, Director.
Montlouis	24.96	633.9	29.80	756.9	63.5	17.5	43	sw.	13.0	5.8			0			0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.94	760.5	30.06	763.6	65.8	18.8	88	s.			3		10		se.	0	0	covered	M. Galzin, Director.
Nancy, Normal School	29.25	743.0	30.03	762.7	56.5	13.6	95	n.			1		kn			0.126	3.2		M. Hasse, Director
Nantes. Observatory	29.83	757.7	29.98	761.4	65.5	18.6	60	sw.			1–3	0	8 kn		sw.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.91	759.6	30.01	762.3	76.6	24.8	54	se.	9.4	4.2			2	wsw.	sw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.31	541.3			35.6	2.0		sw.			1		10		sw.	0.539	13.7	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.85	732.8	29.90	759.4	62.6	17	80	s.			1		10			0.16	4.	raining	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.14	638.6			44.8	7.1	99	wsw.			6		10			0.063	1.6	covered	M. Allnard, Director.
Rochefort, Naval Obs'y	30.00	762.1	30.04	762.9	69.8	21.0	100	wsw.			1		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.74	755.5	29.95	760.8	65.8	18.8	64	sw.			3		5		sw.	0.555	14.1	cloudy	M. Mouillot, Director.
Rodez, Normal School	27.91	708.9	30.06	763.4	72.7	22.6	52						5		sw.	0	0	cloudy	M. Serger, Director.
Rouen, Normal School	29.50	749.3	29.94	760.5	57.6	14.2	91	s.			2		10		n.	0.43	11.	covered	M. Brotier.
Saint Maur, Observatory	29.79	756.6	29.95	760.8	60.3	15.7	80	nnw.			1		10		s.	0.185	4.7		M. Renou, Director.
Toulouse, Observatory	29.36	745.8	30.09	764.2	68.5	20.3	77	s.			1		5	sw.		0.374	9.5	cloudy	M. Baillard, Director.
Tours	29.78	756.5	29.96	761.0	64.4	18.0	72	w.			2		10	sw.	w.	0.118	3.0	rainy	
Versailles, Observatory	29.47	748.6	29.97	761.1	59.4	15.2	70	w.			2					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.67	753.5	29.96	760.9	59.5	15.3	73	wnw.			1		10		s.	0.020	0.5		M. Marié Davy, Director
German.																			
Bamberg	29.22	742.2	30.08	763.9	63.1	17.3	66	sw.			2	0	4 k; s		sw.	0.039	1.0	raining	Prof. Dr. Hoh.
Berlin	29.87	758.6	30.04	762.9	72.0	22.2	51	s.			1		8			0.012	0.3	light rain	Prof. Dr. Arndt.
Breslau	29.54	750.2	30.07	763.7	73.6	23.1	51	calm			0		7			0	0		Royal University Obs'y.
Carlsruhe	29.59	751.6	30.02	762.5	69.4	20.8	60	sw.			1		10	sw.		0.315	8.0		Albert Senz.
Cassel	29.26	743.3	29.98	761.4	70.3	21.3	47	s.			2		5	s.		0.079	2.0		Dr. H. Möhl.
Frankfort-on-the-Main	29.67	753.7	30.03	762.7	66.0	18.9	57	s.			1		6			0.083	2.1		Physical Society.
Friedrichshafen	28.65	727.6	30.04	763.1	67.6	19.8	68	wsw.			1		7	w.		0.102	2.6		Wilhelm, Chief Tel.
Hamburg	29.91	759.8	30.01	762.2	67.3	19.6	59	sw.			3		7			0.031	0.8		E. Preller.
Kiel	29.96	760.9	29.97	761.3	64.6	18.1	58	w.			2		7			0.094	2.4		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.67	753.5	30.07	763.8	68.0	20	54	ssw.			3		9	sw.		0.028	0.7		H. Leppig, Asst.
Magdeburg	29.84	757.8	30.02	762.5	68.4	20.2	55	sw.			1	0	5 ks		sw.	0.020	0.5		Dr. Assmann.
Memel	29.99	761.8	30.04	763.0	61.7	16.5	78	nw.			2	8 cs	0					foggy	Isserimann.
Munich	28.28	718.2	30.15	765.7	67.8	19.9	50	calm			0		3	se.		0	0		Central Station.
Neufahrwasser	30.02	762.5	30.04	762.9	68.4	20.2	74	se.			1		7			0.075	1.9		A. Lothes.
Neustadt, Palatinate	29.50	749.3	30.02	762.6	64.8	18.2	71	s.			2		8			0.394	10.0		Dickmether.
Stuttgart	29.09	738.8	29.96	760.9	68.0	20.0	70	s.			1		4	w.		0.177	4.5		Prof. Dr. Schoder.
Wustrow	30.01	762.3	30.04	762.9	61.9	16.6	63	wsw.			3	0	5 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.72	754.9			80.6	27.0		nw.			2.0		2 k			0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.66	753.4	29.71	754.6	87.3	30.7	80	sw.	37.0	16.5			1			0	0	misty	
Deesa	29.14	740.2	29.59	751.6	104.2	40.1	26	wsw.	12.6	5.6			1			0	0	d. clouds	
Bombay	29.74	755.5	29.78	756.4	87.1	30.6	66	wnw.	12.0	5.4			0			0	0	blue sky	
Poona, Yarrowda	27.86	707.5	29.66	753.2	92.6	33.7	36	wnw.	23.0	10.3			4	wsw.	wsw.	0	0	d. clouds	
Bellary	28.17	715.6	29.58	751.4	99.2	37.3	19	se.	11.0	4.9			10			0	0	d. clouds	
Belgaum	27.19	690.7	29.67	753.7	85.4	29.7	54	w.	13.0	5.8			5	s.	ne.	0.03	0.8	showery	
Lahore	28.74	729.9	29.43	747.4	109.3	43.0	8	nw.	1.1	0.5			0			0	0	blue sky	
Roorkee	28.61	726.9	29.46	748.4	98.9	37.2	16	sw.	4.0	1.8			0			0	0		
Agra	28.95	735.3	29.47	748.6	111.1	43.9	11	w.	6.5	2.9			0			0	0		
Nagpur	28.53	724.6	29.52	749.7	103.7	39.8	22	ene.	7.3	3.3			9		w.	0	0	d. clouds	
Jubbulpore	28.22	716.8	29.50	749.3	104.7	40.4	12	wnw.	3.3	1.5			3		n.	0.01	0.3	d. clouds	
Lucknow	29.13	739.8	29.48	748.8	106.9	41.6	24	calm	2.9	1.3			0			0	0	blue sky	
Allahabad	29.18	741.1	29.47	748.5	107.1	41.7	20	ne.	2.3	1.0			0			0	0	blue sky	
Patna	29.38	746.2	29.55	750.7	96.1	35.6	76	e.	10.9	4.9			4	e.	e.	0	0	d. clouds	
Hazaribagh	27.59	700.7	29.50	749.3	100.3	37.9	18	nw.	10.1	4.5			7		nw.	0	0		
Cuttack	29.55	750.6	29.63	752.7	90.1	32.3	63	sse.	6.5	2.9			4			0	0	d. clouds	
Calcutta, Alipore	29.60	751.9	29.62	752.4	89.5	31.9	62	ssw.	10.0	4.5			8	se.		0.06	1.5	d. clouds	
Dhubri	29.56	750.8	29.68	753.8	82.6	28.1	80	ene.	6.2	2.8			9		w.	0.73	18.5	d. clouds	
Chittagong	29.66	753.3	29.75	755.6	83.7	28.7	81	s.	6.4	2.9			5			0	0	blue sky	
Sibsagar	29.35	745.6	29.69	754.0	83.1	28.4	80	s.	2.3	1.0			10	w.	w.	0.02	0.5	d. clouds	
Jeypore	28.13	714.4	29.48	748.9	108.0	42.2	12	nw.	7.8	3.5			3		w.	0	0	d. clouds	
Zanzibar, Africa	29.95	760.7			81.7	27.6	71	s.	6.4	2.9			7		se.	0	0	d. clouds	
Italian.																			
Udine	29.74	755.4	30.14	765.5	71.1	21.7	72	s.	1.8	0.8			7			0	0		Prof. Giovanni Clodig.
Milan	29.62	752.3	30.12	765.0	75.2	24.0	39	sw.	7.4	3.3			5	sw.		0	0		Prof. Schiaparelli.
Padua	30.01	762.3	30.12	765.0	75.2	24.0	42	wsw.	7.4	3.3			6	w.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.22	742.2	30.10	764.5	67.3	19.6	61	nw.	2.5	1.1			8			0	0		Prof. P. F. Denza.
Genoa	30.01	762.2	30.20	767.0	66.2	19.0	71	se.	4.9	2.2			4	s.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.21	716.6	30.15	765.7	67.6	19.8	57	w.			4		3	s.		0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	30.09	764.2	30.13	765.4	70.3	21.3	54	se.	11.2	5.0			10			0	0		Prof. Luigi Guidi.
Florence	29.93	760.1	30.17	766.4	74.8	23.8	44	nw.			2		5			0	0		Prof. Costantino Pitter.
Leghorn	30.05	763.3	30.13	765.4	71.2	21.8	65	s.	1.8	0.8			9			0	0		Prof. P. Monte.
Rome	30.00	762.1	30.17	766.4	77.5	25.3	35	nnw.	3.1	1.4			2			0	0		Prof. P. S. Ferrari.
Lecce	29.92	760.0	30.17	766.4	77.4	25.2	30	ene.	11.9	5.3			0			0	0		Prof. C. de Giorgi.
Cosenza	29.28	743.7	30.14	765.6	80.2	26.8	78	ese.	2.5	1.1			0			0	0		Prof. D. Conti.
Cagliari	29.93	760.3	30.12	765.1	73.8	23.2	56	sse.			4		5			0	0		Prof. A. Pacinotti.
Palermo	29.94	760.5	30.19	766.7	73.0	22.8	63	ne.	0.7	0.3			0			0	0		Prof. G. Ciacciatore.
Syracuse	30.09	764.3	30.13	765.4	73.6	23.1	79	ese.	2.5	1.1			5	ese.		0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.66	753.3	30.17	766.3	73.2	22.9	55	sw.	0	0			0			0	0		Prof. T. Brioschi.
Stelvio	22.32	567.0			42.8	6.0	71	sw.			1		8			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.35	567.7			41.0	5.0	73	n.			2		10			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.73	755.1	29.77	756.1	50.2	10.1	81	ne.	7.2	3.2			10 n			0.498	12.6	raining	K. Ogawa.
Hakodate	29.83	757.7	29.84	757.9	47.0	8.3	86	e.	15.0	6.7			10		se.	1.385	35.2	covered	
Hiroshima, I. M. Obs'y	29.73	755.1	29.74	755.4	62.8	17.1	75	nne.	2.3	1.0		ck	10 ks			0.210	5.3	covered	J. Sogawa.
Kanazawa	29.57	751.1	29.67	753.6	60.1	15.6	99	w.	6.8	3.0		ck	10 n;s			0.610	15.5	raining	S. Endo.
Kioto	29.49	749.0	29.66	753.3	66.2	19.0	95	sw.	4.6	2.1			10 n			0.796	20.2	light rain	M. Tojima.
Kochi	29.67	753.6	29.69	754.1	66.9	19.4	90	w.	6.1	2.7		5 ck	0	w.		0.068	1.7	fair	K. Kusunose.
Nagasaki, I. M. Obs'y	29.61	752.1	29.81	757.2	62.4	16.9	76	nne.	5.8	2.6		ck	10 s			0	0	overcast	S. Takehayashi.
Niigata	29.53	750.0	29.56	750.8	62.4	16.9	94	se.	9.6	4.3			10 n			1.285	32.6	raining	M. Morita.
Nobiru	29.76	755.9	29.78	756.4	55.7	13.2	96	n.	6.0	2.7			10 n			0.620	15.8	light rain	H. Midzushima.
Supporo					54.8	12.7	85	s.	9.6	4.3			10			0	0	covered	
Tokei Obs'y, Yeddo	29.58	751.3	29.65	753.1	63.3	17.4	98	ene.	3.3	1.5			10 n			0.292	7.4	light rain	The Staff.
Wakayama	29.64	752.8	29.69	754.1	66.8	19.3	91	nw.	0.5	0.2		ck	10n;ks		w.	0.481	12.2	raining	Y. Kuwamuea.
MAURITIUS																			
Mauritius Observatory	29.78	756.4	29.97	761.2	74.8	23.8	56	se.	14.0	6.3		o	4 ks		s.	o	o	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.69	601.7	29.91	759.7	59.4	15.2	96	calm	o	o		1 cs	o			0.382	9.7	foggy	Prof. Vicente Fernandez.
Leon	24.31	617.5	29.93	760.2	61.2	16.2	89	wsw.			2	3 c	o			0.040	1.0	light fog	Prof. M. Leal.
Mazatlan	29.67	753.6	29.93	760.2	70.0	21.1	90	n.	1.6	0.8		1 cs	o	n.		o	o	clear	F. Quijano, C. E.
Mexico, Central Obs'y	23.09	586.4	30.07	763.8	58.1	14.5	85	calm	o	o		3 ck	4 ks	sw.		0.296	7.5	½ clouded	The Staff.
Morelia	24.04	610.5	30.06	763.5	59.7	15.4	61	se.			2	2	4	s.	s.	0.414	10.5	raining	M. Tena, M. D.
Pabellon, Aguascalientes	23.93	607.9	29.90	759.4	61.3	16.3	80	calm	o	o						o	o		M. V. de Leon, M. E.
Puebla, Catholic Institute	23.39	594.0	30.08	763.7	57.9	14.4	88	calm	o	o		o	o			o	o	clear	Prof. P. Spina.
San Luis Potosi	24.20	614.6	30.06	763.4	66.2	19.0	61	w.			1	6	o	w.		o	o	½ cloudy	G. Barroeta, M. D.
Zacatecas	22.60	574.0	30.17	766.2	57.5	14.2	67	nw.	4.0	1.7		3 ck	o			o	o	½ cloudy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.94	760.5	29.94	760.5	66.7	19.3		sw.			4					0.185	4.7		
Groningen	29.89	759.3	29.95	760.7	65.8	18.8		sw.			4					0.118	3.0		
Helder	29.93	760.2	29.93	760.2	59.7	15.4		ssw.			4					o	o		
Hellevoetsluis	29.93	760.1	29.93	760.1	67.8	19.9	59	ssw.			2					0.047	1.2		
Utrecht	29.91	759.6	29.95	760.8	68.0	20.0	54	ssw.			4		5			0.004	0.1	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.55	750.5	29.61	752.1	46.0	7.8	55	e.	4	2			6			0.394	10.0	raining	
Brono	29.78	756.4	29.82	757.4	66.2	19.0	39	ene.	9	4			3			o	o		
Christiania	29.66	753.3	29.80	757.0	56.3	13.5	89	s.	4	2			10			0.110	2.8		
Glæsvær	30.06	763.5	30.08	764.1	41.2	5.1		calm			o		o						
Lodingen	29.91	759.7	29.96	760.9	55.6	13.2	70	calm			o		10			o	o		
PORTUGUESE.																			
Angra, Azores					62.4	16.9	78	nw.	18.6	8.3			4			o	o		Dr. J. A. Sampaio.
Campo Major	29.06	738.0	30.04	763.1	65.5	18.6	75	ssw.	12.5	5.6			10			0.220	5.6		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.01	762.2	30.10	764.4	70.2	21.2	73	wsw.	8.7	3.9			6			o	o		Capt. D. A. de Cunha.
Lisbon, Observatory	29.73	755.1	30.09	764.2	62.4	16.9	80	ssw.	6.9	3.1			10			0.236	6.0		The Staff.
Ponta Delgada, Azores	29.96	761.0	30.03	762.8	63.3	17.4	78	wnw.	11.9	5.3			3			0.067	1.7		
Saint Paul de Lomdo	29.75	755.6	29.95	760.7	74.3	24.6	94	nnw.	0.7	0.3			4	e.		o	o	foggy	
Serra da Estrella	25.35	643.9	30.05	763.3	52.2	11.2	80	sse.	9.4	4.2			10			0.996	25.3		
RUSSIAN.																			
Algmolinski	28.92	734.6	29.97	761.2	65.8	18.8	43	sw.	18	8		7 ck	o			0.043	1.1		Major K. Lasarew.
Archangel	29.94	760.4	29.96	760.9	55.2	12.9	74	calm	o	o			9 ks			o	o		Capt. Sselliwerstow.
Astrakhan	30.07	763.8	29.99	761.7	65.3	18.5	75	e.	11	5			10 s;n			blank	blank		Capt. Wisganow.
Barnaul	29.69	754.0	30.18	766.6	58.1	14.5	37	sw.	9	4			10			o	o	light clouds	Meteorological Obs'y.
Dorpat	29.80	757.0	30.03	762.8	80.2	26.8	35	ssw.	7	3		o	4 k			0.008	0.2		Observatory.
Ekaterinburg	29.02	737.1	29.94	760.5	71.4	21.9	37	nnw.	13	6		o	7 ks			0.004	0.1		Meteorological Obs'y.
Kasan	29.82	757.5	30.08	763.9	81.3	27.4	27	wsw.	4	2		o	3 k			o	o		Observatory.
Kertch	30.03	762.8	30.05	763.3	66.2	19.0	82	sse.	4	2		o	6 ks			o	o		Lagorio & Sastyres.
Kieff	29.47	748.6	30.09	764.2	69.3	20.7	64	sw.	2	1		c	9 ks;n			0.020	0.5	raining	Observatory.
Lugan	29.85	758.3	30.05	763.3	76.1	24.5	32	wsw.	4	2			9			o	o		Meteorological Obs'y
Moscow	29.65	753.1	30.10	764.4	79.5	26.4	29	calm	o	o			4 ks						Meteorological Obs'y.
Nikolaiev	30.05	763.2	30.12	765.0	77.0	25.0	49	calm	o	o		o	6 kn			o	o		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.93	760.3	30.02	762.5	48.0	8.9	74	se.	4	2			1			o	o		Lieut. Iwanow.
Pekin, China	29.82	757.3	29.96	760.9	70.9	21.6	47	calm	o	o		o	2 k			o	o		Physical Observatory
St. Petersburg	30.02	762.6	30.04	763.0	75.2	24.0	35	wsw.	9	4		6 ck	o			o	o		Central Physical Obs'y.
Semipalatinsk	29.54	750.2	30.18	766.6	65.5	18.6	44	calm	o	o		8 c	o			o	o	light clouds.	Major Lasareu.
Tashkend, Laboratory	28.39	721.1	29.86	758.5	84.6	29.2	41	calm	o	o		o				o	o		Teich, A. M.
Tiflis	28.58	725.8	29.94	760.4	75.4	24.1	46	calm	o	o		o	8 n			o	o		Physical Observatory
Vladivostock	29.80	756.9	29.87	758.6	48.9	9.4	86	se.	7	3		o	3 s			o	o		
Warsaw	29.62	752.4	30.03	762.7	73.8	23.2	61	ssw.	4	2			10 ks						Astronomical Obs'y
Wilna	29.66	753.3	30.06	763.4	77.7	25.4	43	s.	4	2			7			0.004	0.1		Berg, Assistant.
Yeniseisk																			M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.98	761.5	30.08	764.1	75.6	24.2	61	sw.	3.8	1.7			o			o	o	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.90	759.5	29.96	761.0	80.2	26.8	36	nw.	2.9	1.3		3	2	sw.		o	o	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.10	688.4	30.01	762.2	63.7	17.6	59	sw.	23.7	10.6			8			0.532	13.5	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.89	708.4	30.09	764.2	64.9	18.3	77	sw.	16.1	7.2			10			0.264	6.7	covered	The Staff.
Murcia, Met. Obs'y	29.90	759.4	30.05	763.2	79.3	26.3	43	e.	3.4	1.5		2	3			o	o	clouds	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.04	737.7	29.93	760.2	61.2	16.2	68	sw.	16.8	7.5			6			0.417	10.6	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	29.83	757.7	29.90	759.4	76.0	24.4	90	sse.	o	o		o	2 k;s		ssw.	0.516	13.1	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.79	756.7	29.85	758.2	85.3	29.6	73	sse.	1.1	0.5		c	1 ks			o	o	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.07	763.7	30.17	766.2	70.7	21.5	70	w.	6.6	3.0		o	6		w.	o	o		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.94	760.4	30.03	762.7	85.3	29.6		se.	4.3	1.9		2 cs	1 k	se.	se.	o	o	clear	Manuel Maese.
Tuguegarao, Philippine Id's	29.73	755.1	29.86	758.4	79.0	26.1	83	nnw.	9.3	4.2			9 kn		nw.	inap.	inap.	covered	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.99	761.7	30.03	762.7	56.1	13.4	62	sw.			2		8			0.083	2.1	raining	
Umea	29.96	761.0	30.01	762.3	55.0	12.8	75	e.			2		10			0.165	4.2		
Hernosand	29.83	757.6	29.88	758.9	49.3	9.6	95	ne.			4		10			o	o		
Stockholm	29.72	755.0	29.90	759.5	62.2	16.8	74	ssw.			2		7			0.020	0.5		
Wisby	29.85	758.3	29.91	759.8	63.3	17.4	72	wsw.			4		7			0.063	1.6		
Sub-series.																			
Upsala	29.78	756.4	29.87	758.6	56.8	13.8	95	ssw.	10.3	4.6			10			0.004	0.1		S. G. Fineman.
SWISS.																			
Geneva	28.65	727.7	30.07	763.8	56.1	13.4	98	nnw.			2					0.535	13.6	raining	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
TURKISH.																			
Constantinople	.....	.....	30.11	764.8	70.0	21.1	54	ese.	3	1.5	.....	.....	5	.....	sw.	0	0	.....	The Observatory.
Valona	.....	.....	30.23	767.9	77.9	25.5	.....	w.	.....	.....	1	.....	0	.....	.....	0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.09	764.3	72.0	22.2	66	nw.	.....	.....	1	0	1 ks	.....	se.	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.08	764.0	30.16	766.1	49	9.4	77	sw.	4	1.8	.....	0	7 k;sk	.....	s.	0.18	4.6	fair	J. O. Barnes.
Alpena, Michigan	29.19	741.4	29.85	758.2	56	13.3	62	w.	13	5.8	.....	0	0	.....	.....	0	0	clear	Jas. J. Fitzgerald.
Atlanta, Georgia	28.89	733.8	30.06	763.5	65.0	18.3	81	e.	7	3.1	.....	0	0	.....	.....	0	0	clear	H. Hall.
Atlantic City, New Jersey	30.17	766.3	30.18	766.6	52.8	11.6	80	e.	5	2.2	.....	6 k	0	e.	.....	0.35	8.9	fair	Jas. M. Watson.
Augusta, Georgia	29.88	758.9	30.07	763.8	71	21.7	76	e.	3	1.3	.....	0	1 s	.....	.....	0	0	clear	John Healy.
Baltimore, Maryland	30.17	766.3	30.22	767.6	54	12.2	74	n.	2	0.9	.....	0	8ks;fg	.....	se.	0.06	1.5	cloudy	Robert Seyboth.
Barnegat, New Jersey	30.17	766.3	30.19	766.8	50.3	10.2	82	se.	4	1.8	.....	0	9 k;s	.....	ne.	0.29	7.4	cloudy	Chas. F. Merritt.
Behring Island, Behring Sea	29.70	754.4	29.72	754.9	35.6	2.0	.....	w.	3	1.3	.....	c	1 s	.....	.....	0	0	clear	Dr. L. Steineger.
Bismarck, Dakota	28.22	716.8	30.00	762.0	43	6.1	53	ne.	12	5.4	.....	0	0	.....	.....	0	0	clear	Cyrus Cramer.
Boise City, Idaho	27.01	686.0	29.85	758.2	51	10.6	61	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	B. E. Light.
Boston, Massachusetts	30.00	762.0	30.16	766.1	49.0	9.4	74	calm	0	0	.....	0	fg.	.....	.....	0.08	2.0	clear	O. B. Cole.
Brownsville, Texas	29.78	756.4	29.82	757.4	77	25.0	85	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	M. McCarty.
Buffalo, New York	29.30	744.2	30.04	763.0	53	11.7	51	se.	10	4.5	.....	7 cs	hz.	s.	.....	0	0	fair	Wm. Finn.
Burlington, Vermont	29.79	756.7	30.08	764.0	50.3	10.2	71	s.	7	3.1	.....	0	0	.....	.....	inap.	inap.	clear	G. C. Schaeffer.
Cairo, Illinois	29.61	752.1	30.01	762.2	63.6	17.6	80	e.	1	0.4	.....	2 c	0	.....	.....	0	0	clear	W. H. Ray.
Campo, California	27.34	694.4	29.87	758.7	36.4	2.4	72	nw.	3	1.3	.....	.....	10 s	.....	w.	0.18*	4.6*	cloudy	W. H. Clendenon.
Camp Thomas, Arizona	27.12	688.8	29.79	756.7	52	11.1	55	se.	.....	.....	1	hz.	hz.	.....	.....	0	0	light haze	J. T. Fitzgerald.
Cape Henry, Virginia	30.17	766.3	30.19	766.8	56	13.3	74	ne.	22	9.8	.....	6 k	1 s	ne.	.....	0.08	2.0	fair	J. E. Lanouette.
Cape May, New Jersey	30.16	766.1	30.19	766.8	50	10.0	86	ne.	1	0.4	.....	.....	10 ks	.....	ne.	0.30	7.6	cloudy	W. Bolten.
Cedar Keys, Florida	29.95	760.7	29.97	761.2	72	22.2	82	ne.	9	4.0	.....	0	0	.....	.....	0	0	clear	F. W. Mixer.
Champaign, Illinois	29.17	740.9	29.97	761.2	53.3	11.8	83	s.	6	2.7	.....	3 ck	0	w.	.....	0	0	clear	L. A. Welsh.
Charleston, S. Carolina	29.99	761.7	30.04	763.0	72	22.2	84	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.26	743.2	30.10	764.5	60.0	15.6	87	ne.	12	5.4	.....	.....	10 s	.....	ne.	0.06	1.5	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.24	742.7	30.04	763.0	65.0	18.3	78	sw.	3	1.3	.....	3 ck	1 ks	w.	.....	0	0	fair	B. L. Goulding.
Cheyenne, Wyoming	23.85	605.8	29.72	754.9	44.8	7.1	83	ne.	20	8.9	.....	.....	10 s	.....	.....	0.01	0.3	light rain	E. McGovern.
Chicago, Illinois	29.30	744.2	30.00	762.0	54.3	12.4	79	sw.	6	2.7	.....	4 c	0	w.	.....	0	0	fair	J. Mitchell.
Chincoteague, Virginia	30.16	766.1	30.18	766.6	51	10.6	80	ne.	8	3.6	.....	.....	10 ks	.....	ne.	0.33	8.4	cloudy	V. P. Temple.
Cincinnati, Ohio	29.42	747.3	30.07	763.8	55.6	13.1	81	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	R. B. Watkins.
Cleveland, Ohio	29.33	745.0	30.06	763.5	50	10.0	63	se.	6	2.7	.....	3 c	0	.....	.....	0	0	clear	J. B. Newlin.
Coleman City, Texas	28.04	712.2	29.83	757.7	67	19.4	93	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	L. Dorman.
Columbus, Ohio	29.22	742.2	30.06	763.5	49	9.4	86	se.	1	0.4	.....	7 cs	0	.....	.....	0	0	fair	D. Cuthbertson.
Concho, Texas	27.91	708.9	29.81	757.2	73	22.8	76	s.	18	8.0	.....	.....	10 s	.....	s.	0	0	cloudy	W. W. McConihe.
Davenport, Iowa	29.33	745.0	29.97	761.2	54	12.2	80	s.	4	1.8	.....	7 k	hz.	s.	calm	0	0	fair	R. R. Martin.
Dayton, Washington T'y	28.21	716.5	29.96	761.0	53.8	12.1	64	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear	H. Clifford.
Deadwood, Dakota	25.29	642.4	29.80	756.9	51	10.6	80	calm	0	0	.....	10 cs	0	e.	.....	0.02	0.5	cloudy	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	D. J. Carr.
Delaware Breakwater, Del.	30.17	766.3	30.19	766.8	52	11.1	86	ne.	9	4.0	.....	.....	9 s	.....	e.	0.25	6.3	cloudy	A. Schneider.
Denison, Texas	29.05	737.9	29.84	757.9	68.0	20.0	84	s.	6	2.7	.....	0	0	.....	.....	0.04	1.0	clear	J. McGlone.
Denver, Colorado	24.55	623.0	29.71	754.6	53.5	11.9	61	s.	4	1.8	.....	2 ck	3 s	w.	calm	0	0	fair	F. M. Neal.
Des Moines, Iowa	29.02	737.1	29.91	759.7	54	12.2	86	s.	2	0.9	.....	.....	10 s	.....	s.	0.16	4.1	threatening	F. W. Conrad.
Detroit, Michigan	29.33	745.0	30.03	762.7	56.5	13.6	62	s.	7	3.1	.....	1 c	0	w.	.....	0	0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.10	689.9	29.71	754.6	60	15.6	84	s.	15	6.7	.....	0	5 s	.....	s.	0	0	fair	E. A. Thomas.
Dubuque, Iowa	29.25	742.9	29.95	760.7	53.7	12.1	77	s.	2	0.9	.....	9ck;c;cs	0	w;nw;c	.....	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.28	743.7	29.98	761.5	46	7.8	54	nw.	9	4.0	.....	0	0	.....	.....	0.07	1.8	clear	N. B. Conger.
Eagle Pass, Texas	29.03	737.3	29.83	757.7	75.0	23.9	85	se.	9	4.0	.....	0	5 s	.....	se.	inap.	inap.	fair	F. Belford.
Eagle Rock, Idaho	25.15	638.8	29.83	757.7	47	8.3	86	s.	8	3.6	.....	.....	10 s	.....	s.	0	0	cloudy	J. M. Clifford.
Eastport, Maine	30.03	762.7	30.10	764.5	49	9.4	74	calm	0	0	.....	0	0	.....	.....	0.07	1.8	clear	J. H. Melton.
El Paso, Texas	26.13	663.7	29.77	756.1	58	14.4	65	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.34	745.2	30.06	763.5	53	11.7	61	s.	8	3.6	.....	0	0	.....	.....	0	0	clear	R. H. Paxton.
Escanaba, Michigan	29.21	741.9	29.87	758.7	51	10.6	72	n.	9	4.0	.....	4 k	3 s	w.	.....	0.03	0.8	fair	C. Dill.
Fort Apache, Arizona	24.95	633.7	29.77	756.1	39	3.9	59	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. O. Barnes.
Fort Assiniaboine, Montana	27.00	687.3	29.90	759.4	45	7.2	71	ne.	6	2.7	.....	2 c	0	w.	.....	0	0	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.36	720.3	29.92	760.0	49.0	9.4	80	ne.	7	3.1	.....	4 ck	2 s	calm	calm	0	0	fair	A. Pritchard.
Fort Benton, Montana	27.08	687.8	29.87	758.7	47	8.3	86	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	G. W. Davis.
Fort Buford, Dakota	28.02	711.7	30.00	762.0	44	6.7	68	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	A. H. Bell.
Fort Custer, Montana	26.71	678.4	29.81	757.2	54	12.2	86	se.	2	0.9	.....	0	8 s	.....	calm	0	0	cloudy	V. Verge.
Fort Davis, Texas	25.03	635.8	29.75	755.6	65	18.3	54	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. Williams.
Fort Elliott, Texas	27.03	686.5	29.73	755.1	62	16.7	78	se.	24	10.7	.....	.....	10 n	.....	se.	0.14	3.6	light rain	W. J. Cundall.
Fort Gibson, Indian T'y	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. B. Campbell.
Fort Grant, Arizona	25.14	638.5	29.75	755.6	53	11.7	28	calm	0	0	.....	0	0	.....	.....	0	0	clear	T. J. Macgowan.
Fort Keogh, Montana	27.41	696.2	29.86	758.4	48	8.9	71	ne.	5	2.2	.....	6 c	0	se.	.....	0	0	fair	W. B. Stockman.
Fort Macon, North Carolina	30.11	764.8	30.12	765.0	62	16.7	78	ne.	22	9.8	.....	9 cs	hz.	sw.	calm	0	0	cloudy	L. Leonardy.
Fort McKavett, Texas	27.71	703.8	29.95	760.7	71	21.7	64	sw.	8	3.6	.....	.....	10 s	.....	.....	0.14	3.6	cloudy	J. E. Thatcher.
Fort Missoula, Montana	26.63	676.4	29.93	760.2	49	9.4	86	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Fort St. Michaels, Alaska	29.56	750.8	29.60	751.8	38	3.3	91	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	A. P. Leavitt.
Fort Shaw, Montana	26.27	667.2	29.87	758.7	40	4.4	82	w.	6	2.7	.....	1 cs	0	.....	.....	0	0	clear	A. L. Mathews.
Fort Sill, Indian Territory	28.59	726.2	29.81	757.2	67	19.4	93	se.	6	2.7	.....	7 k	0	s.	.....	0	0	fair	T. Cleary.
Fort Stevenson, Dakota	28.20	716.3	30.03	762.7	40	4.4	73	ne.	7	3.1	.....	0	0	.....	.....	0	0	clear	W. Burrows.
Fort Verde, Arizona	.....	.....	.....	.....	51.9	11.1	43	s.	.....	.....	2	0	0	.....	.....	0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.34	618.2	.....	.....	41.0	5.0	92	sw.	2	0.9	.....	.....	10 k	.....	.....	0.22	5.6	cloudy	T. M. Ambler.
Fredericksburg, Texas	28.11	714.0	29.83	757.7	68	20.0	90	sw.	12	5.4	.....	10 k	0	sw.	.....	0.17	4.3	cloudy	H. S. Miles.
Galveston, Texas	29.84	757.9	29.89	759.2	75.5	24.2	88	se.	10	4.5	.....	0	5 k	.....	se.	0	0	fair	E. O'O. MacInerney.
Grand Haven, Michigan	29.32	744.7	29.98	761.5	54.5	12.5	74	sw.	12	5.4	.....	5 ck	0	w.	.....	0	0	fair	W. A. Reid.
Hatteras, North Carolina	30.11	764.8	30.13	765.3	57	13.9	80	ne.	24	10.7	.....	3 c	0	ne.	.....	0.23	5.8	clear	R. M. Crawford.
Helena, Montana	25.69	652.5	29.86	758.4	48	8.9	71	sw.	2	0.9	.....	0	4 s	.....	.....	inap.	inap.	fair	S. Wheaton.
Henrietta, Texas	28.84	732.5	29.82	757.4	70.0	21.1	84	se.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. W. Byram.
Huron, Dakota	28.52	724.4	29.86	758.4	49	9.4	83	ne.	7	3.1	.....	.....	10 s	.....	.....	0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.24	742.7	30.03	762.7	57	13.9	69	s.	4	1.8	.....	1 ck	fg.	calm	calm	0	0	clear	O. Schutze
Indianola, Texas	29.84	757.9	29.87	758.7	76.1	24.5	85	se.	6	2.7	.....	0	4 k	.....	se.	0	0	fair	I. A. Reed.
Jacksboro, Texas	28.68	728.5	29.83	757.7	70	21.1	84	s.	9	4.0	.....	0	0	.....	.....	0	0	clear	J. P. Sherry.
Jacksonville, Florida	29.94	760.5	29.98	761.5	76	24.4	76	e.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. W. Smith.
Keokuk, Iowa	29.28	743.7	29.93	760.2	53.0	11.7	93	e.	8	3.6	.....	.....	10 s	.....	e.	0.04	1.0	cloudy	F. Z. Gosewisch.
Key West, Florida	29.86	758.4	29.88	758.9	73.0	22.8	94	e.	4	1.8	.....	.....	10 n;s	.....	se.	2.88	73.2	threatening	L. M. Melbourne.
Kittyhawk, North Carolina	30.17	766.3	30.19	766.8	53	11.7	86	ne.	23	10.3	.....	2 ck	4 s	w.	ne.	0.20	5.1	fair	E. A. Beals.
Knoxville, Tennessee	29.03	737.3	30.05	763.3	64.6	18.1	75	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.16	740.7	29.92	760.0	57	13.9	69	sw.	2	0.9	.....	2 k	2 s	w.	.....	0	0	fair	S. C. Emery.
La Mesilla, New Mexico	25.96	659.4	29.72	754.9	46.0	7.8	49	calm	0	0	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Leavenworth, Kansas	28.97	735.8	29.85	758.2	58	14.4	86	se.	6	2.7	.....	.....	10 s	.....	sw.	0	0	cloudy	A. W. Browne.
Lewiston, Idaho	29.06	738.1	29.90	759.4	56.5	13.6	74	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. M. Burlew.
Little Rock, Arkansas	29.59	751.6	29.90	759.4	66	18.9	90	e.	3	1.3	.....	5 c	0	calm	.....	0	0	fair	W. U. Simmons.
Los Angeles, California	29.65	753.1	30.05	763.3	55.3	12.9	80	ne.	4	1.8	.....	0	3 s	.....	calm	0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.46	748.3	30.02	762.5	54	12.2	86	ne.	3	1.3	.....	0	sk.	.....	.....	0	0	clear	H. C. Smyth.
Lynchburg, Virginia	29.50	749.3	30.18	766.6	58.0	14.4	70	ne.	1	0.4	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	W. R. Bushby.
Madison, Wisconsin	28.96	735.0	29.96	761.0	54	12.2	80	sw.	5	2.2	.....	7 cs	0	sw.	.....	0	0	fair	C. A. Shaw.
Marquette, Michigan	29.16	740.7	29.88	758.9	52	11.1	47	e.	2	0.9	.....	0	0	.....	.....	0.34	8.6	clear	J. Gilligan.
Memphis, Tennessee	29.63	752.6	29.96	761.0	71	21.7	71	e.	6	2.7	.....	0	0	.....	.....	0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.21	741.9	29.95	760.7	56	13.3	74	sw.	12	5.4	.....	4 c	0	.....	.....	0	0	fair	W. Line.
Mobile, Alabama	29.95	760.7	29.99	761.7	71.5	21.9	90	n.	3	1.3	.....	.....	10s;fg	.....	.....	0	0	cloudy	J. U. Paxton.

* Amount of rainfall for 5 days.

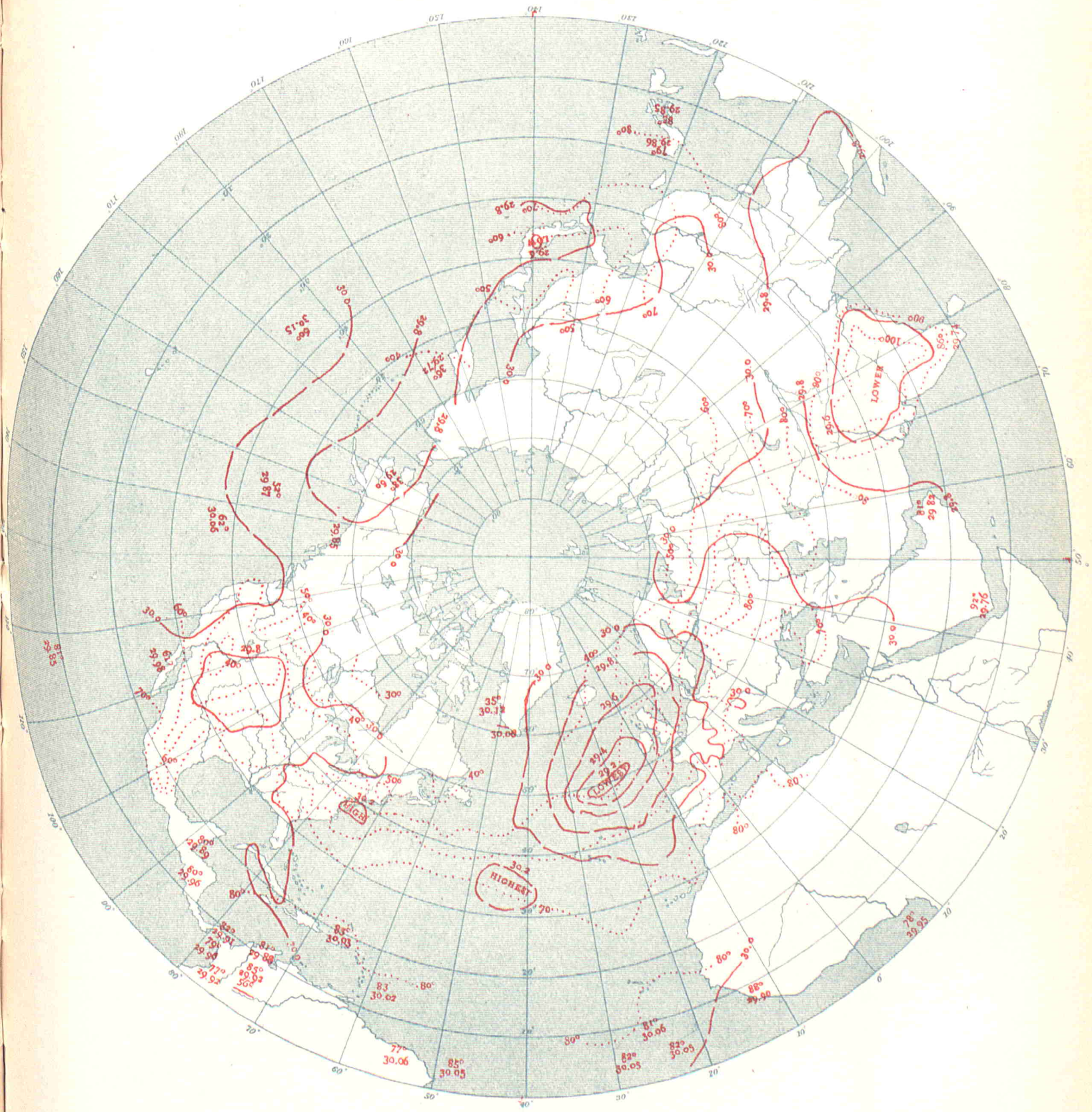
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Montgomery, Alabama	29.78	756.4	30.01	762.2	72	22.2	82	se.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	29.04	737.6	30.02	762.5	40	4.4	82	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.06	738.1	30.07	763.8	49.5	9.7	83	calm	0	0	.....	hz.	0	.....	.....	inap.	inap.	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.81	604.8	29.99	761.7	27.0	— 2.8	80	nw.	22	9.8	.....	5 cs	sk.	nw.	nw.	0.34	8.6	fair	J. G. Livsley.
Nashville, Tennessee	29.48	748.8	30.01	762.2	66.0	18.9	76	n.	3	1.3	.....	2 cs	fg.	w.	.....	0	0	clear	L. A. Jesunofsky.
New Haven, Connecticut	30.05	763.3	30.17	766.3	49	9.4	86	n.	2	0.9	.....	0	fg.	.....	.....	0.46	11.7	clear	J. H. Sherman.
New London, Connecticut	30.12	765.0	30.17	766.3	52	11.1	80	n.	2	0.9	.....	0	0	.....	.....	0.49	12.4	clear	J. G. Lynch.
New Orleans, Louisiana	29.88	758.9	29.93	760.2	73.6	23.1	85	e.	4	1.8	.....	1 c	sk.	.....	.....	0	0	clear	L. Dunne.
Newport, Rhode Island	30.11	764.8	30.16	766.1	52.0	11.1	77	nw.	3	1.3	.....	0	0	.....	.....	0.26	6.6	clear	W. McGillivray.
New River, N. Carolina	.....	.....	.....	.....	63	17.2	77	ne.	.....	.....	2	3 cs	5 s	e.	e.	0	0	cloudy	C. C. Corbin.
New Shoreham, Rhode I'd.	30.14	765.5	30.17	766.3	50.0	10.0	77	calm	0	0	.....	0	hz.	.....	.....	0.31	7.9	clear	W. Davis.
New York, New York	30.02	762.5	30.20	767.1	51	10.6	86	n.	2	0.9	.....	0	fg.	.....	.....	0.65	16.5	clear	E. B. Garriott.
Norfolk, Virginia	30.13	766.3	30.16	766.1	59	15.0	81	e.	9	4.0	.....	0	3 k;hz	.....	e.	0.05	1.3	clear	J. T. Elker.
North Platte, Nebraska	26.87	682.5	29.74	755.4	55.6	13.1	92	e.	10	4.5	.....	.....	10 n	.....	w.	0.32	8.1	light rain	E. F. Brady.
Olympia, Washington T'y	30.06	763.5	30.10	764.5	55.0	12.8	74	s.	4	1.8	.....	.....	10 s	.....	s.	0	0	cloudy	J. Dascomb.
Omaha, Nebraska	28.66	728.0	29.82	757.4	56.0	13.3	93	e.	6	2.7	.....	.....	10s;fg	.....	.....	0.05	1.3	threatening	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.00	762.0	30.02	762.5	20.3	— 6.5	.....	ene.	20	8.9	.....	.....	10 s	.....	.....	0	0	cloudy	P. H. Ray.
Oswego, New York	29.73	755.1	30.06	763.5	52.0	11.1	69	s.	7	3.1	.....	4 c	0	w.	.....	0	0	fair	S. W. Beall.
Palestine, Texas	29.39	746.5	29.94	760.5	69	20.6	90	se.	10	4.5	.....	0	3 s	.....	.....	0	0	clear	L. M. Pindell.
Pensacola, Florida	29.95	760.7	29.98	761.5	70.8	21.6	97	ne.	6	2.7	.....	.....	10 s	.....	ne.	0	0	cloudy	M. McGauran.
Philadelphia, Pa.	30.11	764.8	30.21	767.3	50.5	10.3	84	n.	2	0.9	.....	0	7 s	.....	nw.	0.26	6.6	fair	T. F. Townsend.
Pike's Peak, Colorado	17.66	448.6	29.72	754.9	19	— 7.2	80	w.	3	1.3	.....	0	1 s	.....	w.	inap.	inap.	clear	L. M. Dey.
Pioche, Nevada	23.91	607.3	29.83	757.7	38	3.3	92	w.	1	0.4	.....	.....	10 ks	.....	n.	0.18	4.6	cloudy	C. N. Kitchel.
Pittsburg, Pennsylvania	29.28	743.7	30.08	764.0	48.7	9.3	77	n.	1	0.4	.....	0	fg.	.....	.....	inap.	inap.	clear	J. H. Bryce.
Poplar River, Montana	27.86	707.6	.....	.....	.....	.....	.....	ne.	.....	.....	1	0	0	.....	.....	0	0	clear	U. D. Maxwell.
Port Eads, Louisiana	29.95	760.7	29.96	761.0	74.1	23.4	87	e.	7	3.1	.....	hz.	0	.....	.....	0	0	clear	H. G. Christian.
Port Huron, Michigan	29.32	744.7	30.00	762.0	53.5	11.9	69	sw.	11	4.9	.....	7 c	hz.	nw.	.....	0	0	fair	W. O. Bailey.
Portland, Maine	30.07	763.8	30.12	765.0	51.0	10.6	72	se.	2	0.9	.....	5 c	0	calm	.....	0	0	fair	D. C. Murphy.
Portland, Oregon	30.06	763.5	30.13	765.3	51.4	10.8	80	se.	6	2.7	.....	.....	10 s	.....	se.	0	0	cloudy	M. L. Hearne.
Portsmouth, N. Carolina	.....	.....	.....	.....	66	18.9	78	ne.	28	12.5	.....	6 c	0	n.	.....	0.04	1.0	fair	F. P. Chaffee.
Prescott, Arizona	24.67	626.6	29.77	756.1	39	3.9	67	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. McN. Wright.
Provincetown, Mass.	30.11	764.8	30.14	765.5	49	9.4	86	nw.	3	1.3	.....	0	0	.....	.....	0.48	12.2	clear	P. T. Jenkins.
Punta Rassa, Florida	29.90	759.4	29.91	759.7	72	22.2	84	e.	6	2.7	.....	9 ck	0	calm	.....	0.04	1.0	cloudy	W. J. Evans.
Red Bluff, California	29.69	754.1	30.05	763.5	54.1	12.3	86	nw.	3	1.3	.....	0	2 s	.....	w.	0.01	0.3	clear	J. M. Frantz.
Rio Grande City, Texas	29.62	752.3	29.86	758.4	77	25.0	85	se.	5	2.2	.....	.....	10 s	.....	se.	0	0	cloudy	P. M. Wilson.
Rochester, New York	29.38	746.2	30.04	763.0	51	10.6	59	sw.	16	7.2	.....	3 c	sk.	nw.	.....	inap.	inap.	clear	F. Gillam.
Roseburg, Oregon	29.60	751.8	30.15	765.8	41.3	5.2	82	e.	1	0.4	.....	4 cs	0	w.	.....	0	0	fair	J. J. Nanry.
Sacramento, California	29.98	761.5	30.06	763.5	52.2	11.2	86	se.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.39	746.5	29.98	761.5	55.0	12.8	95	se.	7	3.1	.....	5c;cs;hz	0	.....	.....	0	0	fair	J. H. Webber.
St. Paul, Minnesota	29.06	738.1	29.91	759.7	55.0	12.8	62	n.	6	2.7	.....	7 cs	0	w.	.....	0	0	fair	P. F. Lyons.
St. Vincent, Minnesota	29.19	741.4	30.05	763.3	36	2.2	79	nw.	7	3.1	.....	0	0	.....	.....	0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.51	647.9	29.83	757.7	49	9.4	52	e.	2	0.9	.....	6 k	0	nw.	.....	0.11	2.8	fair	J. Craig.
San Antonio, Texas	29.14	740.1	29.84	757.9	72	22.2	90	se.	5	2.2	.....	.....	10 ks	.....	se.	0	0	cloudy	E. Lane.
San Diego, California	29.95	760.7	30.02	762.5	58.8	14.9	75	nw.	4	1.8	.....	7 k	3 s	nw.	nw.	0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.37	746.0	30.04	763.0	55.2	12.9	62	s.	9	4.0	.....	5 c	0	s.	.....	0	0	fair	M. H. Perry.
Sandy Hook, New Jersey	30.16	766.1	30.20	767.1	52.0	11.1	72	ne.	1	0.4	.....	1 k	0	ne.	.....	0.65	16.5	clear	B. A. Blundon.
San Francisco, California	30.03	762.7	30.10	764.5	52	11.1	86	w.	7	3.1	.....	.....	10 s	.....	w.	0	0	cloudy	N. Gorom.
Santa Fé, New Mexico	23.08	586.2	29.69	754.1	43	6.1	32	ne.	8	3.6	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Savannah, Georgia	29.96	761.0	30.05	763.3	67	19.4	87	ne.	3	1.3	.....	.....	fg.	.....	.....	0	0	dense fog	H. W. Ford.
Shreveport, Louisiana	29.66	753.4	29.90	759.4	68	20.0	93	se.	2	0.9	.....	1 cs	0	.....	.....	0	0	clear	E. N. Meekins.
Silver City, New Mexico	24.16	613.7	29.71	754.6	40	7.8	58	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. B. Wallace.
Sitka, Alaska	29.79	756.7	29.85	758.2	45.6	7.6	78	sw.	22	9.8	.....	.....	10 n	.....	sw.	0.32	8.1	light rain	J. J. McLean.
Smithville, North Carolina	30.05	763.3	30.09	764.3	66	18.9	78	e.	16	7.2	.....	.....	10 s	.....	e.	0	0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.85	707.4	29.90	759.4	54	12.2	64	s.	9	4.0	.....	2 k	0	s.	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.31	744.5	29.98	761.5	56	13.3	74	se.	3	1.3	.....	.....	9 s	.....	w.	0	0	cloudy	T. B. Jennings.
Springfield, Massachusetts	30.05	763.3	30.18	766.6	40.6	4.8	92	n.	1	0.4	.....	.....	fg.	.....	.....	0.19	4.8	dense fog	T. S. Outram.
Springfield, Mo.	28.51	724.1	29.99	761.7	59.5	15.3	95	se.	8	3.6	.....	.....	fg.	.....	.....	0	0	dense fog	J. B. Marbury.
Starkville, Miss.	29.52	749.8	.....	.....	72	22.2	82	s.	4	1.8	.....	4 cs	0	.....	.....	0	0	fair	M. J. Wright.
Stockton, Texas	26.81	681.0	29.82	757.4	63.0	17.2	93	sw.	4	1.8	.....	0	0	.....	.....	0.02	0.5	clear	J. O'Dowd.
Thatcher's Island, Mass.	30.10	764.5	30.15	765.8	46.7	8.2	73	w.	1	0.4	.....	0	0	.....	.....	inap.	inap.	clear	F. R. Day.
Toledo, Ohio	29.35	745.5	30.03	762.7	56	13.3	62	sw.	5	2.2	.....	6 c	sk.	w.	.....	0	0	fair	A. Buell.
Tucson, Arizona	27.48	698.0	29.82	757.4	55	12.8	53	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.61	752.1	29.98	761.5	59	15.0	48	sw.	20	8.9	.....	3 c	0	.....	.....	0	0	clear	J. Daly.
Uvalde, Texas	28.86	733.0	29.81	757.2	72	22.2	97	s.	5	2.2	.....	10 k	0	s.	.....	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.68	753.9	29.93	760.2	78	25.6	80	se.	2	0.9	.....	4 c	0	.....	.....	0	0	fair	H. T. Brisbane.
Visalia, California	29.68	753.9	30.04	763.0	55	12.8	86	nw.	4	1.8	.....	.....	10 s	.....	nw.	0.02	0.5	cloudy	W. L. Seward.
Washington, D. C.	30.09	764.3	30.20	767.1	52.5	11.4	80	n.	1	0.4	.....	0	hz.	.....	.....	inap.	inap.	clear	B. M. Purssell.
West Las Animas, Colorado	25.78	654.8	29.64	752.8	57.9	14.4	62	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. Grover.
Williamsport, Pa.	29.56	750.8	30.16	766.1	45	7.2	83	e.	1	0.4	.....	2 cs	fg.	nw.	.....	inap.	inap.	clear	B. F. Hough.
Wilmington, N. Carolina	30.04	763.0	30.09	764.3	66	18.9	78	e.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	A. T. Sherwood.
Winnemucca, Nevada	25.59	650.0	29.94	760.5	46	7.8	93	sw.	6	2.7	.....	.....	10 ks	.....	w.	0.42	10.7	cloudy	J. R. Williams.
Yankton, Dakota	28.59	726.2	29.87	758.7	55	12.8	93	sw.	2	0.9	.....	.....	10 n	.....	.....	0.14	3.6	heavy rain	J. H. Atfield.
Yuma, Arizona	29.74	755.4	29.89	759.2	58.8	14.9	62	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.05	560.1	.....	.....	55.5	13.1	74	sw.	6	2.7	.....	.....	10 s; n	.....	.....	0	0	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W. I.	30.02	762.5	30.02	762.5	83	28.3	91	e.	.....	.....	.....	5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.89	759.2	29.92	760.0	77	25.0	90	ne.	3	1.3	.....	.....	10 ks	.....	n.	0.20	5.1	cloudy	J. I. Plume.
Havana, Cuba, W. I.	29.97	761.2	30.02	762.5	77	25.0	90	calm	0	0	.....	0	5 ks	.....	s.	1.33	33.8	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	29.97	761.2	29.98	761.5	81.0	27.2	79	se.	3	1.3	.....	1 cs	0	.....	.....	0	0	fine	Robert Johnston.
Magua, San Domingo, W. I.	.....	.....	.....	.....	78	25.6	.....	.....	.....	.....	.....	3 cs	0	e.	.....	0.06	1.5	.....	S. M. Pike.
Navassa, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. M. Everett.
Paramaribo, S. A.	30.06	763.5	30.06	763.5	77	25.0	91	se.	.....	.....	2	5 k	8 ps	e.	e.	0.720	18.3	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.47	748.5	29.92	760.0	85	29.4	81	calm	.....	.....	0	.....	10 s	.....	calm	0.20	5.1	foggy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	94	sw.	.....	.....	1	0	6 ks	.....	ne.	0	0	cloudy	Earl Flint.
Santiago de Cuba, W. I.	29.96	761.0	29.99	761.7	80	26.7	82	calm	0	0	.....	0	5 s	.....	.....	0.02	0.5	fair	Robert Mason.
York Factory, B. A.	30.02	762.5	30.06	763.5	26.0	— 3.3	94	ne.	9	4.0	.....	0	2 s	.....	ne.	0	0	fair	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
British Naval.																		
H. M. S. Alert, S. 23° 08′, E. 42° 08′	29.93	760.2	80	26.7	74	calm			0		5							d. clouds.
H. M. S. Alexandra, Suda Bay, Turkey in Europe	30.10	764.5	71	21.7	73	var.			1		1							blue sky.
H. M. S. Amethyst, N. 4° 19′, W. 24° 24′	29.95	760.7	81.5	27.5	93	se.			3-4		5	ese.				3	sse.	d. clouds.
H. M. S. Champion, N. 17° 50′ W. 145° 35′			72	22.2	?	ene.			4		3	ne.				2	ne.	d. clouds.
H. M. S. Comus, N. 8° 32′ E. 108° 50′	29.81	757.2	83.5	28.6	96	calm			0		0							showery.
H. M. S. Diamond, S. 29° 50′, E. 157° 21′	29.95	760.7	69.5	20.8	66	w.			1		2	wsw.				1	w.	d. clouds.
H. M. S. Dido, N. 13° 05′, W. 59° 30′	30.10	764.5	81	27.2		ese.			2		4	e.						d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	30.08	764.0	73	22.8	85	ssw.			1-2		8	ssw.						d. clouds.
H. M. S. Druid, N. 17° 08′, W. 87° 55′	29.89	759.2	80	26.7	86	calm			0		10	e.						d. clouds.
H. M. S. Dwarf, S. 29° 18′, W. 59° 20′	29.84	757.9	57.5	14.2	?	calm			0		10							foggy.
H. M. S. Eclipse, S. 23° 35′, E. 43° 44′	29.89	759.2	78	25.6		wsw.			1		2							d. clouds.
H. M. S. Emerald, S. 53° 20′ W. 121° 50′	29.10	739.1	43	6.1	?	ne.			4-6		10	ne.				5	nw.	drizzling.
H. M. S. Espiegle, S. 33° 24′ E. 158° 19′	29.91	759.7	66	18.9	84	nw.			1-2		9					2	nw.	d. clouds.
H. M. S. Euryalus, N. 11° 40′, E. 75° 15′	29.74	755.4	86	30.0	79	nw.			2-3		1	calm				1	nw.	blue sky.
H. M. S. Fantome, Savanilla, Granadian, Conf, S. A.	29.88	758.9	81	27.2		calm			0		4	calm						d. clouds.
H. M. S. Flying Fish, N. 37° 58′, E. 124° 40′	29.82	757.4	57	13.9	87	nw.			1		3					1	nw.	misty.
H. M. S. Fawn, N. 5° 28′ E. 66° 50′	29.80	756.9	80	26.7	74	s.			2		0	s.				2	s.	d. clouds.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.15	765.8	55	12.8	80	var.			1		10	w.						misty.
H. M. S. Garnet, Colonia, Rio de La Plata, Uruguay	30.00	762.0	57	13.9	93	n.			2		0							blue sky.
H. M. S. Inconstant, S. 18° 45′, W. 1° 15′	30.18	766.6	70	21.1	66	ese.			3		5	ese.				3	ese.	d. clouds.
H. M. S. Iron Duke, N. 32° 44′, E. 129° 52′	29.77	756.1	64	17.8	94	n.			3		5							d. clouds.
H. M. S. Kingfisher, N. 7° 30′, W. 79° 26′	29.96	761.0	79	26.1		sw.			1-2		7	calm						d. clouds.
H. M. S. Lark, S. 8° 38′, E. 156° 53′	29.88	758.9	82.3	27.9		ene.			2		8					2	se.	d. clouds.
H. M. S. Northampton, Halifax, Nova Scotia	30.03	762.7	45	7.2	92	nnw.			1		6							d. clouds.
H. M. S. Orontes, N. 15° 38′ W. 57° 50′	30.04	763.0	80.5	26.9	93	e.			4		6	ene.				4	ene.	d. clouds.
H. M. S. Pegasus, N. 1° 17′, E. 103° 51′	29.80	756.9	85.5	29.7	73	w.			1		1							blue sky.
H. M. S. Phoenix, N. 18° 25′, W. 77° 08′	30.01	762.2	81	27.2	87	calm			0		0					1	e.	blue sky.
H. M. S. Rambler, St. Thomas Island, Gulf of Guinea	29.95	760.7	78	25.6	100	se.			2		10	sse.				3	sse.	d. clouds.
H. M. S. Rocket, N. 48° 27′, W. 123° 27′	30.00	762.0	52	11.1	100	wsw.			2		2	wsw.						d. clouds.
H. M. S. Sylvia, N. 11° 32′, W. 26° 18′	30.06	763.5	75.7	24.3	84	ne.			2		2	calm				2	nne.	d. clouds.
H. M. S. Swiftsure, Vigo Bay, Spain	29.97	761.2	60	15.6	76	ssw.			3-4		6	wsw.						d. clouds.
H. M. S. Tenedos, N. 47° 34′ W. 52° 41′	30.04	763.0	43	6.1	87	ese.			1		10							misty.
H. M. S. Triumph, Coquimbo, Chili	30.16	766.1	55	12.8	86	calm			0		8	calm						d. clouds.
H. M. S. Woodlark, N 22° 02′ E. 59° 51′	29.62	752.3	80.5	26.9	74	s.			5-6		0					4	s.	misty.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verde Islands	30.06	763.5	83.8	28.8	65	ne.			2		1					1		blue sky.
Tamega, Macao, China	29.82	757.4	82.4	28.0	85	n.			2		10		n.	4 h'r	4 h'r			drizzling.
Swedish Naval.																		
Saga, N. 54° 18′, E. 3° 27′	29.77	756.1	54.3	12.4	90	s.			5		2							d. clouds.
United States Naval.																		
Navy Yard, Pensacola, Fla	29.92	760.0	73	22.8	95	ne.	6	2.7			10		ne.	0	0			cloudy.
Navy Yard, Portsmouth, N. H	30.14	765.5	47	8.3	85	calm	0	0			0			0	0			clear.
Naval Hospital, Yokohama, Japan	29.56	750.8	64.5	18.1	94	calm			0		10		ne.	0.41	10.4			drizzling.
Adams, Mare Island, Cal	29.86	758.4	56	13.3	94	sw.			1-2		10					sm'h		overcast.
Alaska, Callao, Peru	29.98	761.5	61	16.1	94	se.			1		10			0	0	sm'h		cloudy.
Alert, Kobe, Japan*	29.56	750.8	68	20.0	84	wsw.			2		10		calm			sm'h		cloudy.
Alliance, N. 36° 55′ W. 74° 59′	30.16	766.1	50	10.0	93	ne.			4		10			light	light	sm'h		overcast.
Ashuelot, Kobe, Japan	29.64	752.8	66	18.9	100	w.			2		10		w.					cloudy.
Brooklyn, S. 33° 12′, W. 51° 14′	30.07	763.8	62	16.7	94	ne.	16	7.2			8		ne.	0	0	sm'h		fair.
Colorado, New York, N. Y	30.17	766.3	50	10.0	86	nw.			1		0			0.42	10.7			light fog.
Essex, Montevideo. Uruguay	30.04	763.0	55	12.8	80	n.			2		2					sm'h		fair.
Franklin, Norfolk, Va	30.17	766.3	58	14.4	70	ene.	8	3.6			2		ene.	0	0			fair.
Galena, N. 33° 28′, W. 9° 11′	30.14	765.5	72	22.2	85	calm			0		8					long	nw.	fair.
Independence, Navy Yard, Mare Island, Cal	29.92	760.0	54	12.2	100	sw.			2		10		sw.	0.01	0.3			cloudy.
Iroquois, San Francisco, Cal	30.07	763.8	53	11.7	86	wsw.			3		10							cloudy.
Kearsarge, N. 37° 00′, W. 74° 46′	30.15	765.8	50	10.0	93	ne.			4		0?					sm'h		cloudy.?
Lackawanna, Panama Bay, Panama	29.87	758.7	77	25.0	91	nw.			1		8		w.					cloudy.
Lancaster, N. 33° 21′, W 9° 37′*	30.10	764.5	75	23.9	77	nnw.			2		8		nw.	0	0	sm'h	nw.	fair.
Marion, S. 34° 54′, W. 56° 13′	30.00	762.0	55	12.8	100	nne.			2		10		nne.	0	0	sm'h		cloudy.
Michigan, Erie, Pa	29.97	761.2	53	11.7	100	s.			4		0							clear.
Minnesota, Newport, R. I	30.13	765.3	53	11.7	80	ne.	1	0.4			0							clear.
Monocacy, Nagasaki, Japan	29.80	756.9	64	17.8	89	se.			2		5		w.					fair.
New Hampshire. Newport. R. I	30.13	765.3	47	8.3	100	nw.			1		0					sm'h		clear.
Nipsic, N. 32° 49′, W. 9° 03′	30.13	765.3	68	20.0	74	n.			3		2					long	nw.	clear.
Onward, Callao, Peru†	30.14	765.5	61	16.1	94	sse.			2		10		n.			long	w.	misty.
Palos, Kobe, Japan	29.69	754.1	67	19.4	95	wsw.			4		5		w.					fair.
Passaic, Washington, D. C	30.20	767.1	50	10.0	?	e.			1		5		e.					fair.
Pensacola. S. 12° 31′, W. 78° 11′	30.01	762.2	65	18.3	84	sse.			4		10		sse.	0	0	mod.	sse.	cloudy.
Portsmouth, Portsmouth, Eng*†	30.03	762.7	61	16.1	88	sw.			5		10		sw.			sm'h		cloudy.
Powhatan, Norfolk. Va	30.16	766.1	58	14.4	82	nne.			2		2		ne.					clear.
Quinnebaug, N. 30° 33′, W. 11° 57′	30.11	764.8	69	20.6	75	nw.			1		8?					long	w.	clear ?
Ranger, Mazatlan, Mexico*	29.84	757.9	74	23.3	81	nne.			2		2		calm	0	0	light	sw.	fair.
Richmond, Kobe, Japan*	29.61	752.1	67	19.4	95	w.			2		10			0.30	7.6			rainy.
Saratoga, Portsmouth, Eng	29.81	757.2	61	16.1	71	sw.			5-6		5		sw.	0	0	mod.	sw.	fair.
St. Louis, League Island, Pa	30.39	771.9	51	10.6	79	w.	1	0.4			10			0.24	6.1			misty.
Swatara, Shanghai, China*	29.80	756.9	66	18.9	74	ene.			1		8		w.			sm'h		fair.
Tennessee, N. 36° 56′, W. 74° 43′	30.22	767.6	53	11.7	73	ne.	18	8.0			10			0	0	mod.	nne.	overcast.
Vandalia, N. 36° 59′, W. 74° 57′*†	30.41	772.4	50	10.0	93	ne.			4		10		ne.			sm'h		overcast.
Wabash, Boston, Mass	30.14	765.5	53	11.7	80	w.	1	0.4			2		nw.	0.15	3.8			fair.
Wachusetts, Fort Wrangle, Alaska	29.83	757.7	45	7.2	92	ene.			2		10		sw.			sm'h		overcast.
Wyoming, Port Royal, S. C	30.06	763.5	67	19.4	95	nne.	10	4.5			10		calm	0	0			foggy.
Yantic, N. 37° 00′, W. 74° 54′*	30.14	765.5	50	10.0	93	ne.			3		10					long	ne.	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Prussian, N. 38° 29′, W. 71° 53′*	30.01	762.2	52	11.1	.....	nne.	.....	.....	3	.....	6?	.....	ne.	0	0	sm'h	.....	clear.
S. S. Scandinavian, N. 53° 12′, W. 9° 17′*	29.27	743.4	56	13.3	.....	sse.	.....	.....	5	.....	10	.....	sse.	8 h'r	8 h'r	light	.....	showery.
S. S. Waldensian, N. 42° 20′, W. 54° 38′*	30.21	767.3	40	4.4	.....	wsw.	.....	.....	2	.....	10	.....	sw.	0	0	light	sw.	overcast.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, N. 44° 22′, W. 38° 59′	29.91	759.7	56	13.3	93	nw.	.....	.....	6	.....	8	.....	nw.	.....	.....	mod.	nw.	
S. S. Indiana, Philadelphia, Pa†	30.28	769.1	56	13.3	93	w.	.....	.....	2	.....	5	.....	w.	0	0	.....	.....	fine.
S. S. Lord Clive, N. 45° 24′, W. 36° 34′*	29.82	757.4	.....	.....	.....	nw.	.....	.....	4	.....	10	.....	nw.	0	0	light	n.	cloudy.
S. S. Ohio, Liverpool, Eng†	29.37	746.0	56	13.3	93	wsw.	.....	.....	4	.....	7	.....	w.	0	0	.....	.....	showery.
ANCHOR LINE.																		
S. S. India, N. 15° 00′, E. 42° 00′*	29.66	753.4	92	33.3	92	nnw.	.....	.....	2	.....	2	.....	.....	.....	.....	mod.	n.	hazy.
S. S. Utopia, Valencia, Spain†	30.24	768.1	80	26.7	58	w.	.....	.....	2	.....	2	.....	w.	0	0	.....	.....	clear.
ATLAS LINE.																		
S. S. Alvo, Jeremie, Hayti, W. I.	29.92	760.0	97?	36.1?	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	.....	.....	
S. S. Athos, Antonio, Jamaica, W. I.	29.47	748.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, N. 42° 26′, W. 63° 33′	.....	.....	48	8.9	85	n.	.....	.....	1	.....	.....	.....	.....	0	0	.....	.....	clear.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S 39° 56′, E. 28° 15′	30.11	764.8	54.5	12.5	74	w.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	.....	showery.
British Merchant, S. 16° 29′, W. 3° 57′	30.16	766.1	73.5	23.1	72	ese.	.....	.....	4	.....	5	.....	.....	.....	.....	.....	.....	d. clouds.
Bk Commowyne, N. 25° 16′, W. 25° 50′	30.16	766.1	79.8	26.6	66	w.	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	blue sky.
Bk Coppename, N. 14° 28′, W 28° 30′	30.10	764.5	78	25.6	78	ene.	.....	.....	4	.....	5	.....	.....	.....	.....	.....	.....	blue sky.
Glencairn, S. 34° 09′. E. 25° 30′	30.27	768.8	64	17.8	89	wnw.	.....	.....	6	.....	8	.....	.....	.....	.....	.....	.....	showery.
Bkt. Hope, N. 35° 51′ W. 42° 33′	30.25	768.3	68.2	20.1	94	calm	.....	.....	0	.....	4	.....	.....	.....	.....	.....	.....	misty.
S. S. May Hulse, S. 35° 02′. W. 83° 14′	30.21	767.3	59.4	15.2	70	ssw.	.....	.....	6	.....	7	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Minho, Buenos Ayres, S. A.	29.99	761.7	59.5	15.3	97	calm	.....	.....	0	.....	5	.....	.....	.....	.....	.....	.....	d. clouds.
CUNARD LINE.																		
S. S. Marathon, N. 43° 00′, W. 58° 02′	30.09	764.3	48	8.9	.....	s.	.....	.....	2	.....	8	.....	.....	1 h'r	1 h'r	sm'h	.....	cloudy.
S. S. Parthia, N. 46° 03′, W. 35° 43′†	29.89	759.2	.....	.....	.....	n.	.....	.....	5	.....	6	.....	nnw.	0	0	con.	nnw.	cloudy.
S. S. Scythia, N. 40° 27′, W. 62° 18′	29.84	757.9	62.5	16.9	?	e.	.....	.....	5	.....	3	.....	e.	8 h'r	8 h'r	short	e.	
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. St. Germain, N. 40° 16′, W. 63° 17′	30.04	763.1	59.0	15.0	.....	n.	.....	.....	7	.....	.....	.....	n.	hail	hail	h'vy	n.	
S. S. St. Laurent, N. 43° 26′, W. 44° 12′†	30.02	762.5	50.0	10.0	86	nw.	.....	.....	3	.....	.....	.....	.....	0	0	sm'h	nw.	clear.
GUION LINE.																		
S. S. Wisconsin, N. 41° 10′ W. 55° 10′*†	30.12	765.0	50.0	10.0	.....	wnw.	.....	.....	1	.....	10	.....	.....	0	0	sm'h	.....	cloudy.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Gellert, N. 42° 01′, W. 46° 30′	30.07	763.8	58	14.4	.....	se.	.....	.....	2	.....	5	.....	nw.	0	0	sm'h	nw.	fair.
S. S. Lessing, N. 40° 03′, W. 69° 07′	30.13	765.3	45	7.2	.....	ene.	.....	.....	2	.....	5?	.....	ne.	0	0	sm'h	ene.	clear?
S. S. Silesia, N. 48° 44′, W. 23° 04′†	29.24	742.7	49	9.4	.....	w.	.....	.....	8	.....	5	.....	w.	0	0	7	w.	squally.
INMAN LINE.																		
S. S. City of New York, N. 40° 24′, W. 70° 15′	30.18	766.6	.....	.....	.....	ene.	.....	.....	2	.....	0	.....	.....	8 h'r	8 h'r	sm'h	.....	clear.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, N. 5° —′ W 29° —′*†	30.20	767.1	82	27.8	.....	ene.	.....	.....	1	.....	9?	.....	ene.	0	0	sm'h	.....	clear.?
S. S. Humboldt, N. 35° 02′, W. 70° 39′*	30.08	764.0	69.5	20.8	84	nw.	.....	.....	1	.....	5 k	.....	.....	0	0	2	nw.	d. clouds.
LEYLAND LINE.																		
S. S. Iberian, N. 45° 14′. W. 50° 24′	30.01	762.2	.....	.....	.....	ese.	.....	.....	1	.....	fg	.....	w.	0	0	.....	.....	foggy.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, N. 36° 09′, W. 79° 47′	29.83	757.7	.....	.....	.....	ne.	.....	.....	6	.....	.....	.....	ne.	0	0	h'vy	ne.	cloudy.
S. S. Glenapp, S. 23° 01′ W. 41° 46′*†	30.04	763.0	.....	.....	.....	ne.	.....	.....	2	.....	3	.....	ene.	0	0	sm'h	.....	fine.
NATIONAL LINE.																		
S. S. Canada, N. 40° 21′, W. 69° 54′†	30.19	766.8	48	8.9	.....	nne.	.....	.....	1	.....	0	.....	.....	0	0	sm'h	.....	clear.
S. S. Denmark, N. 41° 28′ W. 49° 00′	30.10	764.5	51	10.6	.....	wnw.	.....	.....	5	.....	10	.....	w.	2 h'r	2 h'r	slight	w.	cloudy.
S. S. England, N. 51° 06′, W. 14° 03′	29.21	741.9	.....	.....	.....	sw.	.....	.....	4	.....	2	.....	sw.	2 h'r	2 h'r	mod.	sw.	clear.
S. S. Erin, N. 46° 50′, W. 30° 41′	29.63	752.6	53	11.7	.....	nw.	.....	.....	9	.....	2	.....	nw.	0	0	mod.	nw.	clear.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, N. 28° 25′, W. 73° 55′†	29.97	761.2	77	25.0	.....	e.	.....	.....	2	.....	10	.....	e.	9 h'r	9 h'r	small	se.	raining.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S City of Alexandria, New York, N. Y*†	30.22	767.6	50	10.0	93	n.	.....	.....	3	.....	5	.....	sw.	0	0	.....	.....	misty.
S. S. City of Puebla, Vera Cruz, Mexico.†	29.77	756.1	80	26.7	.....	wnw	.....	.....	1	.....	2	.....	wnw.	.....	.....	mod.	nnw.	
S. S. City of Washington, N 37° 58′ W. 74° 38′*†	30.25	768.3	50	10.0	.....	nne.	.....	.....	4	.....	10	.....	n.	0	0	sm'h	.....	cloudy.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Lepanto, N. 49° 14′, W. 25° 30′*	29.27	743 4	49	9.4	.....	wnw.	.....	.....	9	.....	.....	.....	.....	.....	.....	high	se.	
S. S. Lone Star, N. 24° 45′ W. 83° 18′ *†	30.15	765.8	77	25.0	.....	se.	.....	.....	1	.....	.....	.....	.....	.....	.....	sm'h	.....	rainy.
NORTH GERMAN LLOYD																		
S. S. Elbe, N. 40° 15′ W. 59° 48′	29.93	760.2	55.4	13.0	94	se.	.....	.....	6	.....	10	.....	se.	rain	rain	r'gh	se.	covered.
S. S. Graf Bismarck. S. 5° 18′, W 32° 00′	30.01	762.2	81.5	27.5	.....	se.	.....	.....	4	.....	4	.....	se.	0	0	mod.	se.	fair.
S. S. Habsburg, N. 46° 18′, W. 40° 58′	29.98	761.5	49.1	9.5	.....	nw.	.....	.....	4	.....	10	.....	.....	0	0	mod.	nnw.	cloudy.
S. S. Hermann, N. 41° 23′, W. 49° 49′†	29.97	761.2	54.5	12.5	.....	wnw.	.....	.....	5	.....	7	.....	wnw.	0	0	light	wnw.	cloudy.
S. S. Hohenzollern, N. 37° 06′, W. 74° 51′*	30.22	767.6	49.1	9.5	.....	ne.	.....	.....	4	.....	8	.....	ene.	0	0	sm'h	ne	fair.
S. S. Leipzig, N. 44° 22′. W. 35° 26′	29.91	759.7	56.0	13.3	87	nw.	.....	.....	6	.....	5	.....	nnw.	0	0	mod.	nnw.	fair.
S. S. Main, Bremerhaven, Germany	.....	.....	.....	.....	.....	w.	.....	.....	3	.....	4?	.....	w.	rain	rain	.....	.....	overcast.?
S. S. Mosel, N. 49° 12′, W. 22° 26′	29.15	740 4	48	8.9	.....	w.	.....	.....	6	.....	8	.....	wsw.	7½ h'r	7½ h'r	cross	w.	cloudy.
S. S. Neckar, N. 45° 01′, W. 37° 48′	29.91	759.7	50.9	10.5	.....	nw.	.....	.....	4	.....	10	.....	nw.	0	0	r'gh	nw.	misty.
S. S. Oder, N. 40° 46′, W. 71° 49′	30.17	766.3	45.5	7.5	.....	calm	.....	.....	0	.....	1	.....	nnw.	0	0	sm'h	w.	clear.
S. S. Ohio, N. 42° 56′, W. 48° 04′	30.08	764.0	.....	.....	.....	e.	.....	.....	3	.....	8	.....	sw.	0	0	sm'h	e.	cloudy.
S. S. Salier, N. 48° 03′, W. 18° 55′	29.32	744.7	50.0	10.0	.....	wsw.	.....	.....	6	.....	8	.....	wsw.	2 h'r	2 h'r	cross	wsw.	cloudy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 37° 39′ W. 136° 34′*†	30.16	766.1	62	16.7	88	w.	.....	.....	2	.....	8	.....	wnw.	0	0	.....	sw.	d. clouds.
S. S. Belgic Hong Kong, China†	29.92	760.0	81	27.2	91	ne.	.....	.....	2	.....	10	.....	ne.	rain	rain	sm'h	.....	cloudy.
S. S. Gaelic, N. 32° 42′ E. 134° 39′ †	29.90	759.4	73	22.8	90	sw.	.....	.....	4	.....	10	.....	sw.	.....	.....	mod.	sw.	overcast.
S. S. Oceanic, N. 45° 01′, W. 144° 24′*	29.87	758.7	52	11.1	93	s.	.....	.....	5	.....	7	.....	sw.	.....	.....	2	w	fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga.†	30.05	763.3	.....	.....	.....	ne.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	dense fog.
S. S. City of Columbus, N. 37° 18′ W. 74° 58′†	30.11	764.8	.....	.....	.....	nne.	.....	.....	6	.....	10	.....	n.	0	0	mod.	nne.	cloudy.
S. S. Seminole, Vineyard, Mass †	30.17	766.3	50	10.0	59	calm	.....	.....	0	.....	0	.....	.....	6 h'r	6 h'r	.....	.....	clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Columbia, N. 37° 50′, W. 122° 43′†	30.08	764.0	51	10.6	86	wnw.	.....	.....	2	.....	10	.....	calm	.....	.....	sm'h	wnw.	cloudy.
S. S. Oregon, Portland, Oregon†	30.21	767.3	51	10.6	93	se.	.....	.....	1	.....	10	.....	se.	.....	.....	.....	.....	cloudy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 35° 19′, W. 121° 00′†	30.03	762.7	53	11.7	86	nw.	.....	.....	3	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
S. S. Orizaba, N. 37° 10′, W. 122° 25′†	30.08	764.0	56	13.3	81	nw.	.....	.....	6	.....	0	.....	.....	.....	.....	long	nw.	clear
S. S. State of California, San Francisco, Cal.†	30.09	764.3	50	10.0	86	w.	.....	.....	3	.....	10	.....	w.	.....	.....	.....	.....	overcast.
S. S. Victoria, N. 49° 10′, W. 123° 56′†	29.81	757.2	51	10.6	79	calm	.....	.....	0	.....	2	.....	.....	0	0	sm'h	.....	fair.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. City of New York, S. 24° —′, W. 177° 02′†	29.83	757.7	74	23.3	49	wsw.	.....	.....	5	.....	1	.....	sw.	0	0	mod.	sw.	clear.
S. S. City of Pekin, N. 36° 47′ W. 175° 11′†	30.15	765.8	60	15.6	76	sw.	.....	.....	4	.....	2	.....	sw.	.....	.....	mod.	sw.	clear.
S. S. City of Rio de Janeiro, N. 25° 13′, W. 112° 52′*†	30.18	766.6	61	16.1	82	nw.	.....	.....	4	.....	2	.....	nw.	0	0	mod.	nw.	fine.
S. S. City of Sydney, S. 25° 49′, W. 176° 30′†	29.78	756.4	70	21.1	75	wsw.	.....	.....	6	.....	2	.....	sse.	0	0	h'vy	s.	fair.
S. S. City of Tokio, N. 24° 15′, E. 118° 47′†	29.86	758.4	74	23.3	86	ene.	.....	.....	5	.....	10	.....	ene.	1 h'r	1 h'r	small	ne.	cloudy.
S. S. Clyde, N. 35° 40′, W. 121° 49′†	30.07	763.8	54	12.2	80	wnw.	.....	.....	4	.....	8	.....	wnw.	0	0	long	wnw.	fair.
S. S. Colima, Panama, Panama†	29.91	759.7	82	27.8	67	nw.	.....	.....	2	.....	9	.....	wnw.	0.04	1.0	.....	.....	cloudy.
S. S. Granada, N. 30° 47′ W. 116° 52′.†	30.00	762.0	60	15.6	76	wnw.	.....	.....	4	.....	5?	.....	nw.	0	0	light	wnw.	clear.?
S. S. South Carolina, Corento, C. A.†	29.96	761.0	80	26.7	82	nnw.	.....	.....	2	.....	5	.....	.....	0	0	sm'h	.....	fair.
S. S. Zelandia, Sydney, N. S. W.	29.96	761.0	59	15.0	100	w.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
QUEBEC S. S. COMPANY.																		
S. S. Muriel, Barbadoes, W. I.	29.90	759.4	83	28.3	.....	e.	.....	.....	3	.....	2	.....	.....	0	0	sm'h	.....	fair.
RED STAR LINE.																		
S. S. Belgenland, Flushing, Netherlands†	29.69	754.1	66	18.9	94	ssw.	.....	.....	5	.....	2	.....	sw.	2 h'r	2 h'r	sm'h	e.	fair.
S. S. Rhynland, N 46° 15′, W. 37° 16′	29.87	758.7	51	10.6	78	wnw.	.....	.....	3	.....	10	.....	wnw.	0	0	mod.	wnw.	cloudy.
S. S. Switzerland, N. 46° 49′, W. 28° 05′†	29.60	751.8	.....	.....	.....	wnw.	.....	.....	6	.....	8	.....	wnw.	0	0	hv'y	wnw.	fair.
S. S. Vaderland, N. 50° 38′, E. 0° 13′	29.77	756.1	56	13.3	87	ssw.	.....	.....	4	.....	0	.....	.....	0	0	sm'h	sw.	clear.
S. S. Waesland, N. 43° 06′, W. 37° 51′	29.99	761.7	56	13.3	.....	nw.	.....	.....	5	.....	5	.....	nw.	0	0	mod.	nw.	fair.
ROTTERDAM LINE.																		
S. S. Schiedam, N. 41° 25′ W. 64° 06′*	29.99	761.7	53.4	11.9	.....	ne.	.....	.....	6	.....	0	.....	.....	6 h'r	6 h'r	long	ne.	hazy.
S. S.W. A Scholten, N. 47° 41 W. 31° 11′	29.49	749.0	52.0	11.1	79	nw.	.....	.....	6	.....	6	.....	nw.	0	0	r'gh	n.	hailing.
STATE LINE.																		
S. S. State of Florida, N 48° 33′, W. 29° 56′	29.50	749.3	51	10.6	.....	nw.	.....	.....	7	.....	4	.....	nnw.	8 h'r	8 h'r	r'gh	.....	fair.
S. S. State of Indiana, N. 40° 25′, W. 68° 43′†	29.94	760.5	48	8.9	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	sm'h	.....	clear.
THINGVALLA LINE.																		
S. S. Thingvalla, Copenhagen, Denmark†	30.24	768.1	67.1	19.5	.....	sw.	.....	.....	2	.....	4	.....	sw.	0	0	.....	.....	clear.
WARREN LINE.																		
S. S. Iowa, N. 50° 33′ W. 17° 40′*†	29.25	742.9	49	9.4	.....	sw.	.....	.....	5	.....	4	.....	sw.	2 h'r	2 h'r	mod	wsw.	fair.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 49° 57′ W. 4° 50′	29.73	755.1	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	s.	2 h'r	2 h'r	7	s.	blue sky.
WHITE STAR LINE.																		
S. S. Baltic, N. 43° 34′ W. 47° 35′†	30.12	765.0	50	10.0	86	ese.	.....	.....	3	.....	10	.....	sw.	0	0	sm'h	nw.	cloudy.
S. S. Celtic, N. 41° 43′, W. 60° 02′†	30.01	762.2	59	15.0	87	se.	.....	.....	4	.....	10	.....	sse.	6 h'r	6 h'r	mod.	se.	drizzling.
S. S. Germanic, N. 48° 26′, W. 29° 30′†	29.60	751.8	49	9.4	.....	nw.	.....	.....	6	.....	5	.....	n.	.....	.....	long	n.	d clouds.
S. S. Republic, N. 40° 29′, W. 68° 43′†	30.21	767.3	51	10.6	93	ne.	.....	.....	3	.....	0	.....	.....	4 h'r	4 h'r	sm'h	.....	blue sky.
WILSON LINE.																		
S. S. Otranto, N. 44° 35′, W. 37° 34′†	30.02	762.5	55	12.8	.....	wnw.	.....	.....	5	.....	5?	.....	nw.	.....	.....	mod.	w.	cloudy.?
MISCELLANEOUS.																		
Schr. Abbie Clifford, Orchilla Id., W. I.*†	30.00	762.0	80	26.7	.....	ese.	.....	.....	5	.....	5	.....	.....	0	0	.....	.....	fine.
Schr. Addie Fuller, Newport News, Va†	30.24	768.1	55	12.8	87	ene.	.....	.....	3	1 k	0	e.	.....	0	0	.....	.....	clear.
Bk. Adelaide, N. 10° 50′, W. 51° 40′*†	30.04	763.0	84	28.9	.....	ene.	.....	.....	5	.....	3	.....	ne.	0	0	mod.	ne.	hazy.
Schr. Ajax, N. 26° 54′ W. 96° 09′†	29.94	760.5	.....	.....	.....	se.	.....	.....	2	.....	4	.....	se.	0	0	sm'h	.....	clearing.
Bk. Alpha, Guanatamo, Cuba, W. I†	29.92	760.0	80	26.7	.....	n.	.....	.....	1	.....	3	.....	ne.	2 h'r	2 h'r	.....	.....	fair.
Schr. Annie Lewis, N. 26° 17′. W. 94° 03′†	29.95	760.7	79	26.1	.....	se.	.....	.....	2	.....	2	.....	se.	0	0	sm'h	se.	clearing.
Bk. Anna Thormann, N. 9° 05′, W. 26° 46′	30.06	763.6	81.0	27.2	81	nne.	.....	.....	3	.....	4 k	.....	ene.	6 h'r	6 h'r	mod.	ne;s	fair.
Bk Antioch, S. 36° 40′, E. 150° 30′*†	29.70	754.4	63	17.2	.....	sw.	.....	.....	7	.....	4?	.....	sw.	1 h'r	1 h'r	mod.	e.	cloudy.?
Antonio Lopez, N. 41° 47′. W. 26° 15′*	29.86	758.4	58.5	14.7	87	w.	.....	.....	6	.....	10 s	.....	.....	0	0	mod.	w.	cloudy.
Bk. Aureola. Rio de Janeiro, Brazil*†	30.15	765.8	80	26.7	.....	wnw.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
Sch'r Annie M. Smull, N. 1° 35′ E. 106° 46′*†	29.90	759.4	88	31.1	.....	ese.	.....	.....	.....	.....	.....	.....	.....	1 h'r	1 h'r	.....	.....	
Bk. Bergenseren, N. 44° 18′, W 17° 01′†	29.59	751.6	.....	.....	.....	wsw.	.....	.....	6	.....	.....	.....	wsw.	rain	rain	6	sw.	squally.
S. S. Compton, Philadelphia, Pa.†	30.02	762.5	.....	.....	.....	wsw.	.....	.....	2	.....	10	.....	n.	0	0	.....	.....	cloudy.
Schr. Edith R. Seward, N. 33° 38′, W. 75° 45′*†.	30.28	769.1	77	25.0	.....	ne.	.....	.....	2	.....	3	.....	ne.	0	0	rg'h	nne.	clear.
Bk. E. J. Spicer, London, Eng†	29.92	760.0	.....	.....	.....	wsw.	.....	.....	6	.....	5	.....	wsw.	sh'rs	sh'rs	.....	.....	
S. S. Essex, N. 35° 34′ W. 50° 49′*†	30.18	766.6	71	21.7	.....	w.	.....	.....	1	.....	1	.....	ne.	0	0	h'vy	ne.	clear.
S. Exporter, S. 42° 20′, E. 26° 10′*†	30.40	772.1	.....	.....	.....	wnw.	.....	.....	7	.....	10	.....	w.	0	0	long	w.	cloudy.
Bk. Freya, Dublin, Ireland	.....	.....	56	13.3	.....	ese.	.....	.....	4	.....	2	.....	se.	0	0	.....	.....	fair.
Bk. Godfrey, N. 39° 45′, W. 51° 33′	30.13	765.3	57.6	14.2	78	nnw.	.....	.....	2	.....	6	.....	nw.	0	0	mod.	wnw.	fair.
S. Grecian, S. 1° 20′, E. 107° 24′*†	29.85	758.2	82	27.8	.....	w.	.....	.....	1	.....	0	.....	.....	4 h'r	4 h'r	sm'h	nw.	clear.
Bk. Hattie G. McFarland, N. 44° 00′, W. 63° 03′*†	30.10	764.5	40	4.4	.....	nne.	.....	.....	1	.....	7	.....	ne.	0	0	.....	.....	cloudy.
Schr. Henry Denison, N. 36° 22′, W. 75° 44′†	30.16	766.1	.....	.....	.....	var.	.....	.....	2–6	.....	6	.....	ne.	4 h'r	4 h'r	r'gh	ne.	cloudy.
S. Ismir, N. 2° 30′, W. 32° 30′	29.97	761.2	.....	.....	.....	sse.	.....	.....	3	.....	5	.....	sse	.....	.....	r'gh	s.	fine.
James Slater, N. 33° 59′, W. 60° 12′*†	30.40	772.1	75	23.9	.....	ssw.	.....	.....	4	.....	8	.....	s.	0	0	mod.	n.	
Bk. Johanne, Off Beachy Head, Eng.*	29.90	759.4	59	15.0	.....	sse.	.....	.....	5	.....	2	.....	sse.	0	0	mod.	s.	fair.
Schr. John L. Thomas, Albuquerque Cays, C. A*†	29.98	761.5	.....	.....	.....	ese.	.....	.....	1	.....	6	.....	ese.	0	0	.....	.....	threatening
Bkt. Josephine, Guanatamo, Cuba, W. I*†	30.09	764.3	83	28.3	83	n.	.....	.....	2	.....	8	.....	s.	1 h'r	1 h'r	.....	.....	cloudy.
Bk. Julia H., Havana, Cuba, W. I.	29.91	759.7	74.4	23.6	95	se.	.....	.....	1	.....	2 s	.....	.....	.....	.....	.....	.....	d. clouds.
Bk. Kate Cann, N. 38° 45′. W. 74° 04′*†	30.02	762.5	.....	.....	.....	se.	.....	.....	1	.....	1	.....	sw.	0	0	long	e.	clear.
Bkt. Kryolith, N. 60° 00′, W. 48° 54′*†	30.08	764.0	.....	.....	.....	s.	.....	.....	1	.....	0	.....	.....	0	0	sm'h	.....	
S S Laurel, Pensacola Bay, Fla.†	30.02	762.5	75	23.9	.....	e.	.....	.....	2	.....	8	.....	.....	0	0	.....	.....	foggy.
Maggie Abbott, N. 31° 34′, W. 71° 18′*†	30.00	762.0	.....	.....	.....	ese.	.....	.....	3	.....	10	.....	sw.	0	0	mod.	s.	overcast
S. S. Malabar, N. 8° 28′, E. 108° 20′*†	29.75	755.6	.....	.....	.....	sw.	.....	.....	1	.....	0	.....	.....	.....	.....	mod.	.....	clear.
S. Minnie N. Gerow, N 42° 44′, W. 27° 19′*†	29.70	754.4	.....	.....	.....	w.	.....	.....	4	.....	10	.....	w.	.....	.....	long	w.	threatening.
S. Paramita, S. 24° 44′ W. 37° 55′†	29.98	761.5	82	27.8	.....	nne.	.....	.....	2	.....	1	.....	ne.	0	0	h'vy	se.	clear.
Bk. Pawashick, N. 38° 29′, W. 46° 37′*†	30.40	772.1	64	17.8	83	wsw.	.....	.....	3	.....	2	.....	ssw.	.....	.....	mod.	var.	fine.
Bk. Peppina, Bordeaux, France†	29.99	761.7	74	23.3	59	s.	.....	.....	2	.....	2	.....	sw.	.....	.....	.....	.....	fair.
S. S. Ponca, N. 4° 35′, W. 49° 36′†	29.95	760.7	85	29.4	.....	ene.	.....	.....	2	.....	2	.....	ese.	1 h'r	1 h'r	mod.	ese.	clear.
Bk. Princessen, N. 46° 47′, W. 18° 54′†	29.46	748.3	53	11.7	.....	wsw.	.....	.....	6	.....	8	.....	w.	2 h'r	2 h'r	r'gh	w.	squally.
Bk. Rosebud, N. 13° 35′ W. 25° 12′*†	30.05	763.3	82	27.8	63	ene.	.....	.....	4	.....	0	.....	.....	0	0	sm'h	.....	fine.
S. Salisbury, S. 41° 09′, E. 43° 08′*	30.10	764.6	44.6	7.0	88	s.	.....	.....	4–5	.....	6	.....	wsw.	0	0	long	ssw.	fair.
Bkt. Spotless, S. 9° 44′ W. 34° 14′	.....	.....	.....	.....	.....	se.	.....	.....	.....	.....	.....	.....	se.	.....	.....	hv'y	e.	fine.
Bk. Stella, N. 8° 50′, W. 119° 22′*	29.85	758.2	80.6	27.0	95	sw.	.....	.....	1	.....	7 n	.....	var.	rain	rain	sm'h	ne.	showery.
Bk. Truro, N. 49° 26′, W. 6° 00′*†	29.72	754.9	.....	.....	.....	ssw.	.....	.....	5	.....	1	.....	ssw.	1 h'r	1 h'r	sm'h	.....	hazy.
U.S. F. C. S. Fish Hawk, Havre de Grace, Md†	30.34	770.6	61	16.1	82	n.	.....	.....	1	.....	5?	.....	se.	0.21	5.3	.....	.....	cloudy.?
Yacht Vega, Montserrat Id., W. I.*†	30.20	767.1	79	26.1	.....	ene.	.....	.....	1	.....	.....	.....	ene.	0	0	long	ene.	
Schr. Viola Reppard. Brunswick, Ga†	29.88	758.9	80	26.7	.....	e.	.....	.....	1	.....	1	.....	sw.	0	0	.....	.....	fair.
Bk. Wm. Wilcox, N. 25° 15′, W. 37° 25′*†	30.24	768.1	74	23.3	.....	nw.	.....	.....	3	.....	0	.....	.....	0	0	mod.	n.	clear.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 27, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.09	764.2	75.9	24.4	72	sw.			3		2			0	0	fair	Moiroud.
Algiers			30.10	764.6	74.8	23.8	59	nw.			1		0			0	0	clear	Nicolas.
La Calle			30.11	764.8	83.1	28.4	66	n.			1		1			0	0	very fair	Fonfrède.
Tunis			30.14	765.5															Jacques.
Saida			30.18	766.6															Dumas.
Tebessa			30.18	766.5	79.5	26.4	26	sw.			5		0			0	0	clear	Derché.
Geriville					91.4	33.0	11	se.			1		2			0	0	very fair	Lonchamp.
Laghouat			30.17	766.2	84.2	29.0	34	e.			1		0			0	0	clear	Abraham.
Biskra			30.19	766.8	98.6	37.0	8	se.			5		3			0	0	pretty fair	Malau.
Australian.																			
Melbourne, Victoria	29.85	758.2	29.94	760.5	55.3	12.9	77	n.	9	4.0			10			0	0	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.61	752.0	30.13	765.4	79.5	26.4	43	sw.			2		5			0	0		Prof. Ivan Stozir.
Cracow, I. R. Observatory	29.35	745.4	30.09	764.2	75.2	24.0	46	w.	4.3	1.9			3			0.283	7.2		Dr. Wierzbiski.
Eperies	29.22	742.2	30.07	763.7	73.9	23.3	62	calm			0	0	5 ks		s.	0	0		Julius Mikolik.
Gratz	28.94	735.1	30.15	765.7	75.2	24.0	60	s.			2		6			0	0	thunder	Andreas Rospini.
Hermannstadt	28.67	728.1	30.03	762.8	76.1	24.5	43	n.			2		6			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.86	733.0	30.16	766.0	71.6	22.0	48	calm			0	7 ck	0			0	0	fair	The Staff.
Lemberg	29.11	739.3	30.06	763.4	72.9	22.7	58	se.			2		7			0	0		Dr. T. Stanecki.
Pola	30.10	764.5	30.21	767.3	76.1	24.5	66	se.			1		6			0	0		I. R. Hydrographic Office.
Szathmar	29.61	752.0	30.06	763.6	78.8	26.0	73	n.			2		3			0	0	thunder	Joseph Midlinszky, S. J.
Szegedin					73.9	23.3	56	calm			0					0.035	0.9		Karl Stancel.
Trieste	30.12	765.1	30.22	767.7	71.2	21.8	67	calm			0		1			0	0		Rieder.
Vienna	29.47	748.6	30.16	766.1	77.4	25.2	45	w.			1		1			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.60	751.8	29.69	754.1	58.5	14.7	64	sse.	33	14.8			3			0	0	squally	W. Boswell
Armagh, Observatory	29.39	746.5	29.64	752.8	53.4	11.9	76	sw.	21	9.4			9					raining	S. Oall.
Bidston, Liverpool Obs'y			29.82	757.4	61.9	16.6	75	s.	21	9.4			7					d. clouds	John Hartnup.
Bolton, Sharples	29.26	743.2	29.79	756.7	58.4	14.7	79	s.	18	8.0			9					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.45	748.0	29.85	758.2	60.0	15.6	68	sw.			1		5			0.01	0.3	d. clouds	J. McLandsborough, F. R. A. S.
Bridgetown, Barbadoes	30.00	762.0	30.03	762.7	83.0	28.3	72	ne.			2		6					gloomy	Corpl. J. Surgenor, A. H. C.
Cardington			29.98	761.5	68.6	20.3	58	s.			2.0		8					overcast	John McLaren.
Chatham, School M. E.	29.95	760.7	30.08	764.0	66.4	19.1	59	s.			2		6					d. clouds	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.73	755.1	29.95	760.7	58.8	14.9	81	ssw.			6		10					foggy	The Staff.
Fort Napier, Natal	27.60	701.0	29.82	757.4	63.4	17.4	33	w.			3		1					blue sky	Pvt. E. K. Annis, A. H. C.
Free Town, Sierra Leone	29.66	753.4	29.89	759.2	89.0	31.7	63	nw.			1		3					blue sky	Sergt. John Robinson.
Gibraltar, Mediterranean	30.05	763.3	30.10	764.5	75.5	24.2	76	se.			1		0					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.50	749.3	29.70	754.4	60.7	15.9	54	ssw.			6	5 c	0					squally	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.88	758.9	30.04	763.0	66.2	19.0	59	ssw.			5		3					d clouds	The Staff.
Guernsey	29.80	756.9	30.10	764.5	62.0	16.7	77	ssw.			2		9					drizzling	A. Collenette, F. M. S.
Kew, Observatory	30.02	762.5	30.05	763.3	64.6	18.1	60	sw.	25	11.2			7					d clouds	The Staff.
Leicester, Museum	29.66	753.4	29.91	759.7	64.0	17.8	66	sw.			3		8					d. clouds	J. C. Smith.
Malta, Mediterranean	30.12	765.0	30.19	766.8	80.0	26.7	42	se.			2		0					blue sky	I. H. Whysall.
Nassau, Bahamas	29.93	760.2	29.98	761.5	79.0	26.1	82	sw.			1		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.40	746.7	29.91	759.7	61.8	16.6	77	s.			6		6					d clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.77	756.1	29.99	761.7	61.8	16.6	66	s.			7		10					drizzling	The Staff.
Plymouth	29.90	759.4	29.97	761.2	58.5	14.7	87	sw.			4		10					overcast	John Merrifield.
Sandwick Manse, Orkneys			29.62	752.3	56.9	13.8	77	ese.	30	13.4			0					blue sky	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	30.02	762.5	30.08	764.0	76.8	24.9	58	ne.			2		1					blue sky	W. H. Lyne.
Sheffield	29.65	753.1	29.92	760.0	63.8	17.7	75	sw.			3		6			0.10	2.5	d. clouds	W. F. Cooper.
Silloth Rectory	29.75	755.6	29.78	756.4	61.3	16.3	61	wsw.			5		3			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.86	758.4	60.7	15.9	73	w.	17	7.6			5					d. clouds	J. New.
Stratfield Turgiss	29.82	757.4	30.04	763.0	61.5	16.4	76	sw.			3-5		9					squally	Rev. C. H. Griffiths, F. M. S.
Truro, Royal Institution	29.94	760.5	29.95	760.7	63	17.2	71	sw.			7		8					gloomy	W. Newcombe.
Valencia, Observatory	29.61	752.1	29.64	752.8	56.4	13.6	74	ssw.	40	17.9			7					squally	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.99	761.7	30.03	762.7	48	8.9	78	s.	15	6.7		0	2 s			0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	29.93	760.2	29.79	761.7	48	8.9	77	s.	9	4.0			10 n		s.	0	0	cloudy	G. A. Blair.
Father Point, Quebec*	29.90	759.4	29.92	760.0	46	7.8	89	w.	12	5.4		1 k	1 s	w.	w.	0.07	1.8	clear	J. McWilliams.
Fort Garry, Manitoba*																			
Halifax, N. S*	30.00	762.0	30.13	765.3	53	11.7	66	sw.	8	3.6		5 c	0			0	0	fair	A. Allison.
Kingston, Ontario*	29.61	752.1	29.94	760.5	50	10.0	83	w.	5	2.2			10 ks		w.	0	0	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29 71	754.6	29.92	760.0	55	12.8	72	s.	3	1.3		2 c	2 ks			inap.	inap.	fair	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.24	742.7	29.94	760.5	46	7.8	76	s.				2 cs	0	calm		0.16	4.1	fair	Rev. R. Mosley.
Port Dover, Ontario	29.27	743.4	29.95	760.7	53	11.7	93	ne.	6	2.7			10 n		w.	0.15	3.8	light rain	H. Morgan.
Port Stanley, Ontario	29.29	744.0	29.93	760.2	52	11.1	93	ne.	6	2.7			10 n		w.	0.29	7.4	light rain	M. Payne.
Quebec, Quebec*	29.64	752.8	29.96	761.0	49	9.4	89	w.			1	0	2 s		w.	0.09	2.3	hazy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.47	748.5	29.94	760.5	43	6.1	83	nw.	3	1.3		5 c	0	w.		0.50	12.7	fair	W. H. McIntyre.
Saugeen, Ontario*	29.22	742.2	29.93	760.2	49	9.4	93	n.	2	0.9			10 s			0	0	cloudy	
St. Andrews, N. B.	29.96	761.0	30.01	762.2	47	8.3	84	w.	1	0.4		2 c	hz.	nw.		0	0	clear	
Sydney, C. B*	30.01	762.2	30.07	763.8	52	11.1	74	w.	1	0.4		2 c	0	w.		0	0	clear	T. C. Hill, C. E
Toronto, Ontario*	29.59	751.6	29.97	761.2	54	12.2	64	n.	4	1.8			10 n			0	0	cloudy	Magnetic Observatory.
Yarmouth, N. S*	30.04	763.0	30.11	764.8	46	7.8	86	sw.	6	2.7		8 k	hz.	w.		0	0	hazy	Lt. F. E. Wilmot, R. N
Sub-series.																			
St. Johns, Newfoundland	29.98	761.5	30.23	767.8	48	8.9	85	w.	2	0.9		0	0			0	0		John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.32	770.1	30.35	770.9	62.0	16.7	58	s.	16.0	7.2		0	4 k			0.160	4.1	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	30.20	767.1	30.24	768.1	67.9	19.9	60	sse.	21	9.4		0	0			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Chinese (*Sub-series*).																			
Hankow	29.83	757.7	30.11	764.8	70.3	21.3	75	e.			2		0			0	0		N. Titoushkin.
Zi-Ka-Wei, near Shanghai.	29.89	759.2	29.92	759.9	66.2	19.0	83	e.	2.2	1.0		9 cs	fg	w.		0	0	covered	M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	30.12	765.0	30.17	766.2	64.2	17.9	64	sse.	20	9			1						Oversergent Fischer.
Fanöe	30.12	765.0	30.14	765.5	63.7	17.6	78	wsw.			2		7						Overloerer Lauridsen.
Godthaab, Greenland	30.06	763.5	30.10	764.6	35.4	1.9	91	calm			0		10			0	0	foggy	S. Kleinschmidt.
Stykkisholm, Iceland	29.71	754.7	29.76	755.8	40.5	4.7	89	se.			2		5						A. O. Thorlacius.
Thorshavn	29.62	752.3	29.65	753.2	49.3	9.6	91	se.	11	5			10					foggy	Overloerer Bergh.
Vestervig	30.04	762.9	30.13	765.2	63.1	17.3	68	sw.			6		2						Loearer Oesterbol.
French.																			
Agen, Normal School	29.54	750.2	30.17	766.4	71.2	21.8	66	se.			1	c; ck	0			0.35	9.		M. Labroue, Director.
Alençon, Normal School	29.66	753.4	30.21	767.4	62.6	17	70	s.			1		k		se.	0	0		M. Nicot, Director.
Arras, Engineer School	29.88	759.0	30.13	765.4	69.3	20.7	48	sw.			6		10		w.	0	0	covered	M. Fénéon, Command't.
Avignon, Normal School	30.12	765.0	30.20	767.0	77.7	25.4	54	nw.			1					0	0		M. Giraud, Director.
Bar-sur-Seine	29.66	753.4	30.20	767.1	72.1	22.3	42	se.			1		7			0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.94	760.4	30.20	767.0	68.9	20.5	55	s.			1		8		ssw.	0.024	0.6	very cloudy	M. Frère Eugène Marl.
Besançon, Normal School	29.30	744.3	30.19	766.9	66.9	19.4	79	e.			1		10 n		se.	0.201	5.1	raining	M. Gobin, Director.
Bordeaux, Observatory	29.90	759.4	30.15	765.9	72.5	22.5	55	sw.			1		8		sw.	0.598	15.2	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.65	753.1	30.19	766.9	68.9	20.5	32	nw.			1		n		nw.	0.083	2.1		M. Postel, Director.
Brest, Naval Observatory	29.84	757.8	30.08	764.0	63.0	17.2	75	sw.			4		6		sw.	0.031	0.8		M. de Kermaree, Dir.
Caen, Normal School	30.10	764.4	30.13	765.2	69.4	20.8	45	sw.			2		5		sw.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.87	758.8	30.19	766.8	74.3	23.5	23	calm			0		2			0.138	3.5	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School.	29.68	753.8	30.17	766.3	73.8	23.2	48	ssw.			1		2			0	0	¼ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.84	732.4	30.15	765.7	73.4	23.0	64	ne.			1		5		sw.	0	0	½ covered	M. Allnard, Director.
Cluny, Normal School	29.35	745.6	30.19	766.9	69.8	21	69	e.			2		4		se.	0.16	4.		M. de Villemontée, Dir.
Commercy, Normal School.	29.37	745.9	30.22	767.7	71.4	21.9	52	se.			1		5 k	se.	se.	0.31	8.	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.69	703.2	30.13	765.4	75.2	24	36					1 c	0	se.		0	0		M. Jeangirard, Director.
Grénsque, du Rhone	29.10	739.2	30.19	766.8	76.3	24.6	33	sw.			1		5		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.41	747.0	30.15	765.8	73.4	23	60	nne.			1	0	2 k			0	0	slightly cl'dy	M. Ablard, Director.
Guéret, Normal School	28.61	726.6	30.15	765.7	65.7	18.7	49	se.			1		8		nw.	0.331	8.4	very cloudy.	M. Rivoire, Director.
Lamballe, Normal School.	29.83	757.6	30.10	764.6	64.4	18	53	s.			4		5		s.			light rain	M. Olitrault, Director.
Lescar, Normal School	29.58	751.4	30.13	765.3	75.9	24.4	38	s.			3		10			0	0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.89	759.2	29.99	761.8	64.4	18.0	74	ssw.			3		2		sw.	0	0	¼ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.13	739.8	30.15	765.9	73.6	23.1	54	s.			2	1 ck	0	wsw.		0.181	4.6	clear	M. André, Director.
Mans, Normal School	29.87	758.7	30.17	766.4	68.0	20	61	w.			1		5		se.	0.114	2.9	cloudy	M. Piboen, Director.
Marseille, Observatory	29.93	760.2	30.20	767.0	69.3	20.7	52	w.			2		8		wsw.	0	0		M. Stephan, Director.
Montlouis	25.02	635.6	29.87	758.6	57.2	14.0	76	s	7.4	3.3			7			0	0		M. Cuve, for Dr. Fines.
Montpellier, Normal School	30.08	764.0	30.21	767.2	69.4	20.8	78	se.			3		5		sw.	0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	29.47	748.4	30.23	767.9	68.0	20.0	49	nw.			1	ck	10			0.374	9.5		M. Hasse, Director
Nantes, Observatory	29.99	761.8	30.15	765.9	70.9	21.6	48	wnw.			0–1	0	9 kn		sse.	0	0		M. Larocque, Director.
Perpignan, Observatory	30.10	764.5	30.21	767.2	70.5	21.4	67	se.	7.4	3.3			10		wnw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.42	544.1			39.2	4.0		sw.			2		1		sw.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.15	740.4	30.18	766.5	74.1	23.4	55	s.			1		2	n.	ne.	0	0	slightly cl'dy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.35	643.9			51.3	10.7	82	sw.			3		5 k		wsw.	0.260	6.6	½ covered	M. Allnard, Director.
Rochefort, Naval Obs'y	30.12	765.1	30.15	765.9	73.4	23.0	100	ssw.			1		10		s.	0.051	1.3	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.92	759.9	30.13	765.2	70.9	21.6	58	s.			1		5	ne.	se.	0.626	15.9	cloudy	M. Mouillot, Director.
Rodez, Normal School	28.66	712.7	30.15	765.7	70.5	21.4	54						2		sw.	0	0	slightly cld'y	M. Serger, Director.
Rouen, Normal School	30.11	764.7	30.15	765.9	70.9	21.6	51	s.			1		5		n.	0.138	3.5	cloudy	M. Brotier.
Saint Maur, Observatory	30.03	762.7	30.19	766.9	71.6	22.0	45	w.			1		4	sw.		0	0		M. Renou, Director.
Toulouse, Observatory	29.49	749.0	30.22	767.5	78.3	25.7	52	ese.			1		2	sw.		0	0	slightly cl'dy	M. Baillaud, Director.
Tours	30.00	762.0	30.18	766.5	66.6	19.2	68	s.			1		1 k	ssw.	ssw.	0.366	9.3	clear	
Versailles, Observatory	29.71	754.5	30.20	767.0	70.9	21.6	43	sw.			2					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.91	759.7	30.20	767.1	71.1	21.7	43	ssw.			1		8		ssw.	0	0		M. Marié Davy, Director
German.																			
Bamberg	29.37	746.1	30.23	767.9	72.0	22.2	50	nw.			3	0	3 k		nw.	0.118	3.0		Prof. Dr. Hoh.
Berlin	29.98	761.6	30.15	765.9	71.2	21.8	50	sw.			1		7			0.071	1.8		Prof. Dr. Arndt.
Breslau	29.66	753.4	30.20	767.0	68.2	20.1	63	nnw.			2		4			0.173	4.4		Royal University Obs'y.
Carlsruhe	29.78	756.5	30.22	767.5	69.8	21.0	50	wsw.			1		9	sw.		0	0		Albert Senz.
Cassel	29.43	747.6	30.15	765.7	75.9	24.4	49	s.			2		6	sw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.84	758.0	30.20	767.1	69.1	20.6	53	nw.			1		5			0.110	2.8		Physical Society.
Friedrichshafen	28.76	730.6	30.16	766.1	68.7	20.4	67	sw.			4		8	sw.		0	0		Wilhelm, Chief Tel.
Hamburg	30.06	763.5	30.15	765.9	71.1	21.7	54	wsw.			4		6			0	0		E. Preller.
Kiel	30.11	764.9	30.13	765.3	66.4	19.1	65	s.			2		9			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.76	756.0	30.17	766.3	70.7	21.5	54	wsw.			2		9	sw.		0.157	4.0		H. Leppig, Asst.
Magdeburg	29.97	761.2	30.15	765.9	71.4	21.9	56	nnw.			1	0	5 ks		wsw.	0.039	1.0		Dr. Assmann.
Memel	30.17	766.3	30.22	767.5	62.8	17.1	70	wsw.			1	7 cs	0						Issermann.
Munich	28.40	721.4	30.28	769.1	70.3	21.3	43	calm			0		2	sw.		0.008	0.2		Central Station.
Neufahrwasser	30.20	767.0	30.21	767.4	59.4	15.2	81	calm			0		10					light rain	A. Lothes.
Neustadt, Palatinate	29.63	752.7	30.16	766.1	71.6	22.0	59	se.			2		6	ssw.		0	0		Dicknether.
Stuttgart	29.27	743.4	30.14	765.6	68.9	20.5	68	n.			1		7	w.		0	0		Prof. Dr. Schoder.
Wustrow	30.14	765.6	30.17	766.2	66.2	19.0	60	ene.			1		10 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.74	755.5			79.3	26.3		sw.			2.0		2 k			0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.67	753.7	29.72	755.0	86.8	30.4	80	wsw.	34.0	15.2			2			0	0	misty	
Deesa	29.17	740.8	29.62	752.2	103.4	39.7	29	wsw.	14.1	6.3			0			0	0	blue sky	
Bombay	29.73	755.1	29.77	756.0	87.2	30.7	71	wnw.	12.0	5.4			4	w.	sw.	0	0	d. clouds	
Poona, Yarrowda	27.88	708.1	29.68	753.9	90.8	32.7	40	w.	25.0	11.2			9		wnw.	0	0	d. clouds	
Bellary	28.22	716.9	29.65	753.1	93.0	33.9	40	s.	8.4	3.8			5			0	0	d. clouds	
Belgaum	27.20	690.9	29.71	754.6	80.4	26.9	68	wsw.	8.0	3.6			4	ne.	w.	0	0	misty	
Lahore	28.75	730.3	29.44	747.8	112.1	44.5	9	nne.	1.4	0.6			0			0	0	blue sky	
Roorkee	28.63	727.2	29.48	748.8	102.7	39.3	26	s.	3.4	1.5			0			0	0		
Agra	28.97	735.8	29.50	749.2	107.1	41.7	20	n.	6.2	2.8			0			0	0		
Nagpur	28.56	725.4	29.55	750.6	102.7	39.3	19	wsw.	5.0	2.2			8		sw.	0	0	d. clouds	
Jubbulpore	28.30	718.8	29.61	752.0	95.7	35.4	28	calm	2.7	1.2			9		e.	0	0	overcast	
Lucknow	29.18	741.1	29.54	750.2	102.9	39.4	39	e.	4.2	1.9			1			0	0	d. clouds	
Allahabad	29.22	742.3	29.52	749.8	103.1	39.5	30	nne.	4.4	2.0			0			0	0	misty	
Patna	29.43	747.4	29.61	752.0	93.7	34.3	76	ene.	11.8	5.3			4	ene.	ene.	0	0	d. clouds	
Hazaribagh	27.61	701.3	29.54	750.2	97.6	36.4	24	w.	13.2	5.9			10	w.	e.	0	0		
Cuttack	29.58	751.3	29.66	753.4	90.6	32.6	60	s.	5.3	2.4			0			0.25	6.4	blue sky	
Calcutta, Alipore	29.65	753.2	29.67	753.7	87.8	31.0	62	ssw.	14.0	6.3			0			0.41	10.4	blue sky	
Dhubri	29.56	750.7	29.67	753.7	85.3	29.6	76	calm	3.6	1.6			7	wnw.		2.09	53.1	d. clouds	
Chittagong	29.67	753.6	29.76	755.9	84.7	29.3	82	s.	4.9	2.2			2			0	0	blue sky	
Sibsagar	29.38	740.1	29.71	754.6	83.3	28.5	78	ssw.	3.6	1.6			10	w.	W.	0.10	2.5	d. clouds	
Jeypore	28.15	715.0	29.51	749.6	106.9	41.6	20	nw.	9.2	4.1			2		nw.	0	0	misty	
Zanzibar, Africa	29.88	758.9			85.1	29.5	58	sse.	4.3	1.9			5		s.	0	0	d. clouds	
Italian.																			
Udine	29.82	757.4	30.22	767.5	75.0	23.9	70	w.	1.3	0.6			8			0	0		Prof. Giovanni Clodig.
Milan	29.70	754.4	30.20	767.1	74.8	23.8	47	sw.	4.3	1.9			6	w.		0	0		Prof. Schiaparelli.
Padua	30.10	764.5	30.21	767.2	75.6	24.2	50	nne.	3.1	1.4			5			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.31	744.4	30.19	766.7	72.3	22.4	55	sw.	2.5	1.1			8			0	0		Prof. P. F. Denza.
Genoa	30.04	763.1	30.23	767.9	68.9	20.5	54	sw.	3.8	1.7			2	sw.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.32	719.3	30.25	768.4	71.4	21.9	54	nw.			4		9			0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	30.21	767.2	30.25	768.4	69.3	20.7	67	ne.	8.7	3.9			3			0	0		Prof. Luigi Guidi.
Florence	29.95	760.8	30.20	767.1	78.4	25.8	36	n.			2		1			0	0		Prof. Costantino Pitter.
Leghorn	30.08	764.0	30.16	766.1	72.1	22.3	48	w.	2.5	1.1			5			0	0		Prof. P. Monte.
Rome	30.04	762.9	30.21	767.2	81.7	27.6	42	wsw.	10.5	4.7			3			0	0		Prof. P. S. Ferrari.
Lecce	29.92	760.0	30.17	766.4	78.8	26.0	31	ne.	10.5	4.7			0			0	0		Prof. C. de Giorgi.
Cosenza	29.30	744.3	30.17	766.2	83.1	28.4	79	ne.	1.8	0.8			0			0	0		Prof. D. Conti.
Cagliari	29.93	760.1	30.11	764.9	73.8	23.2	66	s.			6		0			0	0		Prof. A. Pacinotti.
Palermo	29.98	761.6	30.23	767.8	74.5	23.6	62	ne.	5.6	2.5			0			0	0		Prof. G. Ciacciatore.
Syracuse	30.08	764.1	30.13	765.2	79.5	26.4	56	s.	12.5	5.6			10	ssw.		0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.67	753.7	30.19	766.7	78.1	25.6	61	sw.	2.5	1.1			5	n.		0	0		Prof. T. Brioschi.
Stelvio	22.45	570.2			46.2	7.9	47	sw.			1		1			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.47	570.8			50.0	10.0	60	e.			2		7			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.81	757.2	29.84	757.9	48.0	8.9	92	s.	2.6	1.2		0	9 ks			0.088	2.2	overcast	K. Ogawa.
Hakodate	29.83	757.7	29.84	757.9	47.2	8.4	98	sse.	2.4	1.1			10			0.385	9.8	covered	
Hiroshima, I. M. Obs'y	29.73	755.1	29.75	755.6	63.6	17.6	70	ne.	8.6	3.8		1 cs	0			0	0	clear	J. Sogawa.
Kanazawa	29.73	755.1	29.84	757.9	57.0	13.9	62	e.	11.1	5.0		ck	10 ks			inap.	inap.	overcast	S. Endo.
Kioto	29.59	751.6	29.76	755.9	57.0	13.9	86	nw.	0.7	0.3		2ck;cs	0			0	0	clear	M. Tojima.
Kochi	29.72	754.9	29.74	755.4	65.1	18.4	83	nw.	3.7	1.6		6 c;cs	0	w.		0	0	fair	K. Kusunose.
Nagasaki, I. M. Obs'y	29.57	751.1	29.77	756.1	61.6	16.4	76	n.	3.9	1.7		2 c	0			0	0	clear	S. Takehayashi.
Niigata	29.82	757.4	29.85	758.2	55.6	13.1	83	n.	6.3	2.8		5ck;cs	1 s	wsw.		0.005	0.1	cloudy	M. Morita.
Nobiru	29.76	755.9	29.78	756.4	56.0	13.3	77	nnw.	8.4	3.8		cs	9 s			0	0	cloudy	H. Midzushina.
Sapporo					46.7	8.2	94	e.	3.0	1.3			10			0.512	13.0	raining	
Tokei Obs'y, Yeddo	29.63	752.6	29.69	754.1	66.3	19.1	91	s.	2.5	1.1		2 c;cs	8 ks;s			inap.	inap.	overcast	The Staff.
Wakayama	29.71	754.6	29.77	756.1	61.6	16.4	71	nne.	9.5	4.2		9 ck	0	w.		0	0	cloudy	Y. Kuwamuea.
MAURITIUS																			
Mauritius Observatory	29.80	756.9	29.99	761.7	74.2	23.4	64	ese.	12.0	5.4		0	6 k;ks		e.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.69	600.6	29.87	758.6	59.4	15.2	97	calm	0	0		2 cs	1 k	wnw.	wnw.	0	0	light fog	Prof. Vicente Fernandez.
Leon	24.25	615.9	29.86	758.4	62.2	10.8	86	nne.			1	3 c	2 k	sw.		inap.	inap.	light fog	Prof. M. Leal.
Mazatlan	29.60	751.9	29.86	758.4	70.5	21.4	95	ese.				2 cs	0	sw.				light haze	F. Quijano, C. E.
Mexico, Central Obs'y	23.04	585.2	30.01	762.3	58.1	14.5	83	calm	0	0		8 c	2 k			0.035	0.9	covered	The Staff.
Morelia	24.03	610.3	30.03	762.8	62.6	17.0	60	se.			3	1	3	s.	s.	0	0	½ clouded	M. Tena, M. D.
Pabellon, Aguascalientes	23.86	605.9	29.80	757.0	59.7	15.4	66	ssw.			1					0	0		M. V. de Leon, M. E.
Puebla, Catholic Institute	23.36	593.4	29.94?	760.4?	62.5	17.0	90	calm	0	0			10		s.	0.004	0.1	cloudy	Prof. P. Spina.
San Luis Potosi	24.15	613.3	30.01	762.3	68.4	20.2	65	sw.			1	6	0	w.		0	0	½ clouded	G. Barroeta, M. D.
Zacatecas	22.54	572.5	30.06	763.6	55.4	13.0	44	wsw.	7.8	3.4		6 cs	0			0	0	½ clouded	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.17	766.2	30.17	766.2	69.3	20.7		w.			4					0.008	0.2		
Groningen	30.06	763.5	30.11	764.9	68.7	20.4		wsw.			2					0.012	0.3		
Helder	30.13	765.3	30.13	765.3	61.3	16.3		ssw.			4					0	0		
Hellevoetsluis	30.16	766.1	30.16	766.1	68.0	20.0	63	wsw.			2					0	0		
Utrecht	30.12	765.1	30.17	766.3	70.7	21.5	52	ssw.			2		2			0.004	0.1	lightly cl'dy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.88	758.9	29.94	760.5	49.8	9.9	81	s.	25	11			10			0.488	12.4		
Brono	29.76	756.0	29.80	757.0	48.7	9.3	96	sw.	18	8			10			0.591	15.0		
Christiania	29.93	760.1	30.07	763.8	61.0	16.1	70	ssw.	13	6			3			0	0		
Gjæsvær	29.94	760.4	29.96	761.0	42.8	6.0		ne.			2		5						
Lodingen	29.74	755.5	29.79	756.7	57.0	13.9	51	nne.			2		5			0	0		
PORTUGUESE.																			
Angra, Azores					62.8	17.1	67	wnw.	12.5	5.6			2			0	0		Dr. J. A. Sampaio.
Campo Major	29.13	739.8	30.10	764.6	72.7	22.6	55	ssw.	3.1	1.4			6			0.079	2.0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.03	762.8	30.12	765.0	68.5	20.3	81	sw.	9.4	4.2			7			0.476	12.1		Capt. D. A. de Gunha.
Lisbon, Observatory	29.82	757.5	30.18	766.5	65.8	18.8	56	calm	1.8	0.8			7	sw.		0	0		The Staff.
Ponta Delgada, Azores	30.06	763.5	30.13	765.3	64.4	18.0	65	wnw.	10.5	4.7			4			0.020	0.5		
Saint Paul de Loando	29.70	754.4	29.90	759.5	74.8	23.8	91	nnw.	0.7	0.3			9			0	0	foggy	
Serra da Estrella	25.40	645.1	30.11	764.7	52.7	11.5	77	se.	8.1	3.6			8			0.236	5.0		
RUSSIAN.																			
Akmolinski	28.93	734.7	29.96	761.0	71.1	21.7	51	nnw.	4	2		0	0			0	0		Major K. Lasarew.
Archangel	29.99	761.7	30.01	762.2	59.5	15.3	50	ese.	9	4		0	6 ks			0	0		Capt. Sseliwerstow.
Astrakhan	30.10	764.4	30.01	762.3	73.2	22.9	60	sse.	2	1		0	8 k;s			0	0	light clouds	Capt. Wisganow.
Barnaul	29.41	746.9	29.89	759.2	62.4	16.9	58	w.	13	6			3 k			0.323	8.2		Meteorological Obs'y.
Dorpat	29.88	759.0	30.11	764.9	71.8	22.1	57	wnw.	4	2		6 ck	0			0	0		Observatory.
Ekaterinburg	28.98	736.1	29.92	759.9	63.7	17.6	79	calm	0	0			10			0.126	3.2		Meteorological Obs'y.
Kasan	29.81	757.1	30.06	763.5	82.0	27.8	31	w.	9	4		0	3 k			0	0		Observatory.
Kertch	30.00	761.9	30.02	762.4	68.5	20.3	72	ese.	2	1		0	7 ks			0	0		Lagorio & Sastyres.
Kieff	29.47	748.6	30.08	764.0	77.4	25.2	33	e.	4	2		ck	3 ks			0	0		Observatory.
Lugan	29.86	758.5	30.06	763.6	70.3	21.3	48	ese.	18	8			10			blank	blank		Meteorological Obs'y
Moscow	29.64	752.9	30.09	764.2	81.3	27.4	27	sw.	4	2			3 ks						Meteorological Obs'y.
Nikolaiev	30.04	763.0	30.11	764.8	83.8	28.8	34	calm	0	0		cs	4 k			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.85	758.3	29.94	760.5	53.1	11.7	72	calm	0	0			0			0	0		Lieut. Iwanow.
Pekin, China	29.68	753.9	29.82	757.5	80.4	26.9	31	sw.	4	2		0	0			0	0		Physical Observatory
St. Petersburg	30.06	763.6	30.08	764.0	58.8	14.9	91	nw.	11	5			9 n			0.035	0.9	light rain	Central Physical Obs'y.
Semipalatinsk	29.37	745.9	30.00	762.0	69.4	20.8	51	calm	0	0		0	5 k			0.063	1.6		Major Lasareu.
Tashkend, Laboratory	28.39	721.1	29.88	759.0	79.5	26.4	63	calm	0	0			10			0	0	light clouds	Teich, A. M.
Tiflis	28.69	728.6	30.10	764.6	58.1	14.5	96	calm	0	0			10 n			0.563	14.3	raining	Physical Observatory
Vladivostock	29.93	760.3	30.00	762.0	45.5	7.5	89	s.	11	5		cs	1 k			0	0		
Warsaw	29.72	754.8	30.14	765.5	60.1	15.6	85	ne.	9	4			10 n						Astronomical Obs'y
Wilna	29.72	754.8	30.12	765.0	76.6	24.8	50	s.	4	2			9			0.177	4.5		Berg, Assistant.
Yeniseisk																			M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	30.07	763.8	30.17	766.4	70.2	21.2	67	e.	4.7	2.1		1 c	0			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.09	764.3	30.15	765.8	73.9	23.3	49	nw.	2.0	0.9		3	2	w.		0.083	2.1	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.22	691.4	30.11	764.9	68.0	20.0	61	sw.	4.0	1.8			6			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.95	709.8	30.12	765.0	71.4	21.9	63	calm	1.8	0.8		0	7			0	0	very cloudy	The Staff.
Murcia, Met. Obs'y	29.93	760.3	30.08	763.9	80.8	27.1	46	ene.	4.9	2.2		1	2			0	0	almost clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.23	742.4	30.11	764.9	65.3	18.5	64	w.	3.8	1.7			7			0	0	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	29.82	757.5	29.89	759.2	76.5	24.7	89	se.	2.0	0.9		3 ck	1 s	w.		2.327	59.1	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.82	757.3	29.87	758.7	82.4	28.0	78	n.	5.9	2.6			9 kn		sw.	0	0	threatening	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.02	762.4	30.11	764.9	72.5	22.5	72	w.	7.3	3.3		6	2	sw.	w	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.98	761.4	30.07	763.7	83.5	28.0		sw.	8.1	3.6		3 c	2 k	sw.	sw.	0	0	d. clouds	Manuel Maese.
Tuguegarao, Philippine Id's	29.76	755.9	29.89	759.2	77.0	25.0	93	calm	0	0			10 n			0.17	4.3	dull	José L. Yrastorza.
SWEDISH																			
Haparanda	29.84	757.8	29.87	758.8	40.6	4.8	100	s.			2		10			0	0	foggy	
Umea	29.91	759.6	29.96	760.9	57.6	14.2	98	sw			4		3			0.008	0.2		
Hernosand	29.85	758.1	29.90	759.4	62.6	17.0	66	sse.			2		5			0.413	10.5		
Stockholm	29.94	760.4	30.11	764.9	66.2	19.0	46	wsw.			4		1			0.004	0.1		
Wisby	30.04	763.1	30.10	764.6	58.6	14.8	76	nw.			2		0			0	0		
Sub-series.																			
Upsala	29.98	761.4	30.06	763.6	65.1	18.4	58	sw.	14.1	6.3			1		ssw.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.83	732.2	30.23	767.8	62.6	17.0	70	nne.			2					0.004	0.1	clouds	he Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
TURKISH.																			
Constantinople			30.24	768.0	69.8	21.1	49	ne.	8	3.5			0			0	0		The Observatory.
Valona			30.26	768.5	77.5	25.3		nw.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.00	762.0	70.2	21.2	73	n.			2	0	0			0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.95	760.7	30.03	762.7	56.2	13.4	70	s.	11	4.9			10 s			0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.30	744.2	29.96	761.0	44.0	6.7	68	nw.	6	2.7			10 s			0	0	cloudy	Jas. J. Fitzgerald.
Atlanta, Georgia	28.86	733.0	30.03	762.7	65.0	18.3	84	e.	7	3.1			10 s		calm	0	0	cloudy	H. Hall.
Atlantic City, New Jersey	30.06	763.5	30.07	763.8	54.2	12.3	86	se.	5	2.2		9 ck	0			0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.88	758.9	30.06	763.5	70	21.1	84	e.	3	1.3			10 s		e.	0	0	cloudy	John Healy.
Baltimore, Maryland	30.01	762.2	30.06	763.5	59	15.0	87	s.	5	2.2			10 s		s.	0.01	0.3	cloudy	Robert Seyboth.
Barnegat, New Jersey	30.06	763.5	30.08	764.0	56.4	13.6	79	s.	11	4.9		0	4 k		w.	0	0	fair	Chas. F. Merritt.
Behring Island, Behring Sea	29.86	758.4	29.88	758.9	36.4	2.4		e.	1	0.4		ck	4 k			0	0		Dr. L. Steineger.
Bismarck, Dakota	28.31	719.1	30.09	764.3	40	4.4	73	e.	4	1.8		5 ck	0	w.		0	0	fair	Cyrus Cramer.
Boise City, Idaho	27.12	688.8	29.96	761.0	50.3	10.2	48	n.	2	0.9		0	0			inap.	inap.	clear	B. E. Light.
Boston, Massachusetts	29.90	759.4	30.06	763.5	52.5	11.4	69	sw.	7	3.1		4 k	hz.			0	0	fair	O. B. Cole.
Brownsville, Texas	29.64	752.8	29.68	753.9	77	25.0	90	se.	8	3.6		0	5 s		se.	0	0	fair	M. McCarty.
Buffalo, New York	29.23	742.4	29.97	761.2	53	11.7	81	w.	3	1.3			10 n;sk		w.	0.02	0.5	light rain	Wm. Finn.
Burlington, Vermont	29.06	753.4	29.95	760.7	56.3	13.5	63	s.	10	4.5			10 s		w.	0	0	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.43	747.5	29.83	757.7	67.6	19.8	86	nw.	24	10.7			10 s		w.	0.13	3.3	threatening	W. H. Ray.
Campo, California	27.33	694.2	29.86	758.4	47.5	8.6	71	nw.	2	0.9		5 c	0	w.		0	0	fair	W. H. Clendenon.
Camp Thomas, Arizona	27.12	688.8	29.79	756.7	50	10.0	54	s.			1	hz.	hz.			0	0	light haze	J. T. Fitzgerald.
Cape Henry, Virginia	30.06	763.5	30.08	764.0	61	16.1	84	s.	14	6.3		8 k	0	sw.		0	0	cloudy	J. E. Lanouette.
Cape May, New Jersey																			W. Bolten.
Cedar Keys, Florida	29.91	757.9	29.93	760.2	72	22.2	97	e.	13	5.8			10 s		se.	0.13	3.3	cloudy	F. W. Mixer.
Champaign, Illinois	28.88	733.5	29.68	753.9	57.3	14.1	93	e.	14	6.3			10 n		e.	0.20	5.1	light rain	L. A. Welsh.
Charleston, S. Carolina	29.98	761.5	30.03	762.7	72	22.2	90	ne.	5	2.2		0	8 s		ne.	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.18	741.2	30.02	762.5	67.0	19.4	84	se.	2	0.9		10 cs	sk.	se.		0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.19	741.4	30.00	762.0	69.0	20.6	78	se.	4	1.8		1 k	0	s.		0.05	1.3	clear	B. L. Goulding.
Cheyenne, Wyoming	24.00	609.6	29.87	758.7	39.4	4.1	92	n.	4	1.8			10 n			0.19	4.8	light rain	E. McGovern.
Chicago, Illinois	29.08	738.6	29.78	756.4	48.9	9.4	96	ne.	12	5.4			10 n			0.50	12.7	light rain	J. Mitchell.
Chincoteague, Virginia	30.06	763.5	30.08	764.0	56	13.3	93	se.	8	3.6		0	fg.			0	0	clear	V. P. Temple.
Cincinnati, Ohio	29.19	741.4	29.84	757.9	66	18.9	78	se.	6	2.7		7 c;k	0	sw;s.		0	0	fair	R. B. Watkins.
Cleveland, Ohio	29.17	740.9	29.90	759.4	58.3	14.6	64	ne.	11	4.9		5 k	0	nw.		0	0	fair	J. B. Newlin.
Coleman City, Texas	27.92	709.2	29.72	754.9	64	17.8	93	s.	6	2.7		0	3 s			1.04	26.4	clear	L. Dorman.
Columbus, Ohio	29.01	736.8	29.85	758.2	59	15.0	81	s.	3	1.3		5 cs	5 ks	sw.	sw.	0.05	1.3	threatening	D. Cuthbertson.
Concho, Texas	27.78	705.6	29.68	753.9	65	18.3	78	sw.	12	5.4		0	0			0.18	4.6	clear	W. W. McConihe.
Davenport, Iowa	29.10	739.1	29.74	755.4	55	12.8	93	ne.	7	3.1			10 n		ne.	0.75	19.0	light rain	R. R. Martin.
Dayton, Washington T'y	28.26	717.8	30.02	762.5	52.8	11.6	75	sw.	2	0.9		7 c	0			0	0	fair	H. Clifford.
Deadwood, Dakota	25.40	645.1	29.91	759.7	49	9.4	50	e.	2	0.9		3 k	0	e.		0	0	clear	G. W. Scott.
Decatur, Texas					68	20.0	61	s.	12	5.4		0	7 s		sw.	0	0	fair	D. J. Carr.
Delaware Breakwater, Del.	30.04	763.0	30.06	763.5	55	12.8	86	s.	21	9.4		9 ck	0	sw.		0	0	cloudy	A. Schneider.
Denison, Texas	28.86	733.0	29.65	753.1	72.0	22.2	82	s.	10	4.5		10 cs	0	w.		0	0	cloudy	J. McGlone.
Denver, Colorado	24.71	627.6	29.87	758.7	42.5	5.8	96	n.	15	6.7			10 n		n.	1.05	26.7	light rain	F. M. Neal.
Des Moines, Iowa	28.89	733.8	29.78	756.4	53	11.7	93	ne.	10	4.5			10 n		ne.	1.54	39.1	heavy rain	F. W. Conrad.
Detroit, Michigan	29.19	741.4	29.89	759.2	54.2	12.3	86	ne.	10	4.5			10 n		ne.	0.51	13.0	heavy rain	C. F. R. Wappenhans.
Dodge City, Kansas	27.11	688.6	29.66	753.4	51	10.6	100	nw.	8	3.6			10 s			0.22	5.6	cloudy	E. A. Thomas.
Dubuque, Iowa	29.10	739.1	29.80	756.9	52.2	11.2	93	ne.	10	4.5			10 n		calm	0.27	6.9	heavy rain	J. Harvey Smith.
Duluth, Minnesota	29.34	745.2	30.04	763.0	46	7.8	68	nw.	1	0.4		hz.	hz.			0	0	light haze	N. B. Conger.
Eagle Pass, Texas	28.93	734.8	29.73	755.1	75.0	23.9	90	ne.	6	2.7			10 n			inap.	inap.	light rain	F. Belford.
Eagle Rock, Idaho	25.25	641.3	29.93	760.2	40	4.4	67	s.	1	0.4		0	0			0.04	1.0	clear	J. M. Clifford.
Eastport, Maine	29.97	761.2	30.04	763.0	48.5	9.2	77	s.	11	4.9		7 cs	0	sw.		0	0	fair	J. H. Melton.
El Paso, Texas	26.12	663.4	29.76	755.9	53	11.7	44	nw.	7	3.1		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.24	742.7	29.96	761.0	57	13.9	74	ne.	10	4.5		4 k	0			0	0	fair	R. H. Paxton.
Escanaba, Michigan	29.32	744.7	29.98	761.5	42	5.6	73	n.	14	6.3			10 s			0	0	cloudy	C. Dill.
Fort Apache, Arizona	24.95	633.7	29.77	756.1	37	2.8	66	ne.	1	0.4		0	6 s		calm	0	0	fair	W. C. Barnes.
Fort Assinnaboine, Montana	27.14	689.3	29.98	761.5	46	7.8	86	e.	1	0.4		1 c	0			inap.	inap.	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.50	723.9	30.06	763.5	45.0	7.2	71	nw.	2	0.9		1 c	0	calm		0	0	clear	A. Pritchard.
Fort Benton, Montana	27.16	689.9	29.95	760.7	50	10.0	80	w.	6	2.7		2 c	0			0	0	clear	G. W. Davis.
Fort Buford, Dakota	28.02	711.7	30.00	762.0	47	8.3	66	e.	16	7.2		10 cs	0	calm		0	0	cloudy	A. H. Bell.
Fort Custer, Montana	26.80	680.7	29.90	759.4	46	7.8	93	s.	6	2.7		0	6 s		calm	0	0	fair	V. Verge.
Fort Davis, Texas	25.01	635.2	29.73	755.1	59	15.0	54	sw.	4	1.8		0	0			0	0	clear	J. Williams.
Fort Elliott, Texas	26.95	684.5	29.65	753.1	53	11.7	61	n.	12	5.4		0	0			0.23	5.8	clear	W. J. Cundall.
Fort Gibson, Indian T'y																			J. B. Campbell.
Fort Grant, Arizona	25.16	639.1	29.77	756.1	52	11.1	33	se.	2	0.9		0	0			0	0	clear	T. J. Macgowan.
Fort Keogh, Montana	27.44	697.0	29.90	759.4	49	9.4	80	se.	8	3.6		4 c	0			0	0	fair	W. B. Stockman.
Fort Macon, North Carolina	30.06	763.5	30.07	763.8	69	20.6	93	e.	6	2.7		0	hz		calm	0	0	clear	L. Leonardy.
Fort McKavett, Texas	27.55	699.8	29.79	756.7	65	18.3	60	w.	3	1.3		0	5 s			0.18	4.6	fair	J. E. Thatcher.
Fort Missoula, Montana	26.72	678.7	30.02	762.5	43	6.1	83	w.	1	0.4		0	0			0	0	clear	J. H. Jones.
Fort St. Michaels, Alaska	29.42	747.3	29.46	748.3	38	3.3	91	n.	9	4.0		0	5 ks		w.	0	0	fair	A. P. Leavitt.
Fort Shaw, Montana	26.36	669.5	29.96	761.0	45	7.2	86	w.	5	2.2		1 cs	0			0.01	0.3	clear	A. L. Mathews.
Fort Sill, Indian Territory	28.39	721.1	29.61	752.1	66.5	19.2	88	s.	10	4.5		0	0			0.08	2.0	clear	T. Cleary.
Fort Stevenson, Dakota	28.27	718.0	30.10	764.5	44	6.7	93	ne.	3	1.3			10 n			inap.	inap.	light rain	W. Burrows.
Fort Verde, Arizona					52.4	11.3	55	sw.			1	0	0			0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.47	621.5			40.7	4.8	71	n.	2	0.9			10 ks			0.66	16.7	cloudy	T. M. Ambler.
Fredericksburg, Texas	28.04	712.2	29.76	755.9	68	20.0	84	w.	5	2.2			10 ks		w.	0.04	1.0	threatening	H. S. Miles.
Galveston, Texas	29.70	754.4	29.75	755.6	76	24.4	91	s.	16	7.2		2 c	6 ks		se.	0.04	1.0	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.21	741.9	29.87	758.7	54.5	12.5	80	ne.	6	2.7			10 s			0	0	cloudy	W. A. Reid.
Hatteras, North Carolina	30.06	763.5	30.08	764.0	66	18.9	81	e.	10	4.5		0	0			0	0	clear	R. M. Crawford.
Helena, Montana	25.78	654.8	29.95	760.7	49	9.4	58	sw.	1	0.4		0	2 s			0	0	clear	S. Wheaton.
Henrietta, Texas	28.70	729.0	29.68	753.9	72.0	22.2	62	w.	12	5.4		0	0			0.11	2.8	clear	J. W. Byram.
Huron, Dakota	28.62	726.9	29.97	761.2	39.8	4.3	73	n.	5	2.2		1 cs	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	28.95	735.3	29.74	755.4	66	18.9	81	s.	6	2.7			10 n		sw.	0.02	0.5	thnd'r str'm	O. Schutze
Indianola, Texas	29.70	754.4	29.73	755.1	76.5	24.7	85	se.	12	5.4		0	2 k		sw.	0	0	clear	I. A. Reed.
Jacksboro, Texas	28.52	724.4	29.67	753.6	66	18.9	73	sw.	11	4.9		0	3 s			0.03	0.8	clear	J. P. Sherry.
Jacksonville, Florida	29.93	760.2	29.97	761.2	79	26.1	74	e.	6	2.7		2 cs	0			0.18	4.6	clear	J. W. Smith.
Keokuk, Iowa	29.05	737.9	29.70	754.4	58.5	14.7	96	calm	0	0			fg.			0.84	21.3	light rain	F. Z. Gosewisch.
Key West, Florida	29.86	758.4	29.88	758.9	80.0	26.7	79	s.	5	2.2		0	2 ks		s.	1.07	27.2	clear	L. M. Melbourne.
Kittyhawk, North Carolina	30.11	764.8	30.13	765.3	60	15.6	87	se.	9	4.0		8 k	0	e.		0	0	cloudy	E. A. Beals.
Knoxville, Tennessee	28.98	736.1	30.00	762.0	67	19.4	80	e.	3	1.3		2 c	0			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.12	739.6	29.88	758.9	50	10.0	52	ne.	12	5.4			10 s			0	0	cloudy	S. C. Emery.
La Mesilla, New Mexico	25.99	660.1	29.75	755.6	47.2	8.4	66	calm	0	0		0	0			0	0	clear	N. D. Lane.
Leavenworth, Kansas	28.86	733.0	29.74	755.4	59	15.0	87	calm	0	0			10 s			0.17	4.3	cloudy	A. W. Browne.
Lewiston, Idaho	29.13	739.9	29.97	761.2	53.6	12.0	61	calm	0	0		0	0			0	0	clear	J. M. Burlew.
Little Rock, Arkansas	29.52	749.8	29.83	757.7	65	18.3	93	ne.	7	3.1			10 n		sw.	0.08	2.0	light rain	W. U. Simmons.
Los Angeles, California	29.57	751.1	29.97	761.2	54.1	12.3	80	sw.	3	1.3		0	0			0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.23	742.4	29.78	756.4	73	22.8	66	s.	13	5.8		9 cs	0			0	0	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.35	745.5	30.03	762.7	69.0	20.6	70	s.	1	0.4		3 c	0			0	0	clear	W. R. Bushby.
Madison, Wisconsin	28.87	733.3	29.87	758.7	46	7.8	77	ne.	13	5.8			10 s		sw.	0.09	2.3	cloudy	C. A. Shaw.
Marquette, Michigan	29.30	744.2	30.02	762.5	44	6.7	60	n.	6	2.7		7 cs	0	calm		0	0	fair	J. Gilligan.
Memphis, Tennessee	29.53	750.0	29.86	758.4	73	22.8	90	sw.	7	3.1		10 cs	0			0	0	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.12	739.6	29.86	757.4	42	5.6	82	n.	17	7.6			10 s		n.	0.06	1.5	cloudy	W. Line.
Mobile, Alabama	29.86	758.4	29.90	759.4	74	23.3	85	se.	5	2.2		8 c	0	nw.		0	0	cloudy	J. D. Paxton.

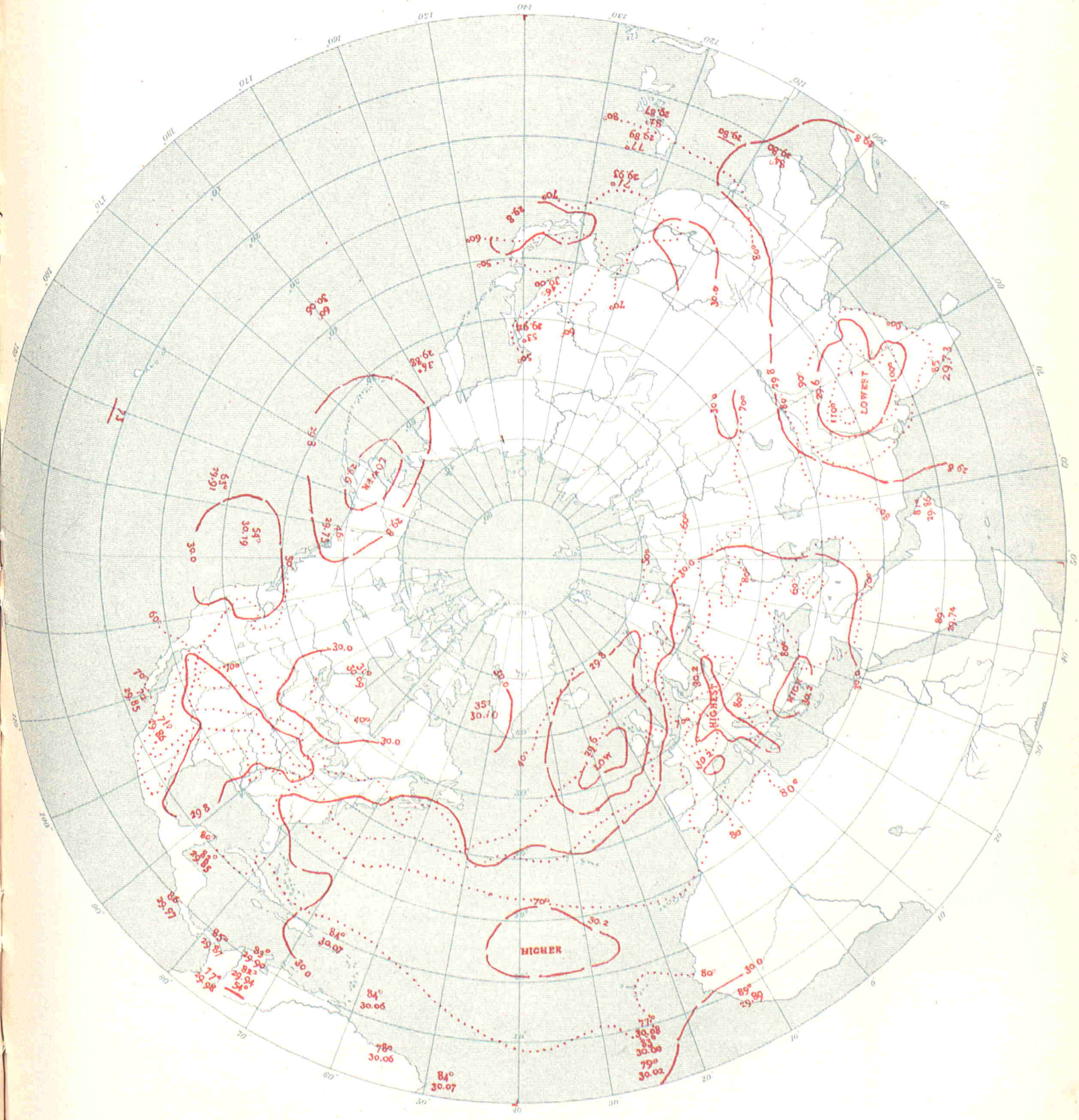
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Montgomery, Alabama	29.73	755.1	29.96	761.0	72.6	22.6	65	se.	6	2.7		1 cs	0			0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	29.08	738.6	30.06	763.5	42	5.6	82	ne.	3	1.3		5 k	0			0	0	fair	H. Bessant.
Morgantown, W. Virginia	28.94	735.1	29.95	760.7	57.0	13.9	86	calm	0	0		0	4 s		sw.	0	0	fair	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.77	603.7	29.95	760.7	33.0	0.6	92	nw	40	17.9			fg.		nw.	0	0	dense fog	J. G. Linsley.
Nashville, Tennessee	29.34	745.2	29.87	758.7	75.5	24.2	56	se.	8	3.6		3 cs	2 k	sw.	sw.	0	0	fair	L. A. Jesunofsky.
New Haven, Connecticut	29.96	761.0	30.08	764.0	51	10.6	86	sw.	4	1.8		4 ck	4s;sk	w.	sw.	0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.04	763.0	30.09	764.3	53	11.7	86	se.	5	2.2		6 k	4 s	se.	se.	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.78	756.4	29.83	757.7	73.5	23.1	83	e.	6	2.7		3 c	sk.			0	0	clear	L. Dunne.
Newport, Rhode Island	30.04	763.0	30.10	764.5	51.5	10.8	82	sw.	8	3.6			10 s		sw.	0	0	cloudy	W. McGillivray.
New River, N. Carolina					62	16.7	100	calm			0		fg.			0	0	dense fog	C. C. Corbin.
New Shoreham, Rhode I'd.	30.07	763.8	30.10	764.5	51.8	11.0	83	sw.	8	3.6		2 c	3 k	w.	sw.	0	0	fair	W. Davis.
New York, New York	29.92	760.0	30.10	764.5	49	9.4	100	sw.	3	1.3			10s;fg			0	0	cloudy	E. B. Garriott.
Norfolk, Virginia	30.05	763.3	30.08	764.0	62	16.7	87	s.	6	2.7		0	5 k		w.	0	0	fair	J. T. Elker.
North Platte, Nebraska	27.01	686.0	29.88	758.9	46.6	8.1	76	n.	18	8.0			10 n			0.83	21.1	light rain	E. F. Brady.
Olympia, Washington T'y	30.05	763.3	30.09	764.3	52.0	11.1	86	calm	0	0			10 s		calm	0	0	cloudy	J. Dascomb.
Omaha, Nebraska	28.68	728.5	29.84	757.9	53.1	11.7	96	n.	9	4.0			10 n		ne.	0.85	21.6	light rain	A. Pollak.
Ogglaamie, Pt. Barrow, Alas.	29.95	760.7	29.97	761.2	10.6	—11.9	100	ene.	12	5.4		1 c	0			0	0	clear	P. H. Ray.
Oswego, New York	29.62	752.3	29.95	760.7	56.7	13.7	73	s.	3	1.3			10 s			0	0	cloudy	S. W. Beall.
Palestine, Texas	29.31	744.5	29.86	758.4	72	22.2	97	se.	4	1.8			10 n			0.06	1.5	light rain	L. M. Pindell.
Pensacola, Florida	29.87	758.7	29.90	759.4	76.2	24.6	85	se.	14	6.3		4 c	5 ks	w.	se.	0	0	cloudy	M. McGauran.
Philadelphia, Pa.	29.98	761.5	30.08	764.0	54	12.2	74	s.	1	0.4			10 s		se.	0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.60	447.0	29.66	753.4	14	—10.0	100	nw.	28	12.5			10 n		nw.	0.72	18.3	heavy snow	L. M. Dey.
Pioche, Nevada	23.99	609.3	29.91	759.7	43	6.1	76	nw.	4	1.8		0	0			0.11	2.8	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.12	739.6	29.92	760.0	55.1	12.8	83	ne.	2	0.9		10 k	0	w.		0	0	cloudy	J. H. Bryce.
Poplar River, Montana	27.84	707.1						se.			1	0	0			0.06	1.5	clear	U. D. Maxwell.
Port Eads, Louisiana	29.86	758.4	29.87	758.7	75.1	23.9	85	se.	9	4.0		0	0			0	0	clear	H. G. Christian.
Port Huron, Michigan	29.22	742.2	29.90	759.4	48.0	8.9	100	ne.	5	2.2			10 n			0.47	11.9	light rain	W. O. Bailey.
Portland, Maine	29.95	760.7	30.00	762.0	52.0	11.1	72	s.	11	4.9		5 c	4 s	w.	calm	0	0	cloudy	D. O. Murphy.
Portland, Oregon	30.01	762.2	30.08	764.0	53.8	12.1	86	calm	0	0			10 s		calm	0	0	cloudy	M. L. Hearne.
Portsmouth, N. Carolina					67	19.4	73	e.	8	3.6		0	hz.		calm	0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.69	627.1	29.79	756.7	41	5.0	54	s.	3	1.3		0	0			0	0	clear	J. Mc N. Wright.
Provincetown, Mass.	30.04	763.0	30.07	763.8	53	11.7	86	sw.	10	4.5		3 cs	2 s	sw.		0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	29.90	759.4	29.91	759.7	72	22.2	90	e.	7	3.1		10 ck	0	s.		0.40	10.2	cloudy	W. J. Evans.
Red Bluff, California	29.58	751.3	29.95	760.7	58.2	14.6	80	w.	2	0.9		1 ck	0	nw.		0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.45	748.0	29.69	754.1	78	25.6	82	se.	12	5.4		0	1 ks		se.	0	0	clear	P. M. Wilson.
Rochester, New York	29.30	744.2	29.96	761.0	55	12.8	69	w.	6	2.7			10n;fg		w.	inap.	inap.	light rain	F. Gillam.
Roseburg, Oregon	29.53	750.0	30.08	764.0	50	10.0	81	ne.	1	0.4		10ck;cs	0	w.		0	0	cloudy	J. J. Nanry.
Sacramento, California	29.87	758.7	29.95	760.7	53.4	11.9	86	se.	4	1.8		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.11	739.4	29.70	754.4	61.0	16.1	100	s.	10	4.5			10n;fg			0.60	15.2	light rain	J. H. Webber.
St. Paul, Minnesota	29.09	738.9	29.94	760.5	48.0	8.9	63	n.	7	3.1		5 cs	0			0	0	fair	P. F. Lyons.
St. Vincent, Minnesota	29.27	743.4	30.13	765.3	39	3.9	73	n.	6	2.7		0	0			0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.59	650.0	29.91	759.7	51	10.6	43	nw.	6	2.7		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.02	737.1	29.72	754.9	74	23.3	97	s.	2	0.9			10 s		s.	inap.	inap.	cloudy	E. Lane.
San Diego, California	29.85	758.2	29.92	760.0	59.6	15.3	79	nw.	3	1.3			10 s		nw.	0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.18	741.2	29.85	758.2	56.8	13.8	74	e.	18	8.0			10 s			0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.06	763.5	30.10	764.5	51.0	10.6	86	sw.	5	2.2			10 s		calm	0	0	cloudy	B. A. Blundon.
San Francisco, California	29.94	760.5	30.01	762.2	51.5	10.8	90	sw.	7	3.1			fg.		sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.07	586.0	29.68	753.9	42	5.6	50	n.	15	6.7		0	0			inap.	inap.	clear	H. U. Jones.
Savannah, Georgia	29.93	760.2	30.02	762.5	71	21.7	90	ne.	3	1.3		0	8 k		ne.	0	0	cloudy	H. W. Ford.
Shreveport, Louisiana	29.53	750.0	29.77	756.1	73	22.8	84	se.	5	2.2			10 s		se.	inap.	inap.	cloudy	E. N. Meekins.
Silver City, New Mexico	24.18	614.2	29.73	755.1	41	5.0	33	nw.	1	0.4		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	29.69	754.1	29.75	755.6	46	7.8	76	sw.	3	1.3			10 s		calm	0.49	12.4	threatening	J. J. McLean.
Smithville, North Carolina	30.02	762.5	30.06	763.5	71	21.7	84	e.	9	4.0		0	0			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.93	709.4	29.98	761.5	53	11.7	74	se.	12	5.4		7 cs	0			0	0	fair	D. Moore.
Springfield, Illinois	29.01	736.8	29.68	753.9	61	16.1	87	e.	9	4.0			10 s		se.	0.78	19.8	cloudy	T. B. Jennings.
Springfield, Massachusetts	29.94	760.5	30.07	763.8	49.6	9.8	86	s.	8	3.6			10 s			0	0	cloudy	T. S. Outram.
Springfield, Mo.	28.30	718.8	29.78	756.4	59.5	15.3	93	s.	16	7.2			10 ks		s.	2.28	57.9	cloudy	J. B. Marbury.
Starkville, Miss.	29.45	748.0			74	23.3	82	se.	5	2.2		2 cs	0			0	0	clear	M. J. Wright.
Stockton, Texas	26.79	680.5	29.80	756.9	59.0	15.0	46	w.	12	5.4		0	0			0	0	clear	J. O'Dowd.
Thatcher's Island, Mass.	30.00	762.0	30.05	763.3	49.0	9.4	77	w.	16	7.2		8 cs;k	hz.	w.		0	0	cloudy	F. R. Day.
Toledo, Ohio	29.19	741.4	29.87	758.7	56	13.3	80	n.	14	6.3			10 n		s.	0.02	0.5	light rain	A. Buell.
Tucson, Arizona	27.45	697.2	29.79	756.7	55	12.8	42	s.	5	2.2		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.66	753.4	30.03	762.7	59	15.0	65	calm	0	0		4 cs	5 s			0	0	cloudy	J. Daly.
Uvalde, Texas	28.76	730.5	29.71	754.6	73	22.8	100	se.	2	0.9			10 n		se.	0.05	1.3	light rain	E. C. Imlay.
Vicksburg, Mississippi	29.59	751.6	29.84	757.9	70	21.1	79	se.	1	0.4			9 s		calm	0	0	cloudy	H. T. Brisbane.
Visalia, California	29.57	751.1	29.94	760.5	60	15.6	75	s.	2	0.9		0	0			0	0	clear	W. L. Seward.
Washington, D. C.	29.93	760.2	30.04	763.0	59.0	15.0	85	s.	5	2.2		0	4 k		s.	0	0	fair	B. M. Purssell.
West Las Animas, Colorado	25.87	657.1	29.73	755.1	48.5	9.2	91	n.	16	7.2			10 n		n.	0.97	24.6	light rain	J. Grover.
Williamsport, Pa.	29.40	746.7	30.00	762.0	58	14.4	69	calm	0	0		1 ck	hz.			0	0	clear	B. F. Hough.
Wilmington, N. Carolina	30.01	762.2	30.06	763.5	67	19.4	93	e.	2	0.9		10 cs	sk.			0	0	cloudy	A. T. Sherwood.
Winnemucca, Nevada	25.63	651.0	29.98	761.5	42	5.6	76	calm	0	0		0	0			0	0	clear	J. R. Williams.
Yankton, Dakota	28.61	726.7	29.89	759.2	47	8.3	68	ne.	3	1.3		6 cs	0			0.55	14.0	fair	J. H. Atfield.
Yuma, Arizona	29.65	753.1	29.80	756.9	61.8	16.6	75	calm	0	0		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8			54.0	12.2	77	e.	2	0.9		2 k	7ks;s		w.	0.15	3.8	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W. I.	30.05	763.3	30.06	763.5	84	28.9	87	e.				5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.95	760.7	29.98	761.5	77	25.0	90	s.	8	3.6		0	6 ks		s.	0	0	cloudy	J. I. Plume.
Havana, Cuba, W. I.	29.86	758.4	29.91	759.7	78	25.6	88	calm	0	0		2 cs	2 ks	calm	calm	0.64	16.3	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	29.96	761.0	29.97	761.2	81.8	27.7	79	ese.	8	3.6		1 cs	1 ks	w.	e.	0	0	fine	Robert Johnston.
Magua, San Domingo, W. I.					72	22.2		calm			0	6 cs	0	e.		0	0		S. M. Pike.
Navassa, W. I.																			F. M. Everett.
Paramaribo, S. A.	30.06	763.5	30.06	763.5	78	25.6	86	e.			2	5 ck	5 k	e.	e.	0.010	0.3	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.48	748.8	29.94	760.5	82	27.8	85	calm			0		9 s		calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							98	nw.			1		10 n		nw.	0.53	13.5	cloudy	Earl Flint.
Santiago de Cuba, W. I.	29.93	760.2	29.95	760.7	82	27.8	83	calm	0	0		3 c	3 ks		se.	0	0	fair	Robert Mason.
York Factory, B. A.	30.04	763.0	30.09	764.3	31.0	— 0.6	95	n.	10	4.5		0	0			0	0	clear	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
British Naval.																		
H. M. S Alert, S. 24° 53′, E. 40° 48′	29.73	755.1	70.8	21.6	78	sw.			0–5		5							drizzling.
H. M. S. Alexandra, Suda Bay, Turkey in Europe	30.15	765.8	72.5	22.5	65	var.			1		1							blue sky.
H. M. S. Amethyst, N. 1° 59′ W. 24° 54′	30.02	762.5	78.5	25.8	95	se.			4		2	ese.				2	se.	d. clouds.
H. M. S. S. S. Champion, N. 18° 30′ W. 148° 00′			73	22.8	?	e.			3		9	e.				3	ene.	d. clouds.
H. M. S. Comus, N. 10° 08′ E. 109° 40′	29.80	756.9	83.5	28.6	100	wsw.			2–4		8							showery.
H. M. S. Diamond, S. 28° 40′, E. 158° 16′	30.03	762.7	70.5	21.4	75	n.			1		9	w.						d. clouds.
H. M. S. Dido, N. 13° 05′, W. 59° 30′	30.07	763.8	82	27.8		e.			3		5	e.						d. clouds.
H. M. Dock Yard, Bermuda, W. I.	30.02	762.5	74	23.3	88	nne.			2–3		8	nne.						d. clouds.
H. M. S. Druid, N. 17° 40′, W. 86° 09′	29.85	758.2	81.5	27.5	87	se.			3–4		10	se.				3	se.	squally.
H. M. S. Dwarf, S. 28° 29′, W. 58° 58′	29.77	756.1	63.5	17.5	100	ne.			1		5					1	ne	d. clouds.
H M. S. Eclipse, S 23° 36′, E. 43° 00′	29.68	753.9	77	25.0		nnw.			6		4					6	nnw.	showery.
H. M. S. Emerald, S. 53° 30′, W. 119° 20′	28.61	726.7	44	6.7	100	nw.			1		10					4	nne.	raining.
H. M. S. Espiegle, S. 31° 55′, E. 160° 16′	30.01	762.2	66	18.9	84	sw.			2		8					1	w.	d. clouds.
H. M. S. Euryalus, N 14° 20′ E. 74° 00′	29.73	755.1	85	29.4	79	nnw.			3		2	calm				2	nw.	d. clouds.
H. M. S. Fantome, Savanilla, U. S. C.	29.90	759.4	83	28.3		calm			0		5	calm						d. clouds.
H. M. S. Flying Fish, N. 37° 58′, E. 124° 40′.	29.74	755.4	60	15.6	70	wnw.			3		2					1	nw.	d. clouds.
H. M. S. Fawn, S. 6° 18′, E. 65° 33′	29.81	757.2	79	26.1	72	sse.			3		6	se.				3	se.	d. clouds.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.15	765.8	48.5	9.2	96	se.			1		8							foggy.
H M. S. Garnet, Colonia, Uruguay	29.98	761.5	58	14.4	93	ssw.			2		10							overcast.
H. M. S. Inconstant, S. 17° 40′, W. 2° 50′	30.14	765.5	70	21.1	73	se.			2–3		3	ese.				2	ese.	d. clouds.
H. M. S. Iron Duke, N. 31° 50′, E. 129° 28′	29.74	755.4	65	18.3	100	n.			3–4		5					1	n.	d. clouds.
H. M S. Kingfisher, N. 8° 55′ W. 79° 31′	29.87	758.7	85	29.4		calm			0		5	calm						d. clouds.
H. M. S. Lark. S. 8° 48′, E. 156° 58′	29.86	758.4	81.3	27.4		se.			3		9					3	se.	showery.
H. M. S. Magpie, N. 35° 26′, E. 139° 33′	29.66	753.4	68.0	20.0	88	nnw.			1		9 s	sw.						misty
H. M. S. Northampton, Halifax, Nova Scotia	30.03	762.7	52	11.1	97	wsw.			2		3	wnw.						d. clouds.
H. M. S. Orontes, N. 19° 00′, W. 55° 20′	30.13	765.3	79.5	26.4	97	e.			4		2	e.				3	e.	d. clouds.
H M. S. Pegasus, N. 1° 17′, E. 103° 51′	29.80	756.9	85.5	29.7	81	w.			1–2		3							d. clouds.
H. M. S. Phœnix, N. 18° 25′, W. 77° 08′	30.00	762.0	80	26.7	91	ene.			1		0					1	e.	blue sky.
H. M. S. Rambler, S. 1° 28′, E. 8° 03′	29.92	760.0	77	25.0	95	sse.			2		1					3	ssw.	blue sky.
H. M S. Rocket, N. 48° 27′ W. 123° 27′	30.07	763.8	53	11.7	?	wsw.			2		3							raining.
H. M. S. Sylvia, N. 9° 38′, W. 26° 10′	30.08	764.0	77.2	25.1	85	nne.			2		7	nne.				2	nne.	d. clouds.
H. M. S. Swiftsure, N. 41° 52′, W. 9° 10′	30.13	765.3	60	15.6	82	ssw.			1		6	wsw.				1	wsw.	d. clouds.
H. M. S. Tenedos, N. 47° 34′ W. 52° 41′	30.00	762.0	46.5	8.1	88	nnw.			2		6							d. clouds.
H. M. S. Triumph, Coquimbo, Chili	30.13	765 3	52	11.1	93	calm			0		6	calm						d. clouds.
H. M. S. Woodlark, N. 22° 06′ E. 59° 45′	29.66	753.4	80.5	26.9	82	s.			5–6		0					5	s.	misty.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verd Island	30.08	764.0	83.8	28.8	65	ne.			3		4		ne.			2		gloomy.
Tamega, Macao, China	29.82	757.5	77.0	25.0	83	nnw.			1		10			7 h'r	7 h'r			drizzling.
Swedish Naval.																		
Sago, N. 53° 51′, E. 2° 36′	30.02	762.5	55.9	13.3	89	sse.			4		2							d. clouds.
United States Naval.																		
Navy Yard, Pensacola, Fla	29.91	759.7	76	24.4	91	se.	15	6.7			8		se.	0	0			fair.
Navy Yard, Portsmouth, N. H.	30.03	762.7	50	10.0	79	sw.	3	1.3			8		sw.	0	0			cloudy.
Naval Hospital, Yokohama, Japan	29.53	750.0	66.5	19.2	89	calm			0		10		sw.	light	light			cloudy.
Adams, Mare Island, Cal	29.73	755.1	54	12.2	93	sw.			2		8		sw.			sm'h		overcast.
Alaska, Callao, Peru	29.95	760.7	62	16.7	88	calm			0		5			0	0	sm'h		fair.
Alert, Kobe, Japan*	29.65	753.1	64	17.8	62	nne.			2		2		nne.	0	0	sm'h		clear.
Alliance, N. 36° 34′ W. 74° 54′	30.11	764.8	53	11.7	93	ese.			1		10			0	0	sm'h		cloudy.
Ashuelot, Kobe, Japan	29.72	754.9	62	16.7	72	n.			1		5		w.					fair.
Brooklyn, S. 31° 47′, W. 49° 30′	29.94	760.5	67	19.4	89	n.	7	3.1			2		s.	0.05	1.3	r'gh	ene.	fair.
Colorado, New York, N. Y.	30.08	764.0	50	10.0	93	s.	4	1.8			8		sw.	0	0			light fog.
Essex, Montevideo, Uruguay	29.96	761.0	57	13.9	94	wsw.			2		10		wsw.			sm'h		foggy.
Franklin, Norfolk, Va.	30.11	764.8	61	16.1	88	s.	7.2	3.2			5		sw.	0	0			fair.
Galena, N. 35° 13′, W. 6° 11′	30.13	765.3	68	20.0	95	nne.			3		2					mod.	nw.	clear.
Independence, Mare Island, Cal	29.83	757.7	65	18.3	73	sw.			4		10		sw.	0	0			cloudy.
Iroquois, San Francisco, Cal	29.98	761.5	54	12.2	80	sw.			3		10							cloudy.
Kearsage, N. 36° 41′ W. 74° 53′	30.11	764.8	52	11.1	100	ese.			2		10		nw.			sm'h		cloudy.
Lackawanna, Panama, Panama*	29.87	758.7	80	26.7	87	nw.			1		2		nw.					fair.
Lancaster, N. 36° 01′, W. 9° 07′*	30.12	765.0	69	20.6	85	n.			2		8		calm	0	0	sm'h		fair.
Marion, S. 34° 54′, W. 56° 13′	29.89	759.2	57	13.9	100	wsw.			3		10					sm'h		fair.
Michigan, Erie, Pa	29.90	759.4	57	13.9	100	ne.			4		2		sw.					fair.
Minnesota, Newport, R. I.	30.08	764.0	52	11.1	93	sw.	5	2.2			8		sw.					fair.
Monocacy, Nagasaki, Japan	29.75	755.6	64	17.8	89	n.			2		5		calm					cloudy.
New Hampshire, Newport, R. I.	30.07	763.8	51	10.6	93	sw.			2		8					sm'h		cloudy.
Nipsic, N. 35° 00′, W. 6° 34′	30.12	765.0	69	20.6	80	n.			2		2					mod.	nw.	clear.
Onward. Callao, Peru†	30.09	764.3	61	16.1	94	sse.			1		10		n.			long	w.	cloudy.
Palos, Kobe, Japan	29.79	756.7	62	16.7	66	n.			3		5		se.					fair.
Passaic, Washington, D. C.	30.06	763.5	60	15.6	100	sw.			2		0							clear.
Pensacola, S. 13° 13′ W. 79° 48′	30.00	762.0	65	18.3	84	se.			6		5		se.	0	0	mod.	se.	fair.
Portsmouth, Portsmouth, Eng*†	30.27	768.8	63	17.2	100	sw.			2		5					sm'h		fair.
Powhatan, Norfolk, Va.	30.07	763.8	57	13.9	94	s			1		10		sw.					cloudy.
Quinnebaug, N. 28° 46′, W. 14° 31′	30.18	766.6	70	21.1	75	nne.			1		0					long	v.	fine.
Ranger, Mazatlan, Mexico*	29.81	757.2	73	22.8	90	se.			1		2		calm	0	0	sm'h		clear.
Richmond, Kobe, Japan*	29.70	754 4	64	17.8	73	nnw.			1		0			0	0			clear.
Saratoga, Cowes, Eng	30.04	763.0	64	17.8	50	sw.			3		5		sw.	0	0	sm'h		fair.
St. Louis, League Island, Pa	30.30	769.6	54	12.2	93	calm	0	0			5			0	0			fair.
Swatara, Shanghai, China*	29.75	755.6	71	21.7	75	sse.			1		8		w.			sm'h		fair.
Tennessee, N. 36° 35′, W. 74° 53′	30.14	765.5	55	12.8	87	ese.	5	2.2			10		e.			sm'h		cloudy.
Vandalia, Hampton Roads, Va*†	30.30	769.6	61	16.1	94	ssw.			2		2		ssw.					clear.
Wabash, Boston, Mass.	30.04	763.0	54	12.2	74	sw.	6	2.7			5		sw.	0	0			fair.
Wachusetts, Fort Wrangle, Alaska	29.80	756.9	44	6.7	92	ene.			2		10		calm			sm'h		overcast
Wyoming, Port Royal, S. C.	30.04	763.0	71	21.7	95	ne.	10	4.5			8		ne.	0	0			misty.
Yantic, N. 36° 28′, W. 74° 51′*	30.07	763.8	53	11.7	93	ese.			2		8					sm'h		cloudy.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Prussian, N. 38° 03′, W. 75° 18′*	29.93	760.2	64	17.8	.....	s.	.....	.....	4	.....	2?	.....	se.	0	0	sm'h	.....	cloudy ?
S. S. Scandinavian, N. 52° 52′, W. 12° 12′*	29.48	748.8	51	10.6	.....	sw.	.....	.....	7	.....	2	.....	sw.	4½h'r	4½h'r	cross	sw.	d. clouds.
S. S. Waldensian, N. 42° 36′, W. 48° 58′*	29.98	761.5	40	4.4	.....	nne.	.....	.....	5	.....	.....	.....	ne.	light	light	mod.	ne.	light rain.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, N. 46° 53′, W. 32° 12′	29.89	759.2	54	12.2	93	w.	.....	.....	6	.....	2	.....	w.	.....	.....	mod.	w.	clear.
S. S. Indiana, Philadelphia, Pa.†	30.12	765.0	77	25.0	?	nnw.	.....	.....	3	.....	5	.....	w.	0	0	.....	.....	fair.
S. S. Lord Clive, N. 47° 18′, W. 30° 28′*	29.72	754.9	.....	.....	.....	nw.	.....	.....	4	.....	3	.....	nw.	1 h'r	1 h'r	high	n.	fine.
S. S. Ohio, Liverpool, Eng.†	29.87	758.7	57	13.9	93	sw.	.....	.....	4	.....	4	.....	wsw.	.....	.....	.....	.....	fair.
ANCHOR LINE.																		
S. S. India, N. 17° 21′, E. 40° 29′*	29.64	752.8	89	31.7	91	wnw.	.....	.....	3	.....	0	.....	.....	.....	.....	short	nnw.	clear.
S. S. Utopia, Valencia, Spain†	30.27	768.1	80	26.7	50	e.	.....	.....	1	.....	3	.....	e.	0	0	.....	.....	clear.
ATLAS LINE.																		
S. S. Alvena, N. 38° 20′, W. 73° 50′†	30.09	764.3	54	12.2	.....	se.	.....	.....	1	.....	0	.....	.....	0	0	sm'h	.....	fine.
S. S. Alvo, Jeremie, Jamaica, W. I.	29.97	761.2	100	37.8	.....	.....	.....	.....	.....	.....	2	.....	.....	0	0	.....	.....	.....
S. S. Athos, N. 19° —′, W. 75° —′	29.42	747.3	.....	.....	.....	ene.	.....	.....	2	.....	1	.....	e.	0	0	.....	e.	fine.
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, N. 42° 26′ W. 63° 33′	.....	.....	50	10.0	78	w.	.....	.....	2	.....	.....	.....	.....	0	0	.....	.....	clear.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 39° 28′, E. 29° 56′	30.30	769.6	52.5	11.4	63	ssw.	.....	.....	8	.....	8	.....	.....	.....	.....	.....	.....	showery.
British Merchant, S 15° 20′ W 5° 47′	30.13	765.3	73.2	22.9	67	se.	.....	.....	3	.....	3	.....	.....	.....	.....	.....	.....	misty.
Bk. Commewyne, N. 24° 32′, W. 26° 08′	30.21	767.3	76	24.4	76	nne.	.....	.....	1	.....	8	.....	.....	.....	.....	.....	.....	raining.
Bk. Coppename, N. 13° 26′, W. 41° 16′	30.11	764.8	78	25.6	75	ene.	.....	.....	5	.....	3	.....	.....	.....	.....	.....	.....	blue sky.
Glencairn, S. 34° 20′, E. 24° 20′	30.33	770.4	62	16.7	77	ssw.	.....	.....	5	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
Bkt. Hope, N. 36° 50′, W. 41° 08′	30.17	766.3	69	20.6	84	wsw.	.....	.....	5	.....	8	.....	.....	.....	.....	.....	.....	d. clouds.
May Hulse, S. 36° 33′, W. 82° 52′	30.24	768.1	61	16.1	82	w.	.....	.....	5	.....	9	.....	.....	.....	.....	.....	.....	d. clouds.
Minho, Buenos Ayres, S. A.	29.98	761.5	56	13.3	93	w.	.....	.....	2	.....	7	.....	.....	.....	.....	.....	.....	misty.
CUNARD LINE.																		
S. S. Marathon, N. 42° 44′, W. 64° 26′	30.17	766.3	44	6.7	.....	calm	.....	.....	0	.....	1	.....	.....	4 h'r	4 h'r	sm'h	.....	clear.
S. S. Parthia, N. 47° 57′. W. 29° 14′†	29.80	756.9	.....	.....	.....	wnw.	.....	.....	5	.....	5?	.....	s.	2 h'r	2 h'r	sm'h	n.	cloudy.?
S. S. Scythia, N. 40° 36′, W. 56° 22′	30.13	765.3	59.5	15.3	94	n.	.....	.....	3	.....	4	.....	ne.	0	0	short	nne.	clear.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. St. Germain, N. 40° 00′ W. 57° 58′	30.29	769.4	64.4	18.0	.....	ne.	.....	.....	2	.....	.....	.....	ne.	0	0	sm'h	ne.	
S. S. St. Laurent. N. 42° 25′ W 50° 40′†	30.10	764.5	44.6	7.0	100	wnw.	.....	.....	5	.....	.....	.....	.....	0	0	sm'h	wnw.	clear.
GUION LINE.																		
S. S. Wisconsin, N. 42° 10′, W. 48° 15′*†	29.74	755.4	52	11.1	.....	ene.	.....	.....	2	.....	10	.....	e.	12 h'r	12 h'r	sm'h	.....	drizzling.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, Hamburg, Germany*†	30.10	764.5	.....	.....	.....	w.	.....	.....	2	.....	4	.....	w.	0	0	.....	.....	fine.
S. S. Gellert, N. 41° 10′, W. 53° 40′	29.96	761.0	56	13.3	.....	n.	.....	.....	7	.....	10	.....	n.	4 h'r	4 h'r	r'gh	n.	fair.
S. S. Lessing, N. 40° 18′, W. 62° 53′	30.15	765.8	60	15.6	.....	ene.	.....	.....	3	.....	5?	.....	.....	0	0	sm'h	ene.	cloudy ?
S. S. Silesia, N. 47° 46′, W. 29° 49′†	29.82	757.4	54	12.2	.....	w.	.....	.....	7	.....	5	.....	w.	1½h'r	1½h'r	7	nw.	d. clouds.
INMAN LINE.																		
S. S. City of New York, N. 40° 36′, W. 64° 32′	30.22	767.6	.....	.....	.....	se.	.....	.....	3	.....	2	.....	se.	0	0	long	ene.	clear.
JOHNSTON LINE.																		
S. S. Thanemore, N. 37° 11′, W. 74° 16′	30.11	764.8	.....	.....	.....	sse.	.....	.....	2	.....	5	.....	s.	0	0	.....	.....	fair.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, N. 10° —′, W. 28° —′*†	30.20	767.1	82	27.8	.....	ene.	.....	.....	2	.....	3	.....	ne.	0	0	sm'h	.....	clear.
S. S. Humboldt, N. 38° 00′ W. 72° 46′*	30.13	765.3	58	14.4	93	nw.	.....	.....	1	.....	4 k	.....	.....	0	0	2	nw.	misty.
LEYLAND LINE.																		
S. S. Iberian, N. 42° 34′, W. 56° 54′	30.07	763.8	.....	.....	.....	nw.	.....	.....	3	.....	0?	.....	.....	9 h'r	9 h'r	.....	.....	raining?
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, N. 33° 56′. W. 73° 08′	29.85	758.2	.....	.....	.....	ene.	.....	.....	7	.....	.....	.....	ne.	0	0	h'vy	ne.	cloudy.
S. S. Glenapp, Rio de Janeiro Brazil*†	30.02	762.5	.....	.....	.....	ene.	.....	.....	3	.....	1	.....	ene.	0	0	.....	.....	hazy.
NATIONAL LINE.																		
S. S. Canada, N. 40° 25′. W. 63° 59′	30.19	766.8	56	13.3	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	long	e.	clear.
S. S. Denmark, N. 41° 16′, W. 54° 30′	30.10	764.5	50	10.0	.....	nw.	.....	.....	6	.....	8	.....	wnw.	6 h'r	6 h'r	short	wnw.	squally.
S. S. England, N 50° 43′, W. 19°, 03′	29.53	750.0	.....	.....	.....	wsw.	.....	.....	6	.....	2	.....	wsw.	6 h'r	6 h'r	high	wsw.	clear.
S. S. Erin, N. 48° 53′ W. 24° 23′	29.66	753.4	61	16.1	.....	nw.	.....	.....	4	.....	2	.....	nw.	0	0	r'gh	nnw.	clear.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, N. 23° 55′, W. 74° 20′†	29.97	761.2	78	25.6	.....	sw.	.....	.....	2	.....	7	.....	ssw.	10 h'r	10 h'r	sm'h	sse.	cloudy.
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, New York. N. Y *†	30.02	762.5	53	11.7	93	sw.	.....	.....	2	.....	8	.....	sw.	0	0	.....	.....	misty.
S. S. City of Puebla, Vera Cruz, Mexico†	29.66	753.4	83	28.3	.....	e.	.....	.....	3	.....	8	.....	ene.	.....	.....	mod.	ne.	
S. S. City of Washington, N. 33° 20′, W. 76° 07′*†	30.20	767.1	74	23.3	.....	e.	.....	.....	5	.....	1	.....	e.	0	0	mod.	se.	clear.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Lepanto, N. 48° 15′, W. 29° 52′*	29.75	755.6	52	11.1	.....	w.	.....	.....	6	.....	.....	.....	.....	.....	.....	con.	e.	clear.
S. S. Lone Star, N. 27° 05′, W. 86° 37′*†	30.09	764.3	78	25.6	.....	se.	.....	.....	1	.....	.....	.....	.....	.....	.....	sm'h	.....	rainy.
NORTH GERMAN LLOYD.																		
S. S. Elbe, N. 41° 09′, W. 51° 30′	29.93	760.1	45.5	7.5	93	nnw.	.....	.....	6	.....	8	.....	n.	rain	rain	r'gh	n.	cloudy.
S. S. Graf Bismarck, S. 2° 00′, W. 30° 45′	30.08	764.0	79.7	26.5	.....	ese.	.....	.....	3	.....	3	.....	se.	0	0	mod.	ese.	fair.
S. S. Habsburg, N. 44° 08′, W. 47° 00′	29.85	758.2	45.5	7.5	.....	ene.	.....	.....	3–4	.....	10	.....	.....	3 h'r	3 h'r	mod.	ene.	raining.
S. S. Hermann, N. 41° 12′, W. 55° 44′†	29.97	761.2	50.0	10.0	.....	n.	.....	.....	5	.....	4	.....	nw.	6 h'r	6 h'r	cross	n.	clearing.
S. S. Hohenzollern, N. 38° 19′, W. 69° 23′*	30.11	764.8	59.0	15.0	.....	e.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	ne.	clear.
S. S. Leipzig, N. 46° 06′, W. 29° 08′	29.82	757.4	58.0	14.4	76	nw.	.....	.....	5	.....	8	.....	nnw.	1 h'r	1 h'r	long	nnw.	fair.
S. S. Main, Bremerhaven, Germany	.....	.....	.....	.....	.....	s;sw.	.....	.....	3.4	.....	7	.....	ssw.	0	0	.....	.....	cloudy.
S. S. Mosel, N. 48° 06′, W. 28° 07′	29.78	756.4	53	11.7	.....	w.	.....	.....	5	.....	4	.....	wsw.	1½h'r	1½h'r	mod.	w.	fair.
S. S. Neckar, N. 47° 00′, W. 31° 05′	29.80	756.9	51.8	11.0	.....	nw.	.....	.....	3	.....	5	.....	nw.	1 h'r	1 h'r	mod.	nw.	fair.
S. S. Ohio, N. 42° 07′, W. 53° 27′	30.03	762.7	.....	.....	.....	nnw.	.....	.....	6	.....	9	.....	nnw.	6 h'r	6 h'r	mod.	nnw.	cloudy.
S. S. Salier, N. 49° 16′, W. 10° 54′	29.81	757.2	50.9	10.5	.....	sw.	.....	.....	6	.....	5	.....	sw.	4 h'r	4 h'r	cross	sw.	fair.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 37° 32′, W. 142° 04′*†	29.91	759.7	63	17.2	83	sw.	.....	.....	3	.....	5	.....	sw.	sl't	sl't	long	w.	misty.
S. S. Belgic, Hong Kong, China†	29.91	759.7	78	25.6	95	ne.	.....	.....	1	.....	10	.....	nne.	rain	rain	sm'h	.....	cloudy.
S. S. Gaelic, N. 31° 10′, E. 131° 13′†	29.93	760.2	71	21.7	85	var.	.....	.....	2	.....	2	.....	w.	.....	.....	slight	se.	clear.
S. S. Oceanic, N 43° 43′ W. 138° 02′*	30.19	766.8	54	12.2	93	nw.	.....	.....	1	.....	7	.....	nw.	.....	.....	2	w.	fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga†	30.05	763.3	.....	.....	.....	ne.	.....	.....	1	.....	3	.....	ne.	.....	.....	.....	.....	clear.
S. S. City of Columbus, New York, N. Y.†	30.07	763.8	.....	.....	.....	ssw.	.....	.....	4	.....	6	.....	.....	0	0	.....	.....	cloudy.
S. S. Seminole, N. 38° 43′ W. 73° 44′†	30.14	765.5	54	12.2	73	ssw.	.....	.....	1	.....	1	.....	sw.	0	0	sm'h	se.	clear.
OREGON IMPROVEMENT COMPANY.																		
S. S. Willametta, N. 39° 05′, W. 123° 52′†	30.06	763.5	53	11.7	86	nnw.	.....	.....	6	.....	3	.....	nnw.	0	0	mod.	nnw.	hazy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, Portland, Oregon..†	30.07	763.8	54	12.2	93	calm	.....	.....	0	.....	10	.....	sw.	.....	.....	.....	.....	fair.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 33° 46′, W. 118° 31′†	29.89	759.2	59	15.0	82	ene.	.....	.....	2	.....	10	.....	se.	.....	.....	mod.	wnw.	cloudy.
S. S. State of California, N. 40° 36′, W. 124° 30′†	30.07	763.8	51	10.6	86	nnw.	.....	.....	5	.....	10	.....	nw.	.....	.....	short	nw.	overcast.
S. S. Victoria, N 49° 10′, W. 123° 56′†	29.90	759.5	46	7.8	84	calm	.....	.....	0	.....	2	.....	.....	.....	.....	sm'h	.....	drizzling.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. City of New York, S. 20° —′, W. 174° 48′†	29.91	759.7	79	26.1	86	nw.	.....	.....	2	.....	1	.....	sw	0	0	mod.	sw.	clear.
S. S. City of Pekin, N. 36° 21′, E. 179° 36′†	30.06	763.5	60	15.6	71	w.	.....	.....	5	.....	2	.....	w.	.....	.....	mod.	w.	clear.
S. S. City of Rio de Janeiro, N. 22° 56′, W. 108° 57′*†	30.05	763.3	72	22.2	80	e.	.....	.....	2	.....	0	.....	.....	0	0	long	w.	fine.
S. S. City of Sydney, S. 29° 36′, W. 179° 29′†	30.02	762.5	64	17.8	68	se.	.....	.....	3	.....	5	.....	e.	0	0	h'vy	se.	cloudy.
S. S. City of Tokio, N. 24° 59′, E. 122° 26′†	29.93	760.2	71	21.7	71	ne.	.....	.....	5	.....	10	.....	ne.	12 h'r	12 h'r	mod.	ne.	cloudy.
S. S. Clyde, N. 32° 19′, W. 119° 51′†	29.97	761.2	55	12.8	80	wnw.	.....	.....	5	.....	8	.....	nw.	0	0	long	wnw.	fair.
S. S. Colima, Panama, Panama†	29.89	759.2	77	25.0	?	calm	.....	.....	0	.....	4	.....	calm	0	0	.....	.....	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
PACIFIC MAIL STEAMSHIP COMPANY.—Continued.																		
S. S. Grenada, N. 34° 07′, W. 119° 26′†.	29.90	759.4	58	14.4	88	wsw.			2		0			0	0	light	w.	clear.
S. S. South Carolina, La Union, San Salvador†	29.97	761.2	86	30.0	76	nne.			1		1		nne.	0	0	sm'h		
S. S. Zelandia, Sydney, N. S. W.	30.05	763.3	55	12.8	80	w.			2		0							clear.
QUEBEC STEAMSHIP COMPANY.																		
S. S. Muriel, N. 11° 30′, W. 60° 30′.	29.95	760.7	82	27.8		ene.			4		2			light	light	long	e.	fair.
RED STAR LINE.																		
S. S. Belgenland, Flushing, Netherlands†	30.24	768.1	68	20.0	94	ssw.			5		1		sw.	0	0	sm'h	e.	clear.
S. S. Rhynland, N. 43° 56′ W. 43° 16′.	29.91	759.7	50	10.0	86	ene.			3		10		ene.	0	0	mod.	ene.	dull.
S. S. Switzerland, N. 48° 04′ W. 21° 55′†.	29.74	755.4				w.			3		5		w.	0	0	long	wnw.	fair.
S. S. Vaderland, N. 51° 13′, E. 4° 23′.	29.95	760.7	64	17.8	78	s.			4		2		ssw.	0	0			fair.
S. S. Waesland, N. 45° 09′, W. 31° 31′.	29.89	759.2	58	14.4		nw.			4		10		nnw.	shr's	sh'rs	long	n.	cloudy.
ROTTERDAM LINE.																		
S. S. Schiedam, N. 41° 24′ W. 65° 57′*.	30.12	765.0	52.5	11.4		calm			0					0	0	mod.		clear.
S. S. W. A. Scholten, N. 45° 59′ W. 36° 40′.	29.71	754.6	51.5	10.8	96	wnw.			3		5		w.	0	0	mod.	nne.	fair.
STATE LINE.																		
S. S. State of Florida, N. 50° 55′ W. 23° 56′.	29.49	749.0	52	11.1		wnw.			6		9		nw.	0	0	r'gh	wnw.	cloudy.
S. S. State of Indiana, N. 40° 44′ W. 63° 00′†.	29.96	761.0	62	16.7					1		3			0	0	sm'h		clear.
THINGVALLA LINE.																		
S. S. Thingvalla, Copenhagen, Denmark†	30.41	772.4	66.2	19.0		se.			3		2		se.	0	0			clear.
WARREN LINE.																		
S. S. Iowa, N. 51° 08′, W. 10° 05′*†.	29.80	756.9	56	13.3		ssw.			6		4		ssw.	1 h'r	1 h'r	hv'y	ssw.	clear.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 49° 53′, W. 9° 46′†.	29.76	755.9									3		sw.	3 h'r	3 h'r	6	sw.	blue sky.
WHITE STAR LINE.																		
S. S. Baltic, N. 41° 36′ W. 54° 59′†.	30.16	766.1	47	8.3	92	nw.			3		5		nw.	5 h'r	5 h'r	sm'h	nw.	d. clouds.
S. S. Britannic, N. 51° 18′, W. 13° 37′†.	29.61	752.1	52	11.1	86	sw.			6		2		sw.	0	0	high	sw.	d. clouds.
S. S. Celtic, N. 40° 45′ W. 67° 20′.†.	30.17	766.3	53	11.7	73	var.			1		0			0	0	sm'h		fine.
S. S. Germanic, N. 50° 02′, W 20° 51′†.	29.63	752.6	51	10.6		w.			5		2		w.			long	nw.	d. clouds.
S. S. Republic, N. 40° 51′, W. 61° 41′†.	30.30	769.6	62	16.7	71	ene.			2		3		e.	0	0	mod.	ese.	blue sky.
WILSON LINE.																		
S. S. Otranto, N. 45° 19′, W. 32° 40′†.	29.98	761.5	59	15.0		s.			4		5		e.			long	wnw.	clear.
MISCELLANEOUS.																		
Sch. Addie Fuller, Newport News, Va†	30.13	765.3	61	16.1	88	s.			3	0	0			0	0			clear.
Bk. Adelaide, N. 13° 23′, W. 54° 46′*†.	30.04	763.0	84	28.9		ene.			5		2		ne.			rg'h	ene.	rainy.
Schr. Ajax, N. 28° 00′, W. 93° 33′†.	29.89	759.2				sse.			3		5?		se.	0	0	mod.	se.	cloudy.?
Bk. Alpha, Guanatamo, Cuba, W. I.†.	29.92	760.0	82	27.8		n.			1		3		ne.	1 h'r	1 h'r			fair.
Sch'r Annie R. Lewis, N. 27° 00′, W. 92° 59′†.	29.86	758.4	79	26.1		se.			5		2		se.	0	0	short	e.	clearing.
Bk. Annie Thorman, N. 7° 41′, W. 26° 21′.	30.00	762.1	82.6	28.1	76	nne.			3		6 k		ne.	0	0	mod.	ne.	fair.
Bk. Antioch, S. 35° 20′ E. 151° —′*†.	29.95	760.7	62	16.7		n.			2		0			0	0	sm'h		clear.
S. S. Antonio Lopez, N. 42° 54′ W. 19° 28′*.	30.00	762.0	62.5	16.9	83	sw.			1		1 k			0	0	long	nw.	fair.
Bk. Aureola, Rio de Janeiro, Brazil*†.	30.09	764.3	80	26.7		nw.			1		5		sw.	0	0			hazy.
Schr. Annie M. Smull, N. 2° 40′, E. 106° 24′*†.	29.90	759.4	89	31.7		sw.								0	0			
Bk. Bergenseren, N. 45° 30′ W. 18° 30′†.	29.85	758.2				wsw.			6				wsw.	light	light	6	nnw.	clear.
S. S Compton, Philadelphia, Pa†	30.01	762.2				se.			1		10			0	0			cloudy.
C. R. Flint, Cedar Keys, Florida†	30.11	764.8	84	28.9		ne.			2		2		ene.	0	0			fair.
Schr. Edith R. Seward, N. 35° 20′, W. 74° 45′*†.	30.28	769.1	76	24.4		ne.			1		2		ene.	0	0	short	ne.	clear.
S. E. J. Spicer, London, Eng.†.	30.12	765.0				w.			6		5		w.	shr's	shr's			
Essex, N. 35° 04, W. 48° 14′*†.	30.16	768.1	71	21.7		sw.			4		2		sw.	¼ h'r	¼ h'r	long	nw.	clear.
S. Exporter, S 42° 10′, W. 29° 20′*†.	30.30	769.6				ssw.			6		8		sw.	0	0	short	sw.	cloudy.
Bk. Freya, N. 55° 26′, W. 10° 28′†.			54	12.2		s.			9		8		s.	4 h'r	4 h'r	hv'y	ssw.	squally.
S. Grecian, S. 0° 40′, E. 107° 29′*†.	29.85	758.2	82	27.8		nw.			1		4		w.	c	0	sm'h	wsw.	clear.
Bk Hattie G. McFarland, N. 44° 44′, W. 61° 23′*†.	30.09	764.3	42	5.6		wsw.			1		5		w.	0	0			fair.
S. Ismir, N. 0° 45′W 32° 58′†.	29.97	761.2				ese.			3		6		ese.			r'gh	s.	fine.
James Slater, N. 33° 11′, W. 58° 07′*†.	30.40	772.1	76	24.4		ese.			2		8			0	0	mod.	s.	
Bk. Johanne, N. 52° 21′, E. 3° 20′*†.	30.15	765.8	62	16.7		s.			2		0			0	0	sm'h		fine.
Schr. John L. Thomas, Albuquerque Cays, C. A*†.	29.98	761.5				e.			1		4		ese.	¼ h'r	¼ h'r			threatening.
Bkt. Josephine, Guanatamo, W. I *†.	30.09	764.3	83	28.3	79	calm			0		8			1 h'r	1 h'r			cloudy.
Bk. Julia H., Havana, Cuba, W. I.	29.90	759.4	75.9	24.4	90	e.			1		4 s;ks		n.					d. clouds.
Light House Tender, Laurel, Pensacola Bay, Fla†	29.94	760.5	76	24.4		sse.			3		7		sse.	0	0			cloudy.
Schr. Maggie Abbot, N. 28° 44′, W. 71° 28′†*.	29.89	759.2				e.			4		10			rain	rain	mod	e.	overcast.
S. S. Malabar, N. 11° 53′, E. 111° 09′*†.	29.80	756.9														sm'h		clear.
S. Minnie N. Gerow, N. 40° 45′. W. 27° 59′*†.	29.98	761.5				w.			4		3		w.			mod.	w.	clear.
S. M. P. Grace, Sandy Hook, N. J.			50	10.0		sse.			4				ssw.	0	0	mod.	ese.	cloudy.
S. Paramita, S. 26° 21′, W. 39° 13′†.	29.88	758.9	79	26.1		nne.			3		2		ne.	1 h'r	1 h'r	long	sse.	clear.
Bk. Pawashick, N. 39° 59′ W. 44° 02′*†.	30.20	767.1	66	18.9	94	wsw.			5		8		wnw.			mod.	w.	cloudy.
Bk. Peppina, Bordeaux, France†.	30.09	764.3	72	22.2	67	s.			2		5?		sw.					cloudy.?
S. S. Ponca, N 2° 00′, W. 48° 46′*†.	29.97	761.2	84	28.9		ene.			2		6		ese.	4 h'r	4 h'r	mod.	e.	fair.
Bk. Princessen, N. 48° 06′ W. 14° 38′†.	29.78	756.3	56	13.3		sw.			4		2			2 h'r	2 h'r	high	wsw.	fair.
Bk. Rosebud, N. 12° 02′, W. 24° 38*†.	30.05	763.3	79	26.1	78	ne.			3		5			0	0	sta'h		fine.
S. Salisbury. S. 40° 05′, E. 47° 03′*.	30.43	772.8	43.2	6.2	82	ese.			8		5		ese.	0	0	hv'y	sw.	fair.
Bkt. Spotless, S. 7° 55′, W. 34° 22′*†.	29.80	756.9				sw.							se.			hv'y	se.	squally.
Bk. Truro, N. 49° 30′ W. 0° 30′*†.	30.10	764 5				ssw.			2		2		sw.	0	0	sm'h		clear.
U. S. F. C. S. FishHawk, Havre de Grace, Md†	30.17	766.3	58	14.4	76	sse			3		10		sse.	0	0			cloudy.
Yacht Vega, Nevis Id., W. I.*†.	30.20	767.1	80	26.7		ese.			3				ese.	0	0	long	ene.	
S. S. Victoria J. Reed, Barranquilla, U. S. C.*†.	29.11	739.4				s.			2		1							
Schr. Viola Reppard, Brunswick, Ga†	29.88	758.9	80	26.7		ese.			3		1		sse.	0	0			fair.
Bk. Wm. Wilcox, N. 24° 30′, W. 37° 00′*†.	30.40	772.1	74	23.3		nnw.			3		8		ene.	0	0	sm'h		fair.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 28, 1882,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.11	764.9	74.8	23.8	74	sw.			2		0			0	0	clear	Moiroud
Algiers			30.10	764.4	71.2	21.8	64	e.			1		0			0	0	clear	Nicolas.
La Galle			30.05	763.3	86.0	30.0	42	ene.			1		1			0	0	very fair	Fonfrède.
Tunis			30.06	763.5															Jacques.
Saida			30.17	766.4															Dumas.
Tebessa			30.17	766.3	88.2	31.2	11	se.			3		0			0	0	clear	Derché.
Geriville					89.6	32.0	11	se.			8		4			0	0	cloudy	Louchamp.
Laghouat			30.16	766.1	89.6	32.0	33	e.			3		0			0	0	clear	Abraham.
Biskra			30.16	766.1	102.2	39.0	8	se.			1		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.90	759.4	29.99	761.7	51.0	10.6	86	nne.	4	1.8			1			0.02	0.5	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.68	753.8	30.21	767.2	79.2	26.2	43	e.			3		5			0	0		Prof. Ivan Stozir.
Cracow, I. R. Observatory	29.52	749.8	30.28	769.0	68.7	20.4	72	n.	8.7	3.9			3			0	0		Dr. Wierzbiski.
Eperies	29.30	744.2	30.15	765.8	72.5	22.5	56	n.			3	0	8 ks			0	0		Julius Mikolik.
Gratz	29.01	736.9	30.23	767.8	69.4	20.8	86	se.			1		3			0	0		Andreas Rospini.
Hermannstadt	28.72	729.6	30.09	764.2	79.7	26.5	29	nw.			2		4			0.878	22.3		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.90	734.0	30.18	766.6	77.5	25.3	56	ene.			1	2 c	0			0	0	fair	The Staff.
Lemberg	29.19	741.5	30.16	766.0	66.0	18.9	75	ne.			2		8			0.276	7.0		Dr. T. Stanecki.
Pola	30.12	765.0	30.23	767.8	79.2	26.2	53	wnw.			2		3			0	0		I. R. Hydrographic Office.
Szathmar	29.66	753.3	30.11	764.8	78.4	25.8	79	nw.			3		0			0	0	thunder	Joseph Midlinszky, S. J.
Szegedin	29.85	758.3	30.12	765.1	78.4	25.8	42	nw.			2		5			0	0		Karl Stancel.
Trieste	30.13	765.4	30.24	768.0	82.4	28.0	45	sw.			1		4			0	0		Rieder.
Vienna	29.57	751.0	30.26	768.6	75.9	24.4	31	n.			2		2			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.84	757.9	29.94	760.5	55.0	12.8	84	s.	22	9.8			6			0.080	2.0	showery	W. Boswell
Armagh, Observatory	29.72	754.9	29.96	761.0	58.0	14.4	57	sw.	20	8.9									S. Oall.
Bidston, Liverpool Obs'y			30.06	763.5	65.4	18.6	59	sw.	22	9.8			2					blue sky	John Hartnup.
Bolton, Sharples	29.54	750.3	30.07	763.8	58.3	14.6	71	ssw.	12	5.4			8					d. clouds	Thomas Mackereth. [A.S.
Bradford, Yorkshire																0.02	0.5		J. McLandsborough, F. R
Bridgetown, Barbadoes	30.01	762.2	30.04	763.0	84.0	28.9	71	ne.			3		3					d. clouds	Corpl. J. Surgenor, A. H.C.
Cardington			30.14	765.5	69.0	20.6	62	s.			1.0		8					overcast	John McLaren.
Chatham, School M. E.	30.06	763.5	30.19	766.8	67.9	19.9	58	sw.			1		8					d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.94	760.5	30.17	766.3	61.7	16.5	68	ssw.			3		10					overcast	The Staff.
Fort Napier, Natal	27.45	697.2	29.67	753.6	62.0	16.7	53	calm			0		0					blue sky	Pvt. E. K. Annis, A.H.C.
Free Town, Sierra Leone	29.60	751.8	29.83	757.7	88.0	30.6	62	nw.			1		3					raining	Sergt. John Robinson.
Gibraltar, Mediterranean	30.07	763.8	30.12	765.0	74.8	23.8	77	e.			1		0					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.65	753.1	29.85	758.2	60.5	15.8	57	sw.			5		5 k					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.00	762.0	30.17	766.3	71.8	22.1	56	ssw.			1		8					d. clouds	The Staff.
Guernsey	29.94	760.5	30.24	768.1	58.2	14.6	87	ssw.			1		10					drizzling	A. Collenette, F. M. S.
Kew, Observatory	30.15	765.8	30.18	766.6	66.6	19.2	54	sw.	10	4.5			8					d. clouds	The Staff.
Leicester, Museum	29.83	757.7	30.08	764.0	59.9	15.5	81	sw.			1		9					overcast	J. O. Smith.
Malta, Mediterranean	30.08	764.0	30.16	766.1	76.8	24.9	61	sw.			2		0					blue sky	I. H. Whysall.
Nassau, Bahamas	30.00	762.0	30.04	763.0	80.5	26.9	82	nw.			1		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.61	752.1	30.13	765.3	62.9	17.2	63	ssw.			3		7					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.93	760.2	30.16	766.1	65.6	18.7	57	ssw.			2		7					d. clouds	The Staff.
Plymouth	30.10	764.5	30.17	766.3	59.4	15.1	87	s.			2		10					misty	John Merrifield.
Sandwick Manse, Orkneys			29.85	758.2	56.8	13.8	62	sse.	25	11.2			6					d. clouds	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	30.05	763.3	30.12	765.0	73.8	23.2	49	ne.			2		1					blue sky	W. H. Lyne.
Sheffield	29.82	757.4	30.10	764.5	63.3	17.4	60	sw.			3		5			0	0	d. clouds	W. F. Cooper.
Stilton Rectory	30.00	762.0	30.03	762.7	61.0	16.1	67	sw.			5		6			blank	blank	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.08	764.0	61.6	16.4	52	sw.	16	7.2			7					d. clouds	J. New.
Stratfield Turgiss	29.97	761.2	30.19	766.8	64.7	18.2	70	sw.			3		4					d. clouds	Rev. G. H. Griffiths, F.M.S
Truro, Royal Institution	30.14	765.5	30.15	765.8	68	20.0	60	sw.			6		4					d. clouds	W. Newcombe.
Valencia, Observatory	29.99	761.7	30.02	762.5	57.1	13.9	77	sw.	23	10.3			6			blank	blank	d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.															calm	inap.	inap.	sprinkling	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.99	761.7	30.03	762.7	46	7.8	87	s.	2	0.9			10 n		s.	0.14	3.6	light rain	H. J. Cundall, C. E.
Chatham, N. B*	29.94	760.5	30.00	762.0	46	7.8	93	s.	1	0.4			10 n		e.	inap.	inap.	light rain	G. A. Blair.
Father Point, Quebec*	29.89	759.2	29.91	759.7	42	5.6	92	ne.	20	8.9			10 n					light rain	J. McWilliams.
Fort Garry, Manitoba*																			
Halifax, N. S*	29.94	760.5	30.07	763.8	45	7.2	89	se.	2	0.9		10 k	0			0	0	cloudy	A. Allison.
Kingston, Ontario*	29.42	747.3	29.75	755.6	54	12.2	93	e.	4	1.8			10 n		ne.	0.46	11.7	light rain	A. P. Knight, M. A.
Montreal, Quebec*	29.53	750.0	29.73	755.1	51	10.6	96	ne.	17	7.6			10 n			0.28	7.1	light rain	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.16	740.7	29.85	758.2	51	10.6	52	n.	17	7.6		0	2 ks		ne.	0	0	fair	Rev. R. Mosley.
Port Dover, Ontario	29.11	739.4	29.79	756.7	51	10.6	93	ne.	3	1.3			10 ks		sw.	0.88	22.4	cloudy	H. Morgan.
Port Stanley, Ontario	29.16	740.7	29.80	756.9	52	11.1	90	n.	1	0.4			10 n		ne.	1.02	25.9	cloudy	M. Payne.
Quebec, Quebec*	29.48	748.8	29.81	757.2	46	7.8	93	ne.			6		10 n		e.	0.13	3.3	light rain	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.40	746.7	29.86	758.4	49	9.4	74	w.	4	1.8		5 ck	0	w.		0	0	fair	W. H. McIntyre.
Saugeen, Ontario*	29.12	739.6	29.83	757.7	49	9.4	77	ne.	13	5.8		2 k	0			0.03	0.8	clear	
St. Andrews, N. B	29.87	758.7	29.92	760.0	43	6.1	94	se.	3	1.3			10 n			0.14	3.6	light rain	
Sydney, C. B*	30.01	762.2	30.07	763.8	54	12.2	74	calm	0	0		4 cs	0			0	0	fair	T. C. Hill, C. E
Toronto, Ontario*	29.42	747.3	29.80	756.9	52	11.1	74	n.	4	1.8			10 s		sw.	0.35	8.9	cloudy	Magnetic Observatory.
Yarmouth, N. S*	29.89	759.2	29.96	761.0	48	8.9	96	se.	6	2.7			10 s		se.	0.01	0.3	light rain	Lt. F. E. Wilmot, R. N
Sub-series.																			
St. Johns, Newfoundland	30.01	762.2	30.26	768.6	52	11.1	73	sw.				5 k	5 s			0	0		John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.12	765.0	30.15	765.8	61.0	16.1	67	w.	7.2	3.2			10 n			0.060	1.5	dense haze	John Duthie.
Cape Town, C. G. H. Obs'y	29.96	761.0	30.00	762.0	66.2	19.0	48	ssw.	10	4.5		0	0			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.88	758.9	29.91	759.6	66.2	19.0	88	s.	3.8	1.7		0	2			0	0	clear	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	30.26	768.6	30.31	769.8	69.4	20.8	52	s.	18	8			2						Oversergent Fischer.
Fanöe	30.24	768.1	30.26	768.6	63.5	17.5	76	sse.			4		9						Overloerer Lauridsen.
Godthaab, Greenland	30.04	762.9	30.08	764.0	35.6	2.0	84	sw.			2		9			0.004	0.1		S. Kleinschmidt.
Stykkisholm, Iceland	29.69	754.0	29.73	755.1	37.6	3.1	81	calm			0		5						A. O. Thorlacius.
Thorshavn	29.68	753.9	29.72	754.8	53.6	12.0	83	s.	9	4			8						Overloerer Bergh.
Vestervig	30.16	766.1	30.25	768.4	62.8	17.1	76	ssw.			4		3						Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.58	751.4	30.21	767.3	72.7	22.6	72	calm			0		kn		w.	0	0		M. Labroue, Director.
Alençon, Normal School	29.64	752.9	30.19	766.9	65.5	18.6	69	se.			1		n		s.	0	0		M. Nicot, Director.
Arras, Engineer School	29.88	759.0	30.13	765.3	75.0	23.9	49	ssw.			2		kn			0	0		M. Fénéon, Command't.
Avignon, Normal School	30.04	763.0	30.12	765.0	81.3	27.4	56	calm			0					0	0		M. Giraud, Director.
Bar-sur-Seine	29.63	752.5	30.17	766.3	67.1	19.5	38	s.			1		5			0	0		M. Saillard, Director.
Beauvais, Normal School	29.94	760.4	30.19	766.9	76.8	24.9	48	se.			1		8		sw.	0	0	very cloudy	M. Frère Eugène Marl.
Besançon, Normal School	29.19	741.3	30.03	762.8	79.2	26.2	62	ne.			1	2 c	0	se.		0	0	slightly cl'dy	M. Goblin, Director.
Bordeaux, Observatory	29.91	759.7	30.17	766.2	64.6	18.1	93	wnw.			1		8		sw.	0.705	17.9	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.65	753.1	30.19	766.7	73.4	23	55	ne.			1	ck	0	ne.		0	0		M. Postel, Director.
Brest, Naval Observatory	30.00	761.9	30.24	768.1	66.6	19.2	77	sw.			2		7		sw.	0	0		M. de Kermaree, Dir.
Caen, Normal School	30.16	766.0	30.23	767.9	64.0	17.8	57	nw.			1		10		nw.	0	0	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.78	756.3	30.09	764.2	78.1	25.6	45	se.			1		2		s.	0	0	slightly cl'y	M. Jadot, Director.
Charleville, Normal School	29.66	753.3	30.16	766.0	76.6	24.8	45	sse.			1		5			0	0	½ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.80	731.4	30.09	764.2	80.1	26.7	48	ese.			1		8			0	0	¾ covered	M. Allnard, Director.
Cluny, Normal School	29.30	744.3	30.14	765.5	74.5	23.6	72	e.			1		3		nne.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.33	744.9	30.18	766.5	77.9	25.5	41	sse.			1		5 ks	sse.	sse.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.67	702.7	30.08	763.9	83.5	28.6	21					0	1 n		n.	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	29.10	739.0	30.16	766.1	87.3	30.7	25	se.			2		5		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.37	746.0	30.11	764.8	77.2	25.1	62	se.			1		kn		s.	0	0		M. Ablard, Director.
Guéret, Normal School	28.64	727.5	30.17	766.2	63.5	17.5	72	nw.			1		2		w.	0	0	slightly cl'dy	M. Rivoire, Director.
Lamballe, Normal School	29.89	759.2	30.17	766.2	61.7	16.5	80	se.			1		10		se.	0	0	covered	M. Ollitrault, Director.
Lescar, Normal School	29.65	753.1	30.21	767.3	64.8	18.2	77	ne.			3		10			0	0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	30.16	766.0	30.27	768.8	61.9	16.6	87	s.			1		10		s.	0.031	0.8	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.11	739.5	30.13	765.4	77.9	25.5	56	se.			1	8 c	0	sw.		0	0	¾ covered	M. André, Director.
Mans, Normal School	29.92	760.0	30.23	767.8	63.5	17.5	90	nnw.			1		8		w.	0	0	very cloudy	M. Piboen, Director.
Marseille, Observatory	29.87	758.6	30.13	765.3	79.3	26.3	53	wnw.			1		7		wnw.	0	0		M. Stephan, Director.
Montlouis	25.02	635.5	29.80	758.5	60.8	16.0	43	sw.	9.4	4.2			0			0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	30.04	763.0	30.17	766.2	77.7	25.4	58	s.			2		5			0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	29.41	746.9	30.16	766.1	77.4	25.2	50	nne.			1	ck	0			0	0		M. Hasse, Director
Nantes, Observatory	30.11	764.9	30.28	769.0	55.4	13	83	nw.			0–1		10					rainy	M. Larocque, Director.
Perpignan, Observatory	30.06	763.5	30.17	766.2	75.4	24.1	39	s.	13.0	5.8			10			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.48	545.7			47.7	8.7		sw.			1		5		sw.	0	0	cloudy	Gen'l de Nansouty, Dir.
Privas, Normal School	29.11	739.3	30.14	765.5	72.7	22.6	71	s.			1			n.	ne.	0	0		M. Tallieu.
Puy de Dôme Obs'y, Summit	25.38	644.7			60.8	16.0	78	se.			2		8			0	0	¾ covered	M. Allnard, Director.
Rochefort, Naval Obs'y	30.15	765.9	30.19	766.7	69.3	20.7	91	w.			1		8		w.	0.047	1.2	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.97	761.2	30.18	766.6	61.9	16.6	81	nw.			1		5		nw.	0.071	1.8	cloudy	M. Mouillot, Director.
Rodez, Normal School	28.05	712.5	30.14	765.6	71.6	22	60						5		s.	0	0	cloudy	M. Serger, Director.
Rouen, Normal School	30.12	765.1	30.17	766.3	72.0	22.2	60	ssw.			1		5			0.098	2.5	cloudy	M. Brotier.
Saint Maur, Observatory	30.02	762.6	30.19	766.8	73.8	23.2	54	s.			1		10			0	0		M. Renou, Director.
Toulouse, Observatory	29.48	748.8	30.21	767.3	72.1	22.3	49	se.			2		10			0	0	covered	M. Baillaud, Director.
Tours	30.02	762.5	30.20	767.0	69.1	20.6	71	sw.			1		10	sw.	sw.	0.315	8.0	rainy	
Versailles, Observatory	29.70	754.4	30.20	767.0	74.5	23.6	50	sw.			1					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.91	759.6	30.20	767.0	74.5	23.6	50	sw.			1.5		10		wnw.	0	0		M. Marié Davy, Director
GERMAN.																			
Bamberg	29.39	746.5	30.25	768.3	78.8	26.0	44	e.			1	0	3 k		se.	0	0		Prof. Dr. Hoh.
Berlin	30.11	764.7	30.28	769.0	75.9	24.4	46	se.			1		5			0	0		Prof. Dr. Arndt.
Breslau	29.83	757.7	30.37	771.4	68.9	20.5	46	n.			1		1			0	0		Royal University Obs'y.
Carlsruhe	29.74	755.4	30.17	766.2	78.8	26.0	50	e.			2		9	sw.		0	0		Albert Senz.
Cassel	29.46	748.3	30.17	766.4	80.6	27.0	43	e.			4		6	se.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.83	757.6	30.18	766.6	77.9	25.5	43	se.			2		2			0	0		Physical Society.
Friedrichshafen	28.77	730.8	30.17	766.2	70.5	21.4	71	sw.			2		1	wsw.		0	0		Wilhelm, Chief Tel.
Hamburg	30.21	767.4	30.31	769.8	73.8	23.2	39	ese.			3		4			0	0		E. Preller.
Kiel	30.28	769.1	30.30	769.5	69.1	20.6	55	nne.			2		5			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.87	758.8	30.28	769.2	77.2	25.1	38	e.			2		5	ese.		0	0		H. Leppig, Asst.
Magdeburg	30.10	764.5	30.28	769.1	77.5	25.3	36	e.			1	c	3 ks	w.	ene.	0	0		Dr. Assmann.
Memel	30.27	768.9	30.32	770.1	58.6	14.8	75	nw.			3	0	1 k						Issermann.
Munich	28.42	721.8	30.30	769.5	76.1	24.5	35	ne.			1		2	sw.		0.004	0.1		Central Station.
Neufahrwa-ser	30.35	771.0	30.37	771.4	64.4	18.0	51	n.			1		2			0	0		A. Lothes.
Neustadt, Palatinate	29.65	753.0	30.17	766.4	76.6	24.8	50	calm			0		2			0.079	2.0		Dicknether.
Stuttgart	29.24	742.6	30.09	764.2	78.8	26.0	39	e.			1		2	w.		0	0		Prof. Dr. Schoder.
Wustrow	30.34	770.7	30.37	771.3	69.4	20.8	50	n.			1	0	5 s			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.74	755.4			81.7	27.6		w.			2.5		1 k			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.68	753.8	29.73	755.0	85.9	30.5	80	w.	36.0	16.1			1			0	0	misty	
Deesa	29.17	741.0	29.62	752.4	103.7	39.8	33	wsw.					0			0	0	blue sky	
Bombay	29.68	753.8	29.72	754.8	87.1	30.6	70	nw.	24.0	10.7			2	wnw.		0	0	d. clouds	
Poona, Yarrowda	27.84	707.0	29.63	752.6	94.2	34.6	37	w.	28.0	12.5			7		wnw.	0	0	d. clouds	
Bellary	28.19	716.1	29.63	752.7	87.0	30.6	61	sw.	4.6	2.1			10			0	0	gloomy	
Belgaum	27.18	690.3	29.68	753.7	81.6	27.6	69	sw.	10.0	4.5			6	sw.	se.	0	0	misty	
Lahore	28.73	729.7	29.42	747.2	111.9	44.4	15	calm	1.2	0.5			0			0	0	blue sky	
Roorkee	28.62	726.9	29.47	748.4	103.9	39.9	30	calm	3.2	1.4			0			0	0		
Agra	28.92	734.6	29.45	748.0	111.1	43.9	14	w.	5.4	2.4			0			0	0		
Nagpur	28.55	725.3	29.54	750.3	105.7	40.9	18	sw.	6.3	2.8			8		w.	0	0	d. clouds	
Jubbulpore	28.25	717.6	29.54	750.4	102.1	38.9	14	w.	4.1	1.8			7			0	0	d. clouds	
Lucknow	29.14	740.2	29.50	749.4	99.4	37.4	45	calm	2.3	1.0			0			0	0	blue sky	
Allahabad	29.17	740.8	29.46	748.3	105.6	40.9	26	calm	3.4	1.5			0			0	0	blue sky	
Patna	29.36	745.8	29.54	750.3	98.3	36.8	54	ene.	7.5	3.4			2	ene.	ene.	0	0		
Hazaribagh	27.60	700.9	29.52	749.8	96.3	35.7	25	w.	11.7	5.2			8	w.	e.	0.20	5.1	thund'r st'm	
Cuttack	29.57	751.1	29.65	753.1	90.3	32.4	60	s.	5.7	2.6			0			0	0	blue sky	
Calcutta, Alipore	29.63	752.5	29.65	753.0	88.0	31.1	58	ssw.	15.0	6.7			0			0	0	blue sky	
Dhubri	29.51	749.6	29.63	752.6	78.7	25.9	90	n.	7.6	3.4			7		w.	2.09	53.1	gloomy	
Chittagong	29.67	753.6	29.76	755.8	84.7	29.3	80	s.	6.5	2.9			4			0	0	blue sky	
Sibsagar	29.38	746.4	29.72	754.8	82.5	28.1	85	sw.	3.7	1.6			10	w.	w.	0.01	0.3	d. clouds	
Jeypore	28.16	715.2	29.52	749.7	107.4	41.9	17	wnw.	11.8	5.3			0			0	0	misty	
Zanzibar, Africa	29.94	760.5			83.7	28.7	60	se.	5.9	2.6			8		sse.	0	0	d. clouds	
ITALIAN.																			
Udine	29.85	758.1	30.24	768.2	82.6	28.1	65	s.	1.8	0.8			2			0	0		Prof. Giovanni Clodig.
Milan	29.75	755.7	30.25	768.4	81.9	27.7	42	se.	4.9	2.2			2			0	0		Prof. Schiaparelli.
Padua	30.05	763.3	30.16	766.0	80.4	26.9	42	ese.	4.3	1.9			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.34	745.2	30.23	767.8	77.2	25.1	59	se.	1.8	0.8			7	n.		0	0		Prof. P. F. Denza.
Genoa	30.03	762.8	30.22	767.6	81.5	27.5	46	nw.	3.8	1.7			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.38	720.9	30.32	770.0	76.5	24.7	39	nnw.			2		1	nw.		0	0		Prof. D. O. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
ITALIAN.—Continued.																			
Pesaro	30.20	767.0	30.24	768.2	71.6	22.0	66	n.	8.1	3.6			0			0	0		Prof. Luigi Guidi.
Florence	29.93	760.1	30.17	766.4	85.6	29.8	34	ne.			2		0			0	0		Prof. Costantino Pitter.
Leghorn	30.04	763.1	30.13	765.2	75.9	24.4	55	wnw.	3.1	1.4			1			0	0		Prof. P. Monte.
Rome	30.00	762.1	30.17	766.4	84.2	29.0	37	wsw.	8.7	3.9			1			0	0		Prof. P. S. Ferrari.
Lecce	29.91	759.6	30.16	766.0	74.8	23.8	44	nnw.	9.8	4.4			0			0	0		Prof. C. de Giorgi.
Cosenza	29.28	743.6	30.14	765.5	81.7	27.6	79	wsw.	1.3	0.6			0			0	0		Prof. D. Conti.
Cagliari	29.90	759.5	30.09	764.3	74.1	23.4	66	ssw.			4		0			0	0		Prof. A. Pacinotti.
Palermo	29.94	760.5	30.19	766.7	75.9	24.4	50	ne.	5.6	2.5			0			0	0		Prof. G. Cincolatore.
Syracuse	30.06	763.5	30.10	764.6	78.3	25.7	47	ese.	3.8	1.7			7	sw.		0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.63	752.5	30.13	765.3	80.6	27.0	55	e.	3.1	1.4			0			0	0		Prof. T. Brioschi.
Stelvio	22.53	572.2			48.6	9.2	62	sw.			4		2			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.57	573.2			51.6	10.9	66	ne.			2		8			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.88	758.9	29.92	759.9	49.0	9.4	79	ese.	1.1	0.5			10 s			0	0	overcast	K. Ogawa.
Hakodate	29.93	760.2	29.94	760.5	48.0	8.9	86	e.	12.0	5.4			10		se.	0.025	0.6	raining	
Hiroshima, I. M. Obs'y	29.79	756.6	29.80	756.9	62.2	16.8	83	nne.	2.2	1.0		0	0			0	0	clear	J. Sogawa.
Kanazawa	29.80	756.9	29.90	759.4	55.2	12.9	90	ene.	5.1	2.3		10ck;cs	0	e.		0	0	cloudy	S. Endo.
Kioto	29.70	754.4	29.87	758.7	57.1	13.9	76	nw.	2.5	1.1		7ck;cs	0			0	0	fair	M. Tojima.
Kochi	29.82	757.4	29.84	757.9	65.0	18.3	82	nw.	2.3	1.0		2ck;cs	0	nw.		0	0	clear	K. Kusunose.
Nagasaki, I. M. Obs'y	29.65	753.1	29.85	758.2	63.5	17.5	71	nne.	1.9	0.8		0	0			0	0	clear	S. Takehayashi.
Niigata	29.87	758.7	29.90	759.4	55.0	12.8	80	nne.	4.1	1.8		3 ck	7 cks	sw.	s.	0	0	cloudy	M. Morita.
Nobiru	29.90	759.4	29.92	759.9	50.0	10.0	84	e.	11.2	5.0			10 s			0	0	covered	H. Midzushina.
Supporo					49.0	9.4	93	se.	6.0	2.7			10			0.532	13.5	cloudy	The Staff.
Tokei Obs'y, Yeddo	29.80	756.9	29.87	758.7	57.7	14.3	80	ene.	9.2	4.1			10 ks		e.	c	0	cloudy	Y. Kuwamuea.
Wakayama	29.78	756.4	29.84	757.9	61.9	16.6	68	n.	3.9	1.7		10ck;cs	0	wsw.		0	0		
MAURITIUS																			
Mauritius Observatory	29.84	757.9	30.03	762.7	76.0	24.4	55	ene.	8.5	3.8		0	2 k		ene.	0	0	clear	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.63	600.1	29.85	758.1	59.5	15.3	97	calm	0	0		2 cs	0			0	0	light fog	Prof. Vicente Fernandez.
Leon	24.22	615.2	29.85	758.2	61.3	16.3	84	se.			1	8 c	0	sw.		0	0	cloudy	Prof. M. Leal.
Mazatlan	29.65	753.1	29.91	759.7	70.0	21.1	87	e.	0.9	0.4		0	1 ks		sw.			light haze	F. Quijano, C. E.
Mexico, Central Obs'y	23.06	585.7	30.04	763.0	58.1	14.5	84	calm	0	0		0	9 k		e.	0.028	0.7	cloudy	The Staff.
Morelia	23.99	609.3	29.99	761.7	61.2	16.2	63	w.			2	1	1	s.	s.	0.190	4.8	clear	M. Tena, M. D.
Pabellon, Aguascalientes	23.90	607.0	29.86	758.3	60.6	15.9	69	sw.			1					0	0		M. Y. de Leon, M. E.
Puebla, Catholic Institute	23.38	593.9	30.06	763.5	58.1	14.5	76	calm	0	0		0	5		s.	0.493	12.5	cloudy	Prof. P. Spina.
San Luis Potosi	24.20	614.6	29.97	761.2	68.2	20.1	45	w.			1	0	0			0.693	17.6	clear	G. Barroeta, M. D.
Zacatecas	22.52	572.0	30.05	763.3	57.2	14.0	55	sw.	10.0	4.4		4 ck	0			0	0	½ clouded	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.18	766.6	30.18	766.6	75.2	24.0		ese.			2					0.024	0.6		
Groningen	30.17	766.3	30.22	767.7	71.8	22.1		s.			2					0.012	0.3		
Helder	30.19	766.7	30.19	766.7	66.6	19.2		se.			1					0	0		
Hellevoetsluis	30.18	766.5	30.18	766.5	77.0	25.0	56	sw.			1					0.008	0.2		
Utrecht	30.15	765.8	30.20	767.0	77.2	25.1	41	sse.			2		2			0	0	slightly cl'dy	H. van der Brink.
NORWEGIAN.																			
Bergen	30.01	762.3	30.08	763.9	49.1	9.5	78	s.	18	8			10			0	0		
Brono	29.99	761.7	30.03	762.7	61.0	16.1	60	calm	0	0			2			0	0		
Christiania	30.00	761.9	30.14	765.6	63.5	17.5	85	ssw.	7	3			7			0.012	0.3		
Gjæsvær	30.02	762.6	30.05	763.2	38 5	3.6		wnw.			6		10					rain and fog.	
Lodingen	29.98	761.6	30.03	762.8	49.3	9.6	93	wsw.			2		10			0.051	1.3		
PORTUGUESE.																			
Angra, Azores					62.6	17.0	90	wsw.	11.2	5.0			4			0	0		Dr. J. A. Sampaio.
Campo Major	29.10	739.2	30.08	763.9	75.2	24.0	47	wnw.	0.7	0.3			6			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.16	766.0	30.24	768.2	68.2	20.1	55	sw.	4.9	2.2			6			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.83	757.6	30.19	766.7	67.1	19.5	57	n.	12.5	5.6			2			0	0		The Staff.
Ponta Delgada, Azores	30.17	766.3	30.24	768.1	66.9	19.4	68	wsw.	14.3	6.4			4			0	0	foggy	
Saint Paul de Loando	29.75	755.6	29.95	760.7	75.9	24.4	87	nnw.	0.7	0.3			9			0	0		
Serra da Estrella	25.46	646.6	30.13	765.3	56.7	13.7	59	sse.	16.1	7.2			7			0	0		
RUSSIAN.																			
Akmolinski	28.86	733.0	29.91	759.7	61.9	16.6	80	ne.	4	2			10 n			0.075	1.9		Major K. Lasarew.
Archangel	29.82	757.4	29.84	757.9	55.2	12.9	74	wnw.	18	8			9 ks			0	0		Capt. Sseliwerstow.
Astrakhan	30.12	765.1	30.04	763.0	76.5	24.7	63	s.	4	2			9 ks			0	0		Capt. Wisganow.
Barnaul	29.40	746.7	29.89	759.2	56.3	13.5	88	wnw.	2	1			10			0.256	6.5		Meteorological Obs'y.
Dorpat	29.95	760.7	30.19	766.7	72.1	22.3	46	wnw.	7	3		6 ck	0			0	0		Observatory.
Ekaterinburg	29.06	738.1	30.01	762.2	58.8	14.9	88	calm	0	0			10			0.106	2.7	light rain	Meteorological Obs'y.
Kasan	29.74	755.5	30.00	761.9	84.2	29.0	25	wsw.	2	1		0	5 k			0	0		Observatory.
Kertch	29.99	761.8	30.01	762.3	63.5	17.5	92	se.	13	6		0	8 n			0.709	18.0		Lagorio & Sastyres.
Kieff	29 43	747.5	30.03	762.8	79.5	26.4	26	e.	2	1		ck	5 ks			0	0		Observatory.
Lugan	29.89	759.2	30.09	764.3	69.3	20.7	58	ese.	9	4			10			0.035	0.9		Meteorological Obs'y
Moscow	29.59	751.5	30.03	762.7	81.0	27.2	28	calm	0	0			2 k						Meteorological Obs'y.
Nikolaiev	30.04	762.9	30.11	764.7	84.2	29.0	42	calm	0	0		0	3 k			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor.	29.63	752.5	29.71	754.7	54.1	12.3	85	calm	0	0			10			0.106	2.7		Lieut. Iwanow.
Pekin, China	29.67	753.6	29.81	757.2	76.8	24.9	35	s.	7	3		0	0			0	0		Physical Observatory
St. Petersburg	30.11	764.8	30.13	765.2	66.9	19.4	53	wnw.	16	7		1 ck	0			0	0		Central Physical Obs'y.
Semipalatinsk	29.32	744.7	29.95	760.6	73.8	23.2	29	calm	0	0		0	8 k			0.031	0.8		Major Lasareu.
Tashkend, Laboratory	28.39	721.2	29.87	758.6	84.6	29.2	32	nnw.	4	2			0			0	0		Teich, A. M.
Tiflis	28.68	728.4	30.08	764.0	64.4	18.0	74	w.	2	1			9 n			0.063	1.6	thund'r st'm	Physical Observatory
Vladivostock	29.93	760.3	30.00	762.0	46.0	7.8	96	se.	7	3		0	0			0	0		
Warsaw	29.85	758.3	30.27	768.8	69.3	20.7	44	ne.	13	6			10 ks						Astronomical Obs'y
Wilna	29.65	753.1	30.06	763.4	70.3	21.3	64	ne.	4	2			8			0	0		Berg, Assistant.
Yeniseisk																			M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	30.01	762.2	30.11	764.9	71.2	21.8	67	e.	4.3	1.9		1 c;ck	0			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	30.16	766.0	30.22	767.5	68.7	20.4	67	nw.	2.0	0.9			10			0.016	0.4	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.21	691.2	30.11	764.8	68.2	20.1	64	n.	4.0	1.8			1			0	0	almost clear	Domingo Martin.
Madrid, Royal Obs'y	27.89	708.4	30.01	762.3	81.0	27.2	46	e.	4.7	2.1		0	6			0	0	cloudy	The Staff.
Murcia, Met. Obs'y	29.92	760.0	30.10	764.5	80.4	26.9	59	sse.	2.9	1.3		5	5			0	0	hazy	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.26	743.1	30.14	765.6	66.2	19.0	51	ne.	4.3	1.9			2			0	0	lightly cl'dy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	29.87	758.7	29.94	760.4	77.0	25.0	87	s.	3.6	1.6		9 ck	1 s	wsw.		0	0	cloudy	Benito Vines, S. J.
Manilla, Philippine Islands	29.79	756.6	29.84	758.0	84.5	29.2	76	ssw.	2.6	1.2		1 c	3 ks		e.	0	0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.05	763.3	30.15	765.8	69.6	20.9	79	w.	4.5	2.0		0	8		sw.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.98	761.4	30.07	763.7	81.0	27.2		calm	0	0		5 cs	3 k	se.	se.	0	0	d. clouds	Manuel Maese.
Tuguegarao, Philippine Id's	29.73	755.4	29.86	758.4	78.8	26.0	84	nnw.	0	0			10 ku		sw.	0.31	7.9	covered	José L. Yrastorza.
SWEDISH																			
Haparanda	29.99	761.7	30.03	762.7	54.7	12.6	59	n.			4		8			0	0		
Umea	30.01	762.3	30.06	763.6	69.1	20.6	42	nnw.			2		7			0	0		
Hernosand	30.02	762.5	30.07	763.8	65.1	18.4	67	s.			2		5			0	0		
Stockholm	30.03	762.8	30.21	767.3	66.0	18.9	55	wsw.			2		8			0.004	0.1		
Wisby	30.21	767.2	30.26	768.7	61.9	16.6	66	wsw.			2		0			0	0		
Sub-series.																			
Upsala	30.07	763.8	30.16	766.0	70.0	21.1	42	wsw.	11.9	5.3			8		sw.	0	0		S. G. Flueman.
SWISS.																			
Geneva	28.78	731.1	30.17	766.2	69.6	20.9	62	ne.			2					0	0		The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
TURKISH.																			
Constantinople			30.18	766.5	67.1	19.5	61	ne.	16	7.0			2		ne.	0	0		The Observatory.
Valona			30.23	767.9	77.7	25.4		nw.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.96	760.9	73.0	22.8	83	n.			3	0	0			0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.66	753.4	29.74	755.4	63	17.2	78	s.	8	3.6			10 s		s.	0.06	1.5	cloudy	J. O. Barnes.
Alpena, Michigan	29.26	743.2	29.92	760.0	50	10.0	44	n.	9	4.0		10 cs	0			0	0	cloudy	Jas. J. Fitzgerald.
Atlanta, Georgia	28.76	730.5	29.93	760.2	69.0	20.6	90	s.	7	3.1			10 n		s.	0.02	0.5	light rain	H. Hall.
Atlantic City, New Jersey	29.85	758.2	29.86	758.4	58.8	14.9	93	sw.	11	4.9		hz.	hz;fg			0	0	dense haze	Jas. M. Watson.
Augusta, Georgia	29.77	756.1	29.96	761.0	72	22.2	84	s.	3	1.3			10 s			0	0	cloudy	John Healy.
Baltimore, Maryland	29.79	756.7	29.84	757.9	69	20.6	84	s.	5	2.2		8 cs	0	s.		0.27	6.9	cloudy	Robert Seybolth.
Barnegat, New Jersey	29.82	757.4	29.84	757.9	59.8	15.4	82	s.	16	7.2		0	5 k		s.	0	0	fair	Chas. F. Merritt.
Behring Island, Behring Sea	29.79	756.7	29.81	757.2	41.0	5.0		sw.	32	14.3		10 k	0	sw.		0	0	cloudy	Dr. L. Steineger.
Bismarck, Dakota	28.22	716.8	30.00	762.0	50	10.0	66	e.	8	3.6		1 c	0			0.03	0.8	clear	Cyrus Cramer.
Boise City, Idaho	27.14	689.3	29.98	761.5	47	8.3	66	w.	4	1.8		2 k	0	calm		0	0	clear	B. E. Light.
Boston, Massachusetts	29.67	753.6	29.83	757.7	58.0	14.4	80	sw.	9	4.0			10 s		sw.	0	0	cloudy	O. B. Cole.
Brownsville, Texas	29.74	755.4	29.78	756.4	80	26.7	88	s.	2	0.9		3 c	2 ks	s.	calm	0	0	fair	M. McCarty.
Buffalo, New York	29.05	737.9	29.79	756.7	51.3	10.7	96	n.	1	0.4			fg.			1.60	40.6	dense fog	Wm. Finn.
Burlington, Vermont	29.40	746.7	29.70	754.4	52.0	11.1	90	calm	0	0			10 n		w.	0.68	17.3	light rain	G. C. Schaeffer.
Cairo, Illinois	29.38	746.2	29.78	756.4	68.6	20.3	80	sw.	2	0.9		1 c	0	w.		0.14	3.6	clear	W. H. Ray.
Campo, California	27.30	693.4	29.84	757.9	42	5.6	82	ne.	2	0.9		0	0			0	0	clear	W. H. Glendenon.
Camp Thomas, Arizona	27.10	688.3	29.77	756.1	55	12.8	53	s.			1	0	hz.			0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	29.92	760.0	29.94	760.5	71	21.7	82	sw.	15	6.7		1 c	0			0	0	clear	J. E. Lanouette.
Cape May, New Jersey																			W. Bolten.
Cedar Keys, Florida	29.94	760.5	29.96	761.0	77	25.0	82	se.	9	4.0		0	8 ks		s.	0.01	0.3	cloudy	F. W. Mixer.
Champaign, Illinois	28.98	736.1	29.78	754.6	51.0	19.6	93	ne.	22	9.8			10 n		ne.	0.19	4.8	light rain	L. A. Welsh.
Charleston, S. Carolina	29.92	760.0	29.97	761.2	79	26.1	69	sw.	7	3.1		0	8 ks		sw.	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.08	738.6	29.92	760.0	69.0	20.6	84	sw.	6	2.7			10 s		sw.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.04	737.6	29.86	758.4	68.0	20.0	90	e.	5	2.2			10 ks		sw.	0.02	0.5	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.02	610.1	29.89	759.2	39.3	4.1	86	s.	6	2.7		6 c	0	w.		0.10	2.5	fair	E. McGovern.
Chicago, Illinois	29.19	741.4	29.89	759.2	44.6	7.0	84	n.	12	5.4			10 n		ne.	1.31	33.3	light rain	J. Mitchell.
Chincoteague, Virginia	29.88	758.9	29.90	759.4	64	17.8	93	s.	12	5.4		3 c	3 k;fg			0	0	fair	V. P. Temple.
Cincinnati, Ohio	29.09	738.9	29.74	755.4	63.8	17.7	90	se.	4	1.8			10 n		se.	2.47	62.7	light rain	R. B. Watkins.
Cleveland, Ohio	29.06	738.1	29.79	756.7	51.4	10.8	95	ne.	6	2.7			10 n		ne.	1.08	27.4	light rain	J. B. Newlin.
Coleman City, Texas	28.17	715.5	29.96	761.0	55	12.8	86	n.	18	8.0		0	0			0	0	clear	L. Dorman.
Columbus, Ohio	28.88	733.5	29.72	754.9	63	17.2	90	ne.	3	1.3			10 n		sw.	1.26	32.0	light rain	D. Cuthbertson.
Concho, Texas	28.09	713.5	29.99	761.7	58	14.4	72	ne.	4	1.8		0	0			0	0	clear	W. W. McConihe.
Davenport, Iowa	29.32	744.7	29.96	761.0	49	9.4	77	ne.	6	2.7			10 s		ne.	0.42	10.7	cloudy	R. R. Martin.
Dayton, Washington T'y	28.26	717.8	30.01	762.2	48.8	9.3	50	sw.	2	0.9		1 k	0			0.01	0.3	clear	H. Clifford.
Deadwood, Dakota	25.33	643.4	29.84	757.9	50	10.0	68	s.	6	2.7		5 c	0	w.		inap.	inap.	fair	G. W. Scott.
Decatur, Texas					60	15.6	70	n.	9	4.0		4 k	2 s	n.		0	0	fair	D. J. Carr.
Delaware Breakwater, Del.	29.84	757.9	29.86	758.4	68	20.0	78	sw.	24	10.7		6 c	hz.			0	0	fair	A. Schneider.
Denison, Texas	29.10	739.1	29.89	759.2	61.0	16.1	78	nw.	8	3.6		0	0			0.02	0.5	clear	J. McGlone.
Denver, Colorado	24.72	627.9	29.88	758.2	41.5	5.3	81	s.	4	1.8		3 c	0	calm		0.16	4.1	clear	F. M. Neal.
Des Moines, Iowa	29.12	739.6	30.01	762.2	47	8.3	77	ne.	4	1.8		0	0			0.86	21.8	clear	F. W. Conrad.
Detroit, Michigan	29.12	739.6	29.82	757.4	50.2	10.1	86	n.	9	4.0			10 s		ne.	1.20	30.5	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.44	697.0	29.99	761.7	41	5.0	82	n.	12	5.4		0	0			0	0	clear	E. A. Thomas.
Dubuque, Iowa	29.28	743.7	29.98	761.5	47.2	8.4	56	n.	8	3.6		3 c	0	n.		0.61	15.5	clear	J. Harvey Smith.
Duluth, Minnesota	29.42	747.3	30.12	765.0	42	5.6	74	ne.	1	0.4		0	0			0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.08	738.6	29.88	758.9	75.1	23.9	90	calm	0	0		0	0			inap.	inap.	clear	F. Belford.
Eagle Rock, Idaho	25.26	641.6	29.94	760.5	45	7.2	65	s.	7	3.1		3 cs	0	s.		0	0	clear	J. M. Clifford.
Eastport, Maine	29.90	759.4	29.96	761.0	45.5	7.5	93	s.	3	1.3			10 n		s.	0.13	3.3	light rain	J. H. Melton.
El Paso, Texas	26.23	666.2	29.87	758.7	54	12.2	45	se.	5	2.2		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.00	738.1	29.78	756.4	50	10.0	100	ne.	9	4.0			fg.			0.27	6.9	dense fog	R. H. Paxton.
Escanaba, Michigan	29.35	745.5	30.01	762.2	45	7.2	68	n.	13	5.8		5 k	0	n.		0	0	fair	C. Dill.
Fort Apache, Arizona	24.96	634.0	29.78	756.4	39	3.9	59	ne.	3	1.3		0	0			0	0	clear	W. C. Barnes.
Fort Assiniaboine, Montana	27.02	686.3	29.86	758.4	52	11.1	74	sw.	6	2.7		0	0			0.01	0.3	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.48	723.4	30.04	763.0	47.0	8.3	86	se.	1	0.4		5 c	0	calm		0	0	fair	A. Pritchard.
Fort Benton, Montana	27.04	686.8	29.83	757.7	50	10.0	86	w.	1	0.4		2 c	1 s			0.03	0.8	clear	G. W. Davis.
Fort Buford, Dakota	27.93	709.4	29.91	759.7	53	11.7	74	s.	8	3.6			10 n		calm	inap.	inap.	light rain	A. H. Bell.
Fort Custer, Montana	26.71	678.4	29.81	757.2	50	10.0	93	se.	3	1.3		0	8 s		calm	0.03	0.8	cloudy	Y. Verge.
Fort Davis, Texas	25.14	638.5	29.86	758.4	46	7.8	54	n.	12	5.4			10 ks		n.	0	0	cloudy	J. Williams.
Fort Elliott, Texas	27.21	691.1	29.91	759.7	45	7.2	63	n.	12	5.4		0	0			0	0	clear	W. J. Cundall.
Fort Gibson, Indian T'y																			J. B. Campbell.
Fort Grant, Arizona	25.17	639.3	29.78	756.4	57	13.9	29	se.	5	2.2		0	0			0	0	clear	T. J. Macgowan.
Fort Keogh, Montana	27.35	694.7	29.80	756.9	55	12.8	57	se.	7	3.1		9 cs	0			0	0	cloudy	W. B. Stockman.
Fort Macon, North Carolina	29.97	761.2	29.98	761.5	71	21.7	90	s.	7	3.1		4 c	hz	calm	calm	0	0	fair	L. Leonardy.
Fort McKavett, Texas	27.76	705.1	30.00	762.0	57	13.9	83	ne.	9	4.0		0	0			0	0	clear	J. E. Thatcher.
Fort Missoula, Montana	26.66	677.2	29.96	761.0	52	11.1	80	sw.	1	0.4			10 ks		n.	0	0	cloudy	J. H. Jones.
Fort St. Michaels, Alaska	29.49	749.0	29.53	750.0	38	3.3	91	s.	4	1.8			10 s			0	0	cloudy	A. P. Leavitt.
Fort Shaw, Montana	26.24	666.5	29.84	757.9	49	9.4	71	e.	2	0.9		5 k	0	w.		0.01	0.3	fair	A. L. Mathews.
Fort Sill, Indian Territory	28.72	729.5	29.94	760.5	56.5	13.6	73	n.	16	7.2			10 s		n.	0	0	cloudy	T. Cleary.
Fort Stevenson, Dakota	28.15	715.0	29.98	761.5	49	9.4	86	e.	4	1.8		6 c	0			0.02	0.5	fair	W. Burrows.
Fort Verde, Arizona					55.6	13.1	53	w.			1	0	0			0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.38	619.2			41.9	5.5	89	nw.	3	1.3		3 c	4 k			0.29	7.4	fair	T. M. Ambler.
Fredericksburg, Texas	28.16	715.3	29.88	758.9	65	18.3	84	nw.	6	2.7		0	0			0.15	3.8	clear	H. S. Miles.
Galveston, Texas	29.78	756.4	29.83	757.7	77.5	25.3	84	s.	11	4.9		0	5 ks;hz		s.	0.01	0.3	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.22	742.2	29.88	758.9	47.5	8.6	63	n.	10	4.5			10 s			0.49	12.4	cloudy	W. A. Reid.
Hatteras, North Carolina	29.96	761.0	29.98	761.5	72	22.2	84	s.	6	2.7		0	0			0	0	clear	R. M. Crawford.
Helena, Montana	25.71	653.0	29.88	758.9	51	10.6	66	w.	4	1.8		6 k	0	w.		0.05	1.3	fair	S. Wheaton.
Henrietta, Texas																			J. W. Byram.
Huron, Dakota	28.70	729.0	30.05	763.3	45.2	7.3	76	ne.	2	0.9		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	28.92	734.6	29.71	754.6	57	13.9	86	n.	6	2.7			10 s		ne.	0.69	17.5	cloudy	O. Schutze
Indianola, Texas	29.81	757.2	29.84	757.9	74.3	23.5	90	se.	3	1.3		4 ck	0	nw.		0.60	15.2	fair	I. A. Reed.
Jacksboro, Texas	28.81	731.8	29.96	761.0	58	14.4	80	n.	8	3.6		0	0			0	0	clear	J. P. Sherry.
Jacksonville, Florida	29.92	760.0	29.96	761.0	77	25.0	76	e.	4	1.8		0	0			inap.	inap.	clear	J. W. Smith.
Keokuk, Iowa	29.24	742.7	29.89	759.2	48.0	8.9	93	n.	7	3.1			10 n		n.	0.33	8.4	light rain	F. Z. Gosewisch.
Key West, Florida	29.92	760.0	29.94	760.5	79.0	26.1	88	s.	7	3.1		0	6 ks		s.	0	0	fair	L. M. Melbourne.
Kittyhawk, North Carolina	29.97	761.2	29.99	761.7	71	21.7	84	sw.	14	6.3		0	1 ks		sw.	0	0	clear	E. A. Beals.
Knoxville, Tennessee	28.82	732.0	29.84	757.9	67.2	19.6	88	w.	7	3.1			10 n		w.	0.03	0.8	light rain	J. A. Cody.
La Crosse, Wisconsin	29.27	743.4	30.03	762.7	52	11.1	47	n.	4	1.8		0	0			0	0	clear	S. C. Emery.
La Mesilla, New Mexico	26.05	661.7	29.81	757.2	48.8	9.3	52	calm	0	0		0	0			0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.08	738.6	29.96	761.0	52	11.1	86	n.	7	3.1			10 s		ne.	0.23	5.8	cloudy	A. W. Browne.
Lewiston, Idaho	29.14	740.1	29.98	761.5	57.8	14.3	80	calm	0	0			9 s			inap.	inap.	cloudy	J. M. Burlew.
Little Rock, Arkansas	29.47	748.5	29.78	756.4	70	21.1	84	w.	4	1.8		0	3 s		w.	0.25	6.3	clear	W. U. Simmons.
Los Angeles, California	29.53	750.0	29.93	760.2	58.1	14.5	80	ne.	5	2.2			10 s		calm	0	0	cloudy	E. F. Kubel.
Louisville, Kentucky	29.13	739.9	29.68	753.9	66	18.9	90	se.	5	2.2			10 s			2.05	52.1	cloudy	H. O. Smyth.
Lynchburg, Virginia	29.19	741.4	29.87	758.7	70.5	21.4	73	sw.	5	2.2		0	9 ks		sw	0	0	cloudy	W. R. Bushby.
Madison, Wisconsin	28.97	735.8	29.97	761.2	42	5.6	65	n.	13	5.8		5 c	0	w.		0	0	fair	O. A. Shaw.
Marquette, Michigan	29.33	745.0	30.05	763.3	45	7.2	60	nw.	11	4.9		9 k	0	nw.		0	0	cloudy	J. Gilligan.
Memphis, Tennessee	29.46	748.3	29.79	756.7	66	18.9	97	se.	5	2.2			10 s			0.60	15.2	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.20	741.7	29.94	760.5	45	7.2	60	n.	17	7.6			10 s		n.	0.02	0.5	cloudy	W. Line.
Mobile, Alabama	29.85	758.2	29.89	759.2	77.5	25.3	87	sw.	8	3.6		6 cs	3 ks		sw.	0.01	0.3	cloudy	J. D. Paxton.

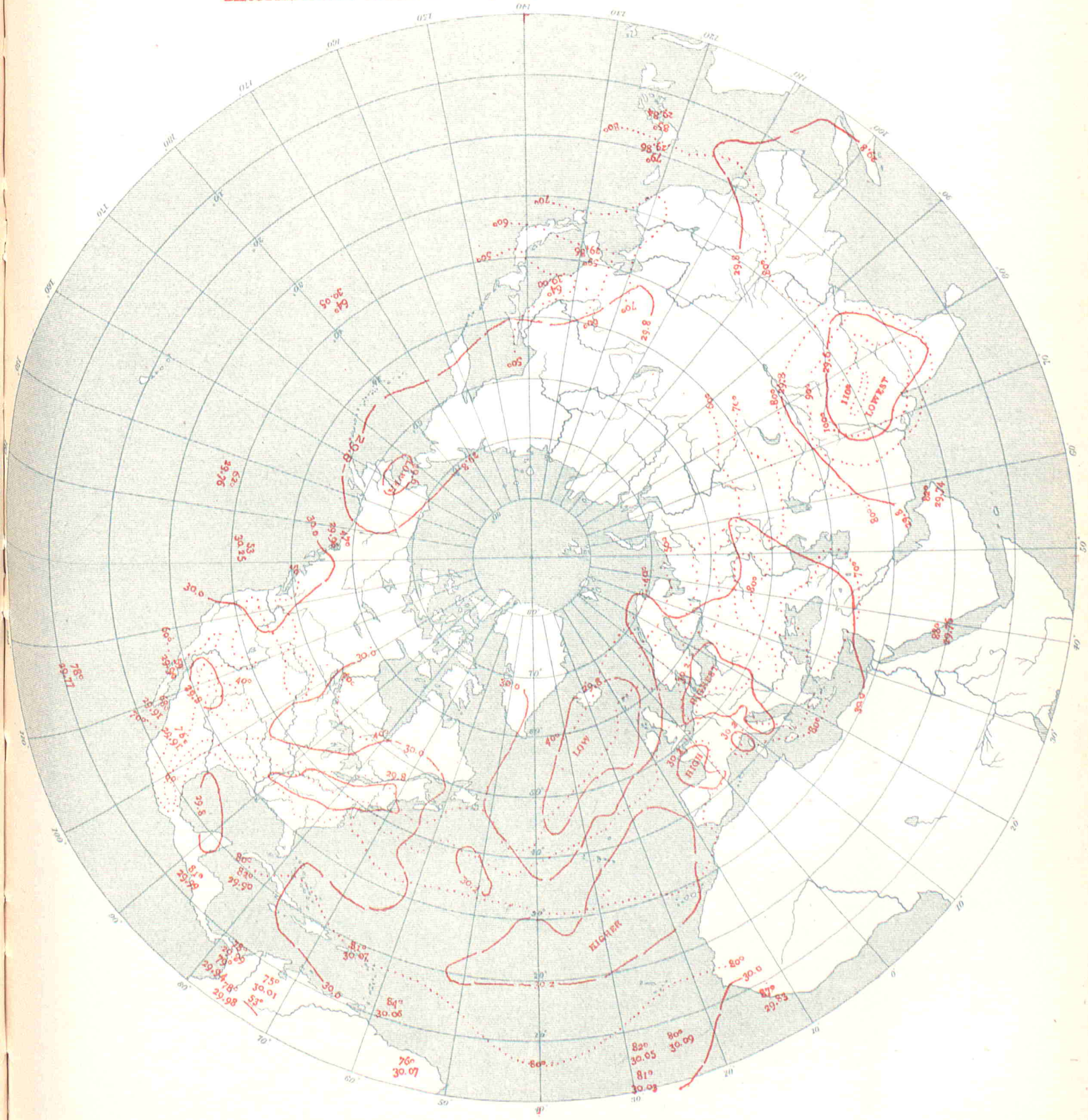
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Montgomery, Alabama	29.68	753.9	29.91	759.7	72.6	22.6	92	se.	4	1.8		7 k	0	w.		0.01	0.3	fair	J. B. McLaughlin.
Moorhead, Minnesota	29.07	738.4	30.05	763.3	43	6.1	83	nw.	3	1.3		0	0			0	0	clear	H. Bessant.
Morgantown, W. Virginia	28.77	730.7	29.78	756.4	64.5	18.1	92	calm	0	0			10 s		s.	0.21	5.3	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.57	598.7	29.75	755.6	41.0	5.0	100	w.	70	31.2			10n;fg		w.	0.88	22.4	light rain	J. G. Linsley.
Nashville, Tennessee	29.24	742.7	29.77	756.1	65.0	18.3	90	nw.	2	0.9			10 n		sw.	1.40	35.6	heavy rain	L. A. Jesunofsky.
New Haven, Connecticut	29.72	754.9	29.84	757.9	55.5	13.1	95	s.	7	3.1			10s;fg		s.	0.20	5.1	cloudy	J. H. Sherman.
New London, Connecticut	29.82	757.4	29.87	758.7	56	13.3	100	sw.	8	3.6			10 n		sw.	0.10	2.5	light rain	J. G. Lynch.
New Orleans, Louisiana	29.81	757.2	29.86	758.4	74.9	23.8	88	e.	2	0.9			10 k		e.	0.03	0.8	cloudy	L. Dunne.
Newport, Rhode Island	29.84	757.9	29.89	759.2	55.0	12.8	83	sw.	5	2.2			10 s		sw.	0	0	cloudy	W. McGillivray.
New River, N. Carolina					77	25.0	75	s.			6	2 c	1 s	e.		0	0	clear	C. C. Corbin.
New Shoreham, Rhode I'd.	29.86	758.4	29.89	759.2	55.0	12.8	86	sw.	20	8.9			10 ks		sw.	0	0	threatening	W. Davis.
New York, New York	29.67	753.6	29.85	758.2	58	14.4	100	s.	2	0.9			10 s		sw.	0.20	5.1	cloudy	E. B. Garriott.
Norfolk, Virginia	29.92	760.0	29.94	760.5	72	22.2	84	nw.	8	3.6		2 c	0	e.		0	0	clear	J. T. Elker.
North Platte, Nebraska	27.13	689.1	30.00	762.0	45.6	7.6	91	calm	0	0		0	0			0.01	0.3	clear	E. F. Brady.
Olympia, Washington T'y	30.13	765.3	30.17	766.3	48	8.9	93	s.	1	0.4			10 s		calm	0	0	cloudy	J. Dascomb.
Omaha, Nebraska	28.89	733.8	30.05	763.3	47.9	8 8	83	n.	4	1.8		0	0			0.07	1.8	clear	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	29.89	759.2	29.90	759.4	11.6	—11.3	100	ne.	14	6.3		1 c	1 s			0	0	clear	P. H. Ray.
Oswego, New York	29.43	747.5	29.76	755.9	49.8	9.9	98	n.	8	3.6			fg.			0.58	14.7	light fog	S. W. Beall.
Palestine, Texas	29.34	745.2	29.88	758.9	69.5	20.8	90	sw.	3	1.3		7 ck	0	w.		0.60	15.2	fair	L. M. Pindell.
Pensacola, Florida	29.86	758.4	29.89	759.2	76.2	24.6	85	se.	8	3.6		0	2 s		s.	0.04	1.0	clear	M. McGauran.
Philadelphia, Pa.	29.74	755.4	29.84	757.9	68	20.0	90	sw.	5	2.2		5 ck	2 s	sw.	w.	0.45	11.4	fair	T. F. Townsend.
Pike's Peak, Colorado	17.74	450.6	29.80	756.9	17	— 8.3	76	nw.	16	7.2		0	2 s			0.81	20.6	clear	L. M. Dey.
Ploche, Nevada	23.99	609.3	29.91	759.7	49.7	9.8	61	nw.	4	1.8		8 cs	0	calm		0	0	cloudy	C. N. Kitchel.
Pittsburg, Pennsylvania	28.94	735.1	29.74	755.4	65.4	18.6	86	s.	3	1.3			10 ks		sw.	0.69	17.5	threatening	J. H. Bryce.
Poplar River, Montana	27.72	704.1						se.			1		10 s		calm	0	0	cloudy	U. D. Maxwell.
Port Eads, Louisiana	29.88	758.9	29.90	759.4	75.1	23.9	94	se.	6	2.7		0	7 s		se.	0	0	fair	H. G. Christian.
Port Huron, Michigan	29.15	740.4	29.83	757.7	45.3	7.4	88	n.	15	6.7			10 s			0.90	22.9	cloudy	W. O. Bailey.
Portland, Maine	29.74	755.4	29.79	756.7	52.0	11.1	86	s.	8	3.6			10s;fg		s.	0.61	15.5	cloudy	D. C. Murphy.
Portland, Oregon	30.08	764.0	30.15	765.8	56.0	13.3	69	n.	5	2.2			10 s		n.	0	0	cloudy	M. L. Hearne.
Portsmouth, N. Carolina					69	20.6	78	sw.	11	4.9		6 k	hz.	s.	calm	0	0	fair	F. P. Chaffee.
Prescott, Arizona	24.70	627.4	29.80	756.9	42	5.6	48	s.	3	1.3		0	0			0.02	0.5	clear	J. McN. Wright.
Provincetown, Mass.	29.82	757.4	29.85	758.2	55	12.8	80	s.	14	6.3			10 s		sw.	0	0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	29.90	759.4	29.92	760.0	78	25.6	85	se.	6	2.7		0	5 ks		s.	0	0	fair	W. J. Evans.
Red Bluff, California	29.50	749.3	29.86	758.4	62.8	17.1	54	nw.	1	0.4		0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.58	751.3	29.82	757.4	81	27.2	82	s.	4	1.8			10 ks		s.	0	0	cloudy	P. M. Wilson.
Rochester, New York	29.11	739.4	29.77	756.1	51	10.6	100	n.	3	1.3			10ks;fg			0.99	25.1	cloudy	F. Gillam.
Roseburg, Oregon	29.60	751.8	30.15	765.8	46	7.8	87	calm	0	0			10 s		sw.	0	0	cloudy	J. J. Nanry.
Sacramento, California	29.76	755.9	29.84	757.9	57.0	13.9	93	se.	4	1.8		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.24	742.7	29.83	757.7	53.0	11.7	100	nw.	14	6.3			10s;fg			0.74	18.8	cloudy	J. H. Webber.
St. Paul, Minnesota	29.20	741.7	30.05	763.3	47.0	8.3	56	e.	2	0.9		0	0			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.20	741.7	30.06	763.5	42	5.6	83	ne.	2	0.9		0	0			0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.58	649.7	29.90	759.4	52	11.1	55	ne.	2	0.9			10 s			0	0	cloudy	J. Craig.
San Antonio, Texas	29.16	740.7	29.86	758.4	72	22.2	97	calm	0	0		0	5 ks		ne.	0.18	4.6	fair	E. Lane.
San Diego, California	29.81	757.2	29.88	758.9	61.0	16.1	81	sw.	3	1.3			10 s			0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.11	739.4	29.78	756.4	53	11.7	100	ne.	20	8.9			10 n			1.91	48.5	light rain	M. H. Perry.
Sandy Hook, New Jersey	29.79	756.7	29.83	757.7	59.0	15.0	93	sw.	5	2.2		1 k	0	sw.		0.12	3.0	clear	B. A. Blundon.
San Francisco, California	29.83	757.7	29.90	759.4	51	10.6	86	sw.	3	1.3		0	fg.		sw.	0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.23	590.0	29.84	757.9	38	3.3	82	n.	2	0.9		0	0			inap.	inap.	clear	H. U. Jones.
Savannah, Georgia	29.88	758.9	29.97	761.2	78	25.6	76	se.	3	1.3		1 c	1 k			inap.	inap	clear	H. W. Ford.
Shreveport, Louisiana	29.61	752.1	29.85	758.2	70	21.1	90	sw.	2	0.9		0	9 s			0.05	1.3	cloudy	E. N. Meekins.
Silver City, New Mexico	24.21	614.9	29.76	755 9	42	5.6	48	s.	1	0.4		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	29.90	759.4	29.96	761.0	46.6	8.1	74	sw.	8	3.6			10 n		sw.	0.18	4.6	light rain	J. J. McLean.
Smithville, North Carolina	29.94	760 5	29.98	761.5	74	23.3	84	sw.	7	3.1		4 c	0			0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.90	708.6	29.95	760.7	52	11.1	74	nw.	9	4.0		9 k	0			0.02	0.5	cloudy	D. Moore.
Springfield, Illinois	29.18	741.2	29.85	758.2	50	10.0	93	n.	14	6.3			10 n		n.	1.33	33.8	thnd'r str'm	T. B. Jennings.
Springfield, Massachusetts	29.68	753.9	29.81	757.2	57.4	14.1	90	s.	7	3.1			10 s			0.23	5.8	cloudy	T. S. Outram.
Springfield, Mo.	28.41	721.6	29.89	759.2	56.5	13.6	100	n.	7	3.1			fg.			0.68	17.3	dense fog	J. B. Marbury.
Starkville, Miss.	29.40	746.7			73	22.8	90	sw.	15	6.7			10 s		s.	0	0	cloudy	M. J. Wright.
Stockton, Texas	27.03	686.5	30.04	763.0	54.0	12.2	86	nw.	12	5.4			10 s		nw.	0	0	cloudy	J. O'Dowd.
Thatcher's Island, Mass.	29.76	755.9	29.81	757.2	52.5	11.4	80	s.	12	5.4		4 ck	5 k	w.	s.	0	0	cloudy	F. R. Day.
Toledo, Ohio	29.11	739.4	29.79	756.7	53.5	11.9	88	ne.	16	7.2			10 n		ne.	0.74	18.8	light rain	A. Buell.
Tucson, Arizona	27.45	697.2	29.78	756.4	59	15.0	60	calm	0	0		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.69	754.1	30.06	763.5	53.5	11.9	70	nw.	2	0.9		3 ck	2 s			0	0	fair	J. Daly.
Uvalde, Texas	28.91	734.3	29.86	758.4	72	22.2	97	e.	1	0.4			10 s			0.06	1.5	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.60	751.8	29.85	758.2	73	22.8	90	sw.	3	1.3		2 c	3 k			0.03	0.8	fair	H. T. Brisbane.
Visalia, California	29.46	748.3	29.83	757.7	60	15.6	81	nw.	2	0.9		1 cs	0			0	0	clear	W. L. Seward.
Washington, D. C.	29.73	755.1	29.84	757.9	71.0	21.7	82	s.	8	3.6		7 cs	0	w.		1.11	28.2	fair	B. M. Purssell.
West Las Animas, Colorado	26.10	662.9	29.96	761.0	46	7.8	93	calm	0	0		1 c	0	sw.		0.19	4.8	clear	J. Grover.
Williamsport, Pa.	29.18	741.2	29.78	756.4	64.8	18.2	87	calm	0	0		7 k	3 ks	sw.		0.40	10.2	cloudy	B. F. Hough.
Wilmington, N. Carolina	29.91	759.7	29.96	761.0	72	22.2	84	s.	4	1.8		0	5 s		sw.	0	0	fair	A. T. Sherwood.
Winnemucca, Nevada	25.59	650.0	29.94	760.5	43	6.1	76	nw.	4	1.8		0	0			0	0	clear	J. R. Williams.
Yankton, Dakota	28 77	730.7	30.05	763.3	49	9.4	63	calm	0	0		0	0			0	0	clear	J. H. Atfield.
Yuma, Arizona	29.62	752.3	29.77	756.1	62.9	17.2	81	calm	0	0		0	1 ks			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.06	560.3			52.5	11.4	76	nw.	1	0.4			10 s;n			0.02	0.5	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W. I.	30.05	763.3	30.06	763.5	84	28.9	87	ne.				2 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.95	760.7	29.98	761.5	78	25.6	86	s.	4	1.8			10 ks		s.	0	0	cloudy	J. I. Plume.
Havana, Cuba, W. I.	29.91	759.7	29.96	761.0	79	26.1	82	calm	0	0			10 ks		calm	1.75	44.4	cloudy	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.00	762.0	30.01	762.2	82.0	27.8	80	ese.	6	2.7		0	1 ks		e.	0	0	fine	Robert Johnston.
Magua, San Domingo, W. I.					76	24.4						0	0			0.05	1.3		S. M. Pike.
Navassa, W. I.																			F. M. Everett.
Paramaribo, S. A.	30.07	763.8	30.07	763.8	76	24.4	91	e.			1		8 ps	e.	e.	0.080	2.0	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.55	750.6	30.01	762.2	75	23.9	94	n.			1		8 ks		n.	0.03	0.8	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							99	nw.			1	2 ck	0	nw.		0	0	clear	Earl Flint.
Santiago de Cuba, W. I.	29.99	761.7	30.01	762.2	82	27.8	78	calm	0	0		4 c	0			0	0	fair	Robert Mason.
York Factory, B. A.	30.11	764.8	30.16	766.1	30.0	— 1.1	95	ne.	8	3.6		2 k	3 s	ne.	ne.	0	0	fair	W. Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Alert, S. 25° 45′ E. 41° 34′	29.97	761.2	74.5	23.6	66	wsw.			1–2		3							d. clouds.
H. M. S. Alexandra, Suda Bay, Turkey in Europe	30.13	765.3	74	23.3	?	ese.			1		0							blue sky.
H. M. S. Amethyst, S. 0° 14′, W. 26° 00′	29.97	761.2	77.5	25.3	97	ese.			2–3		1	se.				2	ese.	blue sky.
H. M. S. Champion, N. 19° 30′, W. 150° 30′			75	23.9	95	e.			2–3		5	e.				2	ene.	d. clouds.
H. M. S. Comus, N. 11° 18′, E. 110° 40′	29.80	756.9	84.5	29.2	100	ssw.			1–2		4	e.						showery.
H. M. S. Diamond, S 27° 28′, E. 159° 14′	30.07	763.8	69.5	20.8	79	ese.			1		8	w.				2	e.	d. clouds.
H. M. S. Dido, N. 13° 05′, W. 59° 30′	30.10	764.5	82	27.8		ese.			3		4	e.						d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	29.93	760.2	72	22.2	98	ese.			3–4		10	ese.						raining.
H. M. S. Druid, N. 18° 45′, W. 84° 13′	29.90	759.4	81.8	27.7	88	se.			4–5		8	se.				4	se.	squally.
H. M. S. Dwarf, S. 27° 55′, W. 59° 46′	29.92	760.0	61.5	16.4	94	se.			1–2		10					1	s.	foggy.
H. M. S. Eclipse, S. 22° 30′, E. 42° 35′	29.95	760.7	77	25.0		sw.			1		2					2	nnw.	d. clouds.
H. M. S. Emerald, S. 53° 35′, W. 115° 50′	28.69	728.7	42	5.6	?	nw.			4		4	nw.				3	nw.	d. clouds.
H. M. S. Espiegle, S. 31° 30′ E. 161° 26′	30.04	763.0	65	18.3	68	calm			0		8	s.				1	se.	d. clouds.
H. M. S. Euryalus, N. 17° 00′, E. 73° 00′	29.75	755.6	85	29.4	79	nnw.			3–4		3	nw.				4	nw.	d. clouds.
H. M. S. Fantome, N. 11° 05′ W. 75° 30′	29.94	760.5	81	27.2		sw.			3		10	sw.				4	e.	thnd'rstorm.
H. M. S. Flying Fish, N. 37° 58′, E. 124° 40′	29.86	758.4	59	15.0	81	wnw.			1		4							d. clouds.
H. M. S. Fawn, S. 7° 50′, E. 64° 08′	29.83	757.7	77.5	25.3	77	sse.			3		10	sse.				3	sse.	d. clouds.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	29.95	760.7	52	11.1	86	se.			1		0							misty.
H. M. S. Garnet, Colonia, Rio de La Plata, Uruguay	30.06	763.5	52	11.1	72	sw.			2		3							blue sky.
H. M. S. Inconstant, S. 16° 45′ W. 4° 30′	30.13	765.3	73	22.8	76	se.			2		5	ese.				2	ese.	d. clouds.
H. M. S. Iron Duke, N. 30° 59′ E. 130° 55′	29.79	756.7	71	21.7	95	calm			0		5					2	e.	d. clouds.
H. M. S. Kingfisher, Perico Island, Pearl Islands, C. A	29.94	760.5	79	26.1		calm			0		5	calm						d. clouds.
H. M. S. Lark, S. 8° 58′, E. 157° 03′	29.91	759.7	79.3	26.3		ene.			1		5					3	n.	d. clouds.
H. M. S. Magpie, N. 35° 26′, E. 139° 33′	29.84	757.9	60.7	15.9	77	ene.			2–3		10						e;ne.	d. clouds.
H. M. S. Northampton, Halifax, Nova Scotia	30.03	762.7	50.5	10.3		calm			0									misty.
H. M. S. Orontes, N. 22° 00′, W. 52° 31′	30.21	767.3	77.5	25.3	92	e.			3		3					2	ene.	d. clouds.
H. M. S. Pegasus, N. 1° 17′, E. 103° 51′	29.81	757.2	84.5	29.2	85	wnw.			3		2							d. clouds.
H. M. S. Phœnix, N. 18° 25′, W. 77° 08′	30.01	762.2	81	27.2	95	ese.			2		1					1	e.	blue sky.
H. M. S. Rambler, S. 3° 10′, E 9° 19′	29.94	760.5	77	25.0	95	calm			0		10					1	ssw.	d. clouds.
H. M. S. Rocket, N. 48° 27′, W. 123° 27′	30.07	763.8	51	10.6	93	calm			0		7							d. clouds.
H. M. S. Sylvia, N. 7° 50′, W. 25° 49′	29.99	761.7	80	26.7	82	nne.			2		7					1	nne.	d. clouds.
H. M. S. Swiftsure, N. 39° 44′ W. 11° 10′	30.27	768.8	64	17.8	73	wsw.			1		2	wsw.				1	wsw.	d. clouds.
H. M. S. Tenedos, N. 47° 34′ W. 52° 41′	30.03	762.7	49	9.4	77	ssw.			1		8							d. clouds.
H. M. S. Triumph, Coquimbo, Chili	29.98	761.5	55	12.8	80	nnw.			1		3	calm						d. clouds.
H. M. S. Woodlark, Ras Gomelet, Arabia	29.64	752.8	81.5	27.5	78	s.			5–6		0					5	s.	misty.
PORTUGUESE NAVAL.																		
Rio Lima, Porto Praya, Cape Verd Islands	30.07	763.8	82.4	28.0	71	ne.			3		0					2		blue sky.
Tamega, Macao, China	29.87	758.8	73.4	23.0	89	e.			2		10			15 h'r	15 h'r			raining.
SWEDISH NAVAL.																		
Sago, N. 53° 09′, E. 2° 45′	30.20	767.1	58.6	14.8	90	se.			1		10							overcast.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	29.86	758.4	77	25.0	86	se.	9	4.0			5		se.	0	0			fair.
N. Yard, Portsmouth, N. H	29.78	756.4	59	15.0	88	s.	11	4.9			9		sw.	0	0			fair.
Naval Hospital, Yokohama, Japan	29.68	753.9	59.5	15.3	82	e.			4		10		e.	sli't	sli't			cloudy.
Adams, Mare Island, Cal	29.68	753.9	55	12.8	39	sw.			1–2		0					sm'h		clear.
Alaska, Callao, Peru	29.97	761.2	61	16.1	88	nnw.			1		10			0	0	sm'h		cloudy.
Alert, Kobe, Japan*	29.72	754.9	66	18.9	59	wnw.			1		0			0	0	sm'h		clear.
Alliance, N. 36° 42′, W. 73° 56′	29.99	761.7	61	16.1	94	ssw.			1–2		2			0	0	sm'h		clear.
Ashuelot, Kobe, Japan	29.82	757.4	64	17.8	78	nnw.			1		2		calm					clear.
Brooklyn, S. 29° 20′, W. 48° 13′	29.96	761.0	69	20.6	90	sw.	30	13.4			8		sw.	0	0	mod.	sw.	fair.
Colorado, New York, N. Y	29.87	758.7	60	15.6	88	s.	1	0.4			8		s.	0.09	2.3			overcast.
Essex, Montevideo, Uruguay	30.02	762.5	54	12.2	67	sw.			5		2		sw.			sm'h		clear.
Franklin, Norfolk, Va	29.98	761.5	69	20.6	90	s.	12	5.4			8		s.	0	0			fair.
Galena, Gibraltar, Mediterranean	30.15	765.8	67	19.4	95	calm			0		8					sm'h		fair.
Independence, Mare Island, Cal	29.74	755.4	54	12.2		sw.			2		0			0	0			clear.
Iroquois, San Francisco, Cal	29.91	759.7	54	12.2	80	s.			2		2		s.					clear.
Kearsarge, N. 36° 45′, W. 74° 12′	29.99	761.7	62	16.7	94	ssw.			2		0					sm'h		clear.
Lackawana, Panama Bay, Panama*	29.89	759.2	78	25.6	91	nw.			0–1		8		nw.					cloudy.
Lancaster, N. 38° 14′, W. 9° 14′*	30.11	764.8	64	17.8	94	nnw.			4		2		nnw.	0	0	sm'h	nw.	fair.
Marion, S. 34° 54′, W. 56° 13′	29.97	761.2	54	12.2	87	sw.			4		0			0	0	mod.	sw.	clear.
Michigan, Erie, Pa	29.98	761.5	50	10.0	?	ne.			2		2		sw.					raining.
Minnesota, Newport, R. I	29.87	758.7	55	12.8	87	sw.	5	2.2			10		sw.					
Monocacy, Nagasaki, Japan	29.84	757.9	68	20.0	79	n.			1		0							clear.
New Hampshire, Newport, R. I	29.81	757.2	54	12.2	93	ssw.			2		10		w.			sm'h		cloudy.
Nipsic, Gibraltar, Mediterranean	30.13	765.3	68	20.0	79	w.			1		5					sm'h		fair.
Onward, Callao, Peru†	30.11	764.8	60	15.6	94	nnw.			2		10		s.			long	w.	misty.
Palos, Kobe, Japan	29.86	758.4	61	16.1	66	n.			1		5		n.					fair.
Passaic, Washington, D. C	29.86	758.4	70	21.1	100	sw.			4		2		sw.					fair.
Pensacola, S. 12° 39′, W. 78° 59′	30.00	762.0	66	18.9	84	ese.			4		10			0	0	mod.	se.	cloudy.
Portsmouth, Portsmouth, Eng*†	30.40	772.1	64	17.8	94	wsw.			2		8					sm'h		cloudy.
Powhatan, Norfolk, Va	29.96	761.0	70	21.1	95	s.			1		2		sw.					clear.
Quinnebaug, Palmas, Canary Island	30.22	767.6	73	22.8	76	nne.			1		8		calm			sm'h		fair.
Ranger, N. 23° 26′, W. 107° 18′*	29.81	757.2	78	25.6	78	calm			0		2		nw.	0	0	sm'h		clear.
Richmond, Kobe, Japan*	29.74	755.4	67	19.4	64	calm			0		0			0	0			clear.
Saratoga, Cowes, Eng	30.17	766.3	60	15.6	88	w.			3		8		w.	0	0	sm'h		fair.
St. Louis, League Island, Pa	30.07	763.8	70	21.1	85	ssw.	13	5.8			2		sw.	0.60	15.2			clear.
Swatara, Shanghai, China*	29.74	755.4	72	22.2	67	calm			0		0					sm'h		clear.
Tennessee, N. 36° 47′ W. 74° 10′	30.05	763.3	64	17.8	94	s.	8	3.6			2			0	0	sm'h		fair.
Vandalia, Hampton Roads, Va*†	30.15	765.8	68	20.0	95	sw.			2		2		s.					clear.
Wabash, Boston, Mass	29.82	757.4	61	16.1	77	sw.	8	3.6			10		sw.	0.01	0.3			showery.
Wachusetts, Fort Wrangle, Alaska	29.93	760.2	44	6.7	100	e.			1		10					sm'h		cloudy.
Wyoming, Port Royal, S. C	29.95	760.7	74	23.3	81	s.	12	5.4			5		s.	0	0			fair
Yantic, N. 36° 39′, W. 73° 50′*	29.96	761.0	62	16.7	94	ssw.			2		2					sm'h		hazy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 49° 15′, W. 67° 50′*	29.94	760.5	42	5.6	100	e.			4		10		ese.			1	e.	showery.
S. S. Prussian, Baltimore, Md.*	29.70	754.4	74	23.3		calm			0		0			4 h'r	4 h'r			clear.
S. S. Scandinavian, N. 52° 24′, W. 15° 48′*	29.76	755.9	53	11.7		sw.			6		4		sw.	sh'rs	sh'rs	high	sw.	showery.
S. S. Waldensian, N. 44° 23′, W. 43° 26′*	29.89	759.2	42	5.6		nnw.			5		10		n.	0	0	short	nnw.	overcast.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, N. 48° 53′, W. 24° 34′	29.95	760.7	57	13.9	93	w.			1		2		w.			sm'h	wnw.	clear.
S. S. Indiana, Philadelphia, Pa.†	30.05	763.3	69	20.6	95	se.			3		8		nnw.	0	0			fair.
S. S. Lord Clive, N. 49° 23′, W. 24° 18′*	29.79	756.7				w.			2		2		w.	0	0	light	n.	fine.
S. S. Ohio, Liverpool, Eng.†	30.03	762.7	59	15.0	94	w.			3		1							clear.
ANCHOR LINE.																		
S. S. Devonia, N. 55° 08′, W. 12° 30′†	29.75	755.6	57	13.9		ssw.			5		4		wsw.			r'gh	sw.	clear.
S. S. India, N. 20° 19′, E. 38° 58′*	29.66	753.4	88	31.1	91	nnw.			3		1					mod.	n.	clear.
S. S. Utopia, Valencia, Spain†	30.27	768.8	70	21.1	71	ene.			1		9		ene.	0	0			cloudy.
ATLAS LINE.																		
S. S. Alvena, N. 34° 33′, W. 73° 18′†	29.94	760.5	75	23.9		ese.			1		2		se.	0	0	sm'h		fine.
S. S. Alvo, N. 16° 40′ W. 75° 10′	30.00	762.0	104	40.0		e.			4		4		w.	0	0			
S. S. Athos, N. 22° 45′, W. 74° 26′	29.51	749.5				e.			1		5		e.	0	0		e.	fair.
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, N. 42° 26′, W. 63° 33′			52	11.1	72	sse.			1					0	0			cloudy.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S 38° 48′, E. 29° 52′	29.99	761.7	58.5	14.7	70	s.			7		10							overcast.
British Merchant, S. 14° 22′, W. 7° 40′	30.10	764.5	74	23.3	72	se.			3		2							d. clouds.
Bk. Commewyne, N. 23° 18′, W. 28° 02′	30.21	767.3	76	24.4	72	ne.			4		3							d clouds.
Bk Coppename, N. 11° 41′, W 44° 03′	30.08	764.0	79	26.1	76	ene.			6		4							blue sky.
Bkt. Hope, N. 37° 40′ W. 39° 00′	30.00	762.0	63.7	17.6	83	wnw.			6		10							showery.
S. S. May Hulse, S. 39° 01′, W. 83° 50′	30.02	762.5	57.2	14.0	93	w.			2		10							drizzling.
S. S. Minho, Buenos Ayres, S. A.	30.02	762.5	51	10.6	79	wnw.			5		2							d. clouds.
S. S. Pole Star, S. 52° 50′ W. 55° 28′	29.12	739.6	35.3	1.8	90	wsw.			4		7							snowing.
CUNARD LINE.																		
S. S. Marathon, Off Boston Light, Mass.	29.86	758.4	47	8.3		sw.			4		10			1 h'r	1 h'r	sm'h		cloudy.
S. S. Parthia, N. 49° 19′, W. 22° 08′†	29.97	761.2				s.			4		4		se.	0	0	sm'h	se.	clear.
S. S. Scythia, N. 41° 04′, W. 49° 22′	30.17	766.3	57	13.9	93	nnw.			3		4		n.	0	0	long	nne.	fine.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. France, N. 49° 43′, W. 7° 36′†	30.11	764.7	55.4	13.0		ssw.			4				s.	0	0		w.	covered.
S. S. St. Germain, N. 40° 30′, W. 52° 01′	30.33	770.4	60.8	16.0		nnw.			1				nnw.	0	0	sm'h	ne.	clear.
S. S. St. Laurent, N. 41° 18′, W. 64° 01′			57.2	14.0	78	ssw.			3					hail	hail	sm'h	ssw.	clear.
GUION LINE.																		
S. S. Wisconsin, N. 44° 40′ W. 42° 10′*†	29.92	760.0	55	12.8		n.			3		8		ne.	6 h'r	6 h'r	mod.	ne	fair.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, Hamburg, Germany *†	30.25	768.3				s.			2		1			0	0			fine.
S. S. Gellert, N. 41° 10′, W. 60° 50′			60	15.6		sw.			2		10		se.	0	0	sm'h		cloudy.
S. S. Lessing, N. 40° 24′, W. 57° 17′	30.15	765.8	66	18.9		s.			4		8		ssw.	0	0	sm'h	sw.	cloudy.
S. S. Silesia, N. 46° 25′, W. 36° 17′†	29.86	758.4	55	12.8		e.			3		10			½ h'r	½ h'r	4	nw.	overcast.
INMAN LINE.																		
S. S. City of New York, N. 41° 08′, W. 58° 14′	30.20	767.1				ssw.			3		2		sw.	0	0	cross	e.	clear
JOHNSTON LINE.																		
S. S. Thanemore, N. 38° 10′ W. 69° 07′	30.05	763.3				calm			0		0			0	0			fair.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, N. 14° —′ W 27° —′*†	30.20	767.1	80	26.7		ne.			3		5?		ne.	0	0	sm'h		clear.?
LEYLAND LINE.																		
S. S. Iberian, N 42° 34′. W 63° 16′	30.02	762.5				sw.			1		1		wsw.	0	0			clear.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, N. 31° 29′, W. 67° 27′	29.60	751.8				ene.			8				ne.	9 h'r	9 h'r	mod	ne.	cloudy.
S. S. Glenapp, Rio de Janeiro, Brazil *†	30.02	762.5				ne.			2		2		calm	0	0			fine.
NATIONAL LINE.																		
S. S. Canada, N. 40° 30′, W. 57° 38′	30.18	766.6	65	18.3		ssw.			3		4		ese.	0	0	sli't	sw.	clear.
S. S. Denmark, N. 41° 09′ W. 59° 33′	30.13	765.3	63	17.2		se.			3		8		nne.	0	0	sli't	wnw.	cloudy.
S. S. England, N. 49° 26′, W. 24° 52′	29.91	759.7				wsw.			2		2		wsw.	0	0	sli't	wsw.	clear.
S. S. Erin, N. 50° 55′, W. 17° 36′	29.97	761.2	61	16.1		sw.			3		2		ssw.	0	0	long	nw.	
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, N. 10° 55′, W. 74° 30′†	30.02	762.5	80	26.7		ne.			1		2		ese.	0	0	sm'h		fine.
S. S. Saratoga N. 37° 05′ W. 74° 48′			70	21.1	79	s.			4		0			0	0	mod.	se.	fine.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, New York, N. Y.*†	29.87	758.7	65	18.3	94	s.			1		6		sse.	6 h'r	6 h'r			raining.
S. S. City of Puebla, N. 19° 40′ W. 90° 50′.†	29.66	753.4	83	28.3		ese.			3		5		ese.			light	e.	
S. S. City of Washington, N 28° 39′ W. 78° 35′*†	30.10	764.5	75	23.9		ese.			1		1		se.	0	0	mod.	e.	clear.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Lepanto, N. 46° 40′, W. 34° 12′*	29.85	758.2	60	15.6		e.			5								w.	overcast.
NORTH GERMAN LLOYD																		
S. S. Elbe, N. 43° 05′ W. 43° 31′	29.93	760.1	50.0	10.0	100	nnw.			6		10		nnw.	0	0	h'gh	nnw.	covered.
S. S. Graf Bismarck, N. 1° 20′, W 29° 20′	30.03	762.7	80.6	27.0		se.			3		3		se.	0	0	mod.	se.	fair.
S. S. Habsburg, N. 42° 39′, W. 53° 37′	30.19	766.8	47.3	8.5		calm			0		0			0	0	sm'h		fair.
S. S. Hermann, N. 40° 52′, W. 61° 56′†	29.99	761.7	53.6	12.0		s.			5		6		sw.	2 h'r	2 h'r	mod.	s.	cloudy.
S. S. Hohenzollern, N. 39° 19′, W. 63° 19′*	30.09	764.3	68.0	20.0		sse.			2		0			0	0	sm'h	ne.	clear.
S. S. Leipzig, N. 47° 47′. W. 23° 02′	29.98	761.5	59.0	15.0	81	sw.			4		5		w.	1 h'r	1 h'r	long	nnw.	clear.
S. S. Main, Bremerhaven, Germany	30.11	764.8				wnw.			2		10		wnw.	0	0			fine.
S. S. Mosel, N. 46° 44′, W. 34° 52′			55	12.8		ese.			4		8		e.	1 h'r	1 h'r	sm'h		rainy.
S. S. Neckar, N. 48° 36′, W. 23° 48′	29.93	760.2	59.9	15.5		sw.			2		5		sw.	0	0	sm'h	n.	fine.
S. S. Ohio, N 41° 21′, W. 58° 50′	30.17	766.3				ssw.			2		2		wsw.	0	0	sm'h	sw.	clear.
S. S. Rhein, N. 40° 10′, W. 69° 37′	29.95	760.7				s.			3		6		s.	0	0	mod.	s	fair.
S. S. Salier, N. 50° 18′, W. 3° 10′	30.18	766.6	54.5	12.5		ssw.			2		8		sw.	⅛ h'r	⅛ h'r	mod.	sw.	cloudy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 37° 18′ W. 147° 40′*†	29.76	755.9	62	16.7	83	ssw.			4		5		sw.	0	0	mod.	wsw.	d. clouds.
S. S. Belgic Hong Kong, China†	29.95	760.7	76	24.4	86	e.			3		5		ene.	0	0	sm'h		fair.
S. S. Gaelic, N. 29° 12′ E. 127° 16′ †	29.90	759.4	73	22.8	81	wnw.			4		5?		w.			sm'h	w.	clear.?
S. S. Oceanic, N. 42° 02′, W. 132° 20′*	30.25	768.3	53	11.7	93	n.			3		4		n.			2	w.	fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, N. 33° 32′, W. 77° 45′†	30.03	762.7				ese.			2		3		ese.					clear.
S. S. City of Columbus, New York, N. Y.†	29.79	756.7				se.			1		10			0	0			cloudy.
S. S. Seminole, N. 35° 18′ W. 75° 15′†	30.12	765.0	70	21.1	75	ssw			1		0			0	0	sm'h	se.	clear.
OREGON IMPROVEMENT COMPANY.																		
S. S. Willametta, N. 42° 14′, W. 124° 42′†	30.14	765.5	52	11.1	86	n.			6		6		n.	0	0	mod.	n.	cloudy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, Portland, Oregon†	30.15	765.8	54	12.2	93	sw.			1		10		sw.					fair.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 32° 39′, W. 117° 14′†	29.85	758.2	59	15.0	88	se.			1		10		se.			sm'h		cloudy.
S. S. State of California, N. 45° 50′, W. 124° 10′†	30.17	766.3	54	12.2	87	nnw.			2		7		nw.			sm'h		showery.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. City of New York, S. 16° —′, W. 171° —′†	30.04	763.0	84	28.9	83	ene.			4		8		ne.	0	0	mod.	ne.	fair.
S. S. City of Pekin, N. 35° 58′ E. 174° 32′†	30.05	763.3	64	17.8	78	wsw.			6		10		w.			light	w.	cloudy.
S. S. City of Rio de Janeiro, Mazatlan, Mexico *†	30.05	763.3	72	22.2	80	calm			0		0			0	0	long	sw.	fine.
S. S. City of Sydney, S. 33° 41′, E. 177° 25′†	30.02	762.5	62	16.7	77	e.			3		2		se.	0	0	mod.	e.	fair.
S. S. City of Tokio, N. 27° 52′, E. 126° 28′†	29.95	760.7	70	21.1	90	nne.			2		8		nne.	0	0	mod.	ne.	fair.
S. S. Clyde, N. 29° 11′, W. 117° 14′†	29.90	759.4	59	15.0	82	nw.			1		10		nw.	0	0	long	nw.	cloudy.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
Pacific Mail Steamship Company.—Continued.																		
S. S. Colima, Panama, Panama†	29.92	760.0	78	25.6	86	n.			2		7		calm	0.25	6.3			cloudy.
S. S. Granada, N. 36° 38′, W. 122° 10′†	29.89	759.2	54	12.2	87	wnw.			6		10			0	0	large	wnw.	hazy.
S. S. South Carolina, La Libertad, San Salvador†	29.99	761.7	81	27.2	87	ne.			2		2?		n.	2 h'r	2 h'r	light	sw.	cloudy.?
S. S. Zelandia, Sydney, N. S. W	30.11	764.8	58	14.4	76	w.			1		2		nw.					clear.
Quebec Steamship Co.																		
S. S. Muriel, Trinidad, W. I	29.96	761.0	82	27.8		e.			4		0			0	0	sm'h		fair.
S. S. Bermuda, N. 39° 05′, W. 72° 07′†	29.89	759.2	52	11.1		sse.			4		3		sse.	2 h'r	2 h'r	long	s.	fine.
Red Star Line.																		
S. S. Belgenland, Off Portland, Eng†	30.34	770.6	64	17.8	?	wsw.			4		2		wsw.	0	0	mod	w.	clear.
S. S. Nederland, N. 40° 22′, W. 70° 00′†	29.99	761.7	50	10.0		s.			3		10		s.	0	0	sm'h	e.	overcast.
S. S. Rhynland, N. 41° 21′, W. 48° 41′	30.19	766.8	49	9.4	85	nnw.			3		8		nnw.	0.04	1.0	mod.	nne.	cloudy.
S. S. Switzerland, N. 48° 59′. W. 15° 28′†	30.08	764.0				ssw.			3		2		ssw.	0	0	long	w.	fair.
S. S. Vaderland, Antwerp, Belgium	29.99	761.7	70	21.1	71	nw.			2		2			0	0			clear.
S. S. Waesland, N 47° 12′, W. 25° 20′	29.98	761.5	59	15.0		wsw.			2		5		w.	0	0	sm'h	w.	fair.
Rotterdam Line.																		
S. S. Schiedam, N. 40° 38′, W. 69° 27′*	29.89	759.2	55.4	13.0		ssw.			5		8		w.	0	0	mod		cloudy.
S. S. W. A. Scholten, N. 44° 47′, W. 43° 07′	29.72	754.9	53.0	11.7	79	nnw.			5		5		nnw.	0	0	mod.	n.	fair.
State Line.																		
S. S. State of Florida, N. 53° 08′, W. 16° 49′	29.77	756.1	62	16.7		sw.			5		3		sw.	sh'rs	shr's	mod	wsw.	clear.
S. S State of Indiana, N. 41° 00′, W. 56° 45′†	29.95	760.7	66	18.9					2		2			0	0	sm'h		clear.
Thingvalla Line.																		
S. S. Thingvalla, Copenhagen, Denmark†	30.55	776.0	73.4	23.0		ssw.			2		2		ssw.	0	0			clear.
Warren Line.																		
S. S. Iowa, Off Liverpool, England†*	30.15	765.8	63	17.2		ssw.			3		4		ssw.	0	0	sm'h		fair.
White Cross Line.																		
S. S. Plantyn, N. 49° 52′. W. 14° 44′	30.01	762.2									4		w.	0	0	6	w.	blue sky
White Star Line.																		
S. S. Baltic, N. 41° 21′ W. 62° 21′†	30.18	766.6	63	17.2	83	ese.			2		8		wnw.	2 h'r	2 h'r	sm'h	nw.	d. clouds.
S. S. Britannic, N. 50° 43′, W. 21° 15′†	29.91	759.7	50	10.0	93	wsw.			4		2		sw.	0	0	mod.	sw.	d. clouds.
S. S Celtic, New York, N. Y.†	29.85	758.2	56	13.3	100	se.			2		8		e.	0	0	sm'h		fair.
S. S. Germanic, N. 51° 14′, W. 11° 43′†	30.14	765.5	54	12.2		wsw.			3		1		wsw.			long	wnw.	d. clouds.
S. S. Republic, N. 41° 21′ W. 54° 17′†	30.35	770.9	67	19.4	68	s.			1		5		n.	0	0	sm'h		d. clouds.
Wilson Line.																		
S. S. Otranto, N. 46° 27′ W. 27° 33′†	30.02	762.5	68	20.0		e.			1		5?		e.			long	wnw.	clear.?
Miscellaneous.																		
Schr. Abbe Clifford, Orchilla Id., W. I.*†	30.02	762.5	82	27.8		ese.			6		3		ese.	0	0			fine.
Sch. Addie Fuller, Newport News, Va†	30.01	762.2	70	21.1	84	sw.			4	0	6 d		sw.	0	0			fair.
Bk. Adelaide, N. 15° 42′, W. 57° 18′*†	30.11	764.8	85	29.4		e.			4		2		ene.	0	0	mod.	e.	hazy.
Schr. Ajax, N. 28° 30′, W. 91° 23′†	29.93	760.2				w.			1		8		s.	0	0	sm'h	s.	cloudy.
Bk. Alpha, Guanatamo, W. I†	29.94	760.5	80	26.7		n.			1		1		ne.	0	0			fair.
Schr Annie Lewis, N. 27° 56′, W. 91° 45′†	29.93	760.2	79	26.1		sse.			5		8		sw.	0	0	long	se.	cloudy.
Bk. Anna Thormann, N. 6° 59′ W. 26° 31′	30.05	763.3	82.2	27.9	74	e.			2		4 k		e.	4 h'r	4 h'r	sm'h	s.	fair.
S. S. Antonio Lopez, N. 44° 03′ W 12° 25′*	30.20	767.1	63.5	17.5	83	se.			1		2 s			0	0	sm'h		fair.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.09	764.3	78	25.6		wsw.			5		10		wsw.	½ h'r	½ h'r			cloudy.
Schr. Annie M. Smull, N. 3° 02′. E. 106° 35′*†	29 90	759.4	87	30.6										0	0			
Bk. Bergenseren, N. 45° 29′, W. 19° 10′†	30.10	764.5				sw.			4				wsw.	0	0	5	nnw.	clear.
S. S. Compton, Philadelphia, Pa†	29.80	756.9				wsw.			2		8		wsw.	0	0			cloudy.
Schr. C. R. Flint, N. 28° 03′, W. 84° 39′†	30.08	764.0	76	24.4		se.			3		5		s.	0	0	sm'h		fair.
Schr. Edith R. Seward, N. 37° 12′, W. 76° 05′*†	30.12	765.0	71	21.7		sw.			1		2		calm	0	0	sm'h	ssw.	clear.
S. E. J. Spicer, London, England†	30.17	766.3				wsw.			2		7		wsw.	0	0			
Essex, N. 34° 09′ W. 44° 40′*†	30.18	766.6	70	21.1		nw.			3		1		nw.	0	0	long	nw.	clear.
Bk Freya, N. 56° 20′ W. 12° 08′			54	12.2		sw.			6		5		wsw.	3 h'r	3 h'r	mod	sw.	squally.
Godfrey, N. 41° 12′, W. 45° 04′	30.06	763.5	54.3	12.4	83	nnw.			6		9		n.	0	0	r'gh	nw.	cloudy.
S. Grecian, S 0° 30′ E. 107° 30′*†	29.85	758.2	82	27.8		calm			0		4		nw.	sq'ls	sq'ls	sm'h		clear.
Schr. Hattie G. McFarland, N. 45° 29′ W. 60° 23′*†	30.11	764.8	36?	2.2?		sw.			1					0	0			foggy.
S. Ismir, S. 1° 45′, W. 32° 40′†	30.02	762.5				ese.			3		5		ese.			sm'h	ese.	
James Slater, N. 32° 40′ W. 57° 45′*†	30.40	772.1	73	22.8		ese.			4		8			0	0	mod.	n.	threatening
Bk. Johanne, N. 53° 59′, E. 5° 20′*†	30.22	767.6	63	17.2		se.			1		0			0	0	sm'h		fair.
Schr. John L. Thomas, Albuquerque Cays, C. A*†	30.00	762.0				e.			3		2		e.	¼ h'r	¼ h'r			fair.
Bkt. Josephine, Guanatamo, W. I.*†	30.12	765.0	82	27.8	78	n.			2		0			0	0			hazy.
Bk. Julia H., Havana, Cuba, W. I	29.94	760.5	76.0	24.4	90	sse.			2		8 s;ks							d. clouds.
Light House Tender, Laurel, Pensacola Bay, Fla†	29.94	760.5	80	26.7		s			1		6		s.	0	0			cloudy.
Schr. Maggie Abbott, N. 28° 00′, W. 72° 00′*†	29.89	759.2				nne.			3				wnw.	rain	rain	mod.	e.	cloudy.
S. S. Malabar, N. 15° 44′, E. 113° 48′*†	29.78	756.4																
S. Minnie N. Gerow, N. 41° 45′, W. 29° 07′*†	30.00	762.0				sw.			4		7		w.			mod.	w.	hazy.
S. M. P. Grace, N. 40° 04′, W. 70° 19′			53	11.7		ssw			4		5		ssw.	0	0	mod.	sse.	
S. Paramita, S. 26° 30′ W. 40° 50′†	29.73	755.1	68	20.0		sw.			4		6		sw.	½ hr	½ hr	cross	se; n.	cloudy.
Bk. Pawashick, N. 40° 5′, W. 49° 55′*†	29.95	760.7	60	15.6	94	nnw.			6		5		nnw.			r'gh	nw.	
Bk. Peppina, Bordeaux, France†	30.10	764.5	74	23.3	63	sw.			2		2		sw.					fair.
S. S. Ponca, S. 0° 20′, W. 47° 20′†	29.96	761.0	86	30.0		ene.			2		8		e.	2 h'r	2 h'r	mod.	e.	fair.
Bk. Princessen, N. 48° 54′, W. 10° 48′†	30.10	764.6	59	15.0		sw.			3		0			1 h'r	1 h'r	long	wsw.	clear.
Bk. Rosebud, N. 10° 46′, W. 24° 43′†	30.05	763.3	83	28.3	67	e.			1–2		0			0	0	sm'h		fine
S. Salisbury, S. 39° 05′ E. 48° 06′*	30.56	776.3	50.7	10.4	82	e.			6		5		e.	0	0	long	ese	fair.
Bkt. Spotless, S. 6° 15′, W. 34° 36′*†	30.00	762.0				se.							e.			h'vy	e.	fine.
Bk. Stella, N. 11° 00′, W. 119° 30′*	29.77	756.1	78.1	25.6	98	n.			4		6 k		n.			sm'h	n.	showery.
Bk. Truro, Havre, France*†	30.15	765.8				n.			2		10		s.	0	0			cloudy.
U.S.F.C.S.S. Fish Hawk, Havre de Grace, Md†	30.07	763 8	72	22.2	95	sw.			3		5		sw.	0.20	5.1			fair.
Yacht Vega, N. 18° 16′ W. 64° 18′*†	30.28	769.1	82	27.8		ese.			3				ese.	0	0	long	ene.	
S. S. Victoria J Peed, Barranquilla, U. S. C*†	30.12?	739.4?				s.			3		10							
Bk. Vincenzo Accame N. 40° —′, W. 72° —′			59	15.0		se.			4									
Schr Viola Reppard, Brunswick, Ga†	29.83	757.7	78	25.6		sse.			4		2		sse.	0	0			fair.
Bk. Wm. Wilcox, N. 23° 35′ W. 36° 37′*†	30.42	772.7	78	25.6		ene.			2		0			0	0	sm'h		clear.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 29, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
ALGERIAN.																			
Nemours			30.11	764.8	74.5	23.6	78	sw.			5		2			0	0	fair	Moiroud
Algiers			30.10	764.6	74.5	23.6	62	ne.			1		0			0	0	clear	Nicolas.
La Galle			30.11	764.8	79.5	26.4	64	ene.			1		1			0	0	very fair	Fonfrède.
Tunis			30.12	765.0															Jacques.
Saida			30.19	766.7															Dumas.
Tebessa			30.23	767.8	87.4	30.8	14	se.			1		2?			0	0	cloudy?	Derché.
Geriville					87.8	31.0	14	se.			7		0			0	0	clear	Lonchamp.
Laghouat			30.21	767.4	89.6	32.0	43	e.			2		0			0	0	clear	Abraham.
Biskra			30.21	767.4	101.5	38.6	15	se.			1		9			0	0	covered	Malau.
AUSTRALIAN.																			
Melbourne, Victoria	29.75	755.6	29.84	757.9	55.4	13.0	84	nne.	4	1.8			10					showery	R. L. J. Ellery.
AUSTRO-HUNGARIAN.																			
Agram	29.66	753.4	30.19	766.7	81.7	27.6	40	se.			1		3			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.52	749.7	30.26	768.7	72.7	22.6	53	e.	3.8	1.7			3			0	0		Dr. Wierzbiski.
Eperies	29.34	745.2	30.19	766.8	73.4	23.0	50	n.			2	0	4 s		s.	0	0		Julius Mikolik.
Gratz	29.00	736.6	30.20	767.0	76.3	24.6	81	s.			2		0			0	0	thunder	Andreas Rospini.
Hermannstadt	28.76	730.4	30.13	765.3	74.8	23.8	49	n.			2		3			0.280	7.1		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.90	734.1	30.19	766.7	78.8	26.0	64	ne.			1	4 c	0			0	0	lightly cl'dy	The Staff.
Lemberg	29.22	742.1	30.17	766.4	70.0	21.1	55	ne.			3		7			0	0		Dr. T. Stanecki.
Pola	30.13	765.3	30.24	768.1	77.5	25.3	66	wnw.			2		3			0	0		I. R. Hydrographic Office.
Szathmar	29.68	753.9	30.13	765.4	77.0	25.0	81	n.			3		1			0	0		Joseph Midlinszky, S. J.
Szegedin	29.93	760.1	30.19	766.9	75.7	24.3	46	n.			3		6			0	0		Karl Stancel.
Trieste	30.15	765.8	30.25	768.4	82.0	27.8	48	calm			0		0			0	0		Rieder.
Vienna	29.55	750.6	30.24	768.1	77.9	25.5	38	ne.			1		0			0	0		I. R. Central Met. Obs'y.
BRITISH.																			
Aberdeen	30.06	763.5	30.16	766.1	64.5	18.1	33	s.	15	6.7			2			0	0	blue sky	W. Boswell
Armagh, Observatory	30.03	762.7	30.28	769.1	55.7	13.2	73	sw.	11	4.9			10					overcast	S. Gall.
Bidston, Liverpool Obs'y			30.30	769.6	60.5	15.8	82	wnw.	12	5.4			3					d clouds	John Hartnup.
Bolton, Sharples	29.75	755.6	30.29	769.4	60.0	15.6	66	wsw.	7	3.1			6					d. clouds	Thomas Mackereth. [A.S.
Bradford, Yorkshire	29.87	758.7	30.27	768.8	61.6	16.4	55	sw.			1		5			0	0	d. clouds	J. McLandsborough, F. R
Bridgetown, Barbadoes	29.99	761.7	30.02	762.5	84.0	28.9	69	ne.			4		3					d. clouds	Corpl. J. Surgenor, A. H.C.
Cardington			30.30	769.6	71.0	21.7	49	n.			0.4		2					blue sky	John McLaren.
Chatham, School M. E.	30.18	766.6	30.31	769.9	69.5	20.8	52	calm			0		5					d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	30.13	765.3	30.35	770.9	57.4	14.1	81	sse.			2		7					overcast	The Staff.
Fort Napier, Natal	27.46	697.5	29.68	753.9	64.0	17.8	29	calm			0		0					blue sky	Pvt. E. K. Annis, A.H.C.
Free Town, Sierra Leone	29.59	751.6	29.82	757.4	86.0	30.0	83	n.			1		5					raining	Sergt. John Robinson.
Gibraltar, Mediterranean	30.07	763.8	30.12	765.0	73.5	23.1	81	ne.			2		0					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	30.03	762.7	30.24	768.1	60.4	15.8	55	wsw.			4		5 k					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.14	765.5	30.31	769.9	71.1	21.7	54	ssw.			1		3					misty	The Staff.
Guernsey	30.06	763.5	30.36	771.1	60.0	15.6	80	nnw.			1		3					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	30.28	769.1	30.32	770.1	65.4	18.6	48	w.	5	2.2			7					d. clouds	The Staff.
Leicester, Museum	30.06	763.5	30.31	769.9	60.5	15.8	63	sw.			1		0					blue sky	J. O. Smith.
Malta, Mediterranean	30.09	764.3	30.17	766.3	78.0	25.6	61	ne.			2		3					blue sky	I. H. Whysall.
Nassau, Bahamas	30.03	762.7	30.07	763.8	83.2	28.4	83	sw.			2		4			blank	blank	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.78	756.4	30.30	769.6	62.1	16.7	61	wsw.			2		5					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	30.09	764.3	30.32	770.1	63.1	17.3	59	w.			1		7					d. clouds	The Staff.
Plymouth	30.26	768.6	30.33	770.4	63.8	17.7	68	sw.			1		2					d clouds	John Merrifield.
Sandwick Manse, Orkneys			30.10	764.5	55.3	12.9	73	sw.	20	8.9			3					d. clouds	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	30.00	762.0	30.06	763.5	81.2	27.3	44	ne.			2		1					blue sky	W. H. Lyne.
Sheffield	30.01	762.2	30.28	769.1	69.0	20.6	56	sw.			1		1			0	0	blue sky	W. F. Cooper.
Silloth Rectory	30.24	768.1	30.28	769.1	62.2	16.8	60	w.			1		0			0	0	blue sky	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.30	769.6	60.0	15.6	70	w.	12	5.4			10					d. clouds	J. New.
Stratfield Turgiss	30.10	764.5	30.31	769.9	67.5	19.7	62	sw.			1		5					d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	30.32	770.1	30.33	770.4	64	17.8	62	nw.			4		5					d. clouds	W. Newcombe.
Valencia, Observatory	30.25	768.3	30.28	769.1	58.9	14.9	76	ssw.	22	9.8			5					d. clouds	The Met'g'l Office.
CANADIAN.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.60	751.8	29.64	752.8	55	12.8	93	s.	10	4.5		2 c	3 s	calm		0.520	13.2	fair	H. J. Cundall, C. E.
Chatham, N. B*	29.56	750.8	29.62	752.3	47	8.3	93	nw	5	2.2			10 n		nw.	1.25	31.7	light rain	G. A. Blair.
Father Point, Quebec*	29.66	753.4	29.68	753.9	40	4.4	100	ne.	10	4.5			fg.			0.28	7.1	light fog	J. McWilliams.
Fort Garry, Manitoba*																			
Halifax, N. S*	29.62	752.3	29.74	755.4	54	12.2	96	sw.	4	1.8			10 k		w.	0.338	8.6	cloudy	A. Allison.
Kingston, Ontario*	29.53	750.0	29.87	758.7	50	10.0	61	ne.	5	2.2		0	0			0.03	0.8	clear	A. P. Knight, M. A.
Montreal, Quebec*	29.54	750.3	29.74	755.4	49	9.4	66	n.	12	5.4			10 s			0.01	0.3	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.31	744.5	30.00	762.0	49	9.4	50	n.	2	0.9		0	0			0	0	clear	Rev. R. Mosley.
Port Dover, Ontario	29.31	744.5	30.01	762.2	47	8.3	70	n.	8	3.6		0	0			0.09	2.3	clear	H. Morgan.
Port Stanley, Ontario	29.36	745.7	30.01	762.2	44	6.7	74	n.	3	1.3		0	0			0.03	0.8	clear	M. Payne.
Quebec, Quebec*	29.39	746.5	29.71	754.6	45	7.2	96	calm			0		10 n		calm	0.07	1.8	light rain	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.48	748.8	29.94	760.5	46	7.8	60	nw.	5	2.2		0	0			0	0	clear	W. H. McIntyre.
Saugeen, Ontario*	29.30	744.2	30.02	762.5	46	7.8	56	n.	1	0.4		0	0			0	0	clear	
St. Andrews, N. B	29.52	749.8	29.57	751.1	45	7.2	98	se.	4	1.8			fg			0.59	15.0	dense fog	
Sydney, C. B*	29.75	755.6	29.81	757.2	45	7.2	93	sw.	8	3.6			10 n			0.82	20.8	cloudy	T. C. Hill, C. E
Toronto, Ontario*	29.62	752.3	30.01	762.2	49	9.4	56	nw.	8	3.6		0	0			0.06	1.5	clear	Magnetic Observatory.
Yarmouth, N. S*	29.57	751.1	29.63	752.6	57	13.9	86	sw.	12	5.4		3 c	0	s.		0.03	0.8	fair	Lt. F. E. Wilmot, R. N
Sub-series.																			
St. Johns, Newfoundland	30.02	762.5	30.27	768.8	45	7.2	84	nw.				0	0			0	0		John Delany.
CAPE COLONY.																			
Cape St. Francis Lt. House	30.04	763.0	30.07	763.8	65.0	18.3	83	wsw.	12.4	5.5		0	2 s			0	0	light haze	John Duthie.
Cape Town, C. G. H. Obs'y	29.93	760.2	29.97	761.2	71.3	21.8	80	sw.	10	4.5		8	6			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Chinese (*Sub-series*).																			
Hankow	29.84	757.9	30.11	764.8	74.2	23.4	70	calm			0		0			0	0		N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.89	759.3	29.92	760.0	70.0	21.1	77	s.	8.3	3.7		7 ck	0	e.		0	0	very cloudy	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	30.15	765.8	30.20	767.0	61.9	16.6	78	sse.	13	6			10					raining	Oversergent Fischer.
Fanöe	30.17	766.3	30.19	766.8	66.0	18.9	75	nw.			6		3						Overloerer Lauridsen.
Godthaab, Greenland	30.07	763.8	30.11	764.9	36.3	2.4	87	n.			2		10			0	0		S. Kleinschmidt.
Stykkisholm, Iceland	29.85	758.2	29.89	759.3	39.2	4.0	90	calm			0		5						A. O. Thorlacius.
Thorshavn	29.80	757.0	29.84	757.9	53.2	11.8	80	sw.	22	10			8						Overloerer Bergh.
Vestervig	30.11	764.8	30.20	767.1	59.7	15.4	89	nnw.			2		9						Loearer Oesterbol.
French.																			
Agen, Normal School	29.54	750.2	30.16	766.1	73.4	23	55	calm			0		10		sw.	0	0	covered	M. Labroue, Director.
Alençon, Normal School	29.80	757.0	30.35	771.0	63.3	17.4	74	ne.			1		kn		ne.	0.094	2.4		M. Nicot, Director.
Arras, Engineer School	30.05	763.3	30.30	769.7	69.3	20.7	54	nw.			1		k			0	0		M. Fénéon, Command't.
Avignon, Normal School	30.10	764.5	30.18	766.5	86.7	30.4	53	sw.			1		10			0	0	covered	M. Giraud, Director.
Bar-sur-Seine	29.73	755.2	30.28	769.0	70.2	21.2	68	e.			1		9			0.031	0.8	very cloudy	M. Saillard, Director.
Beauvais, Normal School	30.06	763.6	30.32	770.2	66.7	19.3	60	ene.			1		8	sw.	ene.	0.173	4.4	very cloudy	M. Frère Eugène Mari.
Besançon, Normal School	29.28	743.6	30.13	765.3	81.0	27.2	61	nw.			1	2 c	0	s.		0	0	slightly cl'dy	M. Gobin, Director.
Bordeaux, Observatory	29.93	760.3	30.19	766.8	71.8	22.1	87	sw.			1		10		s.	0.189	4.8	covered	M. Rayet, Director.
Bourges, Normal School	29.54	750.3	30.08	764.0	70.2	21.2	83	nne.			2		k		ne.	0.04	1.		M. Postel, Director.
Brest, Naval Observatory	30.08	764.1	30.32	770.2	65.5	18.6	75	nne.			1		8		nne.	0	0		M. de Kermaree, Dir.
Caen, Normal School	30.31	769.8	30.34	770.7	64.4	18	74	sw.			1		10			0	0	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.90	759.5	30.22	767.5	65.5	18.6	82	nw.			1		10			0	0	covered	M. Jadot, Director.
Charleville, Normal School	29.82	757.3	30.31	769.9	67.1	19.5													M. Grimard, Director.
Clermont-Ferrand Obs'y	28.87	733.2	30.16	766.0	80.6	27.0	59	ne.			1		2			0	0	¼ covered	M. Alluard, Director.
Cluny, Normal School	29.38	746.3	30.20	767.1	77.0	25	53	ne.			2		3		s.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.42	747.2	30.27	768.8	75.4	24.1	53	nne.			1		5 kn	nne.	nne.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.75	704.8	30.21	767.4	72.3	22.4	39	se.			1	0	1 k		w.	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	29.09	738.9	30.15	765.8	89.8	32.1	28	e.			3		5		e.	0	0		M. Kina, Director.
Grenoble, Normal School	29.41	747.0	30.14	765.6	78.4	25.8	59	nw.			1		skn			0	0		M. Ablard, Director.
Guéret, Normal School	28.63	727.3	30.21	767.4	60.8	16	79	w.			1		10		w.	0	0	covered	M. Rivoire, Director.
Lamballe, Normal School	29.99	761.8	30.26	768.7	65.5	18.6	60	ene.			2		8		ene.	0.08	2.	very cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.67	753.6	30.22	767.7	69.4	20.8	75	nw.			1		10					raining	M. Chauvin, Director.
Lorient, Naval Observatory	30.21	767.3	30.31	769.9	68.0	20.0	76	ene.			1		8		e.	0	0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.17	741.0	30.20	767.0	77.0	25.0	61	ene.			1		10 cn			0	0	covered	M. André, Director.
Mans, Normal School	30.00	762.0	30.31	769.8	63.1	17.3	67	ne.			1		8		ne.	0.102	2.6	very cloudy	M. Piboen, Director.
Marseille, Observatory	29.88	759.0	30.14	765.6	86.0	30.0	40	ssw.			1		7		sw.	0	0		M. Stephan, Director.
Montlouis	25.05	636.3	29.89	759.3	71.6	22.0	34	sw.	10.5	4.7			5		w.	0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	30.04	763.0	30.17	766.2	80.6	27	66	s.			2		5			0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	29.50	749.3	30.26	768.7	73.8	23.2	60	nw.			1	ck	0	nw.		0	0		M. Hasse, Director
Nantes, Observatory	30.14	765.6	30.30	769.7	61.5	16.4	76	nne.			1–2		10 n			0.39	10.	rainy	M. Larocque, Director.
Perpignan, Observatory	30.06	763.4	30.16	766.1	78.1	25.6	45	se.	9.4	4.2			7	sw.	ssw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.51	546.3			40.6	4.8		sw.			1		5		sw.	0	0	cloudy	Gen'l de Nansouty, Dir.
Privas, Normal School	29.13	740.0	30.19	766.8	82.0	27.8	27	n.			1			n.	n.	0	0		M. Tallieu.
Puy de Dôme Obs'y, Summit	25.43	645.8			60.3	15.7	82	sse.			2		8			0	0	¾ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	30.15	765.9	30.19	766.7	70.2	21.2	92	nne.			1		8		ene.	0.276	7.0	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.03	762.7	30.24	768.2	59.4	15.2	96	n.			1		10					raining	M. Mouillot, Director.
Rodez, Normal School	28.03	711.9	30.11	764.8	70.7	21.5	52	n.					1		e.	0	0	clear	M. Serger, Director.
Rouen, Normal School	30.28	769.1	30.33	770.3	64.8	18.2	68	nne.			1		2			0.295	7.5	slightly cl'dy	M. Brotier.
Saint Maur, Observatory	30.15	765.7	30.31	769.9	61.7	16.5	84	n.			1		10		s.	0.008	0.2		M. Renou, Director.
Toulouse, Observatory	29.49	749.1	30.22	767.6	82.4	28.0	47	e.			1		5	w.		0	0	cloudy	M. Baillaud, Director.
Tours	30.09	764.2	30.26	768.7	66.2	19.0	75	ne.			1		10	s.	ene.			rainy	
Versailles, Observatory	29.84	757.8	30.33	770.3	61.2	16.2	79	ne.			1					0.079	2.0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	30.04	762.9	30.33	770.3	62.2	16.8	77	nne.			1		10		ne.	0.051	1.3		M. Marié Davy, Director
German.																			
Bamberg	29.38	746.3	30.24	768.2	79.5	26.4	40	s.			1	0	4 ks		sw.	0.004	0.1		Prof. Dr. Hoh.
Berlin	29.98	761.6	30.15	765.9	75.6	24.2	53	se.			6		8			0	0		Prof. Dr. Arndt.
Breslau	29.78	756.3	30.31	769.9	72.7	22.6	50	se.			2		5			0	0		Royal University Obs'y.
Carlsruhe	29.80	756.8	30.22	767.6	78.8	26.0	52	e.			1		9	sw.		0	0		Albert Senz.
Cassel	29.47	748.4	30.18	766.5	79.2	26.2	50	w.			2		8	s.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.84	757.9	30.18	766.6	81.5	27.5	46	nw.			1		5			0.031	0.8		Physical Society.
Friedrichshafen	28.79	731.3	30.17	766.4	74.8	23.8	62	ne.			1		10	w.		0	0		Wilhelm, Chief Tel.
Hamburg	30.10	764.5	30.19	766.9	70.9	21.6	60	wnw.			2		3			0.094	2.4		E. Preller.
Kiel	30.18	766.5	30.19	766.9	64.9	18.3	81	n.			1		7			0.193	4.9		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.80	756.8	30.20	767.0	83.1	28.4	32	sw.			5		6	sw.		0	0		H. Leppig, Asst.
Magdeburg	29.98	761.5	30.16	766.1	80.8	27.1	44	wnw.			2	0	6 ks;k		wsw.	0	0		Profs. Brandes & Reimer
Memel	30.31	769.8	30.35	771.0	63.5	17.5	74	w.			1	3 cs	0						Dr. Assmann.
Munich	28.42	721.9	30.30	769.6	81.7	27.6	31	ne.			1		3	sw.		0	0		Isermann.
Neufahrwasser	30.29	769.4	30.31	769.8	75.6	24.2	51	se			1		10			0	0		Central Station.
Neustadt, Palatinate	29.71	754.6	30.24	768.1	77.7	25.4	55	calm			0		7			0.031	0.8		A. Lothes.
Stuttgart	29.30	744.1	30.15	765.8	78.4	25.8	48	n.			1		3	w.		0	0		Dicknether.
Wustrow	29.15	765.8	30.17	766.4	68.0	20.0	67	s.			2		10 s			0.138	3.5		Prof. Dr. Schoder.
Greek.																			Profs. Brandes & Reimer
Athens	29.73	755.1			81.9	27.7		ne.			2.0		2 k			0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.58	751.4	29.63	752.6	86.7	30.4	76	wsw.	38.0	17.0			3		w.	0	0	misty	
Deesa	29.08	738.6	29.52	749.9	105.1	40.6	39	wsw.	15.6	7.0			0			0	0	misty	
Bombay	29.67	753.5	29.70	754.4	87.6	30.9	73	nw.	16.0	7.2			3	nw.	nnw.	0	0	d. clouds	
Poona, Yarrowda	27.91	708.9	29.75	755.7	80.8	27.1	54	nw.	18.0	8.0			9		wnw.	1.34	34.0	thud'r storm	
Bellary	28.18	715.9	29.63	752.7	83.6	28.7	56	s.	6.0	2.7			9	s.		0	0	gloomy	
Belgaum	27.18	690.2	29.66	753.4	83.8	28.8	55	sw.	8.0	3.6			2	e.	sw.	0.44	11.2	thund'r st'm	
Lahore	28.63	727.1	29.31	744.6	112.3	44.6	13	calm	0.9	0.4			0			0	0	blue sky	
Roorkee	28.48	723.2	29.31	744.6	106.3	41.3	22	nw.	3.1	1.4			2			0	0		
Agra	28.89	733.7	29.41	747.0	112.6	44.8	10	w.	4.5	2.0			0			0	0		
Nagpur	28.49	723.7	29.48	748.8	105.7	40.9	19	nne.	9.2	4.1			8		nw.			drizzling	
Jubbulpore	28.20	716.2	29.48	748.7	105.9	41.1	18	nw.	3.4	1.5			2			0	0	d. clouds	
Lucknow	29.07	738.3	29.42	747.3	106.4	41.3	21	w.	2.5	1.1			5			0	0	d. clouds	
Allahabad	29.10	739.1	29.39	746.5	108.6	42.6	18	nnw.	2.7	1.2			0			0	0	blue sky	
Patna	29.33	745.1	29.51	749.6	93.1	33.9	71	e.	8.9	4.0			0			0	0	blue sky	
Hazaribagh	27.50	698.4	29.40	746.8	100.3	37.9	26	nw.	13.4	6.0			0			0	0	blue sky	
Cuttack	29.47	748.6	29.55	750.6	90.9	32.7	57	s.	7.7	3.4			0			0.01	0.3		
Calcutta, Alipore	29.51	749.6	29.53	750.1	89.0	31.7	69	ssw.	13.0	5.8			2		sw.	0.50	12.7	d. clouds	
Dhubri	29.52	749.7	29.63	752.7	79.4	26.3	82	ene.	9.2	4.1			9			3.06	77.7	gloomy	
Chittagong	29.62	752.2	29.71	754.6	77.7	25.4	94	s.	7.6	3.4			10			0.59	15.0		
Sibsagar	29.43	747.6	29.77	756.2	75.6	24.2	84	ene.	3.4	1.5			10	w.	w.	0.64	16.3	d. clouds	
Jeypore	28.07	713.0	29.43	747.4	107.7	42.1	17	w.	9.9	4.4			0			0	0	blue sky	
Zanzibar, Africa	29.99	761.7			84.1	28.9	56	se.	7.3	3.3			4			0	0	d. clouds	
Italian.																			
Udine	29.84	757.8	30.23	767.9	85.6	29.8	53	w.	1.8	0.8			4			0	0		Prof. Giovanni Clodig.
Milan	29.76	755.8	30.26	768.5	85.1	29.5	42	w.	3.8	1.7			7	wnw.		0	0		Prof. Schiaparelli.
Padua	30.17	766.3	30.28	769.0	82.4	28.0	42	ssw.	4.9	2.2			1			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.37	745.9	30.24	768.2	80.6	27.0	47	s.	1.8	0.8			5	ne.		0	0		Prof. P. F. Denza.
Genoa	30.06	763.4	30.24	768.2	81.3	27.4	45	w.	1.8	0.8			10			0	0		Prof. G. M. Garibaldi.
Mondovi	28.39	721.1	30.32	770.2	77.0	25.0	46	e.			4		0			0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
ITALIAN.—Continued.																			
Pesaro	30.20	767.1	30.25	768.3	75.6	24.2	58	ne.	8.1	3.6			0			0	0		Prof. Luigi Guidi.
Florence	29.97	761.1	30.21	767.4	86.4	30.2	26	ne.			2		0			0	0		Prof. Costantino Pitter,
Leghorn	30.08	764.1	30.17	766.2	80.8	27.1	55	nw.	2.5	1.1			3			0	0		Prof. P. Monte.
Rome	30.04	763.1	30.21	767.4	85.6	29.8	29	sw.	11.2	5.0			0			0	0		Prof. P. S. Ferrari.
Lecce	29.94	760.4	30.19	766.8	77.5	25.3	39	nne.	10.5	4.7			0			0	0		Prof. O. de Giorgi.
Cosenza	29.30	744.1	30.16	766.0	82.8	28.2	76	wnw.	4.3	1.9			2	w.		0	0		Prof. D. Conti.
Cagliari	29.97	761.3	30.16	766.1	76.5	24.7	49	s.			4		0			0	0		Prof. A. Pacinotti.
Palermo	29.96	761.0	30.21	767.2	77.4	25.2	55	ne.	5.6	2.5			0			0	0		Prof. G. Ciacciatore.
Syracuse	30.08	764.1	30.13	765.2	79.0	26.1	53	se.	3.1	1.4			1	sw.		0	0		Prof. Vincenzo Gulliano
Sub-series.																			
Naples, S. R	29.67	753.5	30.17	766.2	84.4	29.1	42	ne.	5.6	2.5			3	ne.		0	0		Prof. T. Brioschi.
Stelvio	22.56	573.1			52.2	11.2	61	sw.			4		4			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.60	574.1			53.4	11.9	67	nw.			2		10			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.99	761.7	30.03	762.7	52.0	11.1	89	w.	1.5	0.7		4 ck	0	w.		0	0	fair	K. Ogawa.
Hakodate	30.00	762.0	30.01	762.2	50.0	10.0	80	calm	0	0			5			0	0	fair	
Hiroshima, I. M. Obs'y	29.95	760.7	29.96	761.0	63.2	17.3	74	nne.	6.4	2.9		7 cs	0			0	0	cloudy	J. Sogawa.
Kanazawa	29.94	760.5	30.05	763.3	53.1	11.7	91	e.	3.0	1.3		0	0			0	0	clear	S. Endo.
Kioto	29.88	758.9	30.05	763.3	53.0	11.7	79	nnw.	1.0	0.4		0	0			0	0	clear	M. Tojima.
Kochi	30.00	762.0	30.02	762.5	66.5	19.2	87	nw.	2.9	1.3		10 ck	0	w.		0.277	7.0	cloudy	K. Kusunose.
Nagasaki, I. M. Obs'y	29.80	756.9	30.00	762.0	62.4	16.9	84	ne.	1.9	0.8		4 cs	0			0	0	fair	S. Takehayashi.
Niigata	30.03	762.7	30.06	763.5	55.9	13.3	81	n.	5.2	2.3		10 ck		n.	n.	0	0	cloudy	M. Morita.
Nobiru	30.02	762.5	30.03	762.7	51.7	10.9	89	se.	2.9	1.3			10 n;s			0.010	0.2	light rain	H. Midxushina.
Supporo					50.7	10.4	93	calm	0	0			10			0.010	0.2	covered	
Tokei Obs'y, Yeddo	29.96	761.0	30.03	762.7	56.3	13.5	86	e.	3.5	1.6		ck	10 ks		n.	0.062	1.6	cloudy	The Staff.
Wakayama	29.96	761.0	30.01	762.2	62.5	16.9	61	nne	4.9	2.2		2 ck	0	w.		0	0	clear	Y. Kuwamuea.
MAURITIUS																			
Mauritius Observatory	29.88	758.9	30.07	763.8	75.7	24.3	64	ese.	20.5	9.2		0	8 ks;n		ese.	0	0	cloudy	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.66	601.0	29.88	759.0	64.4	18.0	68	calm	0	0		5 ck	3 k			0	0	gloomy	Prof. Vicente Fernandez.
Leon	24.26	616.2	30.08	764.0	63.7	17.6	83	ssw.			1	5 c	0	sw.		inap.	inap.	fair	Prof. M. Leal.
Mazatlan	29.62	752.3	29.88	758.8	72.5	22.5	90	e.				1 cs	0	n.				light haze	F. Quijano, C. E.
Mexico, Central Obs'y	23.09	586.4	30.09	764.2	56.5	13.6	81	nw.	0.4	0.2			10 n			0.232	5.9	covered	The Staff.
Morelia	24.03	610.3	30.04	763.0	61.3	16.3	59	e.			3	2	1	s.	s.	0.354	9.0	clear	M. Tena, M. D.
Pabellon, Aguascalientes	23.89	606.7	29.78	756.4	65.8	18.8	76	s.			1					0	0		M. Y. de Leon, M. E.
Puebla, Catholic Institute	23.38	593.9	30.04	763.1	57.2	14.0	88	calm	0	0		0			se.	0.693	17.6	clear	Prof. P. Spina.
San Luis Potosi	24.19	614.3	30.06	763.4	64.4	18.0	76	sse.			1	3	1		w.	0.071	1.8	clear	G. Barroeta, M. D.
Zacatecas	22.54	572.5	30.07	763.8	59.0	15.0	79					8 cs	0	ne.		1.791	45.5	cloudy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.33	770.3	30.33	770.3	61.2	16.2		w.			3					0.067	1.7		
Groningen	30.19	766.9	30.25	768.3	68.2	20.1		n.			1					0	0		
Helder	30.28	769.1	30.28	769.1	60.8	16.0		nw.			1					0	0		
Hellevoetsluis	30.22	767.7	30.22	767.7	64.0	17.8	72	wsw.			1					0.004	0.1		
Utrecht	30.25	768.3	30.30	769.5	73.2	22.9	58	wnw.			1		5			0	0	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	30.12	765.0	30.18	766.6	48.4	9.1	68	ssw.	16	7			7			0.079	2.0		
Brono	30.08	764.1	30.12	765.1	65.3	18.5	35	calm	0	0			3			0	0		
Christiania	30.03	762.7	30.17	766.4	59.9	15.5	76	ssw.	11	5			10			0.016	0.4	raining	
Gjæsvær	30.15	765.7	30.17	766.3	41.9	5.5		w.			2		9						
Lodingen	30.08	764.0	30.13	765.2	47.3	8.5	94	sw.			1		10			0.472	12.0	rain & fog	
PORTUGUESE.																			
Angra, Azores					60.1	15.6	81	sw.	11.2	5.0			5			0.118	3.0		Dr. J. A. Sampaio.
Campo Major	29.19	741.5	30.18	766.5	68.2	20.1	55	sw.	6.9	3.1			3			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.10	766.8	30.28	769.0	68.4	20.2	61	e.	6.3	2.8			6			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.88	759.0	30.24	768.1	65.3	18.5	52	nnw.	19.9	8.9			1			0	0		The Staff.
Ponta Delgada, Azores	30.06	763.4	30.13	765.2	63.0	17.2	76	ssw.	16.8	7.5			3			0.035	0.9		
Saint Paul de Loando	29.78	756.4	29.98	761.5	78.8	26.0	82	nnw.	0.7	0.3			1	sse.		0	0	foggy	
Serra da Estrella	25.42	645.7	30.15	765.9	50.2	10.1	88	w.	7.4	3.3			9			0.004	0.1	foggy	
RUSSIAN.																			
Akmolinski	28.72	729.4	29.74	755.4	74.5	23.6	41	wsw.	11	5		4 ck	0			0	0		Major K. Lasarew.
Archangel	30.16	766.0	30.18	766.5	58.8	14.9	59	wnw.	13	6		0	8 ks			0	0		Capt. Sseliwerstow.
Astrakhan	30.09	764.3	30.01	762.2	80.1	26.7	50	ssw.	4	2		0	7 s			blank	blank	light clouds	Capt. Wisganow.
Barnaul	29.45	748.0	29.94	760.4	62.1	16.7	42	calm	0	0			0			0	0		Meteorological Obs'y.
Dorpat	30.00	761.9	30.23	767.9	73.2	22.9	52	n.	4	2		0	8 k			0	0		Observatory.
Ekaterinburg	28.81	731.7	29.73	755.1	70.2	21.2	36	w.	13	6		c	8 ks;n			0	0		Meteorological Obs'y.
Kasan	29.64	752.9	29.89	759.3	79.0	26.1	30	wsw.	13	6			9			0.012	0.3		Observatory.
Kertch	30.02	762.4	30.04	762.9	62.1	16.7	88	sse.	4	2		0	5 ks			0.205	5.2		Lagorio & Sastyrex.
Kieff	29.41	747.0	30.02	762.4	75.9	24.4	41	n.	9	4		ck	8 ks;n			0	0		Observatory.
Lugan	29.82	757.3	30.01	762.3	75.7	24.3	56	sw.	4	2			8			0.362	9.2		Meteorological Obs'y
Moscow	29.56	750.8	30.02	762.6	61.2	16.2	84	nnw.	4	2			9 ks						Meteorological Obs'y.
Nikolajev	30.01	762.3	30.08	764.1	82.4	28.0	47	ne.	4	2		0	3 kn			0.071	1.8		Capt. Kurdakow.
Nikolaievsk, on the Amoor.	29.63	752.5	29.71	754.7	46.6	8.1	89	se.	9	4			10			0.984	25.0	raining	Lieut. Iwanow.
Pekin, China	29.55	750.5	29.69	754.1	84.9	29.4	44	calm	0	0		3 cs	0			0	0		Physical Observatory
St. Petersburg	30.17	766.3	30.19	766.7	64.9	18.3	58	nw.	11	5		ck	4 n			0	0		Central Physical Obs'y.
Semipalatinsk	29.26	743.1	29.89	759.1	70.5	21.4	36	calm	0	0		3 c	0			0	0	light clouds.	Major Lasareu.
Tashkend, Laboratory	28.34	719.8	29.81	757.2	84.9	29.4	34	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.64	727.4	29.99	761.8	79.0	26.1	48	calm	0	0		c	6 ks			0	0		Physical Observatory
Vladivostock	29.88	759.0	29.95	760.7	48.9	9.4	92	se.	7	3			10 n			0	0		
Warsaw	29.87	758.6	30.28	769.1	73.2	22.9	35	ssw.	2	1		2 cs	0					light clouds	Astronomical Obs'y
Wilna	29.84	757.9	30.24	768.2	72.1	22.3	47	nnw.	7	3			2			0	0		Berg, Assistant.
Yeniseisk																			M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	30.01	762.2	30.11	764.9	69.8	21	67	e.	3.1	1.4		5 c;ck	0			0	0	½ covered	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.12	765.1	30.18	766.6	69.1	20.6	70	nw.	2.2	1.0			10			0.425	10.8	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.23	691.6	30.14	765.5	64.4	18.0	64	sw.	2.9	1.3			10			0.067	1.7	covered	Domingo Martin.
Madrid, Royal Obs'y	27.89	708.5	30.02	762.6	79.5	26.4	45	se.	8.1	3.6		0	4			0.122	3.1	cloudy	The Staff.
Murcia, Met. Obs'y	29.92	760.0	30.09	764.3	81.3	27.4	54	sse.	2.7	1.2		5	5			0	0	hazy	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.26	743.3	30.15	765.9	63.3	17.4	72	n.	9.8	4.4			9			0	0	almost cov.	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	29.94	760.6	30.01	762.2	80.2	26.8	85	s.	0	0		2 ck	1 k	wsw.		0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.80	756.8	29.85	758.2	79.3	26.3	86	ne.	0.4	0.9			9 kn		sw.	0.591	15.0	threatening.	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.09	764.2	30.19	766.6	71.2	21.8	66	w.	6.8	3.0		0	1		nw.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.98	761.6	30.08	763.9	83.5	28.6		se.	9.4	4.2		4 s	2 k	se.	se.	0	0		Manuel Muese.
Tuguegarao, Philippine Id's	29.73	755.1	29.86	758.4	77.4	25.2	90	e.	0	0			10 kn		se.	0.38	9.7	covered	José L. Yrastorza.
SWEDISH																			
Haparanda	30.13	765.2	30.17	766.2	57.6	14.2	57	calm			0		8			0	0		
Umea	30.04	762.9	30.09	764.2	59.4	15.2	98	s.			4		8			0.035	0.9		
Hernosand	29.98	761.5	30.03	762.8	69.4	20.8	50	s.			2		5			0	0		
Stockholm	30.07	763.8	30.25	768.3	70.0	21.1	53	sw.			4		10			0.039	1.0		
Wisby	30.22	767.5	30.28	769.0	63.7	17.6	65	n.			2		7			0	0		
Sub-series.																			
Upsala	30.11	764.7	30.19	766.9	69.1	20.6	55	sw.	13.6	6.1			8		w.	0.260	6.6		S. G. Fineman.
SWISS.																			
Geneva	28.82	732.1	30.19	766.8	74.8	23.8	60	nne.			2					0	0		The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
TURKISH.																			
Constantinople	.....	.....	30.12	765.1	73.9	23.3	37	nne.	9	4.0	.....	.....	0	.....	.....	0	0	.....	The Observatory.
Valona	.....	.....	30.28	769.2	79.5	26.4	.....	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.92	759.9	79.2	26.2	63	w.	.....	.....	1	0	0	.....	.....	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.67	753.6	29.75	755.6	58.5	14.7	77	n.	5	2.2	.....	0	8 s	.....	nw.	1.28	32.5	cloudy	J. O. Barnes.
Alpena, Michigan	29.42	747.3	30.08	764.0	44	6.7	45	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	Jas. J. Fitzgerald.
Atlanta, Georgia	28.78	731.0	29.95	760.7	63.5	17.5	93	nw.	7	3.1	.....	.....	10 s	.....	calm	0.46	11.7	threatening	H. Hall.
Atlantic City, New Jersey	29.72	754.9	29.72	754.9	63.2	17.3	78	nw.	12	5.4	.....	.....	10 ks	.....	nw.	0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.74	755.4	29.93	760.2	70	21.1	84	w.	6	2.7	.....	6 k	0	w.	.....	1.21	30.7	fair	John Healy.
Baltimore, Maryland	29.81	757.2	29.86	758.4	62	16.7	67	n.	11	4.9	.....	1 cs	0	n.	.....	0.12	3.0	clear	Robert Seybolt.
Barnegat, New Jersey	29.71	754.6	29.73	755.1	61.6	16.4	79	nw.	20	8.9	.....	.....	10 s	.....	ne.	0	0	cloudy	Chas. F. Merritt.
Behring Island, Behring Sea	29.70	754.4	29.72	754.9	37.7	3.2	.....	sw.	10	4.5	.....	.....	fg.	.....	.....	0	0	dense fog	Dr. L. Steineger.
Bismarck, Dakota	27.98	710.7	29.76	755.9	55	12.8	74	se.	8	3.6	.....	8 ck	0	sw.	.....	0	0	cloudy	Cyrus Cramer.
Boise City, Idaho	27.17	690.1	30.01	762.2	51	10.6	66	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	B. E. Light.
Boston, Massachusetts	29.43	747.5	29.59	751.6	56.0	13.3	100	nw.	11	4.9	.....	.....	10 n	.....	nw.	0.53	13.5	light rain	O. B. Cole.
Brownsville, Texas	29.87	758.7	29.91	759.7	74	23.3	90	n.	2	0.9	.....	.....	9 s	.....	calm	0	0	cloudy	M. McCarty.
Buffalo, New York	29.23	742.4	29.97	761.2	48.8	9.3	65	nw.	5	2.2	.....	0	0	.....	.....	0.33	8.4	clear	Wm. Finn.
Burlington, Vermont	29.44	747.8	29.73	755.1	50.3	10.2	92	n.	5	2.2	.....	.....	10 n	.....	n.	0.10	2.5	light rain	G. C. Schaeffer.
Cairo, Illinois	29.71	754.6	30.11	764.8	56.6	13.7	65	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	W. H. Ray.
Campo, California	27.31	693.7	29.84	757.9	41.5	5.3	76	s.	3	1.3	.....	6 c	0	.....	.....	0	0	fair	W. H. Clendenon.
Camp Thomas, Arizona	27.13	689.1	29.80	756.9	55	12.8	53	calm	.....	.....	0	2 cs	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	29.76	755.9	29.78	756.4	65	18.3	90	w.	14	6.3	.....	.....	10 s	.....	nw.	0.15	3.8	cloudy	J. E. Lanouette.
Cape May, New Jersey	29.70	754.4	29.73	755.1	62	16.7	87	nw.	24	10.7	.....	.....	10 ks	.....	w.	0.02	0.5	cloudy	W. Bolten.
Cedar Keys, Florida	29.95	760.7	29.97	761.2	78	25.6	88	sw.	6	2.7	.....	5 c	2 ks	.....	sw.	0	0	fair	F. W. Mixer.
Champaign, Illinois	29.28	743.7	30.08	764.0	46.9	8.3	68	n.	11	4.9	.....	0	0	.....	.....	0.01	0.3	clear	L. A. Welsh.
Charleston, S. Carolina	29.83	757.7	29.88	758.9	71	21.7	94	w.	4	1.8	.....	3 ck	5 s	w.	w.	0.95	24.1	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.62	737.1	29.86	758.4	66.0	18.9	84	w.	2	0.9	.....	4 k	6 s	w.	w.	0.76	19.3	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.17	740.9	29.98	761.5	63.0	17.2	78	n.	8	3.6	.....	4 k	1 ks	n.	n.	0.30	7.6	fair	B. L. Goulding.
Cheyenne, Wyoming	23.93	607.8	29.80	756.9	48.2	9.0	48	nw.	20	8.9	.....	1 c	0	w.	.....	inap.	inap.	cloudy	E. McGovern.
Chicago, Illinois	29.40	740.7	30.10	764.5	47.8	8.8	69	n.	7	3.1	.....	0	0	.....	.....	inap.	inap.	clear	J. Mitchell.
Chincoteague, Virginia	29.72	754.9	29.74	755.4	65	18.3	93	nw.	12	5.4	.....	.....	10s;ks	.....	nw.	0.17	4.3	cloudy	V. P. Temple.
Cincinnati, Ohio	29.43	747.5	30.08	764.0	55	12.8	74	n.	4	1.8	.....	0	0	.....	.....	0.15	3.8	clear	R. B. Watkins.
Cleveland, Ohio	29.34	745.2	30.07	763.8	51	10.6	67	n.	6	2.7	.....	0	0	.....	.....	0.49	12.4	clear	J. B. Newlin.
Coleman City, Texas	28.24	717.3	30.03	762.7	59	15.0	87	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	L. Dorman.
Columbus, Ohio	29.21	741.9	30.05	763.3	51	10.6	66	n.	5	2.2	.....	1 k	0	.....	.....	0.08	2.0	clear	D. Cuthbertson.
Concho, Texas	28.10	713.7	30.00	762.0	62	16.7	72	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. W. McConihe.
Davenport, Iowa	29.46	748.3	30.10	764.5	53	11.7	66	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	R. R. Martin.
Dayton, Washington T'y	28.35	720.1	30.10	764.5	46.3	7.9	85	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	H. Clifford.
Deadwood, Dakota	25.21	640.3	29.72	754.9	55	12.8	72	sw.	2	0.9	.....	9 k	0	nw.	.....	0	0	cloudy	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	58	14.4	52	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	29.74	755.4	29.76	755.9	60	15.6	81	nw.	24	10.7	.....	7 k	2 ks	w.	n.	inap.	inap.	cloudy	A. Schneider.
Denison, Texas	29.24	742.7	30.03	762.7	56.8	13.8	74	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. McGlone.
Denver, Colorado	24.63	625.0	29.79	756.7	53.0	11.7	59	sw.	6	2.7	.....	7 ck	0	w.	.....	0	0	fair	F. M. Neal.
Des Moines, Iowa	29.20	741.7	30.09	764.3	47	8.3	86	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	F. W. Conrad.
Detroit, Michigan	29.37	746.0	30.07	763.8	48.0	8.9	63	nw.	9	4.0	.....	0	0	.....	.....	0.12	3.0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.40	695.9	29.95	760.7	50	10.0	93	s.	14	6.3	.....	.....	10 s	.....	se.	0	0	cloudy	E. A. Thomas.
Dubuque, Iowa	29.38	746.2	30.08	764.0	50.3	10.2	71	se.	1	0.4	.....	7 c;cs	0	w.	.....	0	0	fair	J. Harvey Smith.
Duluth, Minnesota	29.33	745.0	30.03	762.7	45	7.2	76	ne.	1	0.4	.....	0	hz.	.....	.....	0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.10	739.1	29.90	759.4	67.1	19.5	93	se.	1	0.4	.....	0	1 s	.....	se.	0.82	20.8	clear	F. Belford.
Eagle Rock, Idaho	25.28	642.1	29.96	761.0	39	3.9	59	s.	1	0.4	.....	3 k	3 s	w.	w.	0.22	5.6	fair	J. M. Clifford.
Eastport, Maine	29.52	749.8	29.59	751.6	45.5	7.5	93	s.	4	1.8	.....	.....	fg.	.....	.....	0.58	14.7	dense fog	J. H. Melton.
El Paso, Texas	26.22	666.0	29.86	758.4	55	12.8	69	e.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.30	744.2	30.02	762.5	50	10.0	64	n.	5	2.2	.....	0	0	.....	.....	0.86	21.8	clear	R. H. Paxton.
Escanaba, Michigan	29.42	747.3	30.08	764.0	48	8.9	50	calm	0	0	.....	0	0	.....	.....	0	0	clear	C. Dill.
Fort Apache, Arizona	25.03	635.8	29.85	758.2	45	7.2	51	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.12	688.8	29.96	761.0	52	11.1	80	w.	5	2.2	.....	8 k	0	w.	.....	0	0	cloudy	B. O. Lenoir.
Fort Bennett, Dakota	28.23	717.0	29.79	756.7	57.0	13.9	77	se.	16	7.2	.....	5 k	5 s	se.	se.	0	0	cloudy	A. Pritchard.
Fort Benton, Montana	27.16	689.9	29.95	760.7	52	11.1	86	w.	7	3.1	.....	0	9 s	.....	.....	0.01	0.3	cloudy	G. W. Davis.
Fort Buford, Dakota	27.83	706.9	29.81	757.2	54	12.2	74	ne.	2	0.9	.....	.....	10 s	.....	calm	0.04	1.0	cloudy	A. H. Bell.
Fort Custer, Montana	26.73	678.9	29.83	757.7	52	11.1	93	nw.	8	3.6	.....	.....	10 s	.....	calm	0.15	3.8	cloudy	V. Verge.
Fort Davis, Texas	25.15	638.8	29.87	758.7	59	15.0	54	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. Williams.
Fort Elliott, Texas	27.25	692.1	29.95	760.7	53	11.7	74	se.	8	3.6	.....	.....	10 s	.....	se.	0	0	cloudy	W. J. Cundall.
Fort Gibson, Indian T'y	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. B. Campbell.
Fort Grant, Arizona	25.21	640.3	29.82	757.4	57	13.9	14	ne.	2	0.9	.....	5 c	0	.....	.....	0	0	fair	T. J. Macgowan.
Fort Keogh, Montana	27.32	693.9	29.77	756.1	53	11.7	80	sw.	8	3.6	.....	9 cs	0	nw.	.....	0.03	0.8	cloudy	W. B. Stockman.
Fort Macon, North Carolina	29.84	757.9	29.85	758.2	70	21.1	94	w.	7	3.1	.....	0	9 ks	.....	w.	0.11	2.8	cloudy	L. Leonardy.
Fort McKavett, Texas	27.79	705.9	30.03	762.7	70	21.1	66	calm	0	0	.....	5 k	0	s.	.....	0	0	fair	J. E. Thatcher.
Fort Missoula, Montana	26.76	679.7	30.06	763.5	49	9.4	86	ne.	1	0.4	.....	.....	10 ks	.....	.....	0.11	2.8	cloudy	J. H. Jones.
Fort St. Michaels, Alaska	29.59	751.6	29.62	752.3	40	4.4	91	nw.	3	1.3	.....	0	8 ks	.....	.....	0	0	fair	A. P. Leavitt.
Fort Shaw, Montana	26.34	669.0	29.94	760.5	45	7.2	86	w.	5	2.2	.....	6 k	0	nw.	.....	0.05	1.3	fair	A. L. Mathews.
Fort Sill, Indian Territory	28.81	731.8	30.03	762.7	54.5	12.5	84	ne.	11	4.9	.....	0	0	.....	.....	0	0	clear	T. Cleary.
Fort Stevenson, Dakota	27.94	709.7	29.77	756.1	50	10.0	80	e.	5	2.2	.....	0	5 s	.....	.....	0	0	fair	W. Burrows.
Fort Verde, Arizona	.....	.....	.....	.....	54.6	12.6	64	nw.	.....	.....	1	2 k	4 s	s.	w.	inap.	inap.	fair	D. Brooks.
Fort Washakie, Wyoming	24.37	619.0	.....	.....	43.0	6.1	86	w.	3	1.3	.....	.....	9 k	.....	w	0.24	6.1	cloudy	T. M. Ambler.
Fredericksburg, Texas	28.26	717.8	29.98	761.5	64	17.8	90	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	H. S. Miles.
Galveston, Texas	29.92	760.0	29.97	761.2	74	23.3	72	ne.	18	8.0	.....	.....	10 ks	.....	w.	0	0	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.44	747.8	30.10	764.5	50.5	10.3	52	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. A. Reid.
Hatteras, North Carolina	29.79	756.7	29.81	757.2	70	21.1	93	sw.	18	8.0	.....	0	9 k	.....	w.	0.20	5.1	cloudy	R. M. Crawford.
Helena, Montana	25.79	655.1	29.96	761.0	51	10.6	61	w.	6	2.7	.....	2 k	0	w.	.....	0	0	clear	S. Wheaton.
Henrietta, Texas	29.10	739.1	30.08	764.0	60.0	15.6	75	se.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. W. Byram.
Huron, Dakota	28.55	725.2	29.90	759.4	51.9	11.1	72	se.	16	7.2	.....	4 k	5 s	se.	se.	0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.28	743.7	30.07	763.8	53	11.7	66	ne.	4	1.8	.....	0	hz.	.....	calm	0.06	1.5	clear	O. Schatze
Indianola, Texas	29.91	759.7	29.94	760.5	76.1	24.5	74	ne.	17	7.6	.....	5 c	2 k	w.	.....	0	0	fair	I. A. Reed.
Jacksboro, Texas	28.89	733.8	30.04	763.0	57	13.9	86	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. P. Sherry.
Jacksonville, Florida	29.89	759.2	29.93	760.2	81	27.2	79	sw.	6	2.7	.....	2 cs	2 k	.....	sw.	0.07	1.8	fair	J. W. Smith.
Keokuk, Iowa	29.45	748.0	30.10	764.5	56.0	13.3	69	s.	4	1.8	.....	0	0	.....	.....	inap.	inap.	clear	F. Z. Gosewisch.
Key West, Florida	29.94	760.5	29.96	761.0	82.0	27.8	82	calm	0	0	.....	1 c	0	.....	.....	0.06	1.5	clear	L. M. Melbourne.
Kittyhawk, North Carolina	29.79	756.7	29.81	757.2	67	19.4	90	w.	18	8.0	.....	0	6 k	.....	w.	0.03	0.8	fair	E. A. Beals.
Knoxville, Tennessee	28.96	735.6	29.98	761.5	60.3	15.7	74	n.	8	3.6	.....	0	7 s	.....	n.	2.35	59.7	fair	J. A. Cody.
La Crosse, Wisconsin	29.29	744.0	30.05	763.3	54	12.2	44	s.	5	2.2	.....	0	0	.....	.....	0	0	clear	S. C. Emery.
La Mesilla, New Mexico	26.05	661.7	29.81	757.2	54.0	12.2	47	calm	0	0	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.20	741.7	30.08	764.0	48	8.9	93	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	A. W. Browne.
Lewiston, Idaho	29.24	742.7	30.08	764.0	54.1	12.3	93	calm	0	0	.....	4 k	0	w.	.....	0	0	fair	J. M. Burlew.
Little Rock, Arkansas	29.73	755.1	30.04	763.0	61	16.1	87	n.	6	2.7	.....	0	9 s	.....	w.	inap.	inap.	cloudy	W. U. Simmons.
Los Angeles, California	29.56	750.8	29.96	761.0	56.3	13.5	80	sw.	1	0.4	.....	.....	10 s	.....	calm	0	0	cloudy	E. F. Kubel.
Louisville, Kentucky	29.48	748.8	30.03	762.7	57	13.9	80	n.	8	3.6	.....	0	sk	.....	.....	inap.	inap.	clear	H. C. Smyth.
Lynchburg, Virginia	29.20	741.7	29.88	758.9	69.0	20.6	51	nw.	10	4.5	.....	0	5 ks	.....	nw.	0.53	13.5	fair	W. R. Bushby.
Madison, Wisconsin	29.11	739.4	30.11	764.8	47	8.3	77	e	2	0.9	.....	3 c	0	w.	.....	0	0	fair	C. A. Shaw.
Marquette, Michigan	29.34	745.2	30.06	763.5	55	12.8	44	sw.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. Gilligan.
Memphis, Tennessee	29.70	754.4	30.02	762.5	61	16.1	78	n.	7	3.1	.....	.....	10 s	.....	nw.	0	0	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.36	745.7	30.10	764.5	47	8.3	63	n.	3	1.3	.....	0	sk.	.....	.....	0	0	dense smoke	W. Line.
Mobile, Alabama	29.89	759.2	29.93	760.2	76	24.4	85	calm	0	0	.....	0	9 s	.....	sw.	0.02	0.5	cloudy	J. D. Paxton.

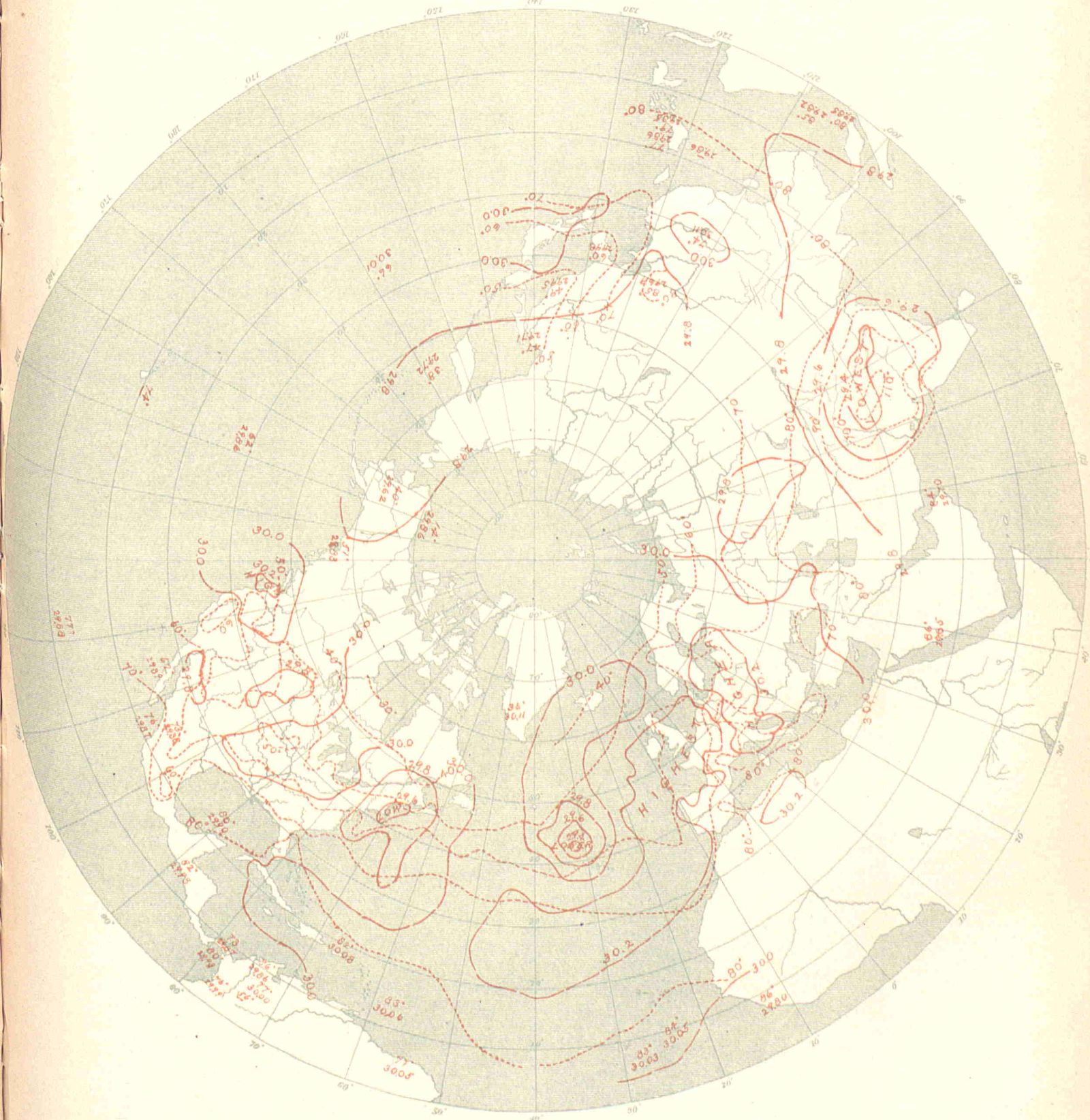
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Montgomery, Alabama	29.69	754.1	29.92	760.0	70	21.1	97	sw.	3	1.3			fg.			0.06	1.5	dense fog	J. B. McLaughlin.
Moorhead, Minnesota	28.93	734.8	29.91	759.7	52	11.1	80	s.	8	3.6		0	0			0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.00	736.6	30.00	762.0	54.5	12.5	77	n.	8	3.6		0	4 s		n.	0.35	8.9	fair	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.44	595.4	29.61	752.1	32.0	0.0	92	nw.	40	17.9			10n;fg		nw.	1.69	42.9	light rain	J. G. Linsley.
Nashville, Tennessee	29.49	749.0	30.02	762.5	63.5	17.5	70	ne.	6	2.7		0	0			0.31	7.9	clear	L. A. Jesunofsky.
New Haven, Connecticut	29.56	750.8	29.68	753.9	57	13.9	74	n.	13	5.8		10 cs	0	w.		1.06	26.9	cloudy	J. H. Sherman.
New London, Connecticut	29.59	751.6	29.64	752.8	61	16.1	78	n.	10	4.5		8 k	0	ne.		0.21	5.3	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.88	758.9	29.93	760.2	77.2	25.1	85	nw.	5	2.2		10 cs	sk.	sw.		0.05	1.3	cloudy	L. Dunne.
Newport, Rhode Island	29.56	750.8	29.61	752.1	54.7	12.6	94	w.	6	2.7			10 n		nw.	0.17	4.3	light rain	W. McGillivray.
New River, N. Carolina					68	20.0	93	w.			1	4 k	5 s	w.	w.	0.35	8.9	cloudy	C. C. Corbin.
New Shoreham, Rhode I'd.	29.58	751.3	29.60	751.8	57.0	13.9	69	nw.	12	5.4			10 s		nw.	0	0	cloudy	W. Davis.
New York, New York	29.58	751.3	29.76	755.9	58	14.4	86	n.	8	3.6			10 s		w.	0.20	5.1	cloudy	E. B. Garriott.
Norfolk, Virginia	29.77	756.1	29.80	756.9	67	19.4	84	nw.	7	3.1			10 ks		nw.	0.15	3.8	cloudy	J. T. Elker.
North Platte, Nebraska	26.99	685.5	29.86	758.4	53.6	12.0	73	se.	23	10.3		0	5 s			0	0	fair	E. F. Brady.
Olympia, Washington T'y	30.18	766.6	30.22	767.6	61.0	16.1	50	s.	1	0.4		1 c	0	calm		0	0	clear	J. Dascomb.
Omaha, Nebraska	28.90	734.0	30.06	763.5	57.0	13.9	69	se.	8	3.6		0	0			0	0	clear	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	29.84	757.9	29.86	758.4	13.6	—10.2	100	ene.	18	8.0			10 n			0.01	0.3	light snow	P. H. Ray.
Oswego, New York	29.55	750.6	29.88	758.9	48.0	8.9	75	n.	7	3.1		0	0			0.22	5.6	clear	S. W. Beall.
Palestine, Texas	29.47	748.5	30.02	762.5	61.0	16.1	87	n.	7	3.1		3 ck	0	w.		0	0	clear	L. M. Pindell.
Pensacola, Florida	29.90	759.4	29.93	760.2	77.2	25.1	91	sw.	9	4.0			10 ks		w.	0	0	cloudy	M. McGauran.
Philadelphia, Pa.	29.69	754.1	29.79	756.7	62	16.7	67	nw.	15	6.7			10 s		nw.	0.07	1.8	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.71	449.8	29.77	756.1	17	— 8.3	87	n.	16	7.2		9c;cs	1 s		nw.	0.44	11.2	cloudy	L. M. Dey.
Pioche, Nevada	24.00	609.6	29.92	760.0	53	11.7	43	nw.	3	1.3			10 ks		n.	inap.	inap.	cloudy	C. N. Kitchel.
Pittsburg, Pennsylvania	29.17	740.9	29.97	761.2	52.0	11.1	80	nw.	6	2.7		0	0			0.31	7.9	clear	J. H. Bryce.
Poplar River, Montana	27.66	702.6						se.			1	0	0			0.03	0.8	clear	U. D. Maxwell.
Port Eads, Louisiana	29.95	760.7	29.96	761.0	76.1	24.5	94	sw.	8	3.6		0	2 k		w.	0	0	clear	H. G. Christian.
Port Huron, Michigan	29.39	746.5	30.07	763.8	46.6	8.1	66	ne.	2	0.9		0	0			0.01	0.3	clear	W. O. Bailey.
Portland, Maine	29.50	749.3	29.56	750.8	54.0	12.2	86	n.	13	5.8			10 s		n.	0.77	19.6	cloudy	D. C. Murphy.
Portland, Oregon	30.09	764.3	30.16	766.1	48.7	9.3	86	calm	0	0		0	0			0	0	clear	M. L. Hearne.
Portsmouth, N. Carolina					70	21.1	62	w.	20	8.9		6 k	hz.	nw.	calm	0.12	3.0	fair	F. P. Chaffee.
Prescott, Arizona	24.75	628.6	29.85	758.2	46	7.8	65	s.	3	1.3		0	0			0	0	clear	J. Mc N. Wright.
Provincetown, Mass.	25.54	750.3	29.57	751.1	54	12.2	93	sw.	9	4.0			10 n			0.03	0.8	light rain	P. T. Jenkins.
Punta Rassa, Florida	29.97	761.2	29.98	761.5	81	27.2	79	sw.	10	4.5		0	5 ks		sw.	0	0	fair	W. J. Evans.
Red Bluff, California	29.51	749.5	29.88	758.9	69.0	20.6	26	nw.	8	3.6		0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.70	754.4	29.94	760.5	75	23.9	90	se.	3	1.3			10 s		se.	0	0	cloudy	P. M. Wilson.
Rochester, New York	29.27	743.4	29.93	760.2	50	10.0	52	nw.	14	6.3		0	0			0.23	5.8	clear	F. Gillam.
Roseburg, Oregon	29.59	751.6	30.14	765.5	46	7.8	87	calm	0	0		0	0			0	0	clear	J. J. Nunry.
Sacramento, California	29.77	756.1	29.85	758.2	61.7	16.5	72	calm	0	0		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.53	750.0	30.12	765.0	52.0	11.1	86	n.	6	2.7		0	hz.			0	0	clear	J. H. Webber.
St. Paul, Minnesota	29.16	740.7	30.00	762.0	50.0	10.0	63	e.	7	3.1		0	0			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.00	736.6	29.86	758.4	48	8.9	77	s.	8	3.6		4 ck	0	nw.		0	0	fair	G. Kingsbury.
Salt Lake City, Utah	25.61	650.5	29.93	760.2	52	11.1	50	calm	0	0		6 k	0	w.		0	0	fair	J. Craig.
San Antonio, Texas	29.27	743.4	29.97	761.2	68	20.0	84	n.	4	1.8		0	0			0	0	clear	E. Lane.
San Diego, California	29.82	757.4	29.89	759.2	60.3	15.7	77	nw.	4	1.8			10 s			0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.39	746.5	30.06	763.5	51.2	10.7	66	n.	12	5.4		0	0			0.21	5.3	clear	M. H. Perry.
Sandy Hook, New Jersey	29.71	754.6	29.75	755.6	58.0	14.4	86	nw.	13	5.8			10 n		nw.	0.12	3.0	light rain	B. A. Blundon.
San Francisco, California	29.84	757.9	29.90	759.4	52	11.1	86	sw.	8	3.6		2 cs	0	nw.		0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.21	589.5	29.82	757.4	47	8.3	58	e.	3	1.3		4 c	0			0.03	0.8	fair	H. U. Jones.
Savannah, Georgia	29.82	757.4	29.91	759.7	73	22.8	82	sw.	4	1.8		6 ck	2 ks		sw.	0.32	8.1	cloudy	H. W. Ford.
Shreveport, Louisiana	29.77	756.1	30.01	762.2	65	18.3	90	n.	6	2.7		3 c	6 k		n.	0	0	cloudy	E. N. Meekins.
Silver City, New Mexico	24.25	615.9	29.80	756.9	45	7.2	45	w.	1	0.4		2 k	0	calm		0	0	clear	J. B. Wallace.
Sitka, Alaska	29.77	756.1	29.83	757.7	50.5	10.3	58	se.	24	10.7			10 ks		se.	0.10	2.5	cloudy	J. J. McLean.
Smithville, North Carolina	29.82	757.4	29.86	758.4	69	20.6	90	nw.	6	2.7		4 cs	3 k	w.	nw.	0.18	4.6	fair	O. Parker.
Spokane Falls, Wash. Ter.	28.03	711.9	30.08	764.0	49	9.4	86	calm	0	0		0	0			0.12	3.0	clear	D. Moore.
Springfield, Illinois	29.45	748.0	30.12	765.0	53	11.7	55	ne.	3	1.3		0	0			0.15	3.8	clear	T. B. Jennings.
Springfield, Massachusetts	29.54	750.3	29.67	753.6	57.4	14.1	80	nw.	6	2.7		8 k	0	w.		2.24	56.9	cloudy	T. S. Outram.
Springfield, Mo.	28.66	728.0	30.14	765.5	54	12.2	86	e.	9	4.0		9 k	0	s.		0	0	cloudy	J. B. Marbury.
Starkville, Miss.	29.53	750.0			65.5	18.6	84	nw.	8	3.6		2 cs	6 k			0.02	0.5	cloudy	M. J. Wright.
Stockton, Texas	26.96	684.8	29.97	761.2	57.3	14.1	86	calm	0	0		0	0			0.09	2.3	clear	J. O'Dowd.
Thatcher's Island, Mass.	29.48	748.8	29.54	750.3	51.0	10.6	100	w.	15	6.7			10n;fg			0.55	14.0	light rain	F. R. Day.
Toledo, Ohio	29.38	746.2	30.06	763.5	50	10.0	63	n.	4	1.8		0	0			0.23	5.8	clear	A. Buell.
Tucson, Arizona	27.48	698.0	29.82	757.4	62	16.7	39	se.	2	0.9		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.77	756.1	30.14	765.5	50	10.0	72	ne.	1	0.4		0	0			0	0	clear	J. Daly.
Uvalde, Texas	29.01	736.8	29.96	761.0	66	18.9	93	n.	4	1.8		9 k	0	nw.		0.35	8.9	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.71	754.6	29.96	761.0	69	20.6	84	n.	5	2.2			9 s			0.73	18.5	cloudy	H. T. Brisbane.
Visalia, California	29.46	748.3	29.83	757.7	64	17.8	73	nw.	2	0.9		0	0			0	0	clear	W. L. Seward.
Washington, D. C.	29.75	755.6	29.86	758.4	61.5	16.4	66	nw.	8	3.6		0	0			0.19	4.8	clear	B. M. Purssell.
West Las Animas, Colorado	25.93	658.6	29.79	756.7	55	12.8	74	calm	0	0		0	8 s		sw.	0	0	cloudy	J. Grover.
Williamsport, Pa.	29.27	743.4	29.87	758.7	57	13.9	64	n.	7	3.1		hz.	1 ks		n.	0.89	22.6	clear	B. F. Hough.
Wilmington, N. Carolina	29.79	756.7	29.84	757.9	68	20.0	90	w.	4	1.8		4 k	4 s	w.	w.	0.49	12.4	cloudy	A. T. Sherwood.
Winnemucca, Nevada	25.66	651.8	30.01	762.2	49	9.4	34	ne.	8	3.6		5 ck	0	w.		0	0	fair	J. R. Williams.
Yankton, Dakota	28.70	729.0	29.98	761.5	53	11.7	72	s.	10	4.5		0	0			0	0	clear	J. H. Atfield.
Yuma, Arizona	29.63	752.6	29.78	756.4	66.7	19.3	64	ne.	1	0.4		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.06	560.3			56.0	13.3	77	s.	1	0.4			8 s		w.	0.11	2.8	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.06	763.5	30.06	763.5	83	28.3	91	ne.				5 c	10 ks	e.		0.09	2.3		J. A. Racker.
Buenaventura, U. S. C.	29.96	761.0	29.99	761.7	76	24.4	100	sw.	3	1.3			10 n		sw.	1.75	44.4	raining	J. I. Plume.
Havana, Cuba, W. I.	29.97	761.2	30.02	762.5	81	27.2	88	calm	0	0		1 cs	2 ks	calm	calm	0	0	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.05	763.3	30.06	763.5	82.3	27.9	73	ese.	3	1.3		0	0			0	0	fine	Robert Johnston.
Magua, San Domingo, W. I					72	22.2		calm			0	0	0			0.09	2.3		S. M. Pike.
Navassa, W. I.																			F. M. Everett.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	77	25.0	86	e.			2		8 ks	e.		0.180	4.6	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.54	750.3	30.00	762.0	77	25.0	84	calm			0		10 s		calm	0	0	foggy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							98	n.			1	10 cs	0	se.		0	0	fair	Earl Flint.
Santiago de Cuba, W. I.	30.01	762.2	30.04	763.0	81	27.2	82	calm	0	0		0	4 ks		se.	0	0	fair	Robert Mason.
York Factory, B. A.	30.12	765.0	30.17	766.3	29.0	— 1.7	94	ne.	14	6.3		2 k	2 s	ne.	ne.	inap.	inap.	fair	W. Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
British Naval.																		
H. M. S. Alert, S. 26° 28′, E. 41° 24′	30.01	762.2	73	22.8	70	n.			2		6							d. clouds.
H. M. S. Alexandra, Suda Bay, Turkey in Europe	30.15	765.8	74	23.3	59	nw.			1		0							blue sky.
H. M. S. Amethyst, S. 2° 38′, W. 27° 09′	29.98	761.5	77.5	25.3	100	se.			3-5		5	ese.						squally.
H. M. S. Champion, N. 20° 15′ W. 152° 30′			74	23.3	95	e.			2-3		7	e.				2	e.	d. clouds.
H. M. S. Comus, N. 12° 28′ E. 111° 22′	29.80	756.9	82.5	28.1	?	ne.			1-3		6	e.				3	ne.	raining.
H. M. S. Diamond, S. 27° 00′, E. 159° 55′	30.06	763.5	68.5	20.3	75	ese.			1		1	w.				1	ese.	blue sky.
H. M. S. Dido, N. 13° 05′, W. 59° 30′	30.12	765.0	80	26.7		e.			4-5		6	e.						squally.
H. M. Dock-Yard, Bermuda, W. I.	29.75	755.6	72	22.2	95	wnw.			3-4		7	wnw.						d. clouds.
H. M. S. Druid, N. 19° 10′, W. 82° 18′	29.98	761.5	81.5	27.5	86	se.			4-5		7	se.				5	se.	squally.
H. M. S. Dwarf, S. 27° 21′, W. 58° 44′	29.87	758.7	60.5	15.8	94	s.			2		10					2	s.	foggy.
H. M. S. Eclipse, S. 21° 38′, E. 41° 56′	30.03	762.7	76	24.4		s.			2		3					1-2	ssw.	d. clouds.
H. M. S. Emerald, S. 53° 30′ W. 111° 30′	28.91	734.3	41	5.0	?	wnw.			5-6		8	wsw.				5	wsw.	showery.
H. M. S. Espiegle, S. 30° 56′ E. 162° 58′	30.03	762.7	64	17.8	67	e.			1		9					2	e.	d. clouds.
H. M. S. Euryalus, Bombay, India	29.71	754.6	85	29.4	87	w.			1-2		3	calm						d. clouds.
H. M. S. Fantome, Cartagena, Granadian, Conf, S. A.	29.86	758.4	86	30.0		calm			0		1	calm						blue sky.
H. M. S. Flying Fish, N. 37° 48′, E. 124° 40′	29.98	761.5	60	15.6	88	s.			1		5							d. clouds.
H. M. S. Fawn, S. 9° 18′ E. 62° 52′	29.81	757.2	78.5	25.8	82	se.			3		10	se.				3	se.	overcast.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	29.99	761.7	55	12.8	87	calm			0		1	w.						misty.
H. M. S. Inconstant, Saint Helena, Island, Africa	30.09	764.3	71	21.7	71	se.			3		8	se.						d. clouds.
H. M. S. Iron Duke, N. 31° 46′, E. 132° 56′	29.86	758.4	70	21.1	95	calm			0		10					2	e.	overcast.
H. M. S. Kingfisher, Perico Island, Pearl Island, S. A.	29.93	760.2	80	26.7		nnw.			1		5	calm						d. clouds.
H. M. S. Lark, S. 9° 01′, E. 157° 13′	29.85	758.2	80.3	26.8		se.			6		10					3	se.	showery.
H. M. S. Magpie, N. 35° 26′, E. 139° 33′	30.00	762.0	59.5	15.3	82	ene.			1		8							d. clouds.
H. M. S. Northampton, Halifax, Nova Scotia	29.72	754.9	49.5	9.7	?	se.			3		10							misty.
H. M. S. Orontes, N. 25° 00′ W. 49° 36′	30.20	767.1	76.5	24.7	92	ene.			2		3					2	ene.	d. clouds.
H. M. S. Pegasus, N. 2° 04′, E. 104° 26′	29.85	758.2	79.5	26.4	93	w.			1		8	w.				2	nw.	raining.
H. M. S. Phoenix, N. 18° 25′, W. 77° 08′	30.01	762.2	82	27.8	83	calm			0		0					1	e.	blue sky.
H. M. S. Rambler, S. 4° 30′, E. 11° 14′	29.96	761.0	76	24.4	100	se.			1		1					2	ssw.	blue sky.
H. M. S. Rocket, N. 48° 27′, W. 123° 27′	30.16	766.1	46	7.8	92	calm			0		2							d. clouds.
H. M. S. Sylvia, N. 5° 39′, W. 25° 37′	30.02	762.5	78.7	25.9	83	se.			2		6	sse.				2	se.	d. clouds.
H. M. S. Swiftsure, N. 37° 47′, W. 12° 43′	30.23	767.8	60	15.6	76	wnw.			2		2	wsw.				2	wnw.	d. clouds.
H. M. S. Tenedos, N. 47° 34′ W. 52° 41′	30.16	766.1	43.5	6.4	87	e.			2		10							overcast.
H. M. S. Triumph, Coquimbo, Chili	29.94	760.5	54	12.2	93	calm			0		3	calm						d. clouds.
H. M. S. Woodlark, Ras Gomelet, Arabia	29.60	751.8	83.5	28.6	79	s.			5-6		0					5	s.	misty.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verde Islands	30.10	764.5	81.5	27.5	73	ne.			3		0					2		blue sky.
Tamega, Macao, China	29.87	758.6	77.0	25.0	76	se.			3		0							foggy.
Swedish Naval.																		
Saga, N. 52° 25′, E. 2° 26′	30.29	769.3	61.7	16.5	84	calm			0		2							misty.
United States Naval.																		
Navy Yard, Pensacola, Fla	29.88	758.9	78	25.6	91	ssw.	13	5.8			5		ssw.	0	0			fair.
Navy Yard, Portsmouth, N. H.	29.59	751.6	55	12.8	87	n.	12	5.4			10		n.	0.6	15.			cloudy.
Naval Hospital, Yokohama, Japan	29.84	757.9	58	14.4	84	e.			1		8		e.	0.18	4.6			clearing.
Adams, Mare Island, Cal	29.65	753.1	55	12.8	93	sw.			1-2		2		calm			sm'h		clear.
Alaska, Callao, Peru	29.98	761.5	60	15.6	94	ese.			1		10			0	0	sm'h		cloudy.
Alert, Kobe, Japan*	29.88	758.9	66	18.9	64	w.			1		2		calm	0	0			fair.
Alliance, N. 36° 56′ W. 74° 56′	29.75	755.6	59	15.0	94	wsw.			3		8			0	0	sm'h		fair.
Ashuelot, Kobe, Japan	29.97	761.2	63	17.2	72	calm			0		2		calm					clear.
Brooklyn, S. 26° 52′, W. 46° 30′	30.13	765.3	69	20.6	70	ese.	10	4.5			0			0	0	mod.	sse.	clear.
Colorado, New York, N. Y.	29.72	754.9	59	15.0	76	nnw.	6	2.7			10		nnw.	0.10	2.5			overcast.
Essex, Montevideo, Uruguay	29.88	758.9	54	12.2	74	nw.			2		8		nw.			mod.		threatening.
Franklin, Norfolk, Va.	29.81	757.2	67	19.4	89	nw.	10	4.5			10		n.	0.12	3.0			cloudy.
Galena, Gibraltar, Mediterranean	30.15	765.8	68	20.0	95	sw.			4		2					sm'h		clear.
Independence, Navy Yard, Mare Island, Cal	29.76	755.9	55	12.8	100	sw.			2		2			0	0			hazy.
Iroquois, San Francisco, Cal	29.83	757.7	57	13.9	75	ssw.			1		2							clear.
Kearsarge, N. 37° 01′, W. 74° 12′	29.74	755.4	58	14.4	100	sw.			3		8		nw.			mod		fair.
Lackawanna, Panama, Panama*	29.87	758.7	78	25.6	86	nw.			1		2		nw.					clear.
Lancaster, Lisbon, Portugal	30.17	766.3	70	21.1	75	nnw.			3		2		n.	0	0			fair.
Marion, S. 34° 54′, W. 56° 13′	29.87	758.7	53	11.7	93	nnw.			4		10		w.			sm'h		cloudy.
Michigan, Erie, Pa.	29.97	761.2	50	10.0	100	nne.			1		0							clear.
Minnesota, Newport, R. I.	29.61	752.1	58	14.4	94	nw.	8	3.6			10							raining.
Monocacy, Nagasaki, Japan	30.00	762.0	64	17.8	94	n.			1		10		calm					cloudy.
New Hampshire, Newport, R. I.	29.58	751.3	55	12.8	100	sw.			2		10					sm'h		cloudy.
Nipsic, Gibraltar, Mediterranean	30.13	765.3	68	20.0	84	sw.			4		0					sm'h		clear.
Onward, Callao, Peru†	30.11	764.8	61	16.1	94	sse.			2		10		n.			long	w.	cloudy.
Palos, Kobe, Japan	30.05	763.3	62	16.7	61	calm			0		0							clear.
Passaic, Washington, D. C.	29.91	759.7	63	17.2	94	nw.			3		0							clear.
Pensacola, S. 11° 53′, W. 78° 15′	30.02	762.5	64	17.8	83	ese.			4		10		ese.	0	0	mod.	se.	cloudy.
Portsmouth, Portsmouth, Eng*†	30.55	776.0	64	17.8	89	nnw.			3		2					sm'h		fair.
Powhatan, Norfolk, Va.	29.81	757.2	67	19.4	100	wnw.			1		10		nw.					cloudy.
Quinnebaug, Palmas, Canary Islands	30.18	766.6	70	21.1	61	nne.			1		2		calm			sm'h		clear.
Ranger, N. 24° 24′, W. 109° 57′*	29.80	756.9	74	23.3	68	wsw.			3		2		calm	0	0	mod.	wsw.	clear.
Richmond, Kobe, Japan*	29.94	760.5	65	18.3	63	calm			0		0			0	0			clear.
Saratoga, Cowes, Eng.	30.32	770.1	63	17.2	83	e.			0-1		2		e.	0	0	sm'h		fair.
St. Louis, League Island, Pa.	30.04	763.0	61	16.1	66	nnw.	12	5.4			8		nw.	0.17	4.3			cloudy.
Swatara, Shanghai, China*	29.75	755.6	74	23.3	59	s.			1		8		se.			sm'h		fair.
Tennessee, N. 37° 04′, W. 74° 16′	29.81	757.2	61	16.1	88	sw.	11.5	5.1			10					mod.	sw.	cloudy.
Vandalia, Hampton Roads, Va*†	30.04	763.0	65	18.3	94	nw.			3		10		nnw.					cloudy.
Wabash, Boston, Mass.	29.56	750.8	58	14.4	94	nw.	3	1.3			10		nw.	0.74	18.8			cloudy.
Wachusetts, Fort Wrangle, Alaska	29.95	760.7	45	7.2	92	e.			4		10		calm			sm'h		rainy.
Wyoming, Port Royal, S. C.	29.92	760.0	70	21.1	90	calm	0	0			8		w.	0.12	3.0			cloudy.
Yantic, N. 36° 57′, W. 74° 05′*	29.75	755.6	58	14.4	100	wsw.			3		8		sw.			sm'h		cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 47° 45′, W. 60° 05′*	29.88	758.9	43	6.1	100	se.			6		10		se.	12 h'r	12 h'r	3	ese.	heavy rain.
S. S. Prussian, Baltimore, Md*	29.68	753 9	83	28.3		n.			7		4?		nnw.	2 h'r	2 h'r			cloudy.?
S. S. Scandinavian, N. 51° 36′, W. 21° 30′*	30.02	762.5	54	12.2		sse.			4		2		sse.	sh's	sh's	cross	var.	d. clouds.
S. S. Waldensian, N. 46° 54′, W. 38° 48′*	29.94	760.5	50	10.0		n.			4		8		n.	o	o	short	n.	cloudy.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, N. 50° 35′, W 16° 22′	30.20	767.1	59	15.0	94	s.			4		8		s.			sm'h	se.	hazy.
S. S. Indiana, Philadelphia, Pa,†	29.91	759.7	67	19.4	90	wsw.			3		8		se.	o	o			fair.
S. S. Lord Clive, N. 50° 46′, W. 17° 12′*	30.00	762.0				s.			1		2		s.	o	o	light	nw.	fine.
S. S. Ohio, Liverpool, Eng†	29.17	740.9	62	16.7	100	nw.			2		1							clear.
ANCHOR LINE.																		
S. S. Devonia, N. 53° 57′, W. 19° 05′†	30.18	766.6	64	17.8		wsw.			1		1		wsw.			mod.	wsw.	clear
S. S. India, N. 23° 18′, E. 36° 54′*	29.75	755.6	86	30.0	91	nnw.			3		1					mod.	n.	clear.
S. S. Utopia, Valencia, Spain†	30.27	768.8	72	22.2	71	e.			2		9		e.	o	o			cloudy.
ATLAS LINE.																		
S. S. Alvena, N. 31° 00′, W. 73° 22′†	29.99	761.7	74	23.3		ssw.			1		5		s.	o	o	sm'h		fair.
S. S. Alvo, N. 12° 45′, W. 75° 23′	30.01	762.2	104?	40.0?		e.			5		8		w.	o	o		ne.	
S. S. Athos, N. 26° 48′, W. 74° 16′	29.67?	753.6?				wnw.			2		7		nw.	o	o	mod.	wnw.	cloudy.
BOSTON AND HALIFAX.																		
S. S. Carroll, N. 42° 26′, W. 63° 33′			51	10.6	86	sse.			3					rain	rain			raining.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 40° 06′ E. 27° 38′	30.11	764.8	59	15.0	67	sse.			6		8							d. clouds.
British Merchant, S. 12° 47′, W. 9° 04′	30.12	765.0	75	23.9	59	se.			3		2							d. clouds.
Bk. Commewyne, N. 22° 10′, W. 29° 43′	30.19	766.8	78.5	25.8	69	ne.			4		8							d. clouds.
Bk. Coppename, N. 10° 21′, W. 46° 35′	30.02	762.5	80	26.7	74	ene.			6		3							blue sky.
S. S. Glencairn, S. 34° 28′, E. 18° 28′	29.97	761.2	66	18.9	73	sse.			4		3							d. clouds.
S. S S. Gordon Castle, N. 30° 08′, E. 128° 16′	29.99	761.7	69	20.6	79	nw.			2		8							d. clouds.
Bkt. Hope, N. 29° 20′, W. 36° 03′	30.01	762.2	58.5	14.7	87	nw.			6		2							squally.
Bkt. May Hulse, S. 41° 11′, W. 83° 34′	30.04	763.0	53.5	11.9	73	sw.			4		10							overcast
S. S. Minho, Buenos Ayres, S. A.	29.86	758.4	56	13.3	87	nw.			5		10							misty.
Pole Star, S. 51° 30′, W. 53° 08′	29.18	741.2	36	2.2	80	wnw.			3		5							blue sky.
CROMWELL LINE.																		
S. S. Hudson, N. 36° 28′, W. 74° 10′†	29.78	756.4	57	13.9		ssw.			4		3		s.	6 h'r	6 h'r	long	s.	hazy.
CUNARD LINE.																		
S. S. Gallia, N. 51° 11′, W. 15° 41′	30.19	766.8	58	14.4	87	sw.			4		8		sw.	o	o	light	nw.	fair.
S. S. Parthia, N. 50° 19′, W. 43° 36′†	30.28	769.1				se.			4		3		w.	o	o	sm'h	w.	clear.
S. S. Scythia, N. 43° 28′, W. 43° 00′	30.12	765.0	56	13.3	87	n.			3		8		nne.	o	o	sli't	nne.	fine.
GENERAL TRANS-ATLANTIC COMPANY																		
S. S. France, N. 49° 21′, W. 15° 00′†	30.22	767.7	57.2	14.0		ssw.			4				s.	o	o	sm'h	sw.	covered.
S. S. St. Germain, N. 41° 16′ W. 45° 53′	30.25	768.3	59.0	15.0		nw.			3				nw.	o	o	sm'h	nw	clear.
S. S. St. Laurent, N. 40° 46′, W. 70° 27′†	30.02?	762.5?	53.6	12.0	76	sw.			3					o	o	sm'h	sw.	clear.
GUION LINE.																		
S. S. Arizona, N. 51° 06′, W. 17° 46′	30.14	765.5	55	12.8		sw.			2		0			o	o	long	w.	blue sky.
S. S. Wisconsin, N. 46° 40′, W 36° 10′*†	29.82	757.4	52	11.1		n.			5		8		w.	o	o	r'gh	ne.	fair.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, Hamburg, Germany*†	30.25	768.3				w.			1		0			o	o			fine.
S. S. Gellert, N. 40° 54′, W. 67° 52′	29.76	755.9	52	11.1		s.			2		10		s.	o	o	sm'h		covered.
S. S. Lessing, N. 40° 25′, W. 50° 48′	30.12	765.1	64	17.8		ssw.			4		1		ssw.	o	o	sm'h	sw.	clear.
S. S. Silesia, N. 44° 43′, W. 42° 51′†	30.16	766.1	49	9.4		w.			4		10		w.	o	o	4	nw.	overcast.
INMAN LINE.																		
S. S. City of New York, N. 41° 40′, W 51° 54′	30.13	765.3				ssw.			4		8		ssw.	o	o	r'gh	ssw.	cloudy.
JOHNSTON LINE.																		
S. S. Thanemore, N. 39° 14′ W. 63° 53′	29.80	756.9				sse.			3		5		se.	o	o			fair.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, N. 17° —′ W. 26° —′.*†	30.28	769.1	76	24.4		ne.			3		6?		ne.	o	o	sm'h		clear ?
LEYLAND LINE.																		
S. S. Iberian, N. 42° 24′, W. 69° 35′	29.51	749.5				sw.			3		10		wsw.	3 h'r	3 h'r	sli't	sw.	cloudy.
MERCHANT STEAMSHIP COMPANY.																		
S. S. Glenfyne, N. 28° 48′, W. 64° 32′	29.70	754.4				ene.			5				ne.	hv'y	hv'y	mod.	ne.	cloudy.
S. S. Glenapp, Rio de Janeiro, Brazil*†	30.00	762.0				ne.			2		0			o	o			clear.
NATIONAL LINE.																		
S. S. Canada, N. 40° 26′, W. 51° 19′	30.18	766.6	66	18.9		ssw.			2		10		s.	o	o		ne.	
S. S. Denmark, N. 40° 54′, W. 64° 46′	29.85	758.2	61	16.1		ssw.			3		10		wsw.	½h'r	½h'r			rainy.
S. S. England, N. 47° 45′, W. 31° 45′	29.66	753 4				ese.			4		2?		sw.	3 h'r	3 h'r	cross	e.	cloudy.?
S. S. Erin, N. 51° 28′, W. 9° 39′	30.29	769.4	60	15.6		ssw.			2		0			o	o		wsw.	hazy
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, St. Jago, Cuba, W. I†	30.07	763.8	80	26.7		calm			0		1		ene.	o	o			fine.
S. S. Saratoga, N. 31° 00′, W. 76° 12′†	30.00	762.0	76	24.4	86	ssw.			3		4		sw.	o	o	sm'h		fine.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, New York, N. Y.*†	29.78	756.4	60	15.6	76	nnw.			4		7		sse.	o	o			d clouds.
S. S. City of Puebla, Progress Roads, C. A†	29.80	756.9	80	26.7		ese.			3		8		se.			light	ene.	
S. S. City of Washington, N. 24° 49′, W. 80° 36′*†	30.12	765.0	82	27.8		s.			1		1		sw.	o	o	sm'h		clear.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Lepanto, N. 44° 58′, W. 39° 15′*	29.89	759.2	54	12.2		wnw.			6								se.	raining.
S. S. P. Caland, N. 50° 00′, W. 3° 20′	30.42	772.7	60.8	16.0		e.			2							sm'h		
NORTH GERMAN LLOYD.																		
S. S. Elbe, N. 45° 59′ W. 36° 01′	29.64	752 9	50.9	10.5	94	nnw.			6		10		nnw.	o	o	long	nw.	threatening
S. S. Graf Bismark, N. 4° 50′, W. 28° 04′	30.10	764.5	73.4	23.0		var.			2		9		var.	3 h'r	3 h'r	sm'h	s	overcast.
S. S. Habsburg, N. 41° 53′, W. 60° 01′	29.89	759.2	50.0	10.0		ssw.			5		8		ssw.	8 h'r	8 h'r	mod.	ssw.	squally.
S. S. Hermann, N. 39° 27′ W 67° 46′†	29.65	753.1	64.4	18.0		s.			4		2		ssw.	o	o	mod.	s.	fair.
S. S. Hohenzollern, N. 39° 49′, W. 56° 51′*	29.97	761.2	63.5	17.5		sse.			6		8		s.	o	o	mod.	s.	fair.
S. S. Leipzig, N. 49° 10′, W. 16° 11′	30.18	766.6	57.5	14.2	?	sse.			4		10		s.	2 h'r	2 h'r			foggy.
S. S. Main, N. 51° 01′, E. 1° 15′	30.30	769.6	57.2	14.0		w.			2–3		3		w	o	o	sm'h	wsw.	fine.
S. S. Mosel, N. 44° 26′, W. 42° 01′	30.11	764.8	52	11.1		wnw.			4		8		wnw.	1½h'r	1½h'r	sm'h		cloudy.
S. S. Neckar, N. 49° 30′, W. 15° 26′	30.20	767.1	58.1	14.5		s.			4		10		s.	2 h'r	2 h'r	sm'h	ssw.	fair.
S. S. Ohio, N. 40° 44′, W. 64° 32′	29.82	757.4				s.			2		2		wsw.	o	o	sm'h	s.	foggy.
S. S. Rhein, N. 40° 15′, W. 62° 54′	29.17?	740.9?				ssw.			4		8		sw.	o	o	mod.	se.	cloudy.
S. S. Saller, N. 52° 04′, E. 2° 42′	30.32	770.1	53.6	12.0		nnw.			3		2		nw.	o	o	mod.	w.	fair.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 37° 04′, W. 153° 21′*†	29.86	758.4	62	16.7	100	wnw.			5		8		w.	shr's	shr's	r'gh	w.	showery.
S. S. Belgic, Hong Kong, China†	29.94	760.5	73	22.8	100	sw.			2		5		sw.	o	o	sm'h		fair.
S. S. Gaelic, N. 27° 02′, E. 123° 10′†	29.82	757.4	70	21.1	56	ene.			3		10		ene.			slight	ene.	cloudy.
S. S. Oceanic, N. 39° 49′, W. 127° 17′*	30.16	766.1	53	11.7	86	nnw.			6		8		n.			4	n.	cloudy.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, N 38° 00′ W. 74° 40′†	29.74	755.4				sw.			5		10?		nw.					clear ?
S. S. City of Columbus, Brooklyn, N. Y†	29.77	756.1				n.			5		10			o	o			cloudy.
S. S. Seminole, N. 33° 28′, W. 78° 00′†	29.87	758.7	75	23.9	81	wsw.			5		8		w.	rain	rain	cross	se.	cloudy.
OREGON IMPROVEMENT COMPANY.																		
S. S. Willamette, N. 45° 52′, W. 124° 10′†	30.24	768.1	53	11.7	79	n.			5		7		n.	o	o	sm'h		cloudy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, N. 42° 24′, W. 124° 46′†	30.13	765.3	53	11.7	86	n.			5		0					mod.	nw.	clear.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Pedro Bay, Cal.†	29.84	757.9	60	15.6	88	n.			1		10		e.			sm'h		cloudy.
S. S. State of California, Portland, Oregon†	30.16	766.1	50	10.0	86	calm			0		0							clear.
S. S. Victoria, N. 46° 34′, W. 124° 54′†	30.10	764.5	53	11.7	80	nw.			3		8			o	o	sm'h		overcast

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	Upper. 0-10	Lower. 0-10	Upper. From.	Lower. From.	Inch.	Mill.			
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. City of New York, S. 11° 40′, W. 169° 30′†	29.95	760.7	85	29.4	96	ne.			4		8		ne.	o	o	mod.	ne.	overcast
S. S. City of Pekin, N. 35° 50°, E. 169° 05′†	30.01	762.2	66	18.9	89	sw.			5		5		sw.			light	w.	fair.
S. S. City of Rio de Janeiro, San Blas, Mexico *†	30.07	763.8	76	24.4	86	calm			0		8			o	o	mod.	w.	fair.
S. S. City of Sydney, Auckland, New Zealand†	29.92	760.0	58	14.4	76	se.			3		5		se.	o	o	sm'h		cloudy.
S. S. City of Tokio, N. 30° 02′, E. 130° 15′†	30.01	762.2	73	22.8	100	ne.			3		10		e.	o	o	mod.	ne	cloudy.
S. S. Clyde N. 25° 45′, W. 114° 27′†	29.89	759.2	62	16.7	77	calm			0		2		nw.	o	o	long	nw.	clear.
S. S. Colima, Panama, Panama†	29.94	760.5	83	28.3	96	wnw.			2		3		calm					raining.
S. S. South Carolina, Acajutla, San Salvador, C. A†	29.98	761 5	82	27.8	83	nne.			2		5		nne.	3 h'r	3 h'r	light	sw.	cloudy.
S. S. Zelandia, Sydney, N. S. W.	30.04	763.0	59	15.0	76	calm			0		2		w.					clear.
QUEBEC S. S. COMPANY.																		
S. S. Muriel, Trinidad, W. I.	29.90	759 4	82	27.8		calm			0		0			light	light	sm'h		fair.
S. S. Bermuda, N. 35° 46′, W. 70° 36′†	29.82	757.4	76	24.4		ssw.			5		9		ssw.	½h'r	½h'r	mod	sw.	threatening
RED STAR LINE.																		
S. S. Belgenland, N 49° 29′, W. 9° 35′†	30.49	774.4	61	16.1	100	wsw.			3		0			o	o	mod.	w.	clear.
S. S. Nederland, N. 39° 56′, W. 64° 20′†	29.76	755.9	67	19.4		sse.			2		8		se.	sh'rs	sh'rs	sm'h		cloudy.
S. S. Rhynland, N 40° 58′, W. 54° 48′	30.08	764.0	68	20.0	84	sw.			5		2		sw.	o	o	long	sw.	clear.
S. S. Switzerland, N. 49° 33′. W. 8° 36′†	30.38	771.6				sse.			2		2		sse.	o	o	sm'h		clear.
S. S. Vaderland, Antwerp, Belgium	30.05	763.3	66	18.9	84	nw.			2		8			o	o			cloudy.
S. S. Waesland, N. 48° 38′, W. 18° 27′	30.12	765.0	58	14.4		sse.			2		10		s.	o	o	sm'h	sse.	cloudy.
ROTTERDAM LINE.																		
S. S. Schiedam, N. 40° 25′ W. 73° 58′*	29.75	755.6	59.2	15.1		nw.			4		5?		nw.	o	o	mod.		clear.?
S. S. W A Scholten, N. 42° 30 W. 48° 33′	30.07	763.8	55.5	13.1	87	sw.			3		2		w.	o	o	sm'h	n.	
STATE LINE.																		
S. S. State of Florida, N 55° 05′. W. 8° 37′	30.21	767.3	57	13.9		sw.			3		3		sw.	o	o	sm'h		fair.
S. S. State of Indiana, N. 41° 44′, W. 50° 20′†	29.89	759.2	60	15.6		sw.			3		3			o	o	sm'h		fine.
THINGVALLA LINE.																		
S. S. Thingvalla, Copenhagen, Denmark†	30.42	772.7	66.2	19.0		wsw.			2		10		wsw.	o	o			covered.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 49° 30′ W. 20° 25′	30.13	765.3									4		sw.	o	o	2-6	sw.	blue sky.
WHITE STAR LINE.																		
S. S. Baltic, N. 40° 45′ W. 69° 07′†	29.66	753.4	50	10.0	100	sw.			3		10		wnw.	3 h'r	3 h'r		w.	foggy.
S. S. Britannic, N. 49° 12′, W. 30° 17′†	29.79	756.7	54	12.2	100	se.			5		10		se.	3 h'r	3 h'r	mod.	se.	misty.
S S. Celtic, New York, N. Y†	29.67	758.7	58	14.4	87	nnw.			4		2		ne.	sh'rs	sh'rs	sm'h		fair.
S. S. Republic, N. 42° 19′, W. 47° 00′†	30.30	769.6	59	15.0	81	n.			2		10		calm	o	o	sm'h		overcast.
WILSON LINE.																		
S. S. Otranto, N. 47° 35′, W. 22° 25′†	30.08	764.0	63	17.2		e.			3		8		e.			mod.	wnw.	cloudy.
MISCELLANEOUS.																		
Schr. Abbie Clifford, Orchilla Id., W. I.*†	30.05	763.3	80	26.7		e.			6		3		e.	o	o			fine.
Schr. Addie Fuller, Newport News, Va†	29.90	759.4	65	18.3	78	n.			4		10 s		n.	0.73	18.5			cloudy.
Bk. Adelaide, N. 17° 58′, W. 59° 39′*†	30.13	765.3	84	28.9		ene.			4		0			o	o	sm'h	e.	hazy.
Schr. Ajax, N. 28° 40′ W. 91° 00′†	29.93	760.2				calm			0		2		calm	o	o	sm'h		clear.
Bk. Alpha, Guanatamo, Cuba, W. I†	30.08	764.0	82	27.8		n.			1		1		e.	o	o			fair.
Schr. Annie Lewis, N. 28° 12′. W. 91° 18′†	30.04	763.0	79	26.1		calm			0		5?		sw.	o	o	long	sw.	cloudy.?
Bk. Anna Thormann, N. 6° 48′, W. 26° 21′	30.03	762.8	82.6	28.1	77	ese.			2	2 ck		e.		2 h'r	2 h'r	mod.	s.	clear.
Antonio Lopez, N. 43° 40′. W. 5° 16′*	30.25	768.3	61	16.1	94	ene.			2		10 s			o	o	sm'h		cloudy.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.22	767.6	76	24.4		nw.			1		10		sw·nw.	2 h'r	2 h'r			cloudy.
Sch'r Annie M. Smull, N. 3° 50′ E 106° 50′*†	29.92	760.0	85	29.4										o	o			
Bk. Bergenseren, N. 45° 53′, W 21° —′†	30.13	765.3				ssw.			4				sw.	o	o	3	nnw.	foggy
S. S. Compton, Philadelphia, Pa.†	29.72	754.9				n.			3		10		nne.	o	o			cloudy.
C. R. Flint, N 28° 12′, W. 85° 38′†	30.12	765.0	78	25.6		s.			2		5		sse.	1 h'r	1 h'r	sm'h		fair.
Schr. Edith R. Seward, Baltimore, Md*†	29.93	760.2	62	16.7		nnw.			3		2			o	o			clear.
Bk. E. J. Spicer, London, Eng†	30.32	770.1				n.			2		0			o	o			clear.
S. S. Essex, N. 33° 13′ W. 42° 59′*†	30.23	767.8	73	22.8		nw.			2		1		n.	o	o	long	n.	clear.
Bk. Freya, N. 56° 34′, W. 14° 03′†			55	12.8		sw.			4		5		wsw.	2 h'r	2 h'r	mod.	sw.	fair.
Bk. Godfrey, N. 41° 37′, W. 40° 42′	30.10	764.5	54.1	12.3	84	nnw.			5		5		n.	o	o	r'gh	nw.	fair.
S. Grecian, S. 0° 20′, E. 107° 20′*†	29.85	758.2	79	26.1		sw.			6		9		nw.	sq 'lls	sq 'lls	sm'h	wnw.	
Bk. Hattie G. McFarland, N. 45° 22′, W. 60° 01′*†	29.85	758.2	42	5.6		sw.			3					10 h'r	10 h'r			foggy.
S. Ismir, S. 3° 30′, W. 33° 15′†	30.02	762.5				se.			2		8		sse			sm'h	sse.	squally.
James Slater, N. 32° 26′, W. 57° 36′*†	30.20	768.6	79	26.1		sse.			4		10					rg'h	ssw.	rainy.
Bk. Johanne, Off Heligoland, North Sea*†	30.25	768.3	60	15.6		nw.			2		0			o	o	sm'h		clear.
Schr. John L. Thomas, Albuquerque Cays, C. A*†	29.98	761.5				ene.			5		2		e.	¼ h'r	¼ h'r			squally.
Bkt Josephine, Guanatamo, Cuba, W. I*†	30.15	765.8	83	28.3	79	nnw.			2		0			o	o			hazy.
Bk. Julia H., Havana, Cuba, W. I.	30.02	762.5	78.0	25.6	90	calm.			0		2k;ks							d. clouds.
S S Laurel, Pensacola Bay, Fla.†.	29.97	761.2	80	26.7		sw.			2		8		sw.	o	o			cloudy.
Maggie Abbott, N. 26° 52′, W. 71° 34′*†	30.00	762.0				sw.			3				wnw.	shr's	shr's	mod.	s.	clear.
S. S. Malabar, N. 19° 54′, E. 114° 10′*†	29.76	755.9				ne.			9		8		ne.			h'vy	ne.	raining.
S. Minnie N. Gerow, N 42° 47′, W. 31° 29′*†	29.26	743.2				wsw.			7		5		wsw.			r'gh	w.	fair.
S. M. P. Grace, N. 39° 43′, W. 65° 59′			68	20.0		s.			4		2		w.	2 h'r	2 h'r	h'vy	ese.	
S. Paramita, S. 30° 47′ W. 39° 18′†	29.93	760.2	67	19.4		var.			5		3		sw.	1 h'r	1 h'r	sharp	sw.	clear.
Bk. Pawashick, N. 41° 03′, W. 36° 41′*†	30.20	767.1	57	13.9	94	nnw.			6		8		nnw.			r'gh	nw.	
Bk. Peppina, Bordeaux, France†	30.15	765.8	75	23.9	76	calm			0		5?		s.					cloudy.?
S S. Ponca, Para, Brazil†	29.89	759.2	88	31.1		e.			1		2		ese.	o	o			clear.
Bk. Princessen, N. 49° 20′, W. 8° 46′†	30.31	769.8	64	17.8		ssw.			1		0			o	o	sm'h		clear.
Bk. Rosebud, N. 9° 25′ W. 24° 23′*†	30.05	763.3	84	28.9	75	n.			1-2		3		se.	o	o	sm'h		fine.
S. Salisbury, S. 40° 06′, E. 49° 01′*.	30.44	773.2	51.1	10.6	82	e.			3-4		3		e.	o	o	mod	sse.	clear.
Bkt. Spotless, S. 4° 12′ W. 35° 42′†*	29.90	759.4				se.							e.			hv'y	e.	fine.
Bk. Stella, N. 11° 38′, W. 122° 22′*.	29.88	758.9	77.0	25.0	93	n.			4		6 k?		n.	o	o	sm'h	n.	overcast?
Bk. Truro, Havre, France*†	30.25	768.3				wsw.			1		8		sw.	3 h'r	3 h'r			cloudy.
U.S.F.C.S. Fish Hawk, Havre de Grace, Md†	29.97	761.2	61	16.1	88	n.			6		7		n.	0.02	0.5			cloudy.
Yacht Vega, St. Thomas Id., W. I.*†	30.28	769.1	82	27.8		ese.			3				ese.	o	o			
S. S. Victoria J. Peed, Barranquilla, U. S. C*†	29.11	739.4				calm			0		3							
Bk. Vincenzo Accame, N. 39° —′, W. 69° —′†	29.84	758.0	64.4	18.0		ssw.			4									
Schr. Viola Reppard, Brunswick, Ga†	29.79	756.7	79	26.1		calm			0		9		calm	6 h'r	6 h'r			fair.
Bk. Wm. Wilcox, N. 22° 00′, W. 36° 17′*†	30.40	772.1	78	25.6		ese.			3		2		e.	o	o	sm'h		fair.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 30, 1882,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.09	764.3	73.4	23.0	71	ssw.			4		2?			0	0	cloudy?	Moiroud.
Algiers			30.12	765.0	76.3	24.6	50	ne.			1		0			0	0	clear	Nicolas.
La Calle			30.15	765.8	82.8	28.2	68	n.			1		2			0	0	fair	Fonfrède.
Tunis			30.16	766.1															Jacques.
Saida			30.18	766.6															Dumas.
Tebessa			30.23	767.9	77.0	25.0	46	se.			1		2			0	0	fair	Derché.
Geriville					87.4	30.8	11	se.			7		0			0	0	clear	Lonchamp.
Laghouat			30.22	767.7	89.6	32.0	28	e.			1		0			0	0	clear	Abraham.
Biskra			30.21	767.4	96.1	35.6	15	se.			1		6			0	0	cloudy	Malau.
Australian.																			
Melbourne, Victoria	29.55	750.6	29.64	752.8	53.0	11.7	90	s.	20	8.9			10			0.38	9.6	showery	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.58	751.4	30.11	764.7	82.4	28.0	42	w.			3		3			0	0		Prof. Ivan Stozir.
Cracow, I. R. Observatory	29.34	745.2	30.08	763.9	76.6	24.8	55	e.	4.9	2.2			8			0.016	0.4		Dr. Wierzbiski.
Eperies	29.21	741.9	30.05	763.2	77.7	25.4	43	n.			2	2 cs	0			0	0		Julius Mikolik.
Gratz	28.89	733.8	30.08	764.1	78.4	25.8	76	s.			2		5			0	0	thunder	Andreas Rospini.
Hermannstadt	28.72	729.4	30.09	764.2	76.3	24.6	50	s.			2		2			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.76	730.5	30.22	767.7	81.7	27.6	57	ne.			1	6 c	0			0	0	fair	The Staff.
Lemberg	29.13	739.8	30.07	763.8	74.5	23.6	50	n.			1		6			0	0		Dr. T. Stanecki.
Pola	30.04	762.9	30.15	765.7	77.9	25.5	74	wnw.			2		0			0	0		I. R. Hydrographic Office.
Szathmar	29.62	752.4	30.08	763.9	79.2	26.2	64	n.			3		1			0	0		Joseph Midlinszky, S. J.
Szegedin	29.84	757.9	30.11	764.7	77.2	25.1	47	n.			1		3			0	0		Karl Stancel.
Trieste	30.05	763.3	30.15	765.9	83.8	28.8	49	calm			0		0			0	0		Rieder.
Vienna	29.41	747.0	30.09	764.2	83.5	28.6	40	e.			2		4			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.24	768.1	30.34	770.6	57.6	14.2	55	sse.	14	6.3			6			0	0	d. clouds	W. Boswell
Armagh, Observatory	30.14	765.5	30.39	771.9	60.3	15.7	68	wsw.	6	2.7			7					d. clouds	S. Call.
Bidston, Liverpool Obs'y			30.36	771.1	59.0	15.0	85	wnw.	10	4.5			4					d. clouds	John Hartnup.
Bolton, Sharples	29.79	756.7	30.32	770.1	60.8	16.0	67	nnw.	6	2.7			7					d. clouds	Thomas Mackereth. [A.S.
Bradford, Yorkshire	29.93	760.2	30.33	770.4	65.1	18.4	49	se.			1		4			0	0	d. clouds	J. McLandsborough, F. R
Bridgetown, Barbadoes	29.96	761.0	29.99	761.7	84.0	28.9	67	ne.			3		3					d. clouds	Corpl. J. Surgenor, A. H. C.
Cardington			30.27	768.8	68.0	20.0	47	ne.			2.0		6					d. clouds	John McLaren.
Chatham, School M. E.	30.13	765.3	30.26	768.6	65.0	18.3	73	ne.			1		8					d clouds	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	30.12	765.0	30.35	770.9	61.0	16.1	64	nnw.			3		3					misty	The Staff.
Fort Napier, Natal	27.64	702.0	29.86	758.4	71.2	21.8	17	se.			1		0					blue sky	Pvt. E. K Annis, A. H. C.
Free Town, Sierra Leone	29.58	751.3	29.82	757.4	89.0	31.7	66	nw.			1		3						Sergt. John Robinson.
Gibraltar, Mediterranean	30.01	762.2	30.06	763.5	74.5	23.6	80	e.			2		4					d. clouds	Cpl. O. Baldwin.
Glasgow, Observatory	30.16	766.1	30.36	771.1	60.7	15.9	44	wsw.			3		3					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.08	764.0	30.25	768.3	67.7	19.8	61	n.			4		8					d. clouds	The Staff.
Guernsey	29.98	761.5	30.28	769.1	58.5	14.7	90	n.			1		10					drizzling	A. Collenette, F. M. S.
Kew, Observatory	30.23	767.8	30.27	768.8	64.6	18.1	48	n.	22	9.8			6					d. clouds	The Staff.
Leicester, Museum	30.10	764.5	30.36	771.1	62.0	16.7	66	ne.			1		5					d. clouds	J. C. Smith.
Malta, Mediterranean	30.05	763.3	30.13	765.3	77.4	25.2	60	ne.			2		0					blue sky	I. H. Whysall.
Nassau, Bahamas	30.04	763.0	30.09	764.3	82.0	27.8	87	sw.			1		10					overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.81	757.2	30.33	770.4	63.6	17.6	59	nne.			3		5					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	30.06	763.5	30.29	769.4	65.0	18.3	45	n.			3		6					d. clouds	The Staff.
Plymouth	30.23	767.8	30.30	769.6	67.1	19.5	52	nne.			1		5					d. clouds	John Merrifield.
Sandwick Manse, Orkneys			30.31	769.9	54	12.2	64	w.	22	9.8			0					blue sky	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.92	760.0	29.98	761.5	80.6	27.0	46	ne.			2		2					d. clouds	W. H. Lyne.
Sheffield	30.00	762.0	30.31	769.9	69.0	20.6	54	ne.			1		7			0	0		W. F. Cooper.
Silloth Rectory	30.32	770.1	30.35	770.9	64.5	18.1	51	calm			0		3			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.34	770.6	66.0	18.9	54	w.	9	4.0			7					d. clouds	J. New.
Strathfield Turgiss	30.07	763.8	30.28	769.1	67.4	19.7	54	n.			2		7					squally	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	30.33	770.4	30.35	770.9	63	17.2	61	nw.			4		4					d. clouds	W. Newcombe.
Valencia, Observatory	30.37	771.4	30.40	772.1	60.6	15.9	74	sw.	9	4.0			6					d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.64	752.8	29.68	753.9	52	11.1	58	w.	12	5.4		0	0			0.180	4.6	clear	H. J Cundall, C. E.
Chatham, N. B*	29.60	751.8	29.66	753.4	50	10.0	71	sw.	12	5.4		0	0			0.59	15.0	clear	G. A. Blair.
Father Point, Quebec*	29.54	750.3	29.56	750.8	47	8.3	66	w.	35	15.6		0	2 ks		w.	0.10	2.5	clear	J. McWilliams.
Fort Garry, Manitoba*																			
Halifax, N. S*	29.63	752.6	29.76	755.9	54	12.2	61	nw.	11	4.9		0	0			0.075	1.9	clear	A. Allison.
Kingston, Ontario*	29.57	751.1	29.90	759.4	49	9.4	83	w.	12	5.4		0	0			0	0	hazy	A. P. Knight, M. A.
Montreal, Quebec*	29.61	752.1	29.81	757.2	51	10.6	66	sw.	16	7.2		0	0			inap.	inap.	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.16	740.7	29.85	758.2	49	9.4	71	s.	12	5.4		2 k	hz.	w.		0	0	fair	Rev. R. Mosley.
Port Dover, Ontario	29.30	744.2	29.99	761.7	52	11.1	79	sw.	8	3.6		0	0			0	0	clear	H. Morgan.
Port Stanley, Ontario	29.35	745.5	29.99	761.7	51	10.6	93	sw.	6	2.7		hz	0			0	0	hazy	M. Payne.
Quebec, Quebec*	29.41	747.0	29.73	755.1	45	7.2	80	w.			5		10 s		w.	0.01	0.3	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.33	745.0	29.79	756.7	43	6.1	80	calm	0	0			10 s		s.	0	0	cloudy	W. H. McIntyre.
Saugeen, Ontario*	29.18	741.2	29.89	759.2	47	8.3	89	sw.	12	5.4		hz.	0			0	0	hazy	
St. Andrews, N. B	29.72	754.9	29.77	756.1	53	11.7	57	nw.	3	1.3		0	0			0.53	13.5	clear	
Sydney, C. B*	29.57	751.1	29.63	752.6	49	9.4	80	nw.	7	3.1		2 c	1 k		nw.	1.11	28.2	clear	T. C. Hill, C. E
Toronto, Ontario*	29.57	751.1	29.95	760.7	51	10.6	72	w.	1	0.4		hz.	0			0	0	hazy	Magnetic Observatory.
Yarmouth, N. S*	29.77	756.1	29.84	757.9	46	7.8	83	nw	8	3.6		0	0			0.42	10.7	clear	Lt. F. E. Wilmot, R. N
Sub-series.																			
St. Johns, Newfoundland	30.01?	762.2?	30.27?	768.8?	38	3.3	100	e.	3	1.3		fg	fg.			0.10	2.5	raining	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.08	764.0	30.11	764.8	65.0	18.3	85	ne.	3.8	1.7		0	2 s			0.020	0.5	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	29.99	761.7	30.03	762.7	56.7	13.7	81	nw.	14	6.3		10	8			0	0		The Staff, for D. Gill.

STATIONS	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow	29.76	755.9	30.03	762.7	76.0	24.4	70	calm			0		7			0	0		N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.91	759.6	29.93	760.3	63.1	17.3	85	sse.	2.2	1.0		0	0			0	0	clear	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	30.12	765.0	30.17	766.2	64.4	18.0	45	nw.	18	8			1						Oversergent Fischer.
Fanöe	30.19	766.7	30.21	767.2	59.9	15.5	81	nw.			4		0						Overloerer Lauridsen.
Godthaab, Greenland	30.28	769.0	30.32	770.1	41.7	5.4	75	calm			0		0			0	0		S. Kleinschmidt.
Stykkisholm, Iceland	30.04	763.1	30.09	764.2	40.1	4.5	87	nw.			2		8						A. O. Thorlacius.
Thorshavn	30.11	764.9	30.15	765.8	51.1	10.6	81	w.	18	8			5						Overloerer Bergh.
Vestervig	30.12	765.0	30.21	767.3	57.0	13.9	75	wnw.			4		0						Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.58	751.3	30.22	767.5	65.8	18.8	78	wsw.			2		kn		w.	0.492	12.5		M. Labroue, Director.
Alençon, Normal School	29.61	752.0	30.16	766.0	53.2	11.8	95	sw.			2		10 n		sw.	1.126	28.6	raining	M. Nicot, Director.
Arras, Engineer School	29.84	758.0	30.10	764.5	57.4	14.1	86	ne.			3		10		ne.	0.559	14.2	covered	M. Fénéon, Command't.
Avignon, Normal School	30.06	763.5	30.14	765.5	82.8	28.2	70	sw.			1		8		s.	0	0	very cloudy	M. Giraud, Director.
Bar-sur-Seine	29.58	751.2	30.11	764.8	74.7	23.7	48	w.			1		6		sw.	0	0	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.81	757.2	30.08	764.0	61.7	16.5	85	ene.			3		10		e.	0.453	11.5	covered	M. Frère Eugène Mari.
Besançon, Normal School	29.16	740.7	30.00	762.1	82.8	28	40	sw.			1	10 c	0	s.		0	0	covered	M. Gobin, Director.
Bordeaux, Observatory	29.92	760.0	30.18	766.5	64.9	18.3	79	ssw.			1		10		w.	0.594	15.1	covered	M. Rayet, Director.
Bourges, Normal School	29.58	751.4	30.12	765.0	72.3	22.4	66	sw.			2		k		sw.	0	0		M. Postel, Director.
Brest, Naval Observatory	30.08	764.0	30.32	770.1	60.4	15.8	73	nne.			2		10		nne.	0	0		M. de Kermaree, Dir.
Caen, Normal School	30.15	765.8	30.19	766.8	54.3	12.4	83	n.			3		10			0.35	9.	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.70	754.4	30.02	762.4	74.3	23.5	57	s.			3		5		sw.	0.091	2.3	cloudy	M. Jadot, Director.
Charleville, Normal School	29.59	751.6	30.09	764.3	72.7	22.6	66	e.			4		5			0	0	½ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.77	730.8	30.07	763.8	75.2	24.0	49	n.			1		8		s.	0	0	¾ covered	M. Alluard, Director.
Cluny, Normal School	29.28	743.6	30.10	764.4	78.1	25.6	47	nw.			2		4		s.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.22	742.3	30.06	763.5	81.5	27.5	44	w.			3		2 kn	w.	w.	0	0	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.67	702.8	30.09	764.3	78.4	25.8	31	se.			1	0	2 k		w.	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	29.03	737.4	30.11	764.7	81.5	27.5	32	sw.			1		7		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.30	744.2	30.03	762.8	79.2	26.2	47	nw.			3		ks		w.	0	0		M. Ablard, Director.
Guéret, Normal School	28.58	725.9	30.12	765.0	64.0	17.8	81	ne.			1		5		e.	0.24	6.	cloudy	M. Rivoire, Director.
Lamballe, Normal School	29.94	760.5	30.21	767.4	61.9	16.6	77	n.			1		2		n.	0	0	slightly cl'dy	M. Ollitrault, Director.
Lescar, Normal School	29.71	754.7	30.27	768.9	67.6	19.8	65	nne.			4		5 kn			0.346	8.8	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	30.17	766.3	30.27	768.9	63.5	17.5	74	n.			1		10		n.	0	0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.68	738.6	30.10	764.4	77.4	25.2	50	se.			1	c	8 n	sw.		0	0	¾ covered	M. André, Director.
Mans, Normal School	29.82	757.5	30.13	765.4	54.5	12.5	94	se.			1		10			1.38	35.	covered	M. Piboon, Director.
Marseille, Observatory	29.86	758.5	30.13	765.3	73.6	23.1	51	w.			1		9		sw.	0	0		M. Stephan, Director.
Montlouis	25.01	635.2	29.85	758.2	62.6	17.0	70	e.	11.2	5.0			6		e.	0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	30.01	762.2	30.13	765.4	73.4	23	69	w.			3		5			0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	29.27	743.4	30.08	763.9	82.8	28.2	49	se.			1		kn			0	0		M. Hasse, Director
Nantes, Observatory	30.07	763.8	30.24	768.0	62.6	17	72	nne.			1–2		10 kn		n.	0.492	12.5		M. Larocque, Director.
Perpignan, Observatory	30.04	763.0	30.14	765.6	78.1	25.6	48	e.	7.4	3.3			10		sw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.46	545.0			45.3	7.4		se.			2		1		se.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.09	738.9	30.11	764.8	80.2	26.8	63	n.			1		2	n.	n.	0	0	slightly cl'dy	M. Taillen.
Puy de Dôme Obs'y, Summit	25.34	643.7			55.0	12.8	87	wsw.			3		8		wsw.	0.024	0.6	¾ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	30.12	765.0	30.15	765.8	66.6	19.2	100	s.			1		10			0.020	0.5	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.96	761.0	30.17	766.4	59.4	15.2	87	n.			1		10			0.512	13.0	covered	M. Mouillot, Director.
Rodez, Normal School	27.97	710.4	30.06	763.5	66.2	19	70	e.			3		2		s.	0	0	slightly cl'd'y	M. Serger, Director.
Rouen, Normal School	30.03	762.8	30.08	764.0	57.6	14.2	86	ne.			4		10		nw.	0.492	12.5	covered	M. Brotier.
Saint Maur, Observatory	29.92	760.0	30.09	764.2	64.8	18.2	78	ssw.			2		10		ssw.	0.697	17.7		M. Renou, Director.
Toulouse, Observatory	29.54	750.4	30.27	768.9	69.8	21.0	68	w.			1		8		nw.	0	0	very cloudy.	M. Bailland, Director.
Tours	29.97	761.1	30.14	765.6	61.9	16.6	81	w.			2		10	w.	w.	2.024	51.4	covered.	
Versailles, Observatory	29.58	751.3	30.07	763.8	63.0	17.2	78	sw.			3					0.472	12.0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.80	756.9	30.09	764.3	64.6	18.1	80	s.			2		10		ssw.	0.587	14.9		M. Marié Davy, Director
GERMAN.																			
Bamberg	29.25	742.9	30.10	764.6	80.2	26.8	55	w.			2	5 cks	0	sw.		0.004	0.1		Prof. Dr. Hoh.
Berlin	29.97	761.2	30.14	765.5	73.2	22.9	55	n.			2		8			0.736	18.7		Prof. Dr. Arndt.
Breslau	29.65	753.0	30.18	766.6	65.1	18.4	91	nnw.			2		9			0.118	3.0	raining	Royal University Obs'y.
Carlsruhe	29.63	752.7	30.06	763.4	80.6	27.0	61	e.			1		4	sw.		0.425	10.8		Albert Senz.
Cassel	29.39	746.5	30.10	764.6	76.3	24.6	61	n.			2		8	sw.		0.276	7.0	thund'r st'm	Dr. H. Möhl.
Frankfort-on-the-Main	29.71	754.5	30.05	763.3	78.3	25.7	55	ene.			2		2			0.177	4.5		Physical Society.
Friedrichshafen	28.67	728.1	30.04	762.9	77.4	25.2	64	s.			1		6	sw.		1.075	27.3		Wilhelm, Chief Tel.
Hamburg	30.15	765.7	30.24	768.1	66.4	19.1	49	nw.			3		5			0	0		E. Preller.
Kiel	30.21	767.2	30.22	767.6	62.8	17.1	57	ne.			2		2			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.71	754.6	30.11	764.9	74.1	23.4	56	nnw.			2		7	n.		0	0		H. Leppig, Asst.
Magdeburg	29.97	761.3	30.15	765.9	73.0	22.8	50	nnw.			1	0	7 ks;k		nw; w	0	0		Dr. Assmann.
Memel	30.02	762.5	30.07	763.7	61.3	16.3	80	wsw.			3		10					foggy	Issermann.
Munich	28.31	719.0	30.18	766.5	83.7	28.7	39	ne.			2		3	sw.		0	0		Central Station.
Neufahrwa-ser	30.08	764.0	30.10	764.4	72.3	22.4	54	ne.			2		8	sw.		0	0		A. Lothes.
Neustadt, Palatinate	29.56	750.9	30.09	764.3	79.7	26.5	56	calm			0		4			0	0		Dickuether.
Stuttgart	29.13	735.9	29.98	761.5	79.2	26.2	64	n.			1		7	w.		1.272	32.3		Prof. Dr. Schoder.
Wustrow	30.21	767.4	30.24	768.0	59.7	15.4	81	wnw.			3	0	3 s			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.66	753.3			79.5	26.4		ne.			4.0		5 k			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.54	750.2	29.59	751.5	87.9	31.1	76	sw.	38.0	17.0			5		w.	0	0	misty	
Deesa	29.06	738.1	29.51	749.5	102.8	39.3	27	sw.	19.3	8.6			0			0	0		
Bombay	29.61	752.2	29.65	753.1	88.2	31.2	71	wnw.	14.0	6.3			2		wnw.	0	0	d. clouds	
Poona, Yarrowda	27.78	705.6	29.60	751.8	86.5	30.3	49	sse.	19.0	8.5			9	wnw.	wnw.	0.09	2.3	gloomy	
Bellary	28.18	715.8	29.62	752.3	87.5	30.8	45	s.	6.2	2.8			9			0	0	gloomy	
Belgaum	27.17	690.0	29.70	754.3	74.6	23.7	82	wsw.	11.0	4.9			8	sw.	sw.	0.89	22.6	thund'r storm	
Lahore	28.62	726.9	29.30	744.3	111.3	44.1	11	w.	1.1	0.5			0			0	0	blue sky	
Roorkee	28.57	725.8	29.43	747.6	96.9	36.1	33	se.	6.5	2.9			0			0	0	misty	
Agra	28.89	733.9	29.42	747.3	106.6	41.4	25	s.	4.0	1.8			8		s.	0	0		
Nagpur	28.51	724.2	29.51	749.4	99.5	37.5	26	nw.	7.6	3.4			10		w.	0	0	overcast	
Jubbulpore	28.19	716.0	29.47	748.5	104.5	40.3	14	ssw.	4.3	1.9			2			0	0	d. clouds	
Lucknow	29.14	740.2	29.51	749.5	93.5	34.2	47	e.	5.0	2.2			0			0	0	blue sky	
Allahabad	29.17	740.9	29.46	748.4	101.0	38.3	28	ene.	4.7	2.1			0			0	0	blue sky	
Patna	29.43	747.4	29.61	752.1	82.0	27.8	96	ene.	10.5	4.7			5	ene.	ene.	0.90	22.9	d. clouds	
Hazaribagh	27.60	700.9	29.54	750.4	89.8	32.1	41	sw.	12.2	5.4			6			0	0		
Cuttack	29.49	749.0	29.57	751.0	91.6	33.1	54	s.	5.8	2.6			3			0.41	10.4	d. clouds	
Calcutta, Alipore	29.59	751.7	29.62	752.2	86.7	30.4	69	ssw.	6.0	2.7			0			1.71	43.4	blue sky	
Dhubri	29.56	750.9	29.68	753.9	75.5	24.2	88	ene.	17.3	7.7			10		sw.	0.43	10.9	overcast	
Chittagong	29.61	752.1	29.70	754.4	82.9	28.3	84	s.	7.1	3.2			4			0	0	blue sky	
Sibsagar	29.40	746.8	29.74	755.3	78.9	26.1	86	ne.	2.8	1.2			10	w.	w.	0.09	2.3	d. clouds	
Jeypore	28.05	712.4	29.40	746.8	107.9	42.2	24	w.	9.0	4.0			1			0	0	blue sky	
Zanzibar, Africa	29.96	761.0			82.5	28.1	66	s.	4.8	2.1			5		sse.	0	0	d. clouds	
ITALIAN.																			
Udine	29.74	755.5	30.14	765.6	86.0	30.0	64	sw.	1.8	0.8			2			0	0		Prof. Giovanni Clodig.
Milan	29.64	754.8	30.14	765.5	86.4	30.2	44	sw.	6.3	2.8			10			0	0		Prof. Schiaparelli.
Padua	30.14	765.5	30.24	768.2	84.7	29.3	46	wsw.	3.8	1.7			1			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.26	743.3	30.14	765.6	82.4	28.0	48	sse.	1.3	0.6			8			0	0		Prof. P. F. Denza.
Genoa	29.99	761.8	30.18	766.6	79.0	26.1	36	w.	2.5	1.1			2	sw.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.31	719.0	30.24	768.1	82.2	27.9	49	wnw.			2		2	w.		0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Velocity. Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
ITALIAN.—Continued.																			
Pesaro	30.11	764.7	30.15	765.9	77.0	25.0	59	e.	8.1	3.6			10			0	0		Prof. Luigi Guidi.
Florence	29.90	759.4	30.15	765.7	87.8	31.0	32	sw.			2		0			0	0		Prof. Costantino Pitter.
Leghorn	30.02	762.6	30.11	764.7	82.8	28.2	50	sw.	1.3	0.6			10			0	0		Prof. P. Monte.
Rome	29.97	761.2	30.14	765.5	86.9	30.5	36	w.	12.5	5.6			10			0	0		Prof. P. S. Ferrari.
Lecce	29.84	757.9	30.09	764.3	78.8	26.0	25	n.	12.5	5.6			0			0	0		Prof. C. de Giorgi.
Cosenza	29.26	743.1	30.12	765.0	83.1	28.4	77	wnw.	3.8	1.7			2	w.		0	0		Prof. D. Conti.
Cagliari	29.93	760.3	30.12	765.1	77.4	25.2	48	s.			4		0			0	0		Prof. A. Pacinotti.
Palermo	29.92	760.0	30.17	766.2	80.8	27.1	40	ne	6.9	3.1			0			0	0		Prof. G. Olacciatore.
Syracuse	30.02	762.6	30.07	763.7	81.7	27.6	54	s.	3.1	1.4			2	sw.		0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. It	29.61	752.0	30.10	764.6	84.2	29.0	50	nw.	3.1	1.4			2			0	0		Prof. T. Brioschi.
Stelvio	22.58	573.4			54.0	12.2	41	sw.			4		6			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.54	572.5			53.4	11.9	52	nw.			2		10			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	30.00	762.0	30.03	762.7	54.0	12.2	82	calm	0	0		2ck;cs		w.	w.	0	0	fair	K. Ogawa.
Hakodate	30.00	762.0	30.01	762.2	52.2	11.2	86	nw.	3.0	1.3			8		w.	0	0	cloudy	
Hiroshima, I. M. Obs'y	29.94	760.5	29.96	761.0	65.8	18.8	78	nne.	4.1	1.8		10 cs	0			0	0	overcast	J. Sogawa.
Kanazawa	29.94	760.5	30.04	763.0	59.5	15.3	82	se.	7.7	3.4		4ck;cs	0			0	0	fair	S. Eudo.
Kioto	29.85	758.2	30.03	762.7	58.1	14.5	70	nnw.	1.8	0.8		7ck;cs	0			0	0	fair	M. Tojima.
Kochi	30.03	762.7	30.05	763.3	67.4	19.7	81	n.	4.9	2.2		cs	10 s		sw.	0.540	13.7	cloudy	K. Kusunose.
Nagasaki, I. M. Obs'y	29.76	755.9	29.96	761.0	66.1	18.9	89	calm	0	0			10 s			0.410	10.4	overcast	S. Takehayashi.
Niigata	30.00	762 0	30.04	763.0	65.8	18.8	88	nne.	6.7	3.0		7ck;cs	0			0	0	fair	M. Morita.
Nobiru	30.02	762.5	30.04	763.0	57.6	14.2	84	s.	9.4	4.2		2 cs	0			0	0	fair	H. Midzushina.
Supporo					55.0	12.8	86	calm	0	0			10			0	0	covered	
Tokei Obs'y, Yeddo	30.02	762.5	30.09	764.3	59.1	15.1	87	s.	6.3	2.8		3 cs	1 ks		s.	c	0	fair	The Staff.
Wakayama	29.99	761.7	30.04	763.0	65.2	18.4	80	calm	0	0		10 ck	0			0.112	2.8	cloudy	Y. Kuwamuea.
MAURITIUS																			
Mauritius Observatory	29.83	757.7	30.02	762.5	75.0	23.9	70	e.	13.0	5.8		1 cs	5 k;ks		e.	0.06	1.5	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.63	600.2	29.85	758.2	60.1	15.6	98	calm	0	0		8 op	0			2.733	69.4	gloomy	Prof. Vicente Fernandez.
Leon	24.26	616.2	29.87	758.7	62.2	16.8	91	wnw.			1	10 c	0	sw.		0.583	14.8	covered	Prof. M. Leal.
Mazatlan	29.64	752.8	29.90	759.3	73.0	22.8	93	e.	1.6	0.8		1 cs	1 k		e.			clear	F. Quijano, C. E.
Mexico, Central Obs'y	23.05	585 6	30.05	763.3	55.4	13.0	88	calm	0	0			10 kn		se.	0.024	0.6	raining	The Staff.
Morelia	24.16	613.6	30.19	766.9	62.8	17.1	59	se.			4	6	4	se.	se.	0.079	2.0	covered	M. Tena, M. D.
Pabellon, Aguascalientes	23.90	607.2	29.80	757.0	64.2	17.9	87	se.			1					0.120	3.0		M. V. de Leon, M. E.
Puebla, Catholic Institute	23.39	594.2	30.10	764.4	56.3	13.5	88	n.	0.2	0.1			10		sse.	0.642	16.3	covered	Prof. P. Spina.
San Luis Potosi	24.13	613.0	30.01	762.3	65.6	18.7	73	s.			1		10			0.075?	1.2?	covered	G. Barroeta, M. D.
Zacatecas	22.52	572.0	30.06	763.5	58.1	14.5	87	w.	8.2	3.7		8 ck		w.	w.	0.109	2.8	cloudy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.22	767.5	30.22	767.5	63.7	17.6		nne.			4					0	0		
Groningen	30.22	767.6	30.28	769.0	65.1	18.4		ne.			1					0	0		
Helder	30.28	769.1	30.28	769.1	60.8	16.0		nne.			4					0	0		
Hellevoetsluis	30.20	767.0	30.20	767.0	65.7	18.7	60	ne.			3					0	0		
Utrecht	30.17	766.3	30.22	767.5	66.9	19.4	60	nne.			3		8			0.047	1.2	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	30.12	765.0	30.18	766.6	47.1	8.4	84	w.	13	6			10			0.433	11.0	raining	
Brono	29.60?	751.8?	29.64?	752.8?	55.9	13.3	66	calm	0	0			5			0.157	4.0	raining	
Christiania	29.81	757.2	29.95	760.8	66.6	19.2	41	s.	9	4			3			0	0		
Gjesvær	30.06	763.6	30.09	764.2	41.6	5.0		wnw.			2		10						
Lodingen	30.01	762.2	30.06	763.4	49.3	9.6	93	sw.			2		10			0.177	4.5		
PORTUGUESE.																			
Angra, Azores					60.4	15.8	75	nw.	9.8	4.4			2			0.535	13.6		Dr. J. A. Sampaio.
Campo Major	29.08	738.7	30.05	763.2	79.3	26.3	33	ese.	4.9	2.2			5			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.11	764.9	30.20	767.1	66.2	19.0	63	ese.	5.6	2.5			8			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.75	755.7	30.10	764.6	72.1	22.3	55	se.	4.3	1.9			2			0	0		The Staff.
Ponta Delgada, Azores	30.01	762.2	30.08	764.0	66.9	19.4	54	wnw.	9.8	4.4			4			0.028	0.7		
Saint Paul de Loando	29.79	756.7	29.99	761.8	76.8	24.9	78	nw.	0.7	0.3			2	ene.		0	0	foggy	
Serra da Estrella	25.43	646.0	30.08	764.0	59.0	15.0	52	sse.	22.4	10.0			0			0	0		
RUSSIAN.																			
Akmolinski	28.51	724.2	29.53	750.1	74.5	23.6	44	sw.	9	4		0	8 k			0.004	0.1		Major K. Lasarew.
Archangel	30.04	763.0	30.06	763.5	41.9	5.5	74	s.	2	1			10			0.295	7.5	raining	Capt. Sseliwerstow.
Astrakhan	29.97	761.3	29.89	759.2	79.7	26.5	48	se.	2	1		0	7 ks			0	0		Capt. Wisganow.
Barnaul	29.13	739.9	29.61	752.1	63.3	17.4	68	calm	0	0			9 n			0.008	0.2		Meteorological Obs'y.
Dorpat	29.77	756.2	30.00	762.1	72.7	22.6	53	ssw.	4	2			9 k			0.370	9.4		Observatory.
Ekaterinburg	28.84	732.5	29.79	756.7	54.0	12.2	46	n.	9	4		0	8			0.055	1.4		Meteorological Obs'y.
Kasan	29.71	754.6	29.97	761.3	64.9	18.3	31	n.	9	4		0	0			0	0		Observatory.
Kertch	29.91	759.7	29.93	760.2	67.5	19.7	76	s.	2	1		0	5 ks			0.016	0.4		Lagorio & Sastyrez.
Kieff	29.36	745.8	29.97	761.2	75.0	23.9	33	nne.	11	5		ck	4 ks			0	0		Observatory.
Lugan	29.66	753.3	29.86	758.4	69.6	20.9	67	ssw.	9	4			9			0.228	5.8		Meteorological Obs'y
Moscow	29.51	749.6	29.97	761.1	71.4	21.9	38	ssw.	4	2			5 ks						Meteorological Obs'y.
Nikolaiev	29.92	759.9	29.99	761.7	82.8	28.2	38	n.	4	2		0	4 k			0.016	0.4		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.69	754.0	29.77	756.2	42.1	5.6	93	calm	0	0			10			0.094	2.4		Lieut. Iwanow.
Pekin, China	29.55	750.6	29.09	754.2	84.6	29.2	31	sw.	4	2		0	3 k			0	0		Physical Observatory
St. Petersburg	29.97	761.3	29.99	761.7	65.1	18.4	60	nw.	16	7		ck	6 kn			0.280	7.1		Central Physical Obs'y.
Semipalatinsk	29.05	737.8	29.67	753.6	72.7	22.6	45	wnw.	4	2		0	6 k			0	0		Major Lasareu.
Tashkend, Laboratory	28.31	719.1	29.78	756.4	84.7	29.3	33	calm	0	0			1			0	0		Teich, A. M.
Tiflis	28.56	725.5	29.97	761.1	62.2	16.8	88	nw.	2	1			10			0.173	4.4	thnd'r storm	Physical Observatory
Vladivostock	29.80	757.0	29.87	758.7	49.6	9.8	96	se.	4	2			10 n			0	0		
Warsaw	29.65	753.1	30.05	763.3	81.5	27.5	37	sw.	7	3		9cs;ck	0						Astronomical Obs'y
Wilna	29.65	753.2	30.06	763.4	75 9	24.4	45	sse.	7	3			7			0	0		Berg, Assistant.
Yeniseisk																			M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	30.02	762.5	30.12	765.1	70.5	21.4	67	e.	2.0	0.9		4 c	0			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	30.20	767.1	30.26	768.6	68.5	20.3	74	nw.	1.3	0.6		2	7	sw.		0.252	6.4	almost cov.	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.27	692.6	30.18	766.5	63.5	17.5	66	ne.	1.6	0.7			1			0.028	0.7	almost clear	Domingo Martin.
Madrid, Royal Obs'y	27.93	709.4	30.05	763.3	81.7	27.6	38	n.	6.0	2.7		0	6			0	0	cloudy	The Staff.
Murcia, Met. Obs'y	29.93	760.3	30.11	764.8	79.2	26.2	60	ene.	4.7	2.1		5	5			0	0	hazy	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.23	742.4	30.10	764.6	71.4	21.9	54	ne.	11.2	5.0			1			0	0	almost clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	29.95	760.8	30.02	762.5	80.3	26.8	89	ese.	2.7	1.2		7 c;cs	0	wnw.		0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.80	757.0	29.86	758.4	80.4	26.9	87	ese.	8.8	3.9			10 n		s.	0.866	22.0	heavy rain	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.97	761.2	30.07	763.7	72.9	22.7	74	w.	7.0	3.1		4	2	w.	w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.00	761.9	30.09	764.2	82.8	28.2	88	calm	0	0		3 cs	2 k	sw.	sw.	0	0		Manuel Muese.
Tuguegarao, Philippine Id's	29.74	755.4	29.87	758.7	78.0	25.6	88	nnw.	4.4	2.0			10 kn		se.	0.03	0.8	covered	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.95	760.6	29.98	761.6	61.5	16.4	56	sw.			2		8			0	0		
Umea	29.96	761.0	30.01	762.3	61.5	16.4	56	s.			2		3			0	0		
Hernosand	29.92	759.9	29.97	761.2	64.8	18.2	67	ese.			2		3			0.051	1.3		
Stockholm	29.77	756.1	29.95	760.6	63.3	17.4	74	ssw.			2		10			0	0		
Wisby	29.96	761.0	30.02	762.5	56.1	13.4	85	nw.			2		7			0.024	0.6		
Sub-series.																			
Upsala	29.82	757.3	29.90	759.5	65.1	18.4	73	s.	6.9	3.1			8		sw.	0.882	22.4		S. G. Fineman.
SWISS.																			
Geneva	28.70	728.9	30.05	763.2	82.0	27.8	46	ssw.			2					0	0		The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Turkish.																			
Constantinople			30.04	763.1	73.2	22.9	50	nne.	13	6.0			0			0	0		The Observatory.
Valona			30.17	766.2	81.3	27.4		w.			2		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.89	759.1	79.3	26.3	68	w.			2	0	1 s		wsw.	0	0		Prof. C. V. A. van Dyck.
United States.																			
Albany, New York	29.93	760.2	30.01	762.2	60	15.6	50	s.	5	2.2		0	0			0	0	clear	J. O. Barnes.
Alpena, Michigan	29.18	741.2	29.84	757.9	57	13.9	40	w.	16	7.2		5 c	0	sw.		0	0	fair	Jas. J. Fitzgerald.
Atlanta, Georgia	28.85	732.8	30.02	762.5	61.0	16.1	85	e.	5	2.2		8 k	0	w.		0	0	cloudy	H. Hall.
Atlantic City, New Jersey	30.04	763.0	30.05	763.3	57.2	14.0	57	n.	6	2.7		0	0			0	0	clear	Jas. M. Watson.
Augusta, Georgia	29.85	758.2	30.04	763.0	69	20.6	78	ne.	3	1.3		2 c	7 s		ne.	0	0	cloudy	John Healy.
Baltimore, Maryland	30.07	763.8	30.12	765.0	61	16.1	56	n.	2	0.9		0	hz.			0	0	clear	Robert Seybolh.
Barnegat, New Jersey	30.03	762.7	30.05	763.3	58.3	14.6	51	n.	9	4.0		0	0			0	0	clear	Chas. F. Merritt.
Behring Island, Behring Sea	29.84	757.9	29.86	758.4	36.6	2.6		s.	11	4.9			fg.			0	0	dense fog	Dr. L. Steineger.
Bismarck, Dakota	28.00	711.2	29.76	755.9	53	11.7	93	ne.	5	2.2		9 ck	1 s	n.	ne.	0.04	1.0	cloudy	Cyrus Cramer.
Boise City, Idaho	27.22	691.4	30.06	763.5	48	8.9	66	w.	3	1.3		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.81	757.2	29.97	761.2	55.0	12.8	55	w.	5	2.2		0	hz.			inap.	inap.	clear	O. B. Cole.
Brownsville, Texas	29.80	756.9	29.84	757.9	78	25.6	90	calm	0	0			10 s		calm	0	0	cloudy	M. McCarty.
Buffalo, New York	29.24	742.7	29.98	761.5	51.7	10.9	61	s.	12	5.4		8 cs	hz.	w.		0	0	cloudy	Wm. Finn.
Burlington, Vermont	29.60	751.8	29.89	759.2	53.3	11.8	54	s.	12	5.4		3 ck	0	w.		0.02	0.5	clear	G. O. Schaeffer.
Cairo, Illinois	29.63	752.6	30.03	762.7	64.6	18.1	75	e.	4	1.8		5 c	0	w.		0	0	fair	W. H. Ray.
Campo, California	27.30	693.4	29.83	757.7	43.8	6.6	68	w.	2	0.9		0	0			0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.10	688.3	29.77	756.1	57	13.9	53	calm			0	1 cs	2 k	w.	w.	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.06	763.5	30.08	764.0	63	17.2	63	ne.	20	8.9		0	0			0	0	clear	J. E. Lanouette.
Cape May, New Jersey	30.04	763.0	30.07	763.8	57	13.9	51	ne.	8	3.6		0	0			0	0	clear	W. Bolten.
Cedar Keys, Florida	30.00	762.0	30.02	762.5	78	25.6	82	w.	7	3.1		4 c	1 ks		sw.	0.20	5.1	fair	F. W. Mixer.
Champaign, Illinois	29.16	740.7	29.96	761.0	56.4	13.6	68	s.	10	4.5		8 c	0	sw.		0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	29.96	761.0	30.01	762.2	74.5	23.6	82	e.	20	8.9		5 ck	0	nw.		0.40	10.2	fair	J. H. Smith.
Charlotte, N. Carolina	29.18	741.2	30.02	762.5	66.0	18.9	73	e.	1	0.4		6 ck	hz	w.		0	0	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.22	742.2	30.03	762.7	60.0	15.6	75	n.	1	0.4		4 k	sk.	se.		0	0	fair	B. L. Goulding.
Cheyenne, Wyoming	24.03	610.4	29.90	759.4	43.1	6.2	71	nw.	12	5.4		0	6 s		nw.	0	0	fair	E. McGovern.
Chicago, Illinois	29.24	742.7	29.94	760.5	56.2	13.4	69	s.	7	3.1		6 c	0	s.		0	0	fair	J. Mitchell.
Chincoteague, Virginia	30.06	763.5	30.08	764.0	60	15.6	50	e.	12	5.4		0	0			0	0	clear	V. P. Temple.
Cincinnati, Ohio	29.41	747.0	30.06	763.5	55.3	12.9	79	e.	1	0.4		0	hz.			0	0	clear	R. B. Watkins.
Cleveland, Ohio	29.29	744.0	30.02	762.5	53.7	12.1	60	se.	6	2.7		0	0			0	0	clear	J. B. Newlin.
Coleman City, Texas	28.13	714.5	29.92	760.0	68	20.0	84	se.	6	2.7			10 s		s.	0	0	threatening	L. Dorman.
Columbus, Ohio	29.19	741.4	30.03	762.7	54	12.2	66	n.	3	1.3		1 cs	0			0	0	clear	D. Cuthbertson.
Concho, Texas	27.91	708.9	29.81	757.2	66	18.9	78	n.	25	11.2		0	7 s		sw.	0.84	21.3	cloudy	W. W. McConihe.
Davenport, Iowa	29.27	743.4	29.91	759.7	58	14.4	70	s.	2	0.9		7 k	0	sw.		0	0	fair	R. R. Martin.
Dayton, Washington T'y	28.37	720.6	30.12	765.0	51	10.6	72	e.	5	2.2		3 k	0	ne.		0	0	clear	H. Clifford.
Deadwood, Dakota	25.32	643.1	29.83	757.7	48	8.9	93	nw.	6	2.7			10 s			0.74	18.8	cloudy	G. W. Scott.
Decatur, Texas					65	18.3	58	se.	5	2.2			10 s			0.32	8.1	cloudy	D. J. Carr.
Delaware Breakwater, Del.	30.06	763.5	30.08	764.0	57	13.9	69	ne.	12	5.4		0	0			0	0	clear	A. Schneider.
Denison, Texas	29.10	739.1	29.90	759.4	67.2	19.6	73	sw.	3	1.3			10 s		sw.	0	0	cloudy	J. McGlone.
Denver, Colorado	24.75	628.6	29.91	759.7	50.5	10.3	74	s.	2	0.9		0	7 ks		w.	0	0	fair	F. M. Neal.
Des Moines, Iowa	28.90	734.0	29.80	756.9	58	14.4	86	sw.	6	2.7			10 s		sw.	0.02	0.5	threatening	F. W. Conrad.
Detroit, Michigan	29.29	744.0	29.99	761.7	57.2	14.0	74	sw.	7	3.1		0	0			0	0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.28	692.9	29.83	757.7	55	12.8	93	n.	11	4.9			10 s		n.	0.98	24.9	cloudy	E. A. Thomas.
Dubuque, Iowa	29.16	740.7	29.86	758.4	56.8	13.8	90	s.	9	4.0			10 s		s.	0	0	threatening	J. Harvey Smith.
Duluth, Minnesota	29.08	738.6	29.78	756.4	47	8.3	86	ne.	6	2.7			10 n		calm	0.22	5.6	light rain	N. B. Conger.
Eagle Pass, Texas	29.07	738.4	29.87	758.7	73.3	22.9	90	se.	7	3.1			10 s		se.	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.37	644.4	30.05	763.3	38	3.3	70	n.	7	3.1		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.73	755.1	29.80	756.9	54	12.2	52	w.	8	3.6		0	0			0.67	17.0	clear	J. H. Melton.
El Paso, Texas	26.10	664.5	29.80	756.9	65	18.3	42	nw.	5	2.2		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.29	744.0	30.01	762.2	56	13.3	57	s.	9	4.0		0	0			0	0	clear	R. H. Paxton.
Escanaba, Michigan	29.16	740.7	29.82	757.4	55	12.8	62	s.	5	2.2		6 k	hz.	w.		0	0	fair	C. Dill.
Fort Apache, Arizona	25.02	635.5	29.84	757.9	41	5.0	48	e.	2	0.9		0	4 s		calm	inap.	inap.	fair	W. C. Barnes.
Fort Assinnaboine, Montana	27.25	692.1	30.09	764.3	48	8.9	86	sw.	8	3.6		0	0			0.01	0.3	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.18	715.8	29.74	755.4	57.0	13.9	86	nw.	13	5.8			10 s		nw.	0.13	3.3	cloudy	A. Pritchard.
Fort Benton, Montana	27.28	692.9	30.07	763.8	47	8.3	93	calm	0	0		0	0			0.02	0.5	clear	G. W. Davis.
Fort Buford, Dakota	27.94	709.7	29.92	760.0	52	11.1	74	n.	11	4.9			10 s		calm	0.04	1.0	cloudy	A. H. Bell.
Fort Custer, Montana	26.88	682.7	29.98	761.5	51	10.6	93	w.	4	1.8		0	6 s		calm	0.35	8.9	fair	V. Verge.
Fort Davis, Texas	25.05	636.3	29.77	756.1	61	16.1	72	s.	4	1.8		0	0			0.02	0.5	clear	J. Williams.
Fort Elliott, Texas	27.09	688.1	29.79	756.7	57	13.9	64	s.	12	5.4		5 k	0	s.		0.64	16.3	fair	W. J. Cundall.
Fort Gibson, Indian T'y																			J. B. Campbell.
Fort Grant, Arizona	25.18	639.6	29.79	756.7	59	15.0	10	sw.	2	0.9		3 c	0			0	0	clear	T. J. Macgowan.
Fort Keogh, Montana	27.47	697.7	29.92	760.0	52	11.1	80	nw.	16	7.2		10 cs	0	n.		0.26	6.6	cloudy	W. B. Stockman.
Fort Macon, North Carolina	30.03	762.7	30.04	763.0	67	19.4	59	e.	14	6.3		hz.	0	calm		0	0	clear	L. Leonardy.
Fort McKavett, Texas	27.68	703.1	29.92	760.0	69	20.6	81	se.	10	4.5			10 ks		s.	0	0	cloudy	J. E. Thatcher.
Fort Missoula, Montana	26.86	682.2	30.16	766.1	49	9.4	71	s.	1	0.4		0	0			0.07	1.8	clear	J. H. Jones.
Fort St. Michaels, Alaska	29.66	753.4	29.69	754.1	39	3.9	91	sw.	6	2.7			10 ks		sw.	0	0	cloudy	A. P. Leavitt.
Fort Shaw, Montana	26.47	672.6	30.07	763.8	40	4.4	92	w.	2	0.9		0	0			inap.	inap.	clear	A. L. Mathews.
Fort Sill, Indian Territory	28.64	727.4	29.86	758.4	63.2	17.3	87	s.	12	5.4			10 s		w.	0.20	5.1	cloudy	T. Cleary.
Fort Stevenson, Dakota	27.96	710.2	29.79	756.7	54	12.2	100	ne.	11	4.9			10 n		ne.	0.06	1.5	light rain	W. Burrows.
Fort Verde, Arizona					60.4	15.8	56	sw.			2		10 s		sw.	inap.	inap.	cloudy	D. Brooks.
Fort Washakie, Wyoming	24.57	624.1			43.1	6.2	89	sw.	5	2.2			9 ks; n		sw.	0.35	8.9	threatening	T. M. Ambler.
Fredericksburg, Texas	28.15	715.0	29.87	758.7	65	18.3	93	calm	0	0		4 ck	0	s.		0	0	fair	H. S. Miles.
Galveston, Texas	29.88	758.9	29.93	760.2	77	25.0	86	se.	4	1.8		1 c	4 k		se.	0	0	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.28	743.7	29.94	760.5	56.0	13.3	66	s.	16	7.2		0	0			0	0	clear	W. A. Reid.
Hatteras, North Carolina	30.04	763.0	30.06	763.5	67	19.4	55	ne.	11	4.9		0	hz.			0	0	clear	R. M. Crawford.
Helena, Montana	25.89	657.6	30.06	763.5	45	7.2	76	w.	4	1.8		0	0			0.05	1.3	clear	S. Wheaton.
Henrietta, Texas	28.95	735.3	29.93	760.2	65.0	18.3	100	se.	5	2.2			10 s			0.09	2.3	cloudy	J. W. Byram.
Huron, Dakota	28.27	718.0	29.62	752.3	55.1	12.8	86	nw.	5	2.2			9 s		w.	0.22	5.6	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.23	742.4	30.02	762.5	58	14.4	64	se.	2	0.9		0	hz.		calm	0	0	clear	O. Schutze
Indianola, Texas	29.87	758.7	29.90	759.4	76.7	24.8	88	se.	7	3.1		2 c	1 k		nw.	0	0	clear	I. A. Reed.
Jacksboro, Texas	28.73	729.7	29.88	758.9	65	18.3	93	e.	4	1.8		10 cs	0	s.		0.01	0.3	cloudy	J. P. Sherry.
Jacksonville, Florida	29.96	761.0	30.00	762.0	75	23.9	85	s.	2	0.9			10 s			inap.	inap.	cloudy	J. W. Smith.
Keokuk, Iowa	29.26	743.2	29.91	759.7	57.0	13.9	74	se.	4	1.8		9 k	0	sw.		0	0	cloudy	F. Z. Gosewisch.
Key West, Florida	29.99	761.7	30.01	762.2	82.0	27.8	77	se.	3	1.3		2 cs	2 s	sw.		0	0	fair	L. M. Melbourne.
Kittyhawk, North Carolina	30.04	763.0	30.06	763.5	61	16.1	87	n.	8	3.6		hz.	0			0	0	clear	E. A. Beals.
Knoxville, Tennessee	29.01	736.8	30.03	762.7	60.3	15.7	64	ne.	1	0.4		0	0			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.04	737.6	29.80	756.9	57.4	14.1	60	s.	4	1.8			10 s			0.02	0.5	cloudy	S. C. Emery.
La Mesilla, New Mexico	26.00	660.4	29.76	755.9	59.5	15.3	45	calm	0	0		3 ck	2 s	w.		0	0	fair	N. D. Lane.
Leavenworth, Kansas	28.94	735.1	29.82	757.4	61	16.1	84	s.	6	2.7			10 ks		w.	0	0	cloudy	A. W. Browne.
Lewiston, Idaho	29.31	744.5	30.15	765.8	49.8	9.9	77	calm	0	0		0	0			0	0	clear	J. M. Burlew.
Little Rock, Arkansas	29.65	753.1	29.96	761.0	62	16.7	93	ne.	1	0.4		0	fg.			0	0	clear	W. U. Simmons.
Los Angeles, California	29.54	750.3	29.94	760.5	53.2	11.8	72	s.	4	1.8			10 s		calm	0	0	cloudy	E. F. Kubel.
Louisville, Kentucky	29.45	748.0	30.00	762.0	59	15.0	70	ne.	3	1.3		0	sk.			0	0	clear	H. C. Smyth.
Lynchburg, Virginia	29.41	747.0	30.09	764.3	61.0	16.1	60	n.	1	0.4		0	0			inap.	inap.	clear	W. R. Bushby.
Madison, Wisconsin	28.91	734.3	29.91	759.7	53	11.7	77	s.	5	2.2		6 cs	0	w.		0	0	fair	C. A. Shaw.
Marquette, Michigan	29.11	739.4	29.83	757.7	49	9.4	63	nw.	4	1.8			10 s		calm	0	0	cloudy	J. Gilligan.
Memphis, Tennessee	29.66	753.4	29.99	761.7	66	18.9	78	n.	3	1.3		0	0			0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.18	741.2	29.92	760.0	56	13.3	57	s.	6	2.7		9 c	0			0	0	cloudy	W. Line.
Mobile, Alabama	29.95	760.7	29.99	761.7	72.4	22.4	84	n.	4	1.8		1 c	0	nw.		0.25	6.3	clear	J. D. Paxton.

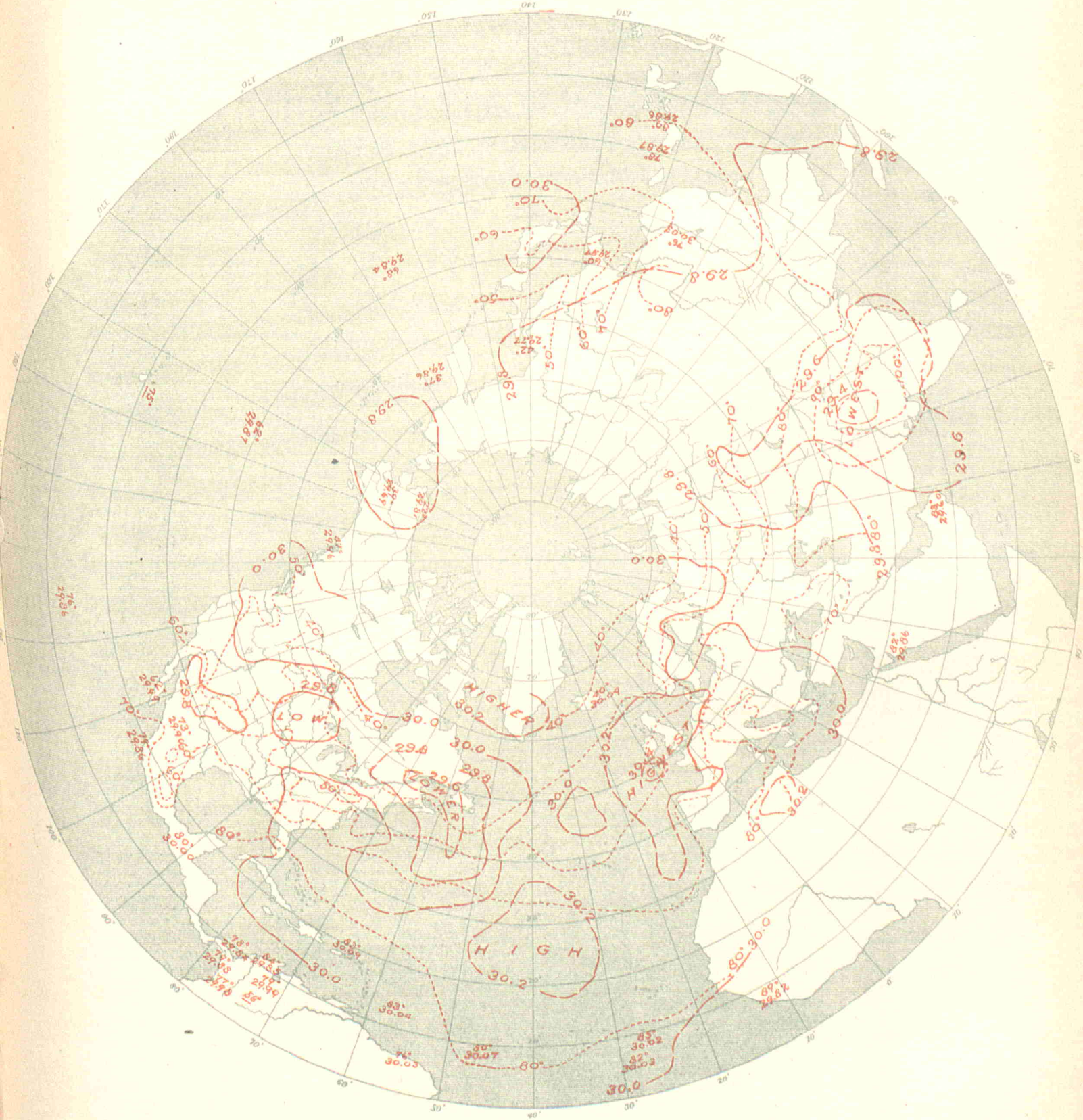
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Montgomery, Alabama	29.79	756.1	30.00	762.0	69	20.6	76	ne.	2	0.9		2 k	3 k	w.	w.	inap.	inap.	fair	J. B. McLaughlin.
Moorhead, Minnesota	28.64	727.4	29.62	752.3	55	12.8	93	ne.	5	2.2			10 n		ne.	0.45	11.4	light rain	H. Bessant.
Morgantown, W. Virginia	29.08	738.6	30.09	764.3	50.0	10.0	86	calm	0	0		hz.	0			0	0	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.58	598.9	29.76	755.9	24.0	— 4.4	90	nw	52	23.2		0	18;sk		nw.	0.20	5.1	clear	J. G. Linsley
Nashville, Tennessee	29.48	748.8	30.02	762.5	57.5	14.2	80	n.	2	0.9		0	fg.			0	0	clear	L. A. Jesunofsky.
New Haven, Connecticut	29.91	759.7	30.03	762.7	57.5	14.2	54	nw.	4	1.8		0	0			0	0	clear	J. H. Sherman.
New London, Connecticut	29.95	760.7	30.00	762.0	63	17.2	42	n.	5	2.2		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.90	759.4	29.95	760.7	75.2	24.0	74	se.	3	1.3		0	sk.			0	0	clear	L. Dunne.
Newport, Rhode Island	29.95	760.7	30.00	762.0	59.0	15.0	56	nw.	1	0.4		0	0			0.01	0.3	clear	W. McGillivray.
New River, N. Carolina					68	20.0	66	ne.			1	0	0			0	0	clear	C. C. Corbin.
New Shoreham, Rhode I'd.	29.99	761.7	30.02	762.5	54.8	12.7	62	nw.	7	3.1		0	0			0	0	clear	W. Davis.
New York, New York	29.88	758.9	30.06	763.5	56	13.3	74	w.	2	0.9		0	0			0	0	clear	E. B. Garriott.
Norfolk, Virginia	30.04	763.0	30.07	763.8	68	20.0	70	ne.	6	2.7		0	0			0	0	clear	J. T. Eiker.
North Platte, Nebraska	26.93	684.0	29.80	756.9	52.1	11.2	86	w.	12	5.4		2 cs	2 s			0.02	0.5	fair	E. F. Brady.
Olympia, Washington T'y	30.14	765.5	30.18	766.6	47.0	8.3	93	n.	1	0.4		6 cs	0	calm		0	0	fair	J. Dascomb.
Omaha, Nebraska	28.60	726.4	29.76	755.9	61.0	16.1	87	s.	10	4.5		3 cs	4 ks	sw.	sw.	0.28	7.1	fair	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	29.79	756.7	29.81	757.2	21.8	— 5.7	100	e.	16	7.2			10 s			0.01	0.3	cloudy	P. H. Ray.
Oswego, New York	29.64	752.8	29.97	761.2	52.0	11.1	61	sw.	8	3.6		0	0			0	0	clear	S. W. Beall.
Palestine, Texas	29.41	747.0	29.96	761.0	68.5	20.3	84	n.	5	2.2		0	0			0	0	clear	L. M. Pindell.
Pensacola, Florida	29.95	760.7	29.98	761.5	74.3	23.5	94	e.	2	0.9		0	0			0.02	0.5	clear	M. McGauran.
Philadelphia, Pa.	29.99	761.7	30.09	764.3	60.5	15.8	55	nw.	4	1.8		0	0			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.74	450.6	29.80	756.9	15.5	— 9.2	100	nw.	8	3.6			fg.			0.05	1.3	dense fog.	L. M. Dey.
Ploche, Nevada	24.06	611.1	29.98	761.5	47	8.3	42	nw.	7	3.1		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.26	743.2	30.06	763.5	46.7	8.2	86	n.	1	0.4		0	fg.			0	0	clear	J. H. Bryce.
Poplar River, Montana	27.87	707.9						s.			1	0	0			0.02	0.5	clear	U. D. Maxwell.
Port Eads, Louisiana	29.98	761.5	29.99	761.7	76.1	24.5	90	sw.	2	0.9		0	0			0	0	clear	H. G. Christian.
Port Huron, Michigan	29.29	744.0	29.97	761.2	55.0	12.8	76	sw.	8	3.6		0	hz.			0	0	clear	W. O. Bailey.
Portland, Maine	29.84	757.9	29.89	759.2	56.0	13.3	51	w.	10	4.5		8 c	0	w.		0.04	1.0	cloudy	D. C. Murphy.
Portland, Oregon	30.09	764.3	30.16	766.1	54.8	12.7	80	calm	0	0		0	0			0	0	clear	M. L. Hearne.
Portsmouth, N. Carolina					69	20.6	70	ne.	11	4.9		0	3 k		ne.	0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.76	628.9	29.86	758.4	51	10.6	69	s.	2	0.9		0	0			0	0	clear	J. Mc N. Wright.
Provincetown, Mass.	29.93	760.2	29.96	761.0	55	12.8	57	nw.	8	3.6		0	0			0.01	0.3	clear	P. T. Jenkins.
Punta Rassa, Florida	29.98	761.5	29.99	761.7	84	28.9	77	sw.	9	4.0		8 ck	1 ks	w.	sw.	0	0	cloudy	W. J. Evans.
Red Bluff, California	29.50	749.3	29.87	758.7	72.3	22.4	35	n.	3	1.3		0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.61	752.1	29.85	758.2	78	25.6	82	se.	8	3.6			10 s		se.	0	0	cloudy	P. M. Wilson.
Rochester, New York	29.29	744.0	29.95	760.7	51	10.6	66	sw.	15	6.7		6 c	hz.			0	0	fair	F. Gillam.
Roseburg, Oregon	29.58	751.3	30.13	765.3	49	9.4	77	calm	0	0		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	29.72	754.9	29.80	756.9	68.0	20.0	55	n.	7	3.1		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.40	746.7	29.99	761.7	57.9	14.4	90	s.	6	2.7		4 ck	5 s; hz	sw.		0	0	cloudy	J. H. Webber.
St. Paul, Minnesota	28.82	732.0	29.66	753.4	55.0	12.8	93	s.	15	6.7			10 s		s.	0.42	10.7	cloudy	P. F. Lyons.
St. Vincent, Minnesota	28.88	733.5	29.74	755.4	53	11.7	93	n.	7	3.1			10 n		calm	0.12	3.0	light rain	G. Kingsbury.
Salt Lake City, Utah	25.68	652.3	30.00	762.0	47	8.3	52	calm	0	0		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.20	741.7	29.90	759.4	70	21.1	94	ne.	3	1.3			10s; fg		calm	inap.	inap.	cloudy	E. Lane.
San Diego, California	29.81	757.2	29.88	758.9	59.6	15.3	91	sw.	1	0.4			10 n		w.	0.01	0.3	light rain	A. C. Dobbins.
Sandusky, Ohio	29.33	745.0	30.00	762.0	54	12.2	61	s.	12	5.4		0	0			0	0	clear	M. H. Perry.
Sandy Hook, New Jersey	30.02	762.5	30.06	763.5	56.5	13.6	80	nw.	3	1.3		0	0			inap.	inap.	clear	B. A. Blundon.
San Francisco, California	29.77	756.1	29.84	757.9	54	12.2	90	calm	0	0		0	fg.		sw.	0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.18	588.8	29.79	756.7	43	6.1	74	ne.	9	4.0		9 c	0	sw.		0.01	0.3	cloudy	H. U. Jones.
Savannah, Georgia	29.91	759.7	30.00	762.0	77	25.0	74	n.	2	0.9		0	0			0.22	5.6	clear	H. W. Ford.
Shreveport, Louisiana	29.72	754.9	29.96	761.0	66	18.9	90	n.	3	1.3		1 c	hz.			0	0	clear	E. N. Meekins.
Silver City, New Mexico	24.22	615.2	29.77	756.1	46	7.8	58	w.	1	0.4		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	29.90	759.4	29.96	761.0	47.1	8.4	83	calm	0	0			fg.		calm	0.05	1.3	dense fog	J. J. McLean.
Smithville, North Carolina	30.02	762.5	30.06	763.5	70	21.1	53	e.	12	5.4		3 k	0	nw.		0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.08	713.2	30.14	765.5	49.5	9.7	82	ne.	1	0.4		3 ck	0			0	0	clear	D. Moore.
Springfield, Illinois	29.30	744.2	29.96	761.0	56.5	13.6	77	s.	7	3.1		7 cs	hz.	w.		0	0	fair	T. B. Jennings.
Springfield, Massachusetts	29.89	759.2	30.02	762.5	58.8	14.9	48	s.	2	0.9		0	0			0	0	clear	T. S. Outram.
Springfield, Mo.	28.51	724.1	29.99	761.7	57	13.9	86	se.	8	3.6		10 cs	0	w.		0	0	cloudy	J. B. Marbury.
Starkville, Miss.	29.57	751.1			68	20.0	78	n.	4	1.8		2 c	0			0	0	clear	M. J. Wright.
Stockton, Texas	26.83	681.5	29.84	757.9	65.0	18.3	100	se.	20	8.9		0	0			0.03	0.8	clear	J. O'Dowd.
Thatcher's Island, Mass.	29.89	759.2	29.94	760.5	55.0	12.8	58	nw.	13	5.8		0	0			0.05	1.3	clear	F. R. Day.
Toledo, Ohio	29.31	744.5	29.99	761.7	57	13.9	64	w.	9	4.0		0	0			0	0	clear	A. Buell.
Tucson, Arizona	27.47	697.7	29.81	757.2	62	16.7	43	se.	4	1.8		1 c	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.77	756.1	30.14	765.5	52	11.1	52	e.	2	0.9		5 c	1 s			0	0	fair	J. Daly.
Uvalde, Texas	28.90	734.0	29.85	758.2	73	22.8	90	se.	8	3.6			10 s		se.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.74	755.4	29.99	761.7	67	19.4	81	e.	2	0.9		0	0			0	0	clear	H. T. Brisbane.
Visalia, California	29.42	747.3	29.79	756.7	61	16.1	72	calm	0	0		0	0			0	0	clear	W. L. Seward.
Washington, D. C.	30.01	762.2	30.12	765.0	57.5	14.2	67	calm	0	0		0	hz.			0	0	clear	B. M. Purssell.
West Las Animas, Colorado	26.02	660.9	29.88	758.9	51.5	10.8	79	n.	4	1.8			10 s		n.	0.20	5.1	threatening	J. Grover.
Williamsport, Pa.	29.46	748.3	30.06	763.5	48	8.9	71	w.	3	1.3		hz.	0			0	0	clear	B. F. Hough.
Wilmington, N. Carolina	30.00	762.0	30.05	753.3	70	21.1	66	e.	6	2.7		0	0			0	0	clear	A. T. Sherwood.
Winnemucca, Nevada	25.71	653.0	30.06	763.5	46	7.8	49	n.	10	4.5		0	0			0	0	clear	J. R. Williams.
Yankton, Dakota	28.40	721.3	29.68	753.9	58	14.4	75	nw.	6	2.7		5 ck	0			0	0	fair	J. H. Atfield.
Yuma, Arizona	29.63	752.6	29.78	756.4	68.6	20.3	64	se.	2	0.9		0	1 s		se.	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8			56.0	13.3	80	e.	1	0.4			10 s			0.01	0.3	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.04	763.0	30.04	763.0	83	28.3	91	e.				5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.95	760.7	29.98	761.5	77	25.0	90	calm	0	0			10 n		calm	0.15	3.8	raining	J. I. Plume.
Havana, Cuba, W. I.	29.98	761.5	30.03	762.7	82	27.8	82	s.	1.2	0.5		8 cs	2 ks	calm	calm	inap.	inap.	cloudy	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.04	763.0	30.05	763.3	82.0	27.8	68	calm	0	0		0	1 ks		e.	0	0	fine	Robert Johnston.
Magua, San Domingo, W. I.					73	22.8		calm			0	2 cs	0	n.		0.83	21.1		S. M. Pike.
Navassa, W. I.																			F. M. Everett.
Paramaribo, S. A.	30.03	762.7	30.03	762.7	76	24.4	91	se.			3		8 ps	e.		0.080	2.0	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.53	750.0	29.99	761.7	79	26.1	85	calm			0		10 s		calm	0.04	1.0	foggy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							94	e.			1	cs	1 ks		e.	0.40	10.2	clear	Earl Flint.
Santiago de Cuba, W. I.	30.02	762.5	30.04	763.0	79	26.1	82	calm	0	0		1 c	0			0	0	fair	Robert Mason.
York Factory, B. A.	30.13	765.3	30.18	766.6	30.0	— 1.1	95	ne.	8	3.6		3 k	2 s	ne.	ne.	0	0	fair	W. Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S Alert, S. 27° 49′, E. 40° 06′	29.87	758.7	73.5	23.1	78	wsw.			4		3							d. clouds.
H. M. S. Alexandra, Suda Bay, Turkey in Europe	30.05	763.3	75	23.9	59	nnw.			1		3							blue sky.
H. M. S. Amethyst, N. 5° 07′ W. 28° 40′	29.95	760.7	80	26.7	98	ese.			4		2	e.				2	ese.	squally.
H. M. S. S. S. Champion, N. 20° 45′ W. 155° 00′			75	23.9	95	e.			4		4					2	e.	d. clouds.
H. M. S. Comus, N. 14° 12′ E. 112° 50′	29.79	756.7	82.5	28.1	?	e.			1		8	e.				4	con.	d. clouds.
H. M. S. Diamond, S. 26° 13′, E. 161° 08′	30.00	762.0	69.5	20.8	79	ne.			2–3		9	w.				1	ne	d. clouds.
H. M. S. Dido, N. 13° 05′, W. 59° 30′	30.06	763.5	81	27.2		ene.			3–5		5	e.						squally.
H. M. Dock Yard, Bermuda, W. I.	29.90	759.4	72.5	22.5	88	ssw.			2–3		7	ssw.						d. clouds.
H. M. S. Druid, N. 19° 19′, W. 81° 25′	30.02	762.5	81.5	27.5	82	se.			2–3		5	se.				2	s.	d. clouds.
H. M. S. Dwarf, S. 26° 53′, W. 58° 16′	29.69	754.1	64.5	18.1	94	calm			0		10							overcast.
H M. S. Eclipse, S 19° 48′, E. 40° 30′	29.98	761.5	79	26.1		var.					2					1	ssw.	d. clouds.
H. M. S. Emerald, S. 53° 20′, W. 106° 20′	29.08	738.6	46	7.8	100	n.			6							5	nnw.	overcast.
H. M. S. Euryalus, Bombay, India	29.64	752.8	86	30.0	83	wsw.			2		1	calm						blue sky.
H. M. S Fantome, Cartagena, Granadian Conf. S. A.	29.85	758.2	84	28.9		calm			0		1	calm						blue sky.
H. M. S. Flying Fish, N. 37° 48′, E. 124° 40′.	29.97	761.2	60	15.6	88	se.			1		4							misty.
H. M. S. Fawn, S. 11° 05′, E. 62° 10′	29.81	757.2	76.5	24.7	86	ene.			3		8	e.				4	ene.	showery.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.04	763.0	53.5	11.9	93	se.			2		10							misty.
H. M. S. Inconstant, Saint Helena Island, Africa	30.15	765.8	70	21.1	79	calm			0		7	ese.						d. clouds.
H. M. S. Iron Duke, N. 32° 50′, E. 133° 53′	30.02	762.5	72	22.2	95	e.			1–2		8							d. clouds.
H. M. S. Kingfisher, Taboga Island, Pearl Islands, C.A	29.88	758.9	79	26.1		calm			0		6	calm						d. clouds.
H. M. S. Lark, S. 9° 15′, E. 157° 21′	29.93	760.2	83.3	28.5		ese.			3		5					4	se.	d. clouds.
H. M. S. Magpie, N. 35° 26′, E. 139° 33′	30.07	763.8	64.6	18.1	83	sw.			1		3	w.						d. clouds.
H. M. S. Northampton, Halifax, Nova Scotia	29.65	753.1	53.5	11.9	65	nw.			3		0							blue sky.
H. M. S. Orontes, N. 27° 50′, W. 46° 27′	30.27	768.8	74.5	23.6	92	se.			2		1					1	ene.	blue sky.
H M. S. Pegasus, N. 2° 44′, E. 104° 08′	29.81	757.2	83.5	28.6	85	sse.			1		6	s				1	s.	d. clouds.
H. M. S. Phœnix, N. 18° 25′, W. 77° 08′	30.01	762.2	81	27.2	87	calm			0		0					1	e.	blue sky.
H. M. S. Rambler, Loango, Lower Guinea	29.96	761.0	76	24.4	100	sse.			2		10					1	ssw.	d. clouds.
H. M. S. Rocket, N. 48° 27′ W. 123° 27′	30.17	766.3	51	10.6	93	calm			0		2							d. clouds.
H. M. S. Sylvia, N. 3° 44′, W. 25° 26′	30.01	762.2	79.9	26.6	74	se.			3		5	sse.				2	ese.	d. clouds.
H. M. S. Swiftsure, N. 35° 20′. W. 14° 39′	30.26	768.6	63	17.2	78	calm			0		2	wsw.				1	wsw.	d. clouds.
H. M. S. Tenedos, N. 47° 34′ W. 52° 41′	29.81	757.2	41	5.0	91	e.			2		10							misty.
H. M. S. Triumph, Coquimbo, Chili	30.03	762.7	53	11.7	93	ene.			1		10	calm						foggy.
H. M. S. Woodlark, Ras Gomelet, Arabia	29.50	749.3	82.5	28.1	70	s.			6		2	s.				5	s.	misty.
PORTUGUESE NAVAL.																		
Rio Lima, Porto Praya, Cape Verd Island	30.11	764.9	75.4	24.1	99	sw.			1		4					1		misty.
Tamega, Macao, China	29.87	758.8	77.9	25.5	72	e.			3		3		ssw.					d. clouds.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	29.96	761.0	74	23.3	90	ne.	3	1.3			5		ne.	0	0			fair.
Navy Yard, Portsmouth, N. H	29.92	760.0	55	12.8	66	nw.	7	3.1			0			0	0			clear.
Naval Hospital, Yokohama, Japan	30.01	762.2	62	16.7	83	s.			3		5		sw.	0	0			clearing.
Adams, Mare Island, Cal	29.61	752.1	60	15.6	88	sw.			1		0					sm'h		clear.
Alaska, Callao, Peru	29.95	760.7	60	15.6	94	calm			0		10			0	0	sm'h		cloudy.
Alert, Kobe, Japan*	29.90	759.4	68	20.0	70	nw.			1		8		calm	0	0	sm'h		cloudy.
Alliance, N. 36° 58′ W. 75° 41′	30.09	764.3	60	15.6	76	nnw.			1		0			0	0			clear.
Ashuelot, Kobe, Japan	30.00	762.0	67	19.4	79	w.			1		5		w.					hazy.
Brooklyn, S. 25° 06′, W. 44° 55′	30.09	764.3	73	22.8	81	ne.	12	5.4			8		ne.	0	0	mod.		fair.
Colorado, New York, N. Y.	30.00	762.0	59	15.0	69	nw.	2	0.9			0			0	0			clear.
Essex, Montevideo, Uruguay.	29.92	760 0	57	13.9	69	sw.			3		2		sw.			mod.		fair.
Franklin, Norfolk, Va	30.07	763.8	65	18.3	78	n.	4	1.8			0			0	0			clear.
Galena, Gibraltar, Meditteranean	30.09	764.3	69	20.6	95	se.			2		8		se.			sm'h		fair
Independence, Mare Island, Cal	29.69	754.1	59	15.0	88	sw.			2		0			0	0			clear.
Iroquois, San Francisco, Cal	29.82	757.4	57	13.9	81	sw.			1		2							clear.
Kearsage, N. 36° 55′ W. 75° 42′	30.08	764.0	61	16.1	82	ne.			3		0					sm'h		clear.
Lackawanna, Panama, Panama*	29.84	757.9	78	25.6	91	nw.			1		10		nw.	0	0			cloudy.
Lancaster, Lisbon, Portugal*	30.02	762.5	75	23.9	86	wnw.			3		2		wnw.	0	0			fair.
Marion, S. 34° 54′, W. 56° 13′	29.81	757.2	58	14.4	100	w.			3–4		8		w.			sm'h		cloudy.
Michigan, Erie, Pa	29.92	760.0	56	13.3	100	s.			2		0							clear.
Minnesota, Newport, R. I.	30.00	762.0	57	13.9	63	calm	0	0			0							clear.
Monocacy, Nagasaki, Japan	29.96	761.0	69	20.6	95	calm			0		10		calm					raining.
New Hampshire, Newport, R. I.	29.98	761.5	67	19.4	84	nw.			1		0					sm'h		foggy.
Nipsic, Gibralter, Meditterranean	30.08	764.0	72	22.2	58	e.			3		8					sm'h		cloudy.
Onward. Callao, Peru†	30.11	764.8	60	15.6	100	sse.			1		10		n.			long	w.	cloudy.
Palos, Kobe, Japan	30.04	763.0	64	17.8	78	w.			1		8		w.					fair.
Passaic, Washington, D. C.	30.12	765.0	59	15.0	100	calm			0		0							clear.
Pensacola, S. 11° 42′ W. 78° 16′	30.01	762.2	64	17.8	89	se.			3		10		se.	0	0	mod.	se.	overcast.
Portsmouth, Portsmouth, Eng*†	30.46	773.7	65	18.3	100	nne.			3		10					sm'h		cloudy.
Powhatan, Norfolk, Va	30.06	763.5	65	18.3	100	ne.			1		0							clear.
Quinnebaug, Palmas, Canary Island	30.12	765.0	71	21.7	78	nne.			1		5?		calm			long	e.	clear?
Ranger, Pichilinque, Mexico*	29.82	757.4	64	17.8	78	wsw.			4		2		calm	0	0	sm'h		clear.
Richmond, Kobe, Japan*	29.95	760.7	68	20.0	74	nnw.			1		0			0	0			clear.
Saratoga, Cowes, Eng	30.24	768.1	65	18.3	73	ne.			3–5		8		ne.	0	0	sm'h		fair.
St. Louis, League Island, Pa	30.29	769.4	56	13.3	63	n.	1	0.4			0			0	0			clear.
Swatara, Shanghai, China*	29.78	756.4	68	20.0	70	ese.			1		0					sm'h		clear.
Tennessee, N. 36° 57′, W. 75° 55′	30.12	765.0	68	20.0	54	nne.	6	2.7			0					sm'h		clear.
Vandalia, Hampton Roads, Va*†	30.26	768.6	64	17.8	73	ene.			2		0							clear.
Wabash, Boston, Mass	29.96	761.0	57	13.9	75	w.	4	1.8			0			0	0			clear.
Wachusetts, Fort Wrangle, Alaska	29.92	760.0	45	7.2	100	e.			1		10					sm'h		rainy.
Wyoming, Port Royal, S. C.	30.00	762.0	71	21.7	90	ne.	6	2.7			10		e.	0.01	0.3			overcast
Yantic, N. 36° 58′, W. 75° 45′*	30.03	762.7	62	16.7	77	ne.			1		0					sm'h		clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 46° 36′, W. 57° 15′*	29.50	749.3	42	5.6	100	e.			3		10		se.	2 h'r	2 h'r	2	e.	raining.
S. S. Prussian, Baltimore, Md.*	29.91	759.7	64	17.8		var.			1		0			0	0			clear.
S. S. Scandinavian, N. 50° 29′, W. 27° 39′*	29.84	757.9	54	12.2		se.			4		2		s.	12 h'r	12 h'r	cross	se.	d. clouds.
S. S. Waldensian, N. 48° 44′, W. 35° 15′*	30.14	765.5	52	11.1		nnw.			6		10		nnw.	0	0	h'vy	nne.	overcast.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, Off Ballycottin, Ireland	30.35	770.9	62	16.7	88	wsw.			2		2		w.			sm'h	w.	clear.
S. S. Indiana, Philadelphia, Pa.†	30.16	766.1	74	23.3	90	sw.			2		5		sw.	0	0			fair.
S. S. Lord Clive, Off Brow Head, Wales*	30.18	766.6				w.			2		2		w.	mist	mist			fine.
S. S. Ohio, Liverpool, Eng.†	29.33	745.0	63	17.2	94	calm			0		0							clear.
ANCHOR LINE.																		
S. S. Devonia, N. 52° 08′, W. 26° 45′†	30.05	763.3	56	13.3		sse.			4		10		ssw.			mod.	s.	hazy.
S. S. India, N. 26° 17′, E. 34° 53′*	29.76	755.9	82	27.8	95	nnw.			2		0					mod.	n.	clear.
S. S. Utopia, Valencia, Spain†	30.27	768.8	74	23.3	63	e.			2		3		ese.	0	0			clear.
ATLAS LINE.																		
S. S. Alisa, N. 37° 22′, W. 73° 56′†	29.97	761.2	55	12.8	?	var.			1		5		se.	0	0	sm'h		fair.
S. S. Alvena, N. 27° 18′, W. 74° 01′†	29.94	760.5	78	25.6		sw.			2		8		sw.	0	0	sm'h		overcast.
S. S. Alvo, Cartegena, U. S. C.	29.90	759.4	108?	42.2?		var.			2		0			0	0			
S. S. Athos, N. 30° 54′, W. 74° 24′	29.79?	756.7?				ene.			1		3		ne.	1 h'r	1 h'r		ne.	clear.
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, N. 42° 26′. W. 63° 33′						nw.			3				nnw.	0	0			clear.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 39° 40′, E. 28° 04′	30.17	766.3	57.5	14.2	84	s.			6		9							drizzling.
British Merchant, S. 11° 03′ W. 10° 49′	30.08	764.0	77.5	25.3	69	e.			4		2							d. clouds.
S. S. Cipero, N. 49° 15′, W. 12° 01′	30.42	772.7	59.8	15.4	76	s.			2		6							d. clouds.
Bk. Commewyne, N. 21° 00′, W. 31° 59′	30.20	767.1	75.9	24.4	72	ne.			4		10							d. clouds.
Bk. Coppename, N. 8° 25′, W. 49° 10′	29.97	761.2	79.7	26.5	78	ene.			5		4							blue sky.
Glencairn, S. 33° 47′, E. 16° 00′	29.96	761.0	61	16.1	94	nne.			4–5		10							d. clouds.
S. S. Gordon Castle, N. 28° 18′, E. 123° 06′	29.89	759.2	65.5	18.6	84	ne.			4		10							drizzling.
Bkt. Hope, N. 40° 40′, W. 33° 21′	30.09	764.3	58	14.4	76	nnw.			6		4							squally.
May Hulse, S. 42° 42′, W. 83° 46′	29.70	754.4	51	10.6	78	wsw.			8		10							raining.
Minho, Buenos Ayres, S. A.	29.90	759.4	54.8	12.7	79	w.			3		5							d. clouds.
CROMWELL LINE.																		
S. S. Hudson, N. 33° 05′, W. 78° 17′†	30.06	763.5	75	23.9		ene.			3		6		sw.	0	0	mod.	ne.	fair.
CUNARD LINE.																		
S. S. Gallia, N. 50° 04′, W. 24° 49′	30.04	763.0	58	14.4	?	s.			5		5		sw.	0	0	mod.	sw.	fair.
S. S. Scythia, N. 45° 53′, W. 36° 43′	29.94	760.5	58.5	14.7	90	wnw.			5		9		nnw.	0	0	short	n.	overcast.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. France, N. 48° 39′, W. 22° 37′†	30.15	765.7	55.4	13.0		sse.			5				se.	0	0	h'vy	w.	covered.
S. S. St. Germain, N. 43° 43′ W. 40° 03′	30.24	768.2	59.0	15.0		ne.			2				nw.	0	0		ne.	clear.
GUION LINE.																		
S. S. Arizona, N. 50° 03′ W. 27° 23′	29.92	760.0	56	13.3		se.			4		5		ssw.	0	0	long	w.	
S. S. Wisconsin, N. 48° 15′, W. 29° 40′*†	29.89	759.2	56	13.3		se.			5		10		sse.	4 h'r	4 h'r	mod.	s.	cloudy.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, Hamburg, Germany*†	30.24	768.1				nnw.			3		2		n.	0	0			fine.
S. S. Lessing, N. 41° 37′, W. 44° 11′	30.16	766.0	65	18.3		ssw.			4		8		ssw.	0	0	sm'h	sw.	cloudy.
S. S. Silesia, N. 42° 53′, W. 49° 05††	29.86	758.4	46	7.8		sse.			6		10		s.	0	0	5	s.	foggy.
INMAN LINE.																		
S. S. City of New York, N. 42° 56′, W. 45° 46′	30.16	766.1				s.			6		8		s.	0	0	cross	sse.	cloudy.
JOHNSTON LINE.																		
S. S. Thanemore, N. 39° 50′, W. 58° 21′	29.77	756.1	67	19.4		nnw.			2		10		n.	1 h'r	1 h'r	long	se.	overcast.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, N. 21° —′, W. 25° —′*†	30.30	769.6	76	24.4		ne.			3		5?		ne.	0	0	sm'h		clear?
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 20° 10′, W. 68° 10′†	30.12	765.0	85	29.4	96	e.			4		0			0	0	sm'h		clear.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, N. 25° 13′. W. 61° 49′	29.80	756.9				sw.			6				sw	0	0	mod.	se.	clear.
S. S. Glenapp, Rio de Janeiro Brazil*†	30.00	762.0				var.			2		8		s.	0	0			hazy.
NATIONAL LINE.																		
S. S. Canada, N. 41° 09′, W. 44° 59′	30.18	766.6	64	17.8		s.			2		4		s.	0	0	long	ne.	fine.
S. S. Denmark, N. 40° 56′, W. 69° 56′	30.06	763.5	53	11.7		sw.			3		0			1 h'r	1 h'r			clear.
S. S. England, N 45° 16′, W. 37°, 44′	30.13	765.3				n.			6		8		n.	0	0	r'gh	n.	cloudy.
S. S. Erin, N. 53° 30′ W. 4° 10′	30.37	771.4	63	17.2		nnw.			1		0			0	0	sm'h		hazy.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, N. 19° 57′, W. 78° 05′†	30.12	765.0	83	28.3		ene.			1		1		ne.	0	0		ese.	hazy.
S. S. Saratoga, N. 28° 12′, W. 79° 02′†	30.20	767.1	79	26.1	90	sw.			3		8		w.	0	0	sm'h		cloudy.
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, New York, N. Y *†	30.11	764.8	57	13.9	75	nw.			3		2		wnw.	0	0			d. clouds.
S. S. City of Puebla, Progreso Roads, C. A.†	29.83	757.7	80	26.7		se.			2		10		se.			light	e.	
S. S. City of Washington, Havana, Cuba, W. I.*†	30.12	765.0	85	29.4		ne.			1		1		ne.	0	0	sm'h		clear.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Lepanto, N. 43° 50′, W. 43° 35′*	30.16	766.1	60	15.6		s.			5								n.	overcast.
S. S. P. Caland, N. 49° 42′, W. 10° 52′	30.37	771.4	57.2	14.0		e.			4							2	se.	cloudy.
NORTH GERMAN LLOYD.																		
S. S. Elbe, N. 48° 12′, W. 28° 10′	29.82	757.4	58.1	14.5	94	se.			4		5		se.	0	0	long	se	hazy.
S. S. Graf Bismarck, N. 8° 26′, W. 27° 15′	30.02	762.5	75.2	24.0		var.			2		9		var.	4 h'r	4 h'r		ne.	overcast.
S. S. Habsburg, N. 41° 04′, W. 66° 20′	29.93	760.2	46.4	8.0		n.			3		0			2 h'r	2 h'r	mod.	n.	clear.
S. S. Hermann, N. 37° 00′, W. 75° 46′†	29.91	759.7	54.5	12.5		calm			0		0			0	0	sm'h		fine.
S. S. Hohenzollern, N. 40° 21′, W. 50° 38′*	29.64	752.8	59.0	15.0		s.			6		8		s.	rain	rain	mod.	s.	cloudy.
S. S. Leipzig, N. 49° 38′, W. 8° 44′	30.41	772.4	57.0	13.9	93	ne.			3		2		ne.	0	0	sm'h		clear.
S. S. Main, Southampton, England	30.28	769.1	59.0	15.0		n.			3		5?		n.	0	0			covered?
S. S. Mosel, N. 42° 44′, W. 48° 38′	29.98	761.5	55	12.8		s.			5		7		sse.	0	0	mod.	s.	cloudy.
S. S. Neckar, N. 49° 37′, W. 7° 30′	30.39	771.9	57.2	14.0		ese.			3		1		ese.	0	0	sm'h	ne.	fine.
S. S. Ohio, N. 40° 33′, W. 69° 53′	30.04	763.0				nw.			3		0			0	0	sm'h	nw.	clear.
S. S. Rhein, N. 40° 08′, W. 56° 04′	29.56	750.8				wnw.			5		8		w.	12 h'r	12 h'r	r'gh	nw.	cloudy.
S. S. Salier, N. 53° 33′, E. 8° 34′	30.33	770.4	58.1	14.5		nw.			2		5		nw.	0	0	sm'h	nw.	cloudy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 36° 59′, W. 158° 39′*†	29.87	758.7	62	16.7	94	wnw.			6		8		wnw.	shr's	shr's	high	w.	showery.
S. S. Belgic, Hong Kong, China†	29.96	761.0	75	23.9	85	s.			2		2		sw.	0	0	sm'h		clear.
S. S. Gaelic, N. 24° 29′, E. 119° 04′†	29.92	760.0	75	23.9	76	ne.			3		1		ne.			sm'h	ne.	clear.
S. S. Oceanic, San Francisco, Cal.*	29.87	758.7	56	13.3	93	w.			4		3		w.					fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y.†	30.01	762.2				nw.			1		0							clear.
S. S. City of Columbus, Brooklyn, N. Y.†	29.98	761.5				w.			4		0			0	0			clear.
S. S. Seminole, Savannah, Ga.†	30.02	762.5	80	26.7	74	calm			0		0			0	0			clear.
OREGON IMPROVEMENT COMPANY.																		
S. S. Willamette, Admiralty Sound, Wash. Ter.†	30.25	768.3	53	11.7	86	calm			0		8		nw.	0	0	sm'h		hazy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, N. 37° 48′, W. 122° 21′†	30.03	762.7	54	12.2	86	nw.			1		0							hazy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 34° 28′, W. 120° 30′†	29.84	757.9	55	12.8	93	e.			3		10		e.			light	w.	cloudy.
S. S. State of California, Portland, Oregon†	30.17	766.3	50	10.0	86	calm			0		0							clear.
S. S. Victoria, N. 42° 36′, W. 124° 52′†	30.02	762.5	54	12.2	93	nw.			4					0	0	light	nw.	
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. City of New York, S. 7° 20′, W. 168° —′†	29.93	760.2	86	30.0	90	ne.			4		1		ne.	0	0	mod.	ne.	clear.
S. S. City of Pekin, N. 35° 35′, E. 104° 01′†	29.84	757.9	68	20.0	79	s.			6		5		sw.			mod.	sw.	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
PACIFIC MAIL STEAMSHIP COMPANY.—Continued.																		
S. S. City of Rio de Janeiro, N. 19° 05′, W. 104° 49′ *†	30.06	763.5	79	26.1	86	ne.			2		10		ne.	0	0	mod.	w.	fair.
S. S. City of Sydney, S. 34° 14′, W. 171° 57′†	30.02	762.5	58	14.4	76	wsw.			3		5		ne.	0	0	mod.	sw.	cloudy.
S. S. City of Tokio, N. 32° 32′, E. 134° 28′†	30.08	764.0	71	21.7	75	se.			3		8		sse.	0	0	small	se.	fine.
S. S. Clyde, N. 23° 29′, W. 111° 01′†	29.99	761.7	62	16.7	74	n.			2		2		nw.	0	0	mod.	nw.	clear.
S. S. Colima, Panama, Panamat	29.87	758.7	78	25.6	91	wnw.			3		10		nw.	0.20	5.1			cloudy.
S. S. South Carolina, San Jose, Guatemala†	30.00	762.0	80	26.7	82	ene.			3		8		ese.	0	0	light	wsw.	fair.
S. S. Zelandia, Sydney, N. S. W.	29.43	747.5	53	11.7	80	w.			2		2		nw.					clear.
QUEBEC STEAMSHIP COMPANY.																		
S. S. Muriel, Trinidad, W. I.	29.88	758.9	83	28.3		ene.			2		0			0	0	sm'h		clear.
S. S. Bermuda, N. 33° 14′, W. 68° 48′†	29.94	760.5	75	23.9		n.			6		9		n.	21 h'r	21 h'r	mod.	var.	threatening.
RED STAR LINE.																		
S. S. Belgenland, N. 48° 56′, W. 16° 35′†	30.46	773.7	56	13.3	87	sse.			4		8		ssw.	0	0	mod.	w.	overcast.
S. S. Nederland, N. 39° 52′, W. 58° 46′†	29.61	752.1	66	18.9		w.			3		10		w.	1 h'r	1 h'r	cross	sw.	showery.
S. S. Rhynland, N. 40° 48′ W. 61° 32′	29.76	755.9	61	16.1	77	nw.			6		3		nw.	0	0	long	nw.	clear.
S. S. Switzerland, N. 50° 26′ W. 2° 00′†	30.33	770.4				n.			2		8		n.	0	0	sm'h		fair.
S. S. Vaderland. Antwerp, Belgium	29.99	761.7	64	17.8	89	ene.			2		10			2 h'r	2 h'r			rainy.
S. S. Waesland, N. 49° 27′, W. 10° 50′	30.30	771.1	56	14.4		se.			3		0			0	0	sm'h	se.	clear.
ROTTERDAM LINE.																		
S. S. Schiedam, New York, N. Y.			56.8	13.8		sw.			4		6			0	0			clear.
S. S. W. A. Scholten, N. 41° 09′ W. 53° 39′	29.45	748.0	69.0	20.6	95	nw.			5		10		nw.	4 h'r	4 h'r	rg'h	nw.	foggy.
STATE LINE.																		
S. S. State of Florida, Glasgow, Scotland	30.18	766.6	54	12.2		w.			4		1		wsw.	shr's	sh'rs			fair.
S. S. State of Indiana, N. 43° 26′ W. 43° 48′†	29.79	756.7	56	13.3		s.			3		3		sw.	0	0	mod.	ene.	fine.
THINGVALLA LINE.																		
S. S. Thingvalla, Copenhagen, Denmark†	30.42	772.7	68.0	20.0		wnw.			2		2?		wnw.	0	0			covered.?
WHITE CROSS LINE.																		
S. S. Plantyn, N. 49° 00′, W. 26° 22′	29.96	761.0									3		sse.	0	0	2–5	sse.	blue sky.
WHITE STAR LINE.																		
S. S. Adriatic, Liverpool, Eng†	30.44	773.2	64	17.8	83	wnw.			1		2		ne.	0	0	sm'h		d. clouds.
S. S. Britannic, N. 46° 24′, W. 38° 00′†	30.06	763.5	49	9.4	93	n.			4		5		n.	0	0	sm'h		d. clouds.
S. S. Celtic, New York, N. Y†	30.07	763.8	60	15.6	76	n.			2		0			0	0	sm'h		fine.
S. S. Republic, N. 45° 07′, W. 40° 08′†	30.30	769.6	57	13.9	75	n.			3		3		n.	0	0	mod.	ne.	d. clouds.
WILSON LINE.																		
S. S. Otranto, N. 48° 55′, W. 17° 00′†	30.39	771.9	60	15.6		e.			4		10		e.			long	e.	cloudy.
MISCELLANEOUS.																		
Schr. Abbie Clifford, Orchilla Id., W. I*†	30.04	763.0	80	26.7		ese.			3		4		ese.	¼ h'r	¼ h'r			fine.
Sch. Addie Fuller, Newport News, Va†	30.15	765.8	60	15.6	77	e.			2	0	0			0	0			clear.
Bk. Adelaide, N. 19° 56′, W. 61° 28′*†	30.17	766.3	84	28.9		e.			4		0			0	0	sm'h	e.	hazy.
Schr. Ajax, N. 29° 04′, W. 89° 00′	30.00	762.0				s.			3		1		s.	0	0	sm'h		clear.
Bk. Alpha, Guanatamo, Cuba, W. I.†	29.98	761.5	78	25.6		n.			1		1		ne.	0	0			fair.
Sch'r Annie R. Lewis, N. 28° 18′, W. 91° 08′†	30.03	762.7	81	27.2		e.			1		0			0	0	sm'h		clear.
Bk. Annie Thorman, N. 6° 18′, W. 26° 34′	30.03	762.8	81.9	27.7	79	ene.			1		3 k;n		se.	8 h'r	8 h'r	mod.	s.	clear.
Bk. Antioch, S. 33° 45′ E. 151° 40′*†	29.45	748.0	66	18.9		nw.			6									
S. S. Antonio Lopez, Santander, Spain*	30.26	768.6	62	16.7	88	w.			3		3 k			6 h'r	6 h'r			fair.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.20	767.1	76	24.4		ne.			1		7		wnw.	1 h'r	1 h'r			cloudy.
Schr. Annie M. Smull, N. 4° 19′, E. 107° 03′*†	29.95	760.7	82	27.8										0	0			
Bk. Bergenseren, N. 45° 05′ W. 24° 30′†	29.89	759.2				sse.			4				s.	0	0	4	wsw.	overcast.
S. S. Compton, Philadelphia, Pa†	30.01	762.2				se.			1		0			0	0			clear.
Schr. C. R. Flint, N. 28° 07′ W. 85° 57′			79	26.1		sw.			1		8		sw.	2 h'r	2 h'r	sm'h		cloudy.
Schr. Edith R. Seward, Baltimore, Md*†	30.08	764.0																
S. E. J. Spicer, London, Eng.†	30.27	768.8				e.			5		4		e.	0	0			
Essex, N. 32° 30, W. 42° 35′*†	30.28	769.1	72	22.2		sse			1		2		se.	0	0	long	ne.	clear.
Bk. Freya, N. 55° 57′, W. 13° 30′			57	13.9		sw.			2		0			0	0	sm'h		fair.
Godfrey, N. 42° 36′ W. 36° 49′	30.12	765.0	52.3	11.3	90	nnw.			5–6		7		nnw.	0	0	long	n.	cloudy.
S. Grecian, S. 0° 04′, E. 107° 02′*†	29.90	759.4	83	28.3		wsw.			4		9?		nw.	0	0	sm'h	nw.	clear.?
Bk Hattie G. McFarland, N. 45° 30′, W. 60° 00′*†	29.56	750.8	42	5.6		nnw.			3		10		nw.	18 h'r	18 h'r			stormy.
S. Ismir, N. 5° 31′W 34° 28′†	30.00	762.0				se.			2		4		se.			sm'h	sse.	showery.
James Slater, N. 31° 22′, W. 53° 39′*†	30.24	768.1	79	26.1		ssw.			4		5		w.			mod.	s.	showery.
Schr. John L. Thomas, Albuquerque Cays, C. A*†	29.98	761.5				ene.			5		2		ne.	0	0			clear.
Bk. Julia H., Havana, Cuba, W. I.	30.04	763.0	77.3	25.2	90	sse.			1		5							d. clouds.
Light House Tender, Laurel, Pensacola Bay, Fla†	30.02	762.5	77	25.0		ene.			1		3		ne.	0	0			fair.
Schr. Maggie Abbot, N. 25° 19′, W. 70° 18′†	30.00	762.0				sw.			3				wnw.	0	0	mod.	s.	clear.
S. S. Malabar, Hong Kong, China*†	29.84	757.9				var.												cloudy.
S. Minnie N. Gerow, N. 42° 14′, W. 32° 15′*†	29.94	760.5				nw.			5		7		nw.			r'gh	wnw.	fair.
S. M. P. Grace, N. 38° 21′, W. 61° 21′			64	17.8		n.			5		8		e.	0	0	mod.	ese.	squally.
S. Paramita, S. 32° 34′, W. 39° 56′†	29.94	760.5	68	20.0		s.			4		2		w.	0	0	short	sw.	clear.
Bk. Pawashick, N. 41° 49′ W. 32° 55′*†	30.20	767.1	56	13.3	93	n.			6		8		n.			r'gh	nw.	raining.
Bk. Peppina, Bordeaux, France†	30.15	765.8	72	22.2	63	ssw.			3		2		s.					fair.
S. S. Ponca, S. 0° 34′, W. 47° 20′* †	29.90	759.4	88	31.1		ene.			2		1		ese.	0	0	mod.	ese.	clear.
Bk. Princessen, N. 49° 13′ W. 7° 20′†	30.41	772.3	57	13.9		nne.			3		0			0	0	sm'h		clear.
Bk. Rosebud, N. 7° 27′, W. 23° 55*†	30.00	762.0	86	30.0	75	n.			2–3		5		se.	shr's	shr's	sm'h		very fine.
S. Salisbury, S. 40° 04′, E. 49° 07′*	30.19	766.9	54.3	12.4	88	e.			2		2		e.	0	0	long	ne.	clear.
Bkt. Spotless, S. 1° 34′, W. 38° 03′*†						se.							se.			hv'y	se.	fine.
Bk. Stella, N. 12° 30′, W. 125° 24′*	29.86	758.4	75.7	24.3	91	n.			4		7 k?		s.	0	0	sm'h	n.	overcast.?
Bk. Truro, Havre, France*†	30.12	765.0				ne.			5		10		ne.	5 h'r	5 h'r			raining.
U. S. F. C. S. FishHawk, Havre de Grace, Md†	30.27	768.8	63	17.2	94	calm			0		0			0	0			clear.
Yacht Vega, St. Thomas Id., W. I.*†	30.30	769.6	82	27.8		ese.			3				se.	0	0			
S. S. Victoria J. Peed, Salamanca Id, U. S. C.*†	29.11	739.4				ne.			5		0							
Bk. Vincenzo Accame, N. 38° 30′ W. 65° 30′†	30.08	764.0	66.2	19.0		n.			6									
Schr. Viola Reppard, Brunswick, Ga†	29.83	757.7	78	25.6		sw.			1		10			2 h'r	2 h'r			foggy.
Bk. Wm. Wilcox, N. 20° 10′, W. 35° 00′*†	30.38	771.6	76	24.4		ene.			4		5		e.	0	0	mod	e.	fair.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 31, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.95	760.6	75.2	24.0	73	ssw.			4		0			0	0	clear	Moiroud.
Algiers			29.98	761.4	85.3	29.6	35	n.			2		4			0	0	cloudy	Nicolas.
La Galle			30.06	763.5	79.5	26.4	64	wnw.			1		0			0	0	clear	Fonfrède.
Tunis			30.06	763.6															Jacques.
Saida			30.06	763.5															Dumas.
Tebessa			30.14	765.6	63.0	17.2	84	se.			1		2			0	0	fair	Derché.
Geriville					87.4	30.8	11	ssw.			8		1			0	0	very fair	Lonchamp.
Laghouat			30.18	766.5	89.6	32.0	40	e.			1		0			0	0	clear	Abraham.
Biskra			30.13	765.3	100.8	38.2	24	se.			2		2			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.92	759.9	30.01	762.2	50.0	10.0	68	s.	14	6.3			10			0.11	2.8	showery	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.35	745.5	30.26	768.6	83.8	28.8	46	se.			2		3			0.079	2.0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.24	742.6	30.00	761.9	58.6	14.8	87	nw.	4.9	2.2			10			0.173	4.4		Dr. Wierzbiski.
Eperies	28.97	735.9	29.82	757.3	72.3	22.4	63	nw.			3		9 ks		se.	0.165	4.2		Julius Mikolik.
Gratz	28.73	729.7	29.93	760.3	72.3	22.4	79	n.			3		10			0.059	1.5	thunder	Andreas Rospini.
Hermannstadt	28.52	724.5	29.98	761.6	80.1	26.7	40	wnw.			2		5			0.197	5.0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.68	728.4	29.99	761.7	64.8	18.2	82	ne.			1		10			1.654	42.0		The Staff.
Lemberg	28.81	73:.7	29.74	755.5	74.7	23.7	58	se.			1		8			1.386	35.2		Dr. T. Stanecki.
Pola	29.82	757.5	29.93	760.2	79.2	26.2	46	se.			4		2			0	0		I. R. Hydrographic Office.
Szathmar	29.41	747.1	29.80	758.4	77.7	25.4	63	sw.			3		9			0.079	2.0	thnd'r str'm	Joseph Midlinszky, S. J.
Szegedin	29.65	753.2	29.92	760.0	79.2	26.2	44	s.			1		3			0	0		Karl Stancel.
Trieste	29.85	758.1	29.95	760.7	84.2	29.0	53	calm			0		4			0	0		Rieder.
Vienna	29.28	743.8	29.98	761.4	71.8	22.1	60	n.			1		7			1.232	31.3		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.29	769.4	30.39	771.9	53.1	11.7	79	e.	11	4.9			6			0	0	d. clouds	W. Boswell
Armagh, Observatory	30.15	765.8	30.39	771.9	60.3	15.7	59	nne.	3	1.3			3					d. clouds	S. Call.
Bidston, Liverpool Obs'y			30.32	770.1	60.5	15.8	76	nne.	6	2.7			7					misty	John Hartnup.
Bolton, Sharples	29.78	756.4	30.32	770.1	65.0	18.3	48	se.	6	2.7			7					d. clouds	Thomas Mackereth. [A.S.
Bradford, Yorkshire	29.94	760.5	30.34	770.6	61.2	16.2	48	se.			1		5			0	0	d. clouds	J. McLandsborough, F. R
Bridgetown, Barbadoes	29.95	760.7	29.98	761.5	85.0	29.4	64	ne.			2		3					d. clouds	Corpl. J. Surgenor, A. H.C.
Cardington			30.28	769.1	65.4	18.6	47	n.			2.0		5					d. clouds	John McLaren.
Chatham, School M. E.	30.17	766.3	30.30	769.6	60.4	15.8	62	ne.			2		3					d. clouds	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	30.06	763.5	30.29	769.4	62.3	16.8	64	se.			1		6					foggy	The Staff.
Fort Napier, Natal	27.64	702.0	29.86	758.4	68.4	20.2	50	calm			0		0					blue sky	Pvt. E. K. Annis, A. H.C.
Free Town, Sierra Leone	29.58	751.3	29.81	757.2	88.0	31.1	62	sw.			1		5					d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	29.96	761.0	30.01	762.2	75.6	24.2	76	ne.			1		4					d. clouds	Cpl. O. Baldwin.
Glasgow, Observatory	30.13	765.3	30.34	770.6	61.9	16.6	48	ene.			1		6					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.10	764.5	30.27	768.8	67.8	19.9	60	ene.			4		5					d. clouds	The Staff.
Guernsey	29.96	761.0	30.26	768.6	60.5	15.8	68	ne.			2		0					blue sky	A. Collenette, F. M. S.
Kew, Observatory	30.25	768.3	30.28	769.1	61.6	16.4	48	ne.	14	6.3			8					misty	The Staff.
Leicester, Museum	30.06	763.5	30.31	769.9	61.5	16.4	53	se.			1		5					d. clouds	J. C. Smith.
Malta, Mediterranean	29.95	760.7	30.02	762.5	78.0	25.6	60	ne.			2		0					blue sky	I. H. Whysall.
Nassau, Bahamas	30.07	763.8	30.11	764.8	83.0	28.3	80	n.			1		7					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.81	757.2	30.33	770.4	61.9	16.6	52	ene.			3		5					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	30.08	764.0	30.31	769.9	61.5	16.4	57	ne.			2		7					overcast	The Staff.
Plymouth	30.19	766.8	30.26	768.6	67.0	19.4	50	s.			2		10					blue sky	John Merrifield.
Sandwick Manse, Orkneys			30.39	771.9	53.9	12.2	73	w.	18	8.0			0					d. clouds	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.85	758.2	29.91	759.7	79.4	26.3	43	nne.			2		2					d. clouds	W. H. Lyne.
Sheffield	30.08	764.0	30.35	770.9	65.9	18.8	62	ne.			1		5			0	0	d. clouds	W. F. Cooper.
Silloth Rectory	30.29	769.4	30.32	770.1	67.7	19.8	44	sw.			1		0			0	0	blue sky	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.34	770.6	64.0	17.8	48	e.	3	1.3			7					d. clouds	J. New.
Strathfield Turgiss	30.08	764.0	30.29	769.4	67.7	19.8	50	nw.			2		4					squally	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	30.21	767.3	30.22	767.6	73	22.8	47	ne.			2		5					d. clouds	W. Newcombe.
Valencia, Observatory	30.28	769.1	30.30	769.6	64.8	18.2	67	ne.	17	7.6			4					d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.75	755.6	29.79	756.7	52	11.1	77	sw.	8	3.6		2 c	0	w.		0.060	1.5	fair	H. J. Cundall, C. E.
Chatham, N. B*	29.69	754.1	29.75	755.6	52	11.1	77	sw.	7	3.1		3 c	0	sw.		0.01	0.3	fair	G. A. Blair.
Father Point, Quebec*	29.62	752.3	29.65	753.1	47	8.3	60	w.	35	15.6		0	5 s		w.	0	0	fair	J. McWilliams.
Fort Garry, Manitoba*																			
Halifax, N. S*	29.76	755.9	29.88	758.9	53	11.7	74	w.	6	2.7		5 ck	0	w.		0	0	fair	A. Allison.
Kingston, Ontario*	29.43	747.5	29.76	755.9	54	12.2	80	sw.	3	1.3		3 ck	1 s	w.	w.	0	0	fair	A. P. Knight, M. A.
Montreal, Quebec*	29.61	752.1	29.81	757.2	53	11.7	74	se.	2	0.9			10 s		nw.	inap.	inap.	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	28.99	736.3	29.68	753.9	50	10.0	96	e.	13	5.8			10 n		w.	0.08	2.0	light rain	Rev. R. Mosley.
Port Dover, Ontario	29.05	737.9	29.72	754.9	56	13.3	75	s.	10	4.5			10 ks		sw.	0	0	cloudy	H. Morgan.
Port Stanley, Ontario	29.06	738.1	29.69	754.1	54	12.2	80	e.	7	3.1		5 cs	5 n	sw.	sw.	inap.	inap.	light rain	M. Payne.
Quebec, Quebec*	29.49	749.0	29.80	756.9	48	8.9	80	nw.			5	0	2 s		nw.	0.11	2.8	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.30	744.2	29.75	755.6	50	10.0	77	e.	8	3.6			10 s		se.	0	0	threatening	W. H. McIntyre.
Saugeen, Ontario*	28.92	734.6	29.62	752.3	54	12.2	93	ne.	10	4.5			10 s			0.07	1.8	cloudy	
St. Andrews, N. B	29.79	756.7	29.84	757.9	53	11.7	79	sw.	1	0.4		2 k	5 s	nw.		0	0	fair	
Sydney, C. B*	29.74	755.4	29.80	756.9	52	11.1	74	sw.	10	4.5		2 ck	0	w.		0.02	0.5	clear	T. C. Hill, C. E
Toronto, Ontario*	29.35	745.5	29.72	754.9	55	12.8	74	se.	6	2.7			10 n		sw.	0	0	cloudy	Magnetic Observatory.
Yarmouth, N. S*	29.85	758.2	29.91	759.7	47	8.3	86	sw.	3	1.3		hz.	0			0	0	hazy	Lt. F. E. Wilmot, R. N
Sub-series.																			
St. Johns, Newfoundland	29.96?	761.0?	30.21?	767.3?	55	12.8	80	sw.	4	1.8		2 k	2 s			1.40	35.6	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	29.89	759.2	29.92	760.0	67.0	19.4	83	w.	20.5	9.2		0	5 s			0	0	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	29.83	757.7	29.87	758.7	59.0	15.0	85	nw.	28	12.5		8	9			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai.	29.84	758.0	29.87	758.6	66.0	18.9	82	ese.	8.5	3.8			9			0	0	covered	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	30.02	762.5	30.07	763.7	60.8	16.0	52	nnw.	20	9			1						Oversergent Fischer.
Fanöe	30.19	766.7	30.21	767.2	60.3	15.7	57	nw.			6		5						Overloerer Lauridsen.
Godthaab, Greenland	29.97	761.2	30.01	762.3	43.0	6.1	60	ne.			3		0						S. Kleinschmidt.
Stykkisholm, Iceland	30.02	762.6	30.07	763.7	45.0	7.2	86	se.			2		8						A. O. Thorlacius.
Thorshavn	30.28	769.2	30.32	770.1	53.6	12.0	75	w.	11	5			5						Overloerer Bergh.
Vestervig	30.06	763.4	30.15	765.7	54.5	12.5	73	nw.			6		0						Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.39	746.6	30.03	762.7	67.6	19.8	85	calm			0		k			0	0		M. Labroue, Director.
Alençon, Normal School	29.65	753.1	30.20	767.1	58.6	14.8	91	ne.			2		n		ne.	0.71	18.		M. Nicot, Director.
Arras, Engineer School	29.90	759.5	30.16	766.0	62.8	17.1	61	ne.			6		n		ne.	0.079	2.0		M. Fénéon, Command't.
Avignon, Normal School	29.92	760.0	30.00	762.0	80.6	27	45	n.			1		2		nne.	0	0	slightly cl'dy	M. Giraud, Director.
Bar-sur-Seine	29.56	750.8	30.11	764.8	60.8	16.0	74	s.			1		10			0	0	covered	M. Saillard, Director.
Beauvais, Normal School	29.89	759.2	30.16	766.0	61.0	16.1	71	ne.			2		10		ne.	0.213	5.4	covered	M. Frère Eugène Mari.
Besançon, Normal School	29.15	740.4	30.01	762.2	70.2	21.2	63	sw.			1	5 c	0	sw.		0	0	cloudy	M. Gobin, Director.
Bordeaux, Observatory	29.79	756.6	30.04	763.1	66.2	19.0	64	ne.			1		5		se.	0.020	0.5	cloudy	M. Rayet, Director.
Bourges, Normal School	29.56	750.8	30.11	764.8	57.6	14.2	80	wsw.			1		kn		wsw.	0	0		M. Postel, Director.
Brest, Naval Observatory	29.97	761.3	30.22	767.5	64.0	17.8	56	ne.			3		4		ne.	0	0		M. de Kermaree, Dir.
Caen, Normal School	30.16	766.0	30.23	767.9	60.8	16	69	ne.			4		2		ne.	0.283	7.2	slightly cld'y	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.71	754.7	30.02	762.5	54.5	12.5	86	calm			0		8	s.	sw.	0.181	4.6	very cloudy	M. Jadot, Director.
Charleville, Normal School.	29.59	751.6	30.10	764.5	57.6	14.2	80	e.			3		10			0.08	2.	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.72	729.4	30.02	762.4	75.9	24.4	37	wsw.			2		5			0	0	½ covered	M. Alluard, Director.
Cluny, Normal School	29.25	743.0	30.07	763.7	68.5	20.3	54	wnw.			3		4		s.	0	0		M. de Villemontée, Dir.
Commercy, Normal School.	29.24	742.7	30.09	764.2	61.7	16.5	73	nw.			1		5 kn	nw.	nw.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.54	699.6	29.96	761.0	78.1	25.6	25	nw.			3	0	2 k		sw.	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.92	734.5	29.98	761.6	83.3	28.5	27	nw.			1		4		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.25	742.9	29.98	761.6	73.8	23.2	61	nw.			2	cs	0			0	0		M. Ablard, Director.
Guéret, Normal School	28.54	725.0	30.10	764.6	60.8	16	69	nw.			1		2		e.	0	0	slightly cl'dy	M. Rivoire, Director.
Lamballe, Normal School.	30.00	762.1	30.28	769.0	63.7	17.6	51	ne.			4		2		ne.	0	0	slightly cl'dy	M. Ollitrault, Director.
Lescar, Normal School	29.43	747.4	29.98	761.5	68.0	20	71	nw.			1	5 c	0			0.04	1.	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	30.07	763.7	30.17	766.3	69.8	21	41	ne.			3		2		calm	0	0	¼ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.03	737.4	30.05	763.3	72.9	22.7	55	e.			1	c	8 kn	w.	w.	0	0	¾ covered	M. André, Director.
Mans, Normal School	29.85	758.2	30.16	766.0	61.7	16.5	71	ene.			3		8		ne.	0.441	11.2	very cloudy	M. Piboen, Director.
Marseille, Observatory	29.74	755.4	30.00	762.0	81.7	27.6	53	sw.			2		6		wnw.	0	0		M. Stephan, Director.
Montlouis	24.96	633.9	29.80	756.9	63.3	17.4	47	ne.	15.0	6.7			5		ne.	0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.87	758.8	30.00	761.9	80.6	27	86	nne.			1		2			0	0	slightly cl'dy.	M. Galzin, Director.
Nancy, Normal School	29.30	744.2	30.08	763.9	59.4	15.2	85	sw.			1		kn		sw.	0.209	5.3		M. Hasse, Director
Nantes. Observatory	30.02	762 5	30.18	766.6	65.5	18.6	66	ene			1-3		10 k		ene.	0.150	3.8		M. Larocque, Director.
Perpignan, Observatory	29.94	760.4	30.04	763.0	80.2	26.8	40	nw.	1.8	0.8			10		sw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit.	21.42	544.1			48.2	9.0		nw.			1		10		nw.	0.059	1.5	rainy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.98	736.2	30.01	762.2	74.8	23.8	60	n.			1		2	n.	n.	0	0	slightly cl'dy	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.27	641 8			51.3	10.7	77	w.			3		5		w.	0.024	0.6	½ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	30.08	764.1	30.11	764.9	64.4	18.0	100	e.			1		10		ne.	0	0	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.94	760.4	30.15	765.8	61.9	16.6	77	ne.			3		10			0	0	covered	M. Mouillot, Director.
Rodez, Normal School	27.93	709.5	30.04	763.0	63.3	17.4	70						2		w.	0	0	slightly cl'dy	M. Serger, Director.
Rouen, Normal School	30.12	765.0	30.17	766.2	65.1	18.4	69	nne.			2		2		nw.	0.689	17.5	slightly cl'dy	M. Brotier.
Saint Maur, Observatory	29.98	761.4	30.14	765.6	54.5	12.5	94	nne.			1		10		nne.	0	0		M. Renou, Director.
Toulouse, Observatory	29.41	747.0	30.13	765.4	70.0	21.1	68	ese.			1		8	w.		0	0	very cloudy	M. Bailland, Director.
Tours	29.96	761.0	30.14	765.5	65.5	18.6	69	n.			1		10	ne.	nne.	0	0	covered	
Versailles, Observatory	29.66	753.3	30.15	765.8	55.0	12.8	83	ne.			2					0.012	0.3		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.86	758.4	30.15	765.8	55.6	13.1	86	n.			2		10		nne.	0.016	0.4		M. Marié Davy, Director
GERMAN.																			
Bamberg	29.19	741.4	30.04	763.1	64.8	18.2	67	se.			4	0	8 ks			0.504	12.8		Prof. Dr. Hoh.
Berlin	29.89	759.2	30.06	763.6	69.8	21.0	33	nw.			1		1			0	0		Prof. Dr. Arndt.
Breslau	29.55	750.6	30.08	764.1	62.2	16.8	59	w.			1		8			0.504	12.8		Royal University Obs'y.
Carlsruhe	29.63	752.6	30.07	763.7	60.1	15.6	100	n.			1		10	nw.		0.673	17.1		Albert Senz.
Cassel	29.38	746.3	30.10	764.4	61.3	16.3	81	w.			2		10	n.		0.118	3.0		Dr. H. Möhl.
Frankfort-on-the-Main	29.69	754.1	30.05	763.3	62.1	16.7	79	n.			2		10			0.449	11.4		Physical Society.
Friedrichshafen	28.57	725.6	29.94	760.4	74.1	23.4	70	sw.			2		5	w.		0.220	5.6		Wilhelm, Chief Tel.
Hamburg	30.08	764.1	30.18	766.5	61.7	16.5	52	nnw.			4		5			0	0		E. Preller.
Kiel	30.14	765.5	30.15	765.9	61.5	16.4	54	nw.			2		4			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.69	754.1	30.10	764.5	67.8	19.9	41	e.			3		6	e.		0.421	10.7		H. Leppig, Asst.
Magdeburg	29.93	760.1	30.11	764.8	68.0	20.0	38	n.			1	0	3 k		nw.	0.087	2.2		Dr. Assmann.
Memel	29.89	759.2	29.94	760.4	57.2	14.0	76	w.			6		10 ks						Issermann.
Munich	28.25	717.6	30.12	765.0	57.0	13.9	86	nw.			4		8	w.		0.681	17.3	thnd'r str'm	Central Station.
Neufahrwasser	29.98	761.4	29.99	761.8	65.7	18.7	37	nw.			4		0			0	0		A. Lothes.
Neustadt, Palatinate	29.50	749.3	30.03	762.7	66.6	19.2	77	n.			2		10			0.374	9.5		Dicknether.
Stuttgart	29.09	738.8	29.96	760.9	67.1	19.5	81	w.			1		9	w.		0.402	10.2		Prof. Dr. Schoder.
Wustrow	30.13	765.2	30.15	765.8	56.8	13.8	75	nw.			5	0	3 s			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.59	751.6			80.2	26.8		ne.			4.0		2 k			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.61	752.0	29.66	753.2	88.1	31.2	78	sw.	27.0	12.1			7		w.	0	0	misty	
Deesa	29.10	739.1	29.55	750.5	103.3	39.6	24	sw.	15.4	6.9			0			0	0	blue sky	
Bombay	29.66	753 3	29.70	754.3	89.3	31.8	69	wsw.	10.0	4.5			6	s.	ssw.	0	0	d. clouds	
Poona, Yarrowda	27.90	708.7	29.77	756.1	73.5?	23.1?	88	wsw.	13.0	5.8			10		se.	0.14	3.6	thund'r st'm	
Bellary	28.21	716.4	29.63	752.6	92.5	33.6	40	se.	5.7	2.6			6	nw.		0	0	d. clouds	
Belgaum	27.18	690.5	29.68	753.8	82.8	28.2	58	ssw.	16.0	7.2			6	se.	e.	0	0	d. clouds	
Lahore	28.72	729.5	29.42	747.1	108.3	42.4	20	ne.	3.2	1.4			0			0	0		
Roorkee	28.59	726.2	29.45	748.9	98.3	36.8	36	sw.	5.3	2.4			0			0	0		
Agra	28.92	734.7	29.46	748.2	105.1	40.6	26	calm	5.5	2.5			0			0	0		
Nagpur	28.56	725.4	29.55	750.7	102.2	39.0	25	wsw.	11.0	4.9			4	w.		0	0	d. clouds	
Jubbulpore	28.22	716.9	29.51	749.4	104.9	40.5	15	w.	4.6	2.1			6			0	0	d. clouds	
Lucknow	29.14	740.1	29.50	749.2	102.9	39.4	37	calm	4.6	2.1			0			0	0	blue sky	
Allahabad	29.20	741.6	29.49	749.1	100.1	37.8	35	e.	6.2	2.8			0			0	0	blue sky	
Patna	29.38	746.1	29.56	750.7	91.0	32.8	73	ne.	9.1	4.1			0			0	0	blue sky	
Hazaribagh	27.54	699.6	29.47	748.6	94.3	34.6	33	nnw.	10.8	4.8			10		n.	0	0	thunder	
Cuttack	29.49	749.1	29.57	751.1	91.9	33.3	54	s.	2.6	1.2			2			0	0	d. clouds	
Calcutta, Alipore	29.54	750.4	29.56	750.9	87.5	30.8	74	sw.	10.0	4.5			3			0	0	d. clouds	
Dhubri	29.47	748.4	29.58	751.4	85.1	29.5	70	calm	8.4	3.8			9		w.	0	0	gloomy	
Chittagong	29.64	752.9	29.73	755.2	84.2	29.0	82	sse.	6.6	3.0			7			0	0	d. clouds	
Sibsagar	29.33	745.0	29.66	753.5	81.2	27.3	81	e.	1.1	0.5			4		sw.	0.12	3.0	blue sky	
Jeypore	28.10	713.7	29.46	748.3	106.4	41.3	22	wnw.	8.0	3.6			0			0	0	blue sky	
Zanzibar, Africa	29.93	760.2			83.1	28.4	62	se.	4.9	2.2			8		sse.	0	0	d. clouds	
ITALIAN.																			
Udine	29.53	750.1	29.93	760.2	86.9	30.5	54	s.	1.8	0.8			5			0	0		Prof. Giovanni Clodig.
Milan	29.43	747.5	29.93	760.2	84.2	29.0	34	se.	4.9	2.2			1			0	0		Prof. Schiaparelli.
Padua	29.82	757.3	29.92	760.0	84.9	29.4	32	e.	8.7	3.9			1			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.03	737.3	29.91	759.6	81.1	27.3	41	s.	4.3	1.9			5			0	0		Prof. P. F. Denza.
Genoa	29.83	757.6	30.02	762.4	73.0	22.8	72	se.	6.9	3.1			2	se.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.07	713.0	30.00	762.1	78.3	25.7	43	wnw.			2		2	w.		0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Velocity. Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
ITALIAN.—Continued.																			
Pesaro	29.87	758.8	29.92	760.0	86.9	30.5	34	sw.	8.1	3.6			10			0	0		Prof. Luigi Guidi.
Florence	29.73	755.1	29.98	761.4	84.7	29.3	32	nw.			2		1	w.		0	0		Prof. Costantino Pitter.
Leghorn	29.87	758.8	29.96	760.9	77.2	25.1	53	w.	1.3	0.6			10			0	0		Prof. P. Monte.
Rome	29.85	758.2	30.02	762.5	86.9	30.5	27	wsw.	13.0	5.8			3			0	0		Prof. P. S. Ferrari.
Lecce	29.73	755.2	29.98	761.6	79.2	26.2	29	ne.	9.4	4.2			0			0	0		Prof. C. de Giorgi.
Cosenza	29.16	740.7	30.02	762.6	83.8	28.8	76	se.	3.1	1.4			0			0	0		Prof. D. Conti.
Cagliari	29.81	757.2	30.00	762.0	82.6	28.1	34	se.			2		0			0	0		Prof. A. Pacinotti.
Palermo	29.83	757.7	30.08	763.9	80.2	26.8	48	ne.	6.9	3.1			0			0	0		Prof. G. Ciacciatore.
Syracuse	29.96	760.9	30.00	762.0	80.6	27.0	44	sse.	6.3	2.8			0			0	0		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.51	749.5	30.01	762.3	79.5	26.4	64	wsw.	8.7	3.9			1			0	0		Prof. T. Brioschi.
Stelvio	22.29	566.2			50.7	10.4	49	w.			2		5			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.33	567.1			51.8	11.0	46	e.			6		3			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.93	760.2	29.96	761.0	59.1	15.1	84	calm	0	0		1 cs	0			0	0	clear	K. Ogawa.
Hakodate	29.94	760.5	29.95	760.7	54.0	12.2	92	calm	0	0		0	0			0	0	clear	
Hiroshima, I. M. Obs'y	29.84	757.9	29.85	758.2	64.0	17.8	89	nne.	6.4	2.9		10 ck	0	e.		0.108	2.7	overcast	J. Sogawa.
Kanazawa	29.87	758.7	29.97	761.2	65.1	18.4	68	se.	4.6	2.1			10 s			0	0	cloudy	S. Endo.
Kioto	29.80	756.9	29.97	761.2	64.3	17.9	79	ne.	2.9	1.3			10 n			0.646	16.4	light rain	M. Tojima.
Kochi	29.89	759.2	29.91	759.7	63.3	17.4	91	nw.	6.5	2.9			10 s		e.	0.200	5.1	cloudy	K. Kusunose.
Nagasaki, I. M. Obs'y	29.59	751.6	29.78	756.4	67.1	19.5	77	nne.	4.1	1.8		3 c;cs	0			0	0	clear	S. Takehayashi.
Niigata	29.93	760.2	29.97	761.2	59.3	15.2	91	calm	0	0		10 ck	0			0	0	cloudy	M. Morita.
Nobiru	29.95	760.7	29.97	761.2	60.4	15.8	93	sse.	4.4	2.0			10 s			0	0	covered	H. Midzushima.
Supporo					53.0	11.7	98	n.	4.2	1.9			10			0	0	covered	
Tokei Obs'y, Yeddo	29.93	760.2	29.99	761.7	65.3	18.5	82	s.	7.3	3.3			10 s			0	0	covered	The Staff.
Wakayama	29.89	759.2	29.94	760.5	63.4	17.4	95	calm	0	0			10 n			0.285	7.2	light rain	Y. Kuwamuea.
MAURITIUS																			
Mauritius Observatory	29.78	756.4	29.97	761.2	77.0	25.0	67	ene.	9.5	4.2		0	6 k;n		ene.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.62	599.9	29.84	757.9	60.6	15.9	85	calm	0	0			10 kn		nnw.	0.174	4.4	covered	Prof. Vicente Fernandez.
Leon	24.24	615.7	29.83	757.7	62.6	17.0	92	nw.			1		10 kn		w.	0.260	6.6	raining	Prof. M. Leal.
Mazatlan	29.63	752.6	29.89	759.1	74.0	23.3	88	sw.	5.3	2.3			10 n		w.			covered	F. Quijano, C. E.
Mexico, Central Obs'y	23.02	584.6	29.99	761.7	57.2	14.0	90	calm	0	0			10 k;n		sw.	0.354	9.0	covered	The Staff.
Morelia	24.11	612.3	30.14	765.5	61.9	16.6	58	e.			3	4	4	s.	s.	0	0	cloudy	M. Tena, M. D.
Pabellon, Aguascalientes	23.89	606.8	29.79	756.6	63.5	17.5	80	calm	0	0						0.330	8.5		M. V. de Leon, M. E.
Puebla, Catholic Institute	23.36	593.4	30.03	762.8	58.3	14.6	97	calm	0	0			9		sse.	0.555	14.1	very cloudy	Prof. P. Spina.
San Luis Potosi	24.10	611.8	30.01	762.1	61.7	16.5	67	se.			1		10		w.	1.103	28.0	covered	G. Barroeta, M. D.
Zacatecas	22.48	571.0	30.01	762.2	57.5	14.1	71	w.	4.9	2.2		10	0			0.231	5.9	gloomy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.24	768.0	30.24	768.0	62.2	16.8		nne.			5					0.130	3.3		
Groningen	30.21	767.2	30.26	768.6	59.0	15.0		ne.			4					0	0		
Helder	30.28	769.0	30.28	769.0	56.5	13.6		ne.			4					0	0		
Hellevoetsluis	30.23	767.9	30.23	767.9	63.3	17.4	56	ene.			4					0.142	3.6		
Utrecht	30.19	766.7	30.23	767.9	62.4	16.9	61	nne.			4		2			0	0	lightly cl'dy	H. van der Brink.
NORWEGIAN.																			
Bergen	30.13	765.3	30.19	766.9	43.5	6.4	68	nnw.	18	8			8			0.079	2.0		
Brono	29.98	761.4	30.02	762.4	55.4	13.0	66	nw.	18	8			5			0	0		
Christiania	29.84	757.9	29.98	761.5	62.4	16.9	46	se.	7	3			7			0.063	1.6	raining	
Gjesvær	30.10	764.6	30.13	765.2									10						
Lodingen	30.00	761.9	30.04	763.1	51.4	10.8	59	ne.			2		0			0	0		
PORTUGUESE.																			
Angra, Azores					60.8	16.0	62	nnw.	10.5	4.7			3			0	0		Dr. J. A. Sampaio.
Campo Major	28.95	735.2	29.91	759.8	75.2	24.0	36	ssw.	9.4	4.2			7			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	29.95	760.7	30.04	762.9	69.8	21.0	44	wsw.	5.6	2.5			1			0.016	0.4		Capt. D. A. de Cunha.
Lisbon, Observatory	29.61	752.2	29.97	761.2	64.4	18.0	57	sw.	14.3	6.4			8			0	0		The Staff.
Ponta Delgada, Azores	30.05	763.2	30.12	765.0	62.2	16.8	66	wnw.	11.2	5.0			3			0.043	1.1		
Saint Paul de Loando	29.76	755.8	29.96	760.9	76.1	24.5	80	nw.	0.7	0.3			0			0	0	foggy	
Serra da Estrella	25.23	640.8	29.83	757.7	59.5	15.3	53	sse.	18.6	8.3			8			0	0		
RUSSIAN.																			
Akmolinski	28.79	731.3	29.86	758.5	51.8	11.0	51	nne.	13	6			10 kn			0	0		Major K. Lasarew.
Archangel	29.80	757.0	29.82	757.5	52.3	11.3	42	ne.	4	2		0	8 ks			0	0		Capt. Sselilwerstow.
Astrakhan	29.95	760.8	29.87	758.7	78.6	25.9	48	sw.	9	4		0	6 ks			0.028	0.7		Capt. Wisganow.
Barnaul	29.20	741.6	29.69	754.0	56.8	13.8	71	nw.	13	6			9 n			0.004	0.1		Meteorological Obs'y.
Dorpat	29.47	748.5	29.71	754.5	57.7	14.3	82	w.	7	3			10 k			0.205	5.2		Observatory.
Ekaterinburg	28.98	736.2	29.93	760.2	58.8	14.9	38	sw.	11	5		4 c	0			0	0	light clouds	Meteorological Obs'y.
Kasan	29.63	752.5	29.89	759.1	68.0	20.0	31	ssw.	7	3		2 c	0			0	0		Observatory.
Kertch	29.85	758.3	29.87	758.8	67.1	19.5	85	s.	4	2		0	5 ks			0	0		Lagorio & Sastyrez.
Kieff	29.17	740.9	29.76	756.0	80.1	26.7	31	s.	4	2		ck;cs	4 ks			0	0		Observatory.
Lugan	29.60	751.7	29.80	756.8	71.4	21.9	69	nw.	9	4			9			0.268	6.8		Meteorological Obs'y
Moscow	29.19	741.4	29.63	752.6	77.0	25.0	32	ssw.	4	2			2 k						Meteorological Obs'y.
Nikolaiev	29.80	756.9	29.87	758.7	85.1	29.5	39	s.	9	4		0	5 kn			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.63	752.7	29.72	754.9	50.2	10.1	68	calm	0	0			10			0	0		Lieut. Iwanow.
Pekin, China	29.59	751.5	29.73	755.1	77.5	25.3	44	se.	4	2		3 cs	0			0	0		Physical Observatory
St. Petersburg	29.54	750.4	29.56	750.8	54.1	12.3	91	wsw.	4	2			10 n			0.386	9.8	raining	Central Physical Obs'y.
Semipalatinsk	29.06	738.0	29.68	753.8	73.9	23.3	44	nw.	4	2		0	8 k			0	0		Major Lasareu.
Tashkend, Laboratory	28.28	718.4	29.76	755.8	84.2	29.0	38	nw.	4	2			3			0	0		Teich, A. M.
Tiflis	28.50	723.8	29.84	758.0	79.3	26.3	41	calm	0	0		0	2 k			0.004	0.1		Physical Observatory
Vladivostock	29.82	757.3	29.88	759.0	51.1	10.6	73	ese.	7	3		3 ck	0			0	0		
Warsaw	29.55	750.6	29.97	761.1	62.1	16.7	43	n.	9	4			10 ks						Astronomical Obs'y
Wilna	29.41	747.1	29.82	757.4	66.6	19.2	47	wnw.	13	6			9			0.004	0.1		Berg, Assistant.
Yeniseisk																			M. O. Marks.
SPANISH.																			
Barcelona, Met. Oos'y	29.91	759.8	30.02	762.5	73.4	23.	55	se.	1.6	0.7		1 c	0			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	29.90	759.5	29.96	761.0	74.3	23.5	63	se.	1.3	0.6		3	2	sw.		0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.05	687.0	29.92	760.0	69.8	21.0	72	ne.	3.4	1.5			0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.74	704.7	29.85	758.2	83.3	28.5	45	s.	5.1	2.3		0	7			0	0	cloudy	The Staff.
Murcia, Met. Obs'y	29.83	757.6	29.97	761.3	84.6	29.2	53	e.				0	1			0	0	almost clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	28.93	734.8	29.78	756.5	76.6	24.8	60	sw.	15.4	6.9			8			0	0	almost cov.	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	29.96	761.1	30.03	762.8	80.0	26.7	82	se.	5.3	2.4		2 c	0	wnw.		0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.80	756.9	29.86	758.4	85.1	29.5	75	wsw.	1.5	0.7		4 ck	5 kn	e.	sse.	0.728	18.5	drizzling	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.91	759.6	30.00	762.1	71.4	21.9	74	sw	8.2	3.7		0	6		w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.02	762.4	30.11	764.7	84.9	29.4	89	calm	0	0		2 cs	2 k	se.	se.	0.059	1.5		Manuel Maese.
Tuguegarao, Philippine Id's	29.73	755.1	29.86	758.4	80.5	26.9	86	nw.	2.1	0.9		1 cs	9 kn		e.	0	0	covered	José L. Yrastorza.
SWEDISH																			
Haparanda	29.95	760.6	29.98	761.6	57.6	14.2	37	n.			4		0			0	0		
Umea	29.91	759.8	29.97	761.1	59.4	15.2	49	e.			4		5			0	0		
Hernosand	29.82	757.3	29.87	758.6	58.6	14.8	76	ene.			4		5			0	0		
Stockholm	29.67	753.5	29.84	758.0	60.4	15.8	44	n.			6		8			0.315	8.0		
Wisby	29.80	756.8	29.85	758.3	51.4	10.8	89	nw.			7		5			0.051	1.3		
Sub-series.																			
Upsala	29.75	755.7	29.84	757.9	59.7	15.4	59	n.	14.5	6.5			7		nne.	0	0		S. G. Fluemna.
SWISS.																			
Geneva	28.63	727.1	29.99	761.8	74.3	23.5	48	ssw.			4					0	0	clouds	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
TURKISH.																			
Constantinople			29.96	761.0	72.0	22.2	51	nne.	10	4.5			2		n.	0	0		The Observatory.
Valona			30.14	765.5	80.8	27.1		w.			1		5			0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.87	758.7	79.0	26.1	64	sw.			2	0	1 s		sw.	0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.78	756.4	29.86	758.4	65.2	18.4	73	sw.	8	3.6		3 c	sk.			0	0	clear	J. O. Barnes.
Alpena, Michigan	28.87	733.3	29.53	750.0	45	7.2	100	e.	12	5.4			10 n			0.55	14.0	light rain	Jas. J. Fitzgerald.
Atlanta, Georgia	28.78	731.0	29.95	760.7	71.0	21.7	82	se.	6	2.7		6 c	0	calm		0	0	fair	H. Hall.
Atlantic City, New Jersey	29.95	760.7	29.96	761.0	59.7	15.4	81	s.	14	6.3		6 c	0			0	0	fair	Jas. M. Watson.
Augusta, Georgia	29.81	757.2	30.00	762.0	73	22.8	90	s.	4	1.8			10 ks		s.	0.01	0.3	cloudy	John Healy.
Baltimore, Maryland	29.89	759.2	29.94	760.5	64	17.8	73	s.	6	2.7		0	4 ks		sw.	0	0	fair	Robert Seyboth.
Barnegat, New Jersey	29.92	760.0	29.94	760.5	61.0	16.1	70	s.	17	7.6		6 cs	0	nw.		0	0	fair	Chas. F. Merritt.
Behring Island, Behring Sea	29.89	759.2	29.91	759.7	37.3	2.9		s.	27	12.1			10 s			0	0	cloudy	Dr. L. Steineger.
Bismarck, Dakota	28.19	716.0	29.97	761.2	45	7.2	93	n.	3	1.3		1 c	0			0.02	0.5	clear	Cyrus Cramer.
Boise City, Idaho	27.24	691.9	30.08	764.0	54	12.2	51	w.	1	0.4		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.75	755.6	29.91	759.7	61.0	16.1	72	sw.	5	2.2		7 c	hz.	w.		0	0	fair	O. B. Cole.
Brownsville, Texas	29.73	755.1	29.77	756.1	79	26.1	100	se.	2	0.9			10 n		calm	0.02	0.5	light rain	M. McCarty.
Buffalo, New York	29.01	736.8	29.75	755.6	58.8	14.9	60	se.	13	5.8			10 s		w.	0	0	cloudy	Wm. Finn.
Burlington, Vermont	29.53	750.0	29.82	757.4	57.0	13.9	64	calm	0	0		5 ck	0	w.		0	0	fair	G. C. Schaeffer.
Cairo, Illinois	29.30	745.7	29.76	755.9	67.6	19.8	89	sw.	4	1.8			10 n		sw.	0.40	10.2	heavy rain	W. H. Ray.
Campo, California	27.34	694.4	29.87	758.7	45	7.2	71	w.	2	0.9		0	0			0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.15	689.6	29.82	757.4	62	16.7	48	calm			0	3 ck	4 k	w.	w.	inap.	inap.	fair	J. T. Fitzgerald.
Cape Henry, Virginia	30.01	762.2	30.03	762.7	68	20.0	66	s.	17	7.6			0			0	0	clear	J. E. Lanouette.
Cape May, New Jersey	29.93	760.2	29.96	761.0	61	16.1	84	s.	23	10.3		1 k	0	sw.		0	0	clear	W. Bolten.
Cedar Keys, Florida	29.99	761.7	30.01	762.2	80	26.7	82	s.	13	5.8		1 cs	9 s		s.	0	0	cloudy	F. W. Mixer.
Champaign, Illinois	28.82	732.0	29.62	752.3	63.0	17.2	84	sw.	12	5.4			10 s		sw.	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	29.94	760.5	29.99	761.7	78	25.6	88	sw.	4	1.8		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.13	739.9	29.97	761.2	68.0	20.0	84	sw.	5	2.2			10 s		sw.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.09	738.9	29.90	759.4	65.0	18.3	90	e.	4	1.8		5 cs	2 k	sw.	sw.	0	0	fair	B. L. Goulding.
Cheyenne, Wyoming	24.12	612.6	29.99	761.7	37.2	2.9	82	nw.	6	2.7		0	0			0.04	1.0	clear	E. McGovern.
Chicago, Illinois	28.86	733.0	29.56	750.8	63.6	17.6	88	sw.	12	5.4			10 k		w.	0.02	0.5	cloudy	J. Mitchell.
Chincoteague, Virginia	29.99	761.7	30.01	762.2	63	17.2	84	s.	12	5.4		3 k	0	sw.		0	0	clear	V. P. Temple.
Cincinnati, Ohio	29.12	739.0	29.77	756.1	65	18.3	73	s.	3	1.3		9 cs	0	sw.		0	0	cloudy	R. B. Watkins.
Cleveland, Ohio	28.99	736.3	29.72	754.9	59.8	15.4	66	s.	10	4.5		4 cs	0			0	0	fair	J. B. Newlin.
Coleman City, Texas	28.12	714.2	29.90	759.4	59	15.0	100	nw.	7	3.1		6 cs	0			1.04	26.4	fair	L. Dorman.
Columbus, Ohio	28.91	734.3	29.75	755.6	60	15.6	75	s.	8	3.6			10 ks		sw.	0	0	cloudy	D. Cuthbertson.
Concho, Texas	27.94	709.7	29.84	757.9	59	15.0	87	nw.	8	3.6		0	0			0.47	11.9	clear	W. W. McConihe.
Davenport, Iowa	28.96	735.6	29.60	751.8	59	15.0	87	nw.	10	4.5			10 s		nw.	0.45	11.4	cloudy	R. R. Martin.
Dayton, Washington T'y	28.28	718.3	30.03	762.7	53	11.7	69	e.	4	1.8		7 c	0			0	0	fair	H. Clifford.
Deadwood, Dakota	25.42	645.7	29.92	760.0	42	5.6	86	n.	3	1.3		4 c	0	n.		0.18	4.6	fair	G. W. Scott.
Decatur, Texas					58	14.4	54	nw.	8	3.6		0	5 s		nw.	1.42	36.1	fair	D. J. Carr.
Delaware Breakwater, Del.	29.93	760.2	29.95	760.7	63	17.2	73	sw.	28	12.5		3 c;ck	hz.	w.		0	0	clear	A. Schneider.
Denison, Texas	29.01	736.8	29.80	756.9	62.0	16.7	87	nw.	6	2.7			10 s			0.90	22.9	cloudy	J. McGlone.
Denver, Colorado	24.83	630.7	29.99	761.7	50.5	10.3	66	sw.	2	0.9		0	0			0.03	0.8	clear	F. M. Neal.
Des Moines, Iowa	28.80	733.0	29.75	755.6	51	10.6	80	n.	14	6.3			10 s		n.	0.01	0.3	threatening	F. W. Conrad.
Detroit, Michigan	28.93	734.8	29.63	752.6	62.8	17.1	68	s.	20	8.9			10 n		calm	0.02	0.5	light rain	C. F. R. Wappenhans.
Dodge City, Kansas	27.38	695.4	29.93	760.2	50	10.0	93	n.	12	5.4		6 cs	0	n.		0	0	fair	E. A. Thomas.
Dubuque, Iowa	28.89	733.8	29.59	751.6	56.5	13.6	93	nw.	8	3.6			10 s		nw.	0.61	15.5	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.18	741.2	29.88	758.9	51	10.6	59	n.	12	5.4		0	0			2.36	59.9	clear	N. B. Conger.
Eagle Pass, Texas	29.07	738.4	29.87	758.7	67.0	19.4	84	e.	2	0.9			10 s		se.	0.04	1.0	cloudy	F. Belford.
Eagle Rock, Idaho	25.36	644.1	30.04	763.0	44	6.7	45	w.	4	1.8		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.80	756.9	29.87	758.7	55	12.8	69	sw.	3	1.3		10 cs	0			0	0	cloudy	J. H. Melton.
El Paso, Texas	26.23	666.2	29.87	758.7	59	15.0	56	e.	5	2.2		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.00	736.6	29.72	754.9	63	17.2	63	s.	13	5.8		10 cs	0			0	0	cloudy	R. H. Paxton.
Escanaba, Michigan	28.94	735.1	29.60	751.8	48	8.9	100	n.	26	11.6			10 n		n.	1.84	46.7	light rain	C. Dill.
Fort Apache, Arizona	25.00	635.0	29.82	757.4	42	5.6	48	e.	3	1.3		0	6 s		calm	inap.	inap.	fair	W. C. Barnes.
Fort Assinnaboine, Montana	27.15	689.6	29.99	761.7	50	10.0	80	sw.	9	4.0		1 c	0	w		inap.	inap.	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.45	722.6	30.01	762.2	47.0	8.3	93	nw.	2	0.9		3 k	2 s	nw.	nw.	inap.	inap.	fair	A. Pritchard.
Fort Benton, Montana	27.18	690.4	29.97	761.2	53	11.7	74	w.	5	2.2		0	1 s			0	0	clear	G. W. Davis.
Fort Buford, Dakota	27.98	710.7	29.96	761.0	50	10.0	66	s.	5	2.2		0	3 ks		calm	0	0	clear	A. H. Bell.
Fort Custer, Montana	26.85	682.0	29.95	760.7	51	10.6	93	se.	4	1.8		0	6 s		calm	0.05	1.3	fair	V. Verge.
Fort Davis, Texas	25.12	638.0	29.84	757.9	64	17.8	70	n.	8	3.6		0	0			0	0	clear	J. Williams.
Fort Elliott, Texas	27.18	690.4	29.88	758.9	52	11.1	61	nw.	8	3.6		0	0			inap.	inap.	clear	W. J. Cundall.
Fort Gibson, Indian T'y																			J. B. Campbell.
Fort Grant, Arizona	25.20	640.1	29.81	757.2	63	17.2	18	se.	2	0.9		3 c	0			0	0	clear	T. J. Macgowan.
Fort Keogh, Montana	27.47	697.7	29.92	760.0	50	10.0	74	sw.	2	0.9		9 cs	0	w.		inap.	inap.	cloudy	W. B. Stockman.
Fort Macon, North Carolina	30.04	763.0	30.05	763.3	72	22.2	82	s.	16	7.2		5 k;hz	0	sw;c		0	0	fair	L. Leonardy.
Fort McKavett, Texas	27.68	703.1	29.92	760.0	61	16.1	90	nw.	4	1.8		4 ck	0	sw.		0.91	23.1	fair	J. E. Thatcher.
Fort Missoula, Montana	26.80	680.7	30.10	764.5	49	9.4	80	se.	1	0.4		4 c	0			0	0	fair	J. H. Jones.
Fort St. Michaels, Alaska	29.80	756.9	29.84	757.9	33	0.6	100	se.	3	1.3			fg.			0	0	dense fog	A. P. Leavitt.
Fort Shaw, Montana	26.39	670.3	29.99	761.7	51	10.6	61	w.	10	4.5		0	0			0	0	clear	A. L. Mathews.
Fort Sill, Indian Territory	28.65	727.7	29.87	758.7	59.5	15.3	88	nw.	10	4.5		0	0			0.93	23.6	clear	T. Cleary.
Fort Stevenson, Dakota	28.08	713.2	29.92	760.0	49	9.4	66	ne.	3	1.3			10 ks			inap.	inap.	cloudy	W. Burrows
Fort Verde, Arizona					54.8	12.7	53	w.			1	0	0			0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.57	624.1			40.3	4.6	95	calm	0	0		2 k	0			0.05	1.3	clear	T. M. Ambler.
Fredericksburg, Texas	28.13	714.5	29.85	758.2	65	18.3	90	calm	0	0		5 cs	0			0.85	21.6	fair	H. S. Miles.
Galveston, Texas	29.79	756.7	29.84	757.9	67	19.4	100	ne.	20	8.9			10 n		sw.	0.81	20.6	light rain	E. O'C. MacInerney.
Grand Haven, Michigan	28.86	733.0	29.52	749.8	55.0	12.8	96	sw.	20	8.9			10 n		sw.	0.94	23.9	heavy rain	W. A. Reid.
Hatteras, North Carolina	30.04	763.0	30.06	763.5	71	21.7	71	s.	11	4.9		0	0			0	0	clear	R. M. Crawford.
Helena, Montana	25.86	656.8	30.03	762.7	55	12.8	53	sw.	2	0.9		0	0			0.01	0.3	clear	S. Wheaton.
Henrietta, Texas	28.91	734.3	29.89	759.2	59.0	15.0	100	n.	5	2.2		0	3 s			0.63	16.0	fair	J. W. Byram.
Huron, Dakota	28.59	726.2	29.94	760.5	49	9.4	71	n.	7	3.1		0	1 k		n.	0.02	0.5	clear	S. W. Glenn.
Indianapolis, Indiana	28.90	734.0	29.70	754.4	64	17.8	78	s.	7	3.1		4 cs	3 ks	w.	sw.	0	0	fair	O. Schulze
Indianola, Texas	29.85	758.2	29.88	758.9	67.4	19.7	100	n.	12	5.4			10 n		n.	0.72	18.3	light rain	I. A. Reed.
Jacksboro, Texas	28.71	729.2	29.86	758.4	63	17.2	93	nw.	6	2.7			10 s		n.	1.17	29.7	cloudy	J. P. Sherry.
Jacksonville, Florida	29.97	761.2	30.01	762.2	77	25.0	85	s.	2	0.9		5 cs	0	w.		0	0	fair	J. W. Smith.
Keokuk, Iowa	28.98	736.1	29.63	752.6	59.5	15.3	87	nw.	7	3.1			10 s		nw.	0.38	9.7	cloudy	F. Z. Gosewisch.
Key West, Florida	30.00	762.0	30.02	762.5	83.0	28.3	77	se.	5	2.2		6 c	hz.			0	0	fair	L. M. Melbourne.
Kittyhawk, North Carolina	30.05	763.3	30.07	763.8	75.5	24.2	50	sw.	16	7.2		3 c;hz	0			0	0	clear	E. A. Beals.
Knoxville, Tennessee	28.90	734.0	29.92	760.0	67	19.4	81	ne.	3	1.3		3 k	0	s.		0	0	clear	J. A. Cody.
La Crosse, Wisconsin	28.90	734.0	29.66	753.4	51	10.6	72	n.	20	8.9			10 s		n.	1.04	26.4	cloudy	S. C. Emery.
La Mesilla, New Mexico	26.05	661.7	29.81	757.2	56.5	13.6	52	calm	0	0		3 ck	2 s	w.		0	0	fair	N. D. Lane.
Leavenworth, Kansas	28.90	734.0	29.78	756.4	55	12.8	80	nw.	8	3.6			10 ks		n.	0.06	1.5	cloudy	A. W. Browne.
Lewiston, Idaho	29.24	742.7	30.08	764.0	54.1	12.3	80	calm	0	0		0	8 s			0	0	cloudy	J. M. Burlew.
Little Rock, Arkansas	29.35	745.5	29.66	753.4	69	20.6	93	nw.	4	1.8			10 s		sw.	0.51	13.0	cloudy	W. U. Simmons.
Los Angeles, California	29.57	751.1	29.97	761.2	57.1	13.9	93	se.	2	0.9			fg.		calm	0	0	light fog	E. F. Kubel.
Louisville, Kentucky	29.17	740.9	29.74	754.9	67	19.4	73	s.	3	1.3			16 s;k			0	0	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.29	744.0	29.97	761.2	66.3	19.1	72	s.	4	1.8		0	9 ks		w.	0	0	cloudy	W. R. Bushby.
Madison, Wisconsin	28.55	725.2	29.55	750.6	57	13.9	93	nw.	11	4.9			10 s		nw.	0.69	17.5	cloudy	C. A. Shaw.
Marquette, Michigan	28.99	736.3	29.71	754.6	41	5.0	100	n.	12	5.4			10 n		calm	1.73	43.9	light rain	J. Gilligan.
Memphis, Tennessee	29.34	745.2	29.66	753.4	73	22.8	82	se.	8	3.6			10 s		se.	0	0	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	28.76	730.5	29.50	749.3	60	15.6	93	sw.	11	4.9			10 n		w.	0.27	6.9	light rain	W. Line.
Mobile, Alabama	29.82	757.4	29.86	758.4	79.5	26.4	82	s.	8	3.6			10 s		sw.	0	0	cloudy	J. D. Paxton.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Montgomery, Alabama	29.66	753.4	29.89	759.2	74.7	23.7	85	se.	4	1.8			10 s		s.	0	0	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	28.98	736.1	29.96	761.0	50	10.0	77	calm	0	0		0	0			0.03	0.8	clear	H. Bessant.
Morgantown, W. Virginia	28.84	732.5	29.85	758.2	67.0	19.4	78	calm	0	0		0	2 k			0	0	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.67	601.2	29.85	758.2	34.0	1.1	92	nw.	43	19.2		3 cs	sk.	nw.	nw.	0	0	clear	J. G. Linsley
Nashville, Tennessee	29.25	742.9	29.78	756.4	66.5	19.2	81	se.	3	1.3		5 cs	5 ks	sw.	sw.	0	0	cloudy	L. A. Jesunofsky.
New Haven, Connecticut	29.81	757.2	29.93	760.2	60	15.6	70	sw.	4	1.8		1 c	hz.			0	0	clear	J. H. Sherman.
New London, Connecticut	29.89	759.2	29.94	760.5	64	17.8	68	s.	5	2.2		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.76	755.9	29.81	757.2	78.7	25.9	92	s.	15	6.7			10 s		s.	0	0	threatening	L. Dunne.
Newport, Rhode Island	29.90	759.4	29.95	760.7	57.6	14.2	73	sw.	9	4.0		4 c	0	calm		0	0	fair	W. McGillivray.
New River, N. Carolina					74	23.3	77	s.			2	1 c	2 s	w.		0	0	clear	C. C. Corbin.
New Shoreham, Rhode I'd	29.92	760.0	29.95	760.7	57.2	14.0	80	sw.	16	7.2		0	hz.			0	0	clear	W. Davis.
New York, New York	29.77	756.1	29.95	760.7	59	15.0	81	sw.	7	3.1		5 ck	2 s	w.		0	0	fair	E. B. Garriott.
Norfolk, Virginia	30.00	762.0	30.03	762.7	70	21.1	70	sw.	12	5.4		0	0			0	0	clear	J. T. Elker.
North Platte, Nebraska	27.09	688.1	29.96	761.0	51.6	10.9	84	n.	8	3.6		0	5 s		n.	0	0	fair	E. F. Brady.
Olympia, Washington T'y	30.03	762.7	30.07	763.8	53.0	11.7	86	calm	0	0		8 ck	0	w.		0	0	cloudy	J. Dascomb.
Omaha, Nebraska	28.71	729.2	29.87	758.7	52.0	11.1	80	n.	11	4.9			10 s		n.	0	0	cloudy	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	29.85	758.2	29.86	758.4	25.4	— 3.7	100	e.	12	5.4			fg.			inap.	inap.	foggy	P. H. Ray.
Oswego, New York	29.46	748.3	29.78	756.4	60.5	15.8	68	s.	6	2.7		5 cs	hz.	w.		0	0	fair	S. W. Beall.
Palestine, Texas	29.27	743.4	29.82	757.4	64.0	17.8	93	n.	12	5.4			10 s		w.	0.92	23.4	cloudy	L. M. Pindell.
Pensacola, Florida	29.86	758.4	29.89	759.2	79.1	26.2	91	s.	14	6.3			10 s		s.	0.01	0.3	cloudy	M. McGauran.
Philadelphia, Pa.	29.84	757.9	29.94	760.5	64	17.8	68	sw.	8	3.6		0	hz.			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.78	451.6	29.84	757.9	14	—10.0	76	nw.	12	5.4		0	0			1.25	31.7	clear	L. M. Dey.
Pioche, Nevada	24.10	612.1	30.02	762.5	47.2	8.4	42	calm	0	0		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	28.99	736.3	29.80	756.9	63.0	17.2	65	s.	10	4.5		0	0			0	0	clear	J. H. Bryce.
Poplar River, Montana	27.79	705.9						sw.			1	0	0			0	0	clear	U. D. Maxwell.
Port Eads, Louisiana	29.80	756.9	29.81	757.2	78.0	25.6	88	s.	22	9.8			10 s			0	0	cloudy	H. G. Christian.
Port Huron, Michigan	28.93	734.8	29.61	752.1	55.0	12.8	95	s.	9	4.0			10 n			0.26	6.6	light rain	W. O. Bailey.
Portland, Maine	29.82	757.4	29.87	758.7	59.0	15.0	65	s.	2	0.9			10s;hz		sw;c	0	0	cloudy	D. C. Murphy.
Portland, Oregon	29.94	760.5	30.01	762.2	55.0	12.8	86	calm	0	0		0	0			0	0	clear	M. L. Hearne.
Portsmouth, N. Carolina					70	21 1	76	s.	10	4.5		10 c	0	sw.		0	0	cloudy	F. P. Chaffee.
Prescott, Arizona	24.77	629.1	29.87	758.7	43	6.1	24	s.	3	1.3		0	0			inap.	inap	clear	J. Mc N. Wright.
Provincetown, Mass.	29.90	759.4	29.94	760.5	58	14.4	80	s.	11	4.9		2 cs	2 s	sw.		0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	29.99	761.7	30.00	762.0	79.5	26.4	85	se.	10	4.5		10 ck	0	w.		0.03	0.8	cloudy	W. J. Evans.
Red Bluff, California	29.44	747.8	29.81	757.2	69.3	20.7	40	n.	3	1.3		1 c	0	nw.		0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.59	751.6	29.83	757.7	76	24.4	90	calm	0	0			10 s		calm	0	0	cloudy	P. M. Wilson.
Rochester, New York	29.10	739.1	29.76	755.9	58	14.4	64	sw.	11	4.9		10 cs	sk.	nw.		0	0	cloudy	F. Gillam.
Roseburg, Oregon	29.46	748.3	30.01	762.2	53	11.7	86	calm	0	0		2 c	0	w.		0	0	clear	J. J. Nanry.
Sacramento, California	29.71	754.6	29.79	756.7	64.4	18.0	68	se.	4	1.8		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.09	738.9	29.68	753.9	64.0	17.8	100	s.	8	3.6			10 n		w.	inap.	inap.	light rain	J. H. Webber.
St. Paul, Minnesota	28.95	735.3	29.80	756.9	48.0	8.9	63	n.	15	6.7		1 k	0	e.		0.01	0.3	clear	P. F. Lyons.
St. Vincent, Minnesota	29.08	738.6	29.94	760.5	41	5.0	93	w.	3	1.3		0	0			0.06	1.5	clear	G. Kingsbury.
Salt Lake City, Utah	25.70	652.8	30.02	762.5	49	9.4	38	calm	0	0		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.13	739.9	29.83	757.7	64	17.8	100	n.	1	0.4		4 k	5 ks	calm	calm	2.32	58.9	cloudy	E. Lane.
San Diego, California	29.80	756.9	29.87	758.7	60.3	15.7	80	n.	4	1.8			10 s		n.	inap.	inap.	cloudy	A. C. Dobbins.
Sandusky, Ohio	28.99	736.3	29.66	753.4	62.3	16.8	73	se.	15	6.7			10 s		sw.	0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.90	759.4	29.94	760.5	65.3	18.5	68	sw.	12	5.4		3 k	0	nw.		0	0	clear	B. A. Blundon.
San Francisco, California	29.80	750.9	29.87	758.7	51.5	10.8	96	w.	14	6.3			fg.			0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.27	591.0	29.88	758.9	39	3.9	79	ne.	5	2.2		0	0			0.02	0.5	clear	H. U. Jones.
Savannah, Georgia	29.92	760.0	30.01	762.2	80	26.7	82	s.	5	2.2		2 c	3 k	n.	s.	0	0	fair	H. W. Ford.
Shreveport, Louisiana	29.47	748.5	29.71	754.6	66	18.9	93	w.	3	1.3			10 n		w.	0.45	11.4	light rain	E. N. Meekins.
Silver City, New Mexico	24.26	616.2	29.82	757.4	54	12.2	55	n.	8	3.6		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	29.78	756.4	29.84	757.9	47.1	8.4	77	calm	0	0			10 s		calm	0.04	1.0	cloudy	J. J. McLean.
Smithville, North Carolina	30.00	762.0	30.04	763.0	75	23.9	76	s.	16	7.2		5 ck	0	w.		0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	28.00	711.2	30.05	763.3	54	12.2	80	calm	0	0		10 c	0			0	0	cloudy	D. Moore.
Springfield, Illinois	28.97	735.8	29.64	752.8	65	18.3	87	sw.	4	1.8			10 s		w.	0.12	3.0	cloudy	T. B. Jennings.
Springfield, Massachusetts	29.78	756.4	29.90	759.4	64.2	17.9	63	s.	4	1.8		3 c	hz			0	0	clear	T. S. Outram.
Springfield, Mo.	28.33	719.6	29.81	757.2	62	16.7	90	nw.	7	3.1			10 s		nw.	0.01	0.3	cloudy	J. B. Marbury.
Starkville, Miss.	29.33	745.0			75	23.9	90	se.	12	5.4			10 s		se.	0	0	cloudy	M. J. Wright.
Stockton, Texas	26.97	685.0	29.98	761.5	55.0	12.8	100	nw.	4	1.8		0	1 s		calm	0.16	4.1	clear	J. O'Dowd.
Thatcher's Island, Mass.	29.85	758.2	29.90	759.4	53.0	11.7	86	sw.	10	4.5		8 cs	0			0	0	cloudy	F. R. Day.
Toledo, Ohio	28.96	735.6	29.64	752.8	64	17.8	68	sw.	13	5.8		5 c;cs	4 s	sw.	sw.	0	0	threatening	A. Buell.
Tucson, Arizona	27.45	697.2	29.79	756.7	66	18.9	44	s.	4	1.8		0	2 ks			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.66	753.4	30.03	762.7	57.5	14.2	54	calm	0	0		5 c	0			0	0	fair	J. Daly.
Uvalde, Texas	28.87	733.3	29.82	757.4	65	18.3	100	ne.	2	0.9		3 cs	7 s	sw.		1.23	31.2	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.55	750.6	29.80	756.9	71	21.7	90	w.	16	7.2			10 n			0.77	19.6	heavy rain	H. T. Brisbane.
Visalia, California	29.42	747.3	29.79	756.7	65	18.3	68	e.	2	0.9		0	0			0	0	clear	W. L. Seward.
Washington, D. C.	29.83	757.7	29.94	760.5	66.5	19.2	70	s.	8	3.6		1 k	0	s.		0	0	clear	B. M. Purssell.
West Las Animas, Colorado	26.11	663.2	29.97	761.2	50.5	10.3	78	n.	5	2.2		0	3 s		w.	0.08	2.0	clear	J. Grover.
Williamsport, Pa.	29.27	743.4	29.87	758.7	55	12.8	74	calm	0	0			fg.			0	0	dense fog	B. F. Hough.
Wilmington, N. Carolina	29.98	761.5	30.03	762.7	73	22.8	82	s.	8	3.6		2 cs	0	s.		0	0	clear	A. T. Sherwood.
Winnemucca, Nevada	25.69	652.5	30.04	763.0	51	10.6	43	ne.	9	4.0		0	0			0	0	clear	J. R. Williams.
Yankton, Dakota	28.64	727.4	29.92	760.0	48	8.9	71	n.	6	2.7		0	0			0	0	clear	J. H. Atfield.
Yuma, Arizona	29.61	752.1	29.76	755.9	67.8	19.9	53	calm	0	0		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8			53.0	11 7	66	e.	1	0.4		3 c	4 ks			0	0	fair	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.02	762 5	30.02	762.5	83	28.3	91	e.				5 k	5 ks	e.		0	0	cloudy	J. A. Racker.
Buenaventura, U. S. C.	29.97	761.2	30.00	762.0	77	25.0	95	calm	0	0			10 n		calm	1.35	34.3	raining	J. I. Plume.
Havana, Cuba, W. I.	29.99	761.7	30.04	763.0	81	27.2	79	se.	1.2	0.5		2 cs	0	calm		0	0	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.04	763.0	30.05	763.3	81.9	27.7	70	n.	1	0.4		1 c	0			0	0	fine	Robert Johnston.
Magua, San Domingo, W. I.					73	22.8		calm			0	0	0			0.02	0.5		S. M. Pike.
Navassa, W. I.																			F. M. Everett.
Paramaribo, S. A.	30.02	762.5	30.02	762.5	77	25.0	86	e.			2	4 ck	4 k	e.		0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.46	748.3	29.92	760.0	80	26.7	89	n.			1		9 n		n.	0.18	4.6	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							93	ne.			2	cs	0	ne.		0.02	0.5	clear	Earl Flint.
Santiago de Cuba, W. I.	30.02	762.5	30.05	763.3	81	27.2	74	calm	0	0		7 c	1 ks			0	0	cloudy	Robert Mason.
York Factory, B. A.	30.11	764.8	30.16	766.1	31.0	— 0.6	95	ne.	13	5.8		2 k	2 s	ne.	ne.	0	0	fair	W. Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
British Naval.																		
H. M. S. Alexandra, Suda Bay, Turkey in Europe	30.02	762.5	73	22.8	63	nw.			1		3							d. clouds.
H. M. S. Amethyst, S. 7° 21′, W. 29° 54′	29.94	760.5	80	26.7	95	e.			4		1	e.				2	ese.	blue sky.
H. M. S. Champion, Honolulu, Sandwich Islands			75	23.9	95	e.			2		2					2	se.	d. clouds.
H. M. S. Comus, N. 16° 28′, E. 113° 27′	29.76	755.9	82.5	28.1	?	calm			0		3	e.				4	con.	d. clouds.
H. M. S. Diamond, S 25° 35′, E. 163° 00′	29.94	760.5	71.5	21.9	90	n.			2-3		2	n.				1	n.	d. clouds.
H. M. S. Dido, N. 13° 05′, W. 59° 30′	30.02	762.5	80	26.7		ene.			3-5		5	e.						squally.
H. M. Dock-Yard, Bermuda, W. I.	29.95	760.7	70	21.1	90	n.			2-3		8	n.						d. clouds.
H. M. S. Druid, N. 19° 02′, W. 80° 26′	30.00	762.0	81.5	27.5	89	ese.			2		4	ese.				4	ese.	d. clouds.
H. M. S. Dwarf, S. 25° 32′, W. 57° 40′	29.64	752.8	69.5	20.8	95	ne.			3-4		9					3	n.	squally.
H. M. S. Eclipse, S. 17° 00′, E. 40° 58′	29.96	761.0	79	26.1		w.			1-2		2					1	ssw.	d. clouds.
H. M. S. Emerald, S. 53° 50′, W. 102° 30′	29.02	737.1	45	7.2	100	nne.			8-9							7		raining.
H. M. S. Espiegle, S. 29° 36′ E. 167° 52′	29.99	761.7	68	20.0	79	nw.			5		8	nnw.				2	n.	d. clouds.
H. M. S. Euryalus, Bombay, India	29.74	755.4	84	28.9	?	sse.			5-6		9	se.						squally.
H. M. S. Fantome, Cartagena, Granadian Conf. S. A.	29.85	758.2	84	28.9		calm			0		1	calm						blue sky.
H. M. S. Flying Fish, N. 37° 27′, E. 126° 33′	29.83	757.7	63	17.2	83	w.			1		5							d. clouds.
H. M. S. Fawn, S. 13° 14′, E. 61° 36′	29.84	757.9	78.5	25.8	78	e.			2		3	e.				3	e.	d. clouds.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	29.97	761.2	55	12.8	83	ne.			1		10	w.						misty.
H. M. S. Inconstant, Saint Helena Island, Africa	30.16	766.1	73	22.8	83	sse.			3		7	ese.						d. clouds.
H. M. S. Iron Duke, N. 32° 31′ E. 134° 20′	29.75	755.6	67	19.4	94	e.			6-8		6	e.				7	e.	d. clouds.
H. M. S. Kingfisher, Taboga Island, Pearl Islands, S. A	29.87	758.7	81	27.2		calm			0		5	calm						d. clouds.
H. M. S. Lark, S. 9° 30′, E. 157° 48′	29.87	758.7	78.3	25.7		ene.			5		10					3	se.	thnd'rstorm.
H. M. S. Magpie, N. 35° 26′, E. 139° 33′	29.97	761.2	65.8	18.8	82	ssw.			1-2		10							d. clouds.
H. M. S. Northampton, Halifax, Nova Scotia	29.82	757.4	54	12.2	83	wnw			1		0							misty.
H. M. S. Orontes, N. 30° 50′, W. 43° 00′	30.34	770.6	74.5	23.6	97	ssw.			2		1					2	sse.	blue sky.
H. M. S. Pegasus, N. 4° 35′, E. 103° 40′	29.84	757.9	83.5	28.6	85	sse.			2		3	s.				1	s.	d. clouds.
H. M. S. Phœnix, N. 18° 25′, W. 77° 08′	30.00	762.0	83	28.3	87	ese.			1		1					1	e.	blue sky.
H. M. S. Rambler, Loango, Lower Guinea	29.93	760.2	76	24.4	95	s.			3		2					3	ssw.	d. clouds.
H. M. S. Rocket, N. 48° 27′, W. 123° 27′	30.06	763.5	51	10.6	?	calm			0		0							blue sky.
H. M. S. Sylvia, N. 1° 40′, W. 26° 00′	30.02	762.5	80.5	26.9	74	se.			3		3	sse.				2	ese.	d. clouds.
H. M. S. Swiftsure, Funchal, Maderia	30.10	764.5	64	17.8	78	wnw.			4		3	wsw.				3	wsw.	d. clouds.
H. M. S. Tenedos, N. 47° 34′ W. 52° 41′	29.84	757.9	53	11.7	66	ssw.			2		5							d. clouds.
H. M. S. Triumph, Coquimbo, Chili	29.97	761.2	55	12.8	93	calm			0		10	calm						foggy.
H. M. S. Woodlark, Ras Gomelet, Arabia	29.62	752.3	79.5	26.4	82	s.			6-7		2	s.				5	s.	misty.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verd Islands	30.04	762.9	82.9	28.3	71	ne.			1							1		d. clouds.
Tamega, Macao, China	29.84	757.8	78.8	26.0	84	e.			2		1							blue sky.
United States Naval.																		
Navy Yard, Pensacola, Fla.	29.83	757.7	79	26.1	95	s.	21	9.4			8		sw.	0	0			fair.
N. Yard, Portsmouth, N. H.	29.88	758.9	59	15.0	70	calm	0	0			8		sw.	0	0			cloudy.
Naval Hospital, Yokohama, Japan	29.86	758.4	64.5	18.1	89	s.			4		10		s.	0	0			overcast.
Adams, Mare Island, Cal.	29.59	751.6	57	13.9	87	sw.			2		0					sm'h		clear.
Alaska, Callao, Peru	29.95	760.7	60	15.6	94	calm			0		10			0	0	sm'h		cloudy.
Alert, Kobe, Japan*	29.81	757.2	68	20.0	84	calm			0		10		calm					raining.
Alliance, Hampton Roads, Va.	30.04	763.0	68	20.0	84	s.			3		2			0	0	sm'h		clear.
Ashuelot, Kobe, Japan	29.90	759.4	66	18.9	100	nw.			1		10		sw.					raining.
Brooklyn, S. 23° 07′, W. 43° 11′	30.00	762.0	74	23.3	90	ne.	8	3.6			8		ne.	0	0	mod.	nnw.	fair.
Colorado, New York, N. Y.	29.92	760.0	63	17.2	67	ssw.	9	4.0			8		sw.	0	0			fair.
Enterprise, Hampton Roads, Va*	30.00	762.0	67	19.4	84	ssw.			3		0					sm'h		clear.
Essex, Montevideo, Uruguay	30.05	763.3	55	12.8	56	ne.			2		2		nw.			mod.		clear.
Franklin, Norfolk, Va.	30.04	763.0	67	19.4	74	ssw.	16	7.2			2		sw.	0	0			clear.
Galena, N. 36° 07′, W. 4° 15′	29.98	761.5	68	20.0	100	ene.			3		8		ne.			mod.	ene.	fair.
Independence, Mare Island, Cal.	29.71	754.6	54	12.2	93	sw.			4		0			0	0			hazy.
Iroquois, San Francisco, Cal.	29.83	757.7	52	11.1	93	wsw.			3		10							foggy.
Kearsarge, Hampton Roads, Va.	30.03	762.7	66	18.9	94	ssw.			4		2		sw.			sm'h		fair.
Lackawana, Panama Bay, Panama*	29.86	758.4	81	27.2	83	nw.			2		2		w.	0	0			clear.
Lancaster, Lisbon, Portugal*	29.92	760.0	70	21.1	80	w.			1		8		w.	0	0			fair.
Marion, S. 34° 54′, W. 56° 13′	29.97	761.2	50	10.0	86	nne.			1					0	0	long	s.	dense haze.
Michigan, Erie, Pa.	29.65	753.1	64	17.8	100	s.			3		0							clear.
Minnesota, Newport, R. I.	29.91	759.7	59	15.0	88	sw.	8	3.6			2		sw.					clear.
Monocacy, Nagasaki, Japan	29.81	757.2	68	20.0	84	n.			2		5		calm					fair.
New Hampshire, Newport, R. I.	29.91	759.7	58	14.4	100	sw.			3		2		n.			sm'h		clear.
Nipsic, Gibraltar, Mediterranean	29.94	760.5	72	22.2	76	sw.			1		10					sm'h		cloudy.
Onward, Callao, Peru†	30.10	764.5	60	15.6	94	sse			1		10		n.			long	w.	misty.
Palos, Kobe, Japan	29.94	760.5	64	17.8	100	ne.			1		10		ne.					rainy.
Passaic, Washington, D. C.	29.98	761.5	66	18.9	84	s.			3		10		s.					fair.
Pensacola, S. 12° 05′, W. 78° 12′	29.99	761.7	63	17.2	89	ese.			3		10		ese.	0	0	long	ese.	cloudy.
Portsmouth, Portsmouth, Eng*†	30.47	773.9	64	17.8	94	e.			3		5?					sm'h		clear.?
Powhatan, Norfolk, Va.	30.04	763.0	67	19.4	84	ssw.			1		0							clear.
Quinnebaug, Santa Cruz, Teneriffe Island	30.11	764.8	71	21.7	57	nnw.			3		0					sm'h		clear.
Ranger, N. 24° 15′, W. 109° 43′*	29.78	756.4	74	23.3	81	ene.			2		10		calm	0	0	sm'h		overcast.
Richmond, Kobe, Japan*	29.88	758.9	67	19.4	95	nw.			1		0			0.01	0.3			raining.
Saratoga, Cowes, Eng.	30.25	768.3	61	16.1	66	e.			2		2		e.	0	0	sm'h		clear.
St. Louis, League Island, Pa.	30.17	766.3	64	17.8	68	s.	15	6.7			10?			0	0			clear?
Swatara, Shanghai, China*	29.80	756.9	69	20.6	75	ese.			2		8		e.			sm'h		fair.
Tennessee, Fort Monroe, Va.	30.07	763.8	67	19.4	84	ssw.	12	5.4			2			0	0	sm'h		fair.
Vandalia, Norfolk, Va*†	30.23	767.8	71	21.7	80	w.			2		2		calm					clear.
Wabash, Boston, Mass.	29.92	760.0	61	16.1	88	wsw.	3	1.3			2		w.	0	0			fair.
Wachusetts, Fort Wrangle, Alaska	29.79	756.7	45	7.2	100	e.			1		10					sm'h		overcast.
Wyoming, Port Royal, S. C.	29.99	761.7	78	25.6	82	sse.	6	2.7			5		sw.	0	0			fair.
Yantic, Fort Monroe, Va*	30.00	762.0	67	19.4	84	sse.			3		0							hazy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 47° 00′, W. 51° 00′*	29.88	758.9	39	3.9	91	ssw.			3		2		sw.	0	0	3	s	misty.
S. S. Prussian, Baltimore, Md.*	29.77	756.1	72	22.2		s.			3		1		s.	0	0			clear.
S. S. Scandinavian, N. 48° 31′, W. 33° 10′*	29.87	758.7	50	10.0		n.			4		10		n.	0	0	mod.	n.	overcast.
S. S. Waldensian, N. 50° 40′, W. 29° 54′*	29.94	760.5	58	14.4		var.			4		2?		s.	0	0	light	ne.	cloudy.?
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, Liverpool, Eng	30.34	770.6	63	17.2	94	wnw.			1		5		w.					
S. S. Indiana, Philadelphia, Pa†	30.04	763.0	62	16.7	94	sw.			2		2		sw.	0	0			fair.
S. S. Lord Clive, Off Ormes Head, Wales*	30.16	766.1				nnw.			1		0			0	0			fine.
S. S. Ohio, Liverpool, Eng†	30.35	770.9	65	18.3	94	w.			2		5							hazy.
ANCHOR LINE.																		
S. S. Devonia, N. 49° 52′, W. 33° 45′†	30.07	763.8	51	10.6		n.			2		9		n.			mod.	w.	hazy.
S. S. India, N. 29° 17′, E. 32° 42′*	29.80	756.9	80	26.7	87	nne.			1		0					sm'h		clear.
S. S. Utopia, N. 41° 35′, E. 3° 15′†	30.24	768.1	68	20.0	94	ene.			2		10		ese.	0	0	mod.		cloudy.
ATLAS LINE.																		
S. S. Ailsa, N. 33° 10′, W. 74° 02′†	30.08	764.0	72	22.2	63	var.			1		5		sw.	0	0	sm'h		fair.
S. S. Alvena, N. 22° 05′, W. 74° 10′†	29.94	760.5	80	26.7		calm			0		0			1 h'r	1 h'r	sm'h		fine.
S. S. Alvo, Savanilla, U. S. C.	29.90	759.4	107?	41.7?		nne.			3		0			0	0		ssw.	
S. S. Athos, N. 35° 20′, W. 74° 15′						ssw.			4		8		sw.	mist	mist	r'gh	sw.	cloudy.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S 41° 22′, E. 28° 05′	30.06	763.5	57.5	14.2	76	ne.			5		9							d. clouds.
British Merchant, S. 9° 10′, W. 12° 53′	30.06	763.5	78.2	25.7	73	e.			4		7							d. clouds.
S. S. Cipero, N. 47° 33′, W. 16° 18′	30.10	764.5	59.3	15.2	81	se.			5		4							d. clouds.
Bk. Commewyne, N. 19° 11′, W. 34° 43′	30.17	766.3	75	23.9	76	ne.			4		10							misty.
Bk Coppename, N. 6° 25′, W 51° 00′	29.99	761.7	81	27.2	80	e.			4		7							d. clouds.
S. S. Glencairn, S. 33° 00′, E. 14° 52′	29.76	755.9	59.5	15.3	82	nw.			6–7		9							showery.
S. S. Gordon Castle, N. 25° 39′, E. 120° 15′	29.85	758.2	73	22.8	81	e.			2		2							d. clouds.
Bkt. Hope, N. 42° 12′ W. 32° 27′	30.03	762.7	57.6	14.2	76	wnw.			6		10							overcast.
S. S. May Hulse, S. 43° 48′, W. 83° 20′	29.42	747.3	49.7	9.8	78	sse.			8		9							raining.
S. S. Minho, Montevideo, Uraguay	30.02	762.5	48.8	9.3	77	e.			4		7							d. clouds.
S. S. Pole Star, S. 48° 04′ W. 50° 47′	29.13	739.9	44.9	7.2	92	ese.			6		6							blue sky.
CROMWELL LINE.																		
S. S. Hudson, N. 29° 04′, W. 80° 15′†	30.08	764.0	78	25.6		s.			4		2		s.	0	0	mod.	se.	fair.
CUNARD LINE.																		
S. S Gallia, N. 48° 05′ W. 33° 06′	29.95	760.7	56	13.3	87	n.			5		10		nne.	0	0	sm'h		misty.
S. S. Scythia, N. 48° 00′, W. 29° 33′	29.97	761.2	60	15.6	94	e.			1		0			2 h'r	2 h'r	sli't	nw.	clear.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. France, N. 47° 34′, W. 30° 07′†	29.87	758.7	60.8	16.0		se.			2				ese.	0	0		s.	clear.
S. S. St. Germain, N. 45° 32′, W. 34° 05′	30.11	764.7	57.2	14.0		nnw.			3				nnw.	0	0	sm'h	ne	clear.
GUION LINE.																		
S. S. Arizona, N. 47° 42′ W. 36° 09′	30.04	763.0	50	10.0		nw.			2		7		w.	0	0	mod.	wnw.	
S. S. Wisconsin, N. 49° 55′ W. 22° 30′*†	30.14	765.5	54	12.2		se.			3		1		se.	2 h'r	2 h'r	sm'h	sse.	clear.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S Bohemia, Hamburg, Germany *†	30.22	767.6				nnw.			4		2		n.	0	0			fine.
S. S. Lessing, N. 44° 17′, W. 38° 23′	29.95	760.8	58	14.4		se.			5		10			rain	rain	sm'h	se.	covered.
S. S. Silesia, N. 41° 57′, W. 55° 26′†	30.19	766.8	55	12.8		sw.			5		0			0	0	3	ssw.	fair.?
INMAN LINE.																		
S. S. City of New York, N. 45° 30′, W. 39° 49′	30.15	765.8				sse.			6		8		sse.	2 h'r	2 h'r	cross	e.	hazy
JOHNSTON LINE.																		
S. S. Thanemore, N. 40° 56′ W. 53° 01′	30.11	764.8				nne.			1		5		wsw.	0	0	sli't		fair.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, N. 23° —′ W 23° —′*†	30.32	770.1	75	23.9		ne.			4		6?		ne.	0	0	long	nne.	clear.?
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 23° 12′, W. 68° 38′†	30.15	765.8	86	30.0	79	e.			3		0			0	0	sm'h		clear.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, N. 23° 13′, W. 59° 12′	29.83	757.7				se.			4				se.	0	0	mod.	se.	clear.
S. S. Glenapp, Santos River, Brazil*†	30.00	762.0				var.			2		9		calm	6 h'r	6 h'r			raining.
NATIONAL LINE.																		
S. S. Canada, N. 43° 24′, W. 39° 06′.	29.91	759.7	58	14.4		se.			4		10		s.	rain	rain	mod.	s.	rainy.
S. S. Denmark, N. 40° 26′ W. 73° 58′	29.97	761.2	59	15.0		sw.			3		5		sw.	0	0			fine.
S. S. England, N. 43° 08′, W. 43° 18′	29.88	758.9				sw.			6		8		sw.	0	0	high	sw.	cloudy.
S. S. Erin, Liverpool, Eng	30.29	769.4	70	21.1		nw.			4		6		nw.	0	0			hazy.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, Cienfuegos, Cuba, W. I.†	30.10	764.5	80	26.7		ne.			1		0			0	0			hazy.
S. S. Saratoga N. 24° 00′. W. 81° 14′†	30.28	769.1	84	28.9	75	ne.			2		0			2 h'r	2 h'r			clear.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S City of Alexandria, New York, N. Y*†	29.98	761.5	61	16.1	82	sw.			3		6		s.	0	0			misty.
S. S. City of Puebla, N. 22° 00′ W. 87° 24′†	29.83	757.7	83	28.3		se.			3		2		ese.			mod.	ese.	
S. S. City of Washington, N 23° 00′ W. 84° 47′*†	30.12	765.0	84	28.9		se.			5		1		se.	0	0	sm'h		clear.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Lepanto, N. 43° 02′, W. 46° 53′*	30.06	763.5	51	10.6		wnw.			6								ese.	overcast.
S. S. P. Caland, N. 48° 56′, W. 17° 46′	30.15	765.8	60.8	16.0		nne.			4							2	se.	fine.
NORTH GERMAN LLOYD.																		
S. S. Elbe, N. 49° 40′ W. 18° 40′	30.17	766.2	53.6	12.0	94	e.			4		5?		e.	0	0	high	e.	cloudy ?
S. S. Graf Bismarck, N. 11° 20′, W 26° 15′	30.08	764.0	77.9	25.5		ne.			3		5		ne.	0	0	mod.	ne.	hazy.
S. S. Hohenzollern, N. 41° 20′, W. 44° 30′*	29.99	761.7	55.4	13.0		nnw.			5		4		nw.	0	0	mod.	nw.	fai..
S. S. Main, N. 49° 52′, W. 9° 30′	30.22	767.6	59.0	15.0		ne.			3–4		5		ene.	0	0	mod.	ne.	fine.
S. S. Mosel, N. 42° 45′, W. 55° 25′	30.13	765.3	51	10.6		wsw.			3		3		wsw.	0	0	sm'h		clear.
S. S. Neckar, N. 50° 40′, W. 0° 32′	30.24	768.1	60.8	16.0		e.			1		1		e.	0	0	sm'h	e.	clear.
S. S. Ohio, Staten Island, N. Y	29.92	760.0				ssw.			2		0			0	0			clear.
S. S. Rhein, N. 40° 47′, W. 49° 17′	30.06	763.5				n.			3		4		nne.			mod.	ne.	cloudy.
S. S. Salier, Bremerhaven, Germany	30.21	767.3	68.9	20.5		nnw.			2		2		nnw.	0	0			fair.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 36° 46′ W. 162° 40′*†	30.17	766.3	58	14.4	94	var.			2		5		wnw.	sh'rs	sh'rs	mod.	wnw.	squally.
S. S. Belgic Hong Kong, China†	29.95	760.7	77	25.0	76	se.			1		2		s.	0	0	sm'h		clear.
S. S. Gaelic, N. 22° 25′ E. 115° 20′ †	29.82	757.4	78	25.6	82	se.			4		2		se.			sm'h	se.	clear
S. S. Oceanic, San Francisco, Cal*	29.90	759.4	59	15.0	87	w.			3		2					4		fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y†	29.91	759.7				sw.			2		6?		sw.					clear?
S. S. Seminole, Savannah, Ga †	30.02	762.5	82	27.8	60	sw.			1		8		sw.					cloudy.
OREGON IMPROVEMENT COMPANY.																		
S. S. Willametta, Seattle, Wash. Ter.†	30.11	764.8	62	16.7	88	calm			0		3		nw.	0	0			fine.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Columbia, N. 40° 47′, W. 124° 28′†	29.84	757.9	52	11.1	86	wsw.			3		0					mod.	wsw.	clear.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 37° 11′, W. 122° 26′†	29.83	757.7	52	11.1	93	ese.			1		10		ese.			light	sw.	foggy.
S. S. Dakota, N. 40° 36′ W. 124° 34′†	29.88	758.9	54	12.2	87	w.			4		10?		nw.			mod.	nw.	clear?
S. S Orizaba, N. 35° 11′, W. 120° 42′†	29.96	761.0	58	14.4	82	s.			2		fg.		se.			sm'h	ssw.	dense fog.
S. S. State of California, Portland, Oregon†	30.03	762.7	52	11.1	86	calm			0		0							clear.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. City of New York, S. 2° 50′, W. 166° 30′†	29.92	760.0	82	27.8	100	ene.			4		1		ne.	0	0	light	ne.	clear.
S. S. City of Pekin, N. 35° 05′ E. 159° 50′†	29.91	759.7	62	16.7	72	wnw.			6		8		wnw.			r'gh	w.	cloudy.
S. S. City of Rio de Janeiro, N. 17° 42′, W. 102° 12′*†	30.08	764.0	78	25.6	82	e.			5		10		ese.	0.1	3.	mod.	e.	raining.
S. S. City of Sydney, S. 34° 12′, E. 166° 18′†	30.01	762.2	58	14.4	76	sw.			4		5		ne.	0	0	mod.	nw.	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
PACIFIC MAIL STEAMSHIP COMPANY.—CONTINUED.																		
S. S. City of Tokio, N. 34° 57′. E. 139° 36′†	30.04	763.0	65	18.3	89	sw.			5		10		ssw.	4 h'r	4 h'r	sm'h	sw.	raining.
S. S. Clyde N. 21° 17′, W. 108° 18′†	29.87	758.7	70	21.1	85	ssw.			2		8		ssw.	0	0	mod.	w.	cloudy.
S. S. Colima, Panama, Panama†	29.93	760.2	80	26.7	96	calm			0		3		calm	0	0			fair.
S. S. Colon, N. 37° 58′, W. 73° 45′†	30.03	762.7	54	12.2		s.			3		0			0	0	sm'h		clear.
S. S. Zelandia, Sydney, N. S. W.	29.75	755.6	53	11.7	80	nw.			6		5?		w.					clear.?
QUEBEC S. S. COMPANY.																		
S. S. Muriel, N. 12° 00′ W. 60° 40′	29.89	759.2	84	28.9		ene.			4		0			0	0	mod.	ene.	clear.
S. S. Bermuda, N. 29° 49′, W. 67° 46′†	30.16	766.1	81	27.2		n.			3		2		n.	3 h'r	3 h'r	g'tl	n.	fine.
RED STAR LINE.																		
S. S. Belgenland, N 48° 05′, W. 24° 05′†	30.19	766.8	60	15.6	82	ese.			5		9		se.	0	0	mod.	se.	cloudy.
S. S. Nederland, N. 39° 40′, W. 52° 57′†	29.97	761.2	58	14.4		ne.			3		8		sw.	0	0	mod.	sw.	cloudy.
S. S. Rhynland, N 40° 53′, W. 67° 59′	29.98	761.5	48	8.9	77	sw.			5		3		sw.	0	0	mod.	sw.	clear.
S. S. Vaderland, Antwerp, Belgium	29.97	761.2	65	18.3	58	nne.			3		8		nne.	4 h'r	4 h'r			cloudy.
S. S. Waesland, N. 50° 08′, W. 3° 25′	30.20	768.6	60	15.6		nne.			3		0			0	0	sm'h	ne.	clear.
ROTTERDAM LINE.																		
S. S. Schiedam, New York, N. Y*	29.83	757.7	58.6	14.8		s.			4		4			0	0			clear.
S. S.W A Scholten, N. 40° 41 W. 58° 22′	30.04	763.0	62.0	16.7	72	calm			0		0			0	0	sm'h	s.	
STATE LINE.																		
S. S. State of Indiana, N. 45° 55′, W. 38° 08′			55	12.8		s.			3		4		ssw.	0	0	sm'h		fair.
THINGVALLA LINE.																		
S. S. Thingvalla, Copenhagen, Denmark†	30.31	769.9	59.0	15.0		wnw.			3		1?		wnw.	0	0			covered?
WHITE CROSS LINE.																		
S. S. Plantyn, N. 47° 51′ W. 32° 10′	29.96	761.2									7		nw.	0	0	2–4	sw.	d. clouds.
WHITE STAR LINE.																		
S. S. Adriatic, Queenstown, Ireland†	30.41	772.4	64	17.8	83	nne.			1		2		calm	0	0	sm'h		d. clouds.
S. S. Britannic, N. 43° 31′, W. 45° 30′†	29.90	759.4	45	7.2	100	n.			4		10		n.	0	0	mod.	w.	misty.
S. S. Celtic, New York, N. Y†	29.96	761.0	64	17.8	78	sw.			3		8		w.	0	0	sm'h		fair.
S. S Republic, N. 47° 29′, W. 33° 06′†	30.08	764.0	55	12.8	93	nnw.			4		9		n.			mod.	nne.	showery.
WILSON LINE.																		
S. S. Otranto, N. 49° 47′, W. 11° 50′†	30.34	770.6	62	16.7		ene.			4		0					long	ene.	clear.
MISCELLANEOUS.																		
Schr. Abbie Clifford, Orchilla Id., W I.*†	30.00	762.0	80	26.7		e.			5		2		e.	0	0			fine.
Schr. Addie Fuller, Newport News, Va†	30.09	764.3	67	19.4	74	sw.			3	0	0			0	0			clear.
Bk. Adelaide, N. 21° 28′, W. 63° 08′*†	30.14	765.5	84	28.9		e.			3		2		ese.	0	0	light	se.	fair.
Bk. Alpha, Guanatamo, Cuba, W. I†	29.98	761.5	80	26.7		n.			1		1		ne.	0	0			fair.
Schr. Annie Lewis, N. 28° 57′. W. 89° 54′†	29.93	760.2	80	26.7		s.			6		10		s.	0	0	short	s.	misty.
Bk. Anna Thormann, N. 5° 25′, W. 26° 30′	30.01	762.3	78.3	25.7	80	e.			2	7 k;c		se.		5 h'r	5 h'r	mod.	s.	showery.
Antonio Lopez, Santander, Spain*	30.01	762.2	63.5	17.5	83	ene.			4		3 k			0	0			fair.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.20	767.1	76	24.4		nw.			1		9		wnw.	0	0			cloudy.
Sch'r Annie M. Smull, N. 5° 36′ E. 107° 06′*†	29.95	760.7	82	27.8										0	0			
Bk. Bergenseren, N. 44° 55′. W. 27° 29′†	29.90	759.4				ssw.			2				ssw.	0	0	3	w.	foggy
Schr. C. R. Flint, N. 27° 36′, W. 87° 01′†	30.02	762.5	80	26.7		sse.			2		1		sse.	0	0	mod.	se.	clear.
Schr. Edith R. Seward, Baltimore, Md*†	30.17	766.3																
Bk. E. J. Spicer, N. 50° 40′. W. 0° 15′†	30.32	770.1				ne.			3		0			0	0			clear.
S. S. Essex, N. 31° 39′ W. 40° 09′*†	30.30	769.6	73	22.8		ssw.			2		1		sw.	0	0	long	ne.	clear.
Bk. Freya, N. 55° 09′, W. 13° 35′			61	16.1		sse.			3		0			0	0	sm'h		fine.
Bk. Godfrey, N. 43° 28′, W. 33° 35′	30.05	763.3	54.1	12.3	76	wnw.			3–4		6		wnw.	0	0	mod.	n.	fair.
S. Grecian, N. 0° 56′, E. 106° 40′*†	29.85	758.2	80	26.7		s.			2		3		sw.	0	0	mod.	nnw.	clear.
Bk. Hattie G. McFarland, N. 44° 50′, W. 60° 25′*†	29.85	758.2	46	7.8		sw.			3		6		sw.	0	0			hazy.
S. Ismir, S. 6° 08′, W. 34° 30′†	30.00	762.0				se.			2		6		se.			r'gh	s.	squally.
James Slater, N. 30° 09′, W. 51° 18′*†	30.45	773.4	78	25.6		ssw.			3		2			snow	snow	mod	wsw.	
Schr. John L. Thomas, Albuquerque Cays, C. A*†	29.99	761.7				ene.			5		2		ene.	0	0			clear.
Bkt. Josephine, Guanatamo, Cuba, W. I*†	30.15	765.8	81	27.2	78	n.			3		0			0	0			hazy.
Bk. Julia H., Havana, Cuba, W. I.	30.04	763.0	77.3	25.2	90	se.			2	2 c								misty.
S S Laurel, Pensacola Bay, Fla.†	29.94	760.5	80	26.7		ssw.			5		10		sw.	0	0			threatening
Maggie Abbott, N. 23° 35′, W. 69° 06′*†	30.03	762.7				sw.			3				wnw.	0	0	mod.	sse.	clear.
Bg. Medina, N. 41° 15′, W. 71° 45′†	30.03	762.7				sse.			2		0					sm'h		fine.
S. Minnie N. Gerow, N 40° 50′, W. 33° 42′*†	30.24?	768.1?				wsw.			3		10		w.			sm'h	nw.	cloudy.
S. M. P. Grace, N. 36° 51′, W. 58° 41′			66	18.9		ene.			4		8		e.	5 h'r	5 h'r	mod.	cross	squally.
S. Paramita, S. 35° 20′ W. 42° 23′†	29.84	757.9	61	16.1		var.			6		2		sw.	1 h'r	1 h'r	cross	sw.	clear.
Bk. Pawashick, N. 42° 56′, W. 29° 24′*†	30.30	769.6	57	13.9	93	n.			6		10		nnw.			r'gh	n	overcast
Bk. Peppina, Bordeaux, France†	30.02	762.5	75	23.9	59	w.			2		0							clear.
S S. Ponca, S 1° 45′, W. 44° 30′†	29.93	760.2	89	31.7		ene.			2		1		ese.	0	0	light	ese.	clear.
Bk. Princessen, N. 49° 15′, W. 5° 04′†	30.26	768.7	59	15.0		ene.			4		0			0	0	sm'h		clear.
Bk. Rosebud, N. 60° 21′ W. 23° 34′*†	30.00	762.0	80	26.7	91	var.			1–3		5		var.	2 h'r	2 h'r	sm'h		fine.
S. Salisbury, S. 39° 05′, E. 50° 01′*.	30.05	763.2	53.6	12.0	88	e.			5		10		ne.	8 h'r	8 h'r	rg'h	ne.	cloudy.
Bkt. Spotless, N. 1° 04′ W. 39° 23′						e.							e.			mod	e.	fine.
Bk. Stella, N. 13° 02′, W. 128° 00′*	29.87	758.7	71.8	22.1	91	nne.			3	3 c		n.		0	0	mod.	n.	d. clouds
Bk. Truro, Havre, France*†	30.14	765.5				ene.			6		2		ene.	4 h'r	4 h'r			clear.
U.S. F.C.S. Fish Hawk, Havre de Grace, Md*†	30.12	765.0	68	20.0	100	sw.			6		3		sw.	0	0			clear.
Yacht Vega, Frederichstadt, Santa Cruz, W. I.*†	30.25	768.3	80	26.7		ese.			3				ese.	0	0	sm'h		
S. S Victoria J. Peed, Barranquilla, U. S. C*†	29.11?	739.4?				ne.			6		1							
Bk. Vincenzo Accame, N. 38° —′, W. 64° —†.	30.28?	769.0?	69.8	21.0		nne.			2									
Schr. Viola Reppard, Brunswick, Ga†	29.85	758.2	80	26.7		s.			1		2		sw.	0	0			fair
Bk. Wm. Wilcox, N. 17° 08′, W. 33° 15′*†	30.31	769.9	76	24.4		ene.			4		10		ene	0	0	mod	ene.	hazy.

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

UNITED STATES OF AMERICA.

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

SUMMARY AND REVIEW

OF

INTERNATIONAL METEOROLOGICAL OBSERVATIONS,

MAY, 1882.

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea. Feet.	Altitude of Barometer above sea. Met'rs	Result of Simultaneous Observations for May, 1882. Mean Barometer. Actual. Inch.	Mean Barometer. Actual. Mill.	Mean Barometer. Reduced. Inch.	Mean Barometer. Reduced. Mill.	Mean Temperature. Fah.	Mean Temperature. Cent.	Mean Rel. Humidity.	Wind. Directions. N	NW	W	SW	S	SE	E	NE	C	Total Movement. Miles	Total Movement. Kil.	Average Cloudiness. 0-10	Total Precipitation. Inch.	Total Precipitation. Mill.
ALGERIAN.	° ′	° ′																								
Nemours	N. 35 06	W. 1 50	0.00 m.	13	4	.....	.....	30.01	762.2	72.0	22.2	76.7	.....	6	4	14	2	.....	1	4	.....	.....	.....	1	0.13	3.4
Algierr	N. 36 47	E. 3 04	0.20 p.m.	72	22	.....	.....	30.01	762.2	72.1	22.3	60.7	1	24	2	1	.....	.....	1	2	.....	.....	.....	1	0.11	2.8
La Calle	N. 36 54	E. 8 26	0.42 p.m.	36	11	.....	.....	30.02	762.4	73.9	23.3	68.5g	7	4	4	1	2	.....	3	10	.....	.....	.....	3	2.26	57.5
Tunis	N. 36 42	E. 10 13	0.49 p.m.	46	14	.....	.....	30.02	762.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Saida	N. 34 51	E. 0 10	0.09 p.m.	2844	867	.....	.....	30.07	763.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tebessa	N. 35 24	E. 8 06	0.40 p.m.	2890	881	.....	.....	30.09	764.3	67.5	19.7	61.5	.....	8	.....	7	.....	13	2	1	.....	.....	.....	2	1.07	27.2
Geriville	N. 33 45	E. 1 10	0.13 p.m.	4285	1306	.....	.....	.....	.....	77.9	25.5	20.2	3	4	1	6	5	9	2	1	.....	.....	.....	3	0.85	21.6
Laghouat	N. 33 48	E. 2 53	0.20 p.m.	2559	780	.....	.....	30.11	764.7	82.0	27.8	58.9	3	.....	8	.....	6	2	10	2	.....	.....	.....	1	1.04	26.5
Biskra	N. 34 51	E. 5 41	0.31 p.m.	410	125	.....	.....	30.09	764.2	87.8	31.0	25.1	1	7	2	1	.....	20	.....	.....	.....	.....	.....	3	0.16	4.2
AUSTRALIAN.																										
Melbourne	S. 37 50	E. 144 58	9.47 p.m.	91	28	29.92	760.0	30.01	762.3	53.7	12.1	79	8	8	3	6	3	1	.....	2	.....	.....	.....	6	2.54	64.5
AUSTRO-HUNGARIAN.																										
Agram	N. 45 48	E. 15 53	1.12 p.m.	536	163	29.44	747.7	30.00	761.9	69.6	20.9	48.2	.....	1	3	10	1	4	2	10	.....	.....	.....	5	1.84	46.7
Cracow	N. 50 04	E. 20 00	1.28 p.m.	722	220	29.22	742.3	29.98	761.5	61.9	16.6	58.9	6	3	7	4	2	.....	5	4	.....	.....	.....	7	3.98	101.1
Eperies	N. 48 58	E. 21 15	1.33 p.m.	820	250	29.08	738.7	29.97	761.3	57.0	13.9	73.0	10	5	.....	.....	8	3	.....	1	4	.....	.....	7	1.94	49.2
Gratz	N. 47 04	E. 15 28	1.10 p.m.	1171	357	28.75	730.3	29.98	761.4	64.0	17.8	65.6	2	6	3	6	9	2	2	1	.....	.....	.....	5	0.89	22.5
Hermannstadt	N. 45 47	E. 24 13	1.45 p.m.	1352	412	28.52	724.3	29.91	759.7	66.4	19.1	55.	5	11	3	1	2	7	1	1	.....	.....	.....	6	5.10	131.1
Kremsmünster	N. 48 03	E. 14 08	1.04 p.m.	1260	384	28.66	728 0	29.98	761.5	62.1	16.7	65.7	3	4	3	3	.....	1	3	11	3	.....	.....	6	3.72	94.5
Lemberg	N. 49 50	E. 24 00	1.44 p.m.	978	298	28.96	735.6	29.93	760.1	62.4	16.9	58.8	3	8	.....	3	3	6	3	5	.....	.....	.....	6	3.99	101.4
Pola	N. 44 52	E. 13 51	1.04 p.m.	105	32	29.90	759.4	30.01	762.3	61.7	16.5	58.8	.....	.....	7	4	5	9	6	.....	.....	.....	.....	4	1.79	45.5
Szathmar	N. 47 46	E. 22 53	1.39 p.m.	430	131	29.46	748.2	29.91	759.6	67.5	19.7	58	6	6	1	7	1	5	3	2	.....	.....	.....	5	3.10	78.7
Szegedin c	N. 46 15	E. 20 10	1.29 p.m.	256	78	29.66	753.4	29.94	760.5	68.6b	20.0b	58.6b	4	9	3	3	5	2	1	.....	1	.....	.....	6	1.54	39.0
Trieste	N. 45 39	E. 13 46	1.04 p.m.	85	26	29.93	760.2	30.03	762.8	68.9	20.5	55.2	.....	.....	5	6	.....	.....	.....	5	15	.....	.....	4	3.26	82.9
Vienna	N. 48 12	E. 16 22	1.14 p.m.	663	202	29.30	744.1	30.00	761.9	65.5	18.6	48.3	5	7	7	.....	1	8	1	2	.....	.....	.....	5	2.42	61.5
BRITISH.																										
Aberdeen	N. 57 10	W. 2 06	0.00 m.	89	27	29.94	760.5	30.04	763.0	50.6	10.3	70.2	.....	2	1	.....	6	11	8	3	.....	.....	.....	5	1.50	38.1
Armagh	N. 54 21	W. 6 39	11.42 a.m.	207	63	29.70	755.9	30.00	762.0	55.9	13.3	64.3	2	2	.....	9	5	6	6	1	.....	.....	.....	6	.....	.....
Bidston	N. 53 24	W. 3 04	11.56 a.m.	197	60	.....	.....	30.02	762.5	57.6	14.2	73.6	1	3	8	4	4	1	8	2	.....	.....	.....	5	.....	.....
Bolton	N. 53 35	W. 2 28	11.58 a.m.	500	152	29.48	748.8	30.01	762.2	57.6	14.2	58.7	1	1	4	5	9	3	5	3	.....	.....	.....	6	.....	.....
Bradford d	N. 53 48	W. 1 47	0.01 p.m.	366	111	29.58	751.3	29.98	761.5	57.4	14.1	58.4	.....	2	6	7	.....	7	2	3	.....	.....	.....	5	0.91	23.1
Bridgetown	N. 13 04	W. 59 37	8.10 a.m.	28	9	29.97	761.2	30.00	762.0	83.4	28.6	65.8	.....	.....	.....	.....	.....	.....	.....	31	.....	.....	.....	4	.....	.....
Cardington	N. 52 08	W. 0 27	0.06 p.m.	109	33	.....	.....	30.02	762.5	61.9	16.6	61.3	7	3	1	3	4	3	7	3	.....	.....	.....	6	.....	.....
Chatham	N. 51 25	E. 0 33	0.10 p.m.	120	37	29.92	760.0	30.05	763.3	59.8	15.4	66.7	2	.....	...	10	2	.....	.....	12	5	.....	.....	7	.....	.....
Falmouth	N. 50 09	W. 5 04	11.48 a.m.	211	64	29.80	756.9	30.03	762.7	56.5	13.6	70.5	.....	4	1	3	5	6	9	3	.....	.....	.....	6	.....	.....
Fort Napier	S. 30 00	E. 31 00	2.12 p.m.	2200	671	27.69	703.3	29.91	759.7	69.0	20.6	47.1	2	3	3	2	2	4	6	1	8	.....	.....	4	.....	.....
Free Town	N. 8 30	W. 13 14	11.15 a.m.	224	68	29.61	752.1	29.84	757.9	87.0	30.6	62.9	2	11	11	6	.....	.....	.....	.....	1	.....	.....	3	.....	.....
Gibraltar	N. 36 09	W. 5 21	11.47 a.m.	50	15	29.97	761.2	30.02	762.5	69.8	21.0	78.1	.....	1	14	4	.....	2	7	3	.....	.....	.....	4	.....	.....
Glasgow	N. 55 53	W. 4 17	11.51 a.m.	184	56	29.81	757.2	30.01	762.2	55.4	13.0	58.7	1	.....	5	7	3	1	7	7	.....	.....	.....	5	.....	.....
Greenwich	N. 51 29	0 00	0.08 p.m.	159	48	29.87	758.7	30.05	763.3	61.8	16.6	61.9	4	.....	3	4	7	.....	6	7	.....	.....	.....	6	.....	.....
Guernsey	N. 49 27	W. 2 41	11.58 a.m.	275	84	29.75	755.6	30.05	763.3	57.4	14.1	77.3	2	3	4	2	8	2	4	6	.....	.....	.....	4	.....	.....
Kew	N. 51 28	W. 0 19	0.07 p.m.	34	10	30.01	762.2	30.05	763.3	59.8	15.4	57.9	5	1	4	7	3	2	4	5	.....	.....	.....	6	.....	.....
Leicester	N. 52 39	W. 1 08	0.04 p.m.	245	75	29.78	756.4	30.03	762.7	55.4	13.0	61.3	1	1	2	9	1	2	4	10	1	.....	.....	6	.....	.....
Malta	N. 36 00	E. 14 30	1.06 p.m.	70	21	29.94	760.5	30.01	762.2	72.7	22.6	61.7	.....	10	1	2	1	10	1	6	...	.....	.....	3	.....	.....
Nassau	N. 25 04	W. 77 22	6.58 a.m.	44	13	30.06	763.5	30.10	764.5	79.6	26.4	78.7a	1	2	.....	9	2	10	1	6	.....	.....	.....	7	.....	.....
Oscott	N. 52 28	W. 1 55	0.00 m.	483	147	29.52	749.8	30.04	763.0	57.9	14.4	65.3	5	4	1	3	6	.....	4	7	1	.....	.....	6	.....	.....
Oxford	N. 51 46	W. 1 17	0.03 p.m.	210	64	29.81	757.2	30.04	763.0	59.0	15.0	59.1	4	1	5	2	6	3	2	8	.....	.....	.....	6	.....	.....
Plymouth	N. 50 22	W. 4 10	11.51 a.m.	69	21	29.95	760.7	30.02	762.5	59.7	15.4	60.5	1	2	3	7	9	1	6	1	1	.....	.....	6	.....	.....
Sandwick Manse	N. 59 05	W. 3 20	11.54 a.m.	94	29	.....	.....	30.00	762.0	50.4	10.2	73.8a	.....	1	6	6	.....	8	8	2	.....	.....	.....	5	.....	.....
Scutari Cemet'y	N. 41 00	E. 29 03	2.04 p.m.	60	18	29.85	758.2	29.91	759.7	69.2	20.7	58.9	9	.....	1	5	5	.....	.....	9	2	.....	.....	5	.....	.....
Sheffield	N. 53 23	W. 1 28	0.02 p.m.	260	79	29.77	756.1	30.04	763.0	60.7	15.9	68.7	.....	2	1	9	1	2	6	10	.....	.....	.....	5	1.44	36.6
Silloth Rectory	N. 54 52	W. 3 22	11.54 a.m.	28	9	29.91	759.7	29.95	760.7	58.2	14.6	63.4	1	1	7	7	3	1	9	.....	2	.....	.....	4	1.80	45.7
Stonyhurst	N. 53 51	W. 2 28	11.58 a.m.	361	110	.....	.....	30.04	763.0	57.4	14.1	60.5c	.....	1	8	4	4	2	8	4	.....	.....	.....	6	.....	.....
Stratfield Turgiss	N. 51 17	W. 0 53	0.04 p.m.	197	60	29.83	757.7	30.05	763.3	61.2	16.2	62.1	4	1	3	11	3	2	1	6	.....	.....	.....	5	.....	.....
Truro	N. 50 16	W. 5 04	11.53 a.m.	43	13	30.00	762.0	30.02	762.5	62.5	16.9	62.1	.....	8	.....	6	4	4	7	2	.....	.....	.....	5	.....	.....
Valencia	N. 51 55	W. 10 18	11.27 a.m.	23	7	29.94	760.5	29.97	761.2	57.0	13.9	70.5	1	2	4	10	3	5	5	1	.....	.....	.....	6	.....	.....
CANADIAN.																										
Bathurst	N. 47 39	W. 65 43	7.45 a.m.	80	24	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Charlottetown	N. 46 14	W. 63 10	7.55 a.m.	38	12	29.93	760.2	29.97	761.2	41.6	5.3	78.4	3	6	5	2	9	1	3	2	.....	5508	8864	6	3.67	93.2
Chatham	N. 47 03	W. 65 29	7.45 a.m.	56	17	29.93	760.2	29.99	761.7	40.6	4.8	71.4	5	4	5	7	4	1	2	2	1	4141	6664	6	4.05	102.9
Cornwall	N. 45 01	W. 74 43	7.09 a.m.	175	53	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dalhousie	N. 48 04	W. 66 21	7.32 a.m.	150	46	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Father Point	N. 48 31	W. 68 28	7.34 a.m.	20	6	29.97	761.2	29.99	761.7	39.4	4.1	77.8	3	2	10	3	.....	1	1	10	1	13181	21212	5	1.73	43.9
Fort Garry k	N. 49 51	W. 97 07	5.39 a.m.	754	230	29.21	741.9	30.04	763.0	43.1	6.2	77.6	4	.....	1	...	5	2	7	1	.....	4671	7517	3	0.80	21.8
Fredericton	N. 45 57	W. 66 39	7.41 a.m.	59	18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Granton	N. 43 12	W. 81 21	6.43 a.m.	1015	309	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Halifax	N. 44 39	W. 63 36	7.53 a.m.	122	37	29.88	758.9	30.01	762.2	43.8	6.6	78.6	4	8	5	3	3	2	2	4	.....	.....	.....	5	4.70	119.4
Hamilton	N. 43 16	W. 79 53	6.49 a.m.	338	103	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Kingston	N. 44 14	W. 76 30	7.02 a.m.	307	94	29.69	754.1	30.03	762.7	45.6	7.6	71.7	5	3	6	4	.....	1	2	10	.....	6357	10230	7	4.06	103.1
Little Glace Bay	N. 46 12	W. 59 58	8.08 a.m.	34	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Montreal	N. 45 31	W. 73 33	7.13 a.m.	187	57	29.81	757.2	30.02	762.5	46.0	7.8	64.2	5	3	2	4	3	4	2	7	1	.....	.....	6	1.55	39.4
Parry Sound	N. 45 19	W. 80 01	6.48 a.m.	635	194	29.35	745.5	30.05	763.3	43.8	6.6	67.7	4	2	2	4	3	.....	5	9	2	6560d	10557d	4	2.09	53.1
Peterborough	N. 44 17	W. 78 20	6.54 a.m.	688	210	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Port Dover	N. 42 47	W. 80 13	6.47 a.m.	635	194	29 33	745.0	30.03	762.7	45.6	7.6	84.2	3	2	2	5	3	.....	1	14	1	6840	11008	5	5.33	135.4
Port Stanley	N. 42 40	W. 81 13	6.43 a.m.	592	180	29.36	745.7	30.01	762.2	45.5	7.5	80.6	6	4	4	2	1	1	9	4	.....	.....	.....	4	4.14	105.2
Quebec	N. 46 48	W. 71 12	7.23 a.m.	293	89	29.74	755.4	30.03	762.7	41.8	5.4	77.5	4	4	6	.....	.....	.....	5	9	3	.....	.....	5	2.05	52.1
Rockliffe	N. 46 10	W. 77 48	6.57 a.m.	418	127	29.58	751.3	30.05	763.3	41.6	5.3	65.6	5	10	2	.....	.....	.....	4	1	9	.....	.....	4	2.67	67.8
Saugeen	N. 44 30	W. 81 21	6.42 a.m.	656	200	29.30	744.2	30.02	762.5	44.3	6.8	75.5	2	1	.....	6	1	3	3	11	4	8736	14059	4	1.59	40.4
St. Andrews	N. 43 04	W. 81 06	6.34 a.m.	47	14	29.94	760.5	29.99	761.7	42.4	5.8	73.0	4	5	5	1	2	3	4	5	2	.....	.....	4	2.61	66.3
St. John, N.B	N. 45 17	W. 66 03	7.44 a.m.	150	46	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
St. Pierre	N. 46 47	W. 56 08	8.24 a.m.	?	?	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Stratford	N. 43 23	W. 81 00	6.44 a.m.	1182	360	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea. Feet.	Met'rs	Result of Simultaneous Observations for May, 1882. Mean Barometer. Actual. Inch.	Mill.	Reduced. Inch.	Mill.	Mean Temperature. Fah.	Cent	Mean Rel. Humidity.	Wind. Directions. N	NW	W	SW	S	SE	E	NE	C	Total Movement. Miles	Kil.	Average Cloudiness. 0-10	Total Precipitation. Inch.	Mill.
CANADIAN—C't'd.	° ′	° ′																								
Sydney	N. 46 08	W. 60 10	8.07 a.m.	37	11	29.91	759.7	29.97	761.2	40.4	4.7	79.0	8	4	4	9	1	1	.....	2	2	7370	11860	6	5.22	132.6
Toronto	N. 43 39	W. 79 23	6.50 a.m.	350	107	29.66	753.4	30.05	763.3	45.8	7.7	66.7	5	2	6	2	1	2	7	5	1	8038	13901	5	3.60	91.4
Windsor	N. 44 59	W. 63 58	7.53 a.m.	87	26	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Woodstock	N. 43 08	W. 80 47	6.48 a.m.	980	299	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Yarmouth	N. 43 50	W. 66 02	7.44 a.m.	61	19	29.93	760.2	30.00	762.0	43.1	6.2	81.7	5	5	2	4	2	1	6	4	2	6287	10119	4	1.37	34.8
Sub-Series.																										
St. Johns, N. F.	N. 47 34	W. 52 42	8.37 a.m.	230	70	29.96	761.0	30.21	767.3	43.4	6.3	87.2	.....	2	8	10	3	.....	4	4	.....	.....	.....	5	2.65	67.3
CAPE COLONY																										
Cape St. Francis	S. 34 10	E. 24 50	1.47 p.m.	25	7	30.10	764.5	30.13	765.3	65.3	18.5	81.1	.....	.....	12	8	1	3	3	3	1	.....	.....	4	4.39	111.5
Cape Town	S. 34 02	E. 18 29	1.22 p.m.	27	8	30.06	763.5	30.10	764.5	65.5	18.6	69.6	1	6	4	2	14	4	.....	.....	.....	.....	.....	5	2.78	70.6
CHINESE.																										
Sub Series.																										
Hankow	N. 30 34	E. 114 20	7.45 p.m.	260	79	29.73	755.2	29.76	755.8	76.1	24.5	90.8	.....	1	.....	1	2	15	9	3	.....	.....	.....	6	8.67	220.2
Zi-Ka-Wei	N. 31 12	E. 121 26	8.14 p.m.	23	7	29.85	758.2	29.87	758.8	62.6	17.0	85.4	3	1	2	1	4	10	9	1	.....	.....	.....	7	4.35	110.6
DANISH.																										
Copenhagen	N. 55 41	E. 12 36	0.58 p.m.	43	13	30.00	762.0	30.05	763.2	55.4	13.0	61	5	8	2	3	3	8	.....	.....	2	.....	.....	6	.....	.....
Fanöe	N. 55 27	E. 8 24	0.42 p.m.	20	6	30.04	762.9	30.06	763.4	56.7	13.7	73	2	7	7	3	3	6	3	.....	.....	.....	.....	5	.....	.....
Godthaab	N. 64 11	W. 51 46	8.41 a.m.	36	11	29.93	760.1	29.97	761.2	34.2	1.2	77	9	2	1	2	.....	1	1	8	7	.....	.....	6	0.04	0.9
Stykkisholm	N. 65 05	W. 22 46	10.37 a.m.	36	11	29.90	759.5	29.95	760.6	37.0	2.8	84	.....	3	1	.....	1	3	7	7	9	.....	.....	6	.....	.....
Thorshavn	N. 62 02	W. 6 44	11.41 a.m.	29	9	29.93	700.3	29.97	761.2	47.5	8.6	78	2	.....	4	6	3	5	2	7	2	.....	.....	6	.....	.....
Vestervig	N. 56 47	E. 8 20	0.41 p.m.	82	25	29.95	760.7	30.04	763.0	54.5	12.5	71	3	5	7	4	4	4	2	1	1	.....	.....	4	.....	.....
FRENCH.																										
Agen	N. 44 12	E. 0 38	0.11 p.m.	604	184	29.39	746.6	30.03	762.8	66.6	19.2	62.2	4	.....	6	1	2	6	.....	1	11	.....	.....	.....	3.34	84.9
Alençon	N. 48 26	E. 0 05	0.09 p.m.	476	145	29.53	750.0	30.08	764.0	58.6	14.8	77.7	7	.....	.....	5	9	3	1	6	.....	.....	.....	.....	3.05	92.8
Arras	N. 50 18	E. 2 46	0.19 p.m.	239	73	29.78	756.3	30.03	762.8	60.6	15.9	62.3	*d*	9	2	6	4	3	1	2	.....	.....	.....	.....	1.58	40.1
Avignon	N. 43 57	E. 4 48	0.27 p.m.	65	20	29.93	760.1	30.00	762.1	71.6	22.0	54.3	14	5	2	5	1	2	2	.....	.....	.....	.....	.....	1.70	43.3
Bar-sur-Seine	N. 48 07	E. 4 22	0.25 p.m.	518	158	29.50	749.3	30.05	763.3	54.1	12.3	49	.....	.....	1	3	6	9	11	1	.....	.....	.....	7	1.32	33.5
Beauvais	N. 49 26	E. 2 05	0.16 p.m.	246	75	29.80	757.0	30.07	763.7	62.4	16.9	52.5	.....	2	2	2	2	7	6	10	.....	.....	.....	7	2.29	58.2
Besançon	N. 47 14	E. 6 01	0.32 p.m.	846	258	29.10	739.2	29.98	761.4	66.0	18.9	59.9	5	1	1	3	7	.....	4	10	.....	.....	.....	4	4.87	123.7
Bordeaux	N. 44 50	E. 0 32	0.06 p.m.	243	74	29.74	755.5	30.00	762.0	65.3	18.5	56.3	3	1	7	4	2	7	1	6	.....	.....	.....	7	5.18	131.7
Bourges	N. 47 10	E. 2 26	0.17 p.m.	510	156	29.50	749.2	30.04	763.0	65.1	18.4	50.7	9	2	2	7	1	2	4	4	.....	.....	.....	.....	1.32	33.5
Brest	N. 48 24	W. 4 30	11.50 a.m.	210	64	29.79	756.7	30.04	762.9	62.2	16.8	65.4	3	1	1	12	1	.....	3	9	1	.....	.....	6	2.56	65.0
Caen	N. 49 11	W. 0 21	0.07 p.m.	69	21	30.00	761.9	30.05	763.3	62.6	17.0	57.2	6	2	2	4	10	1	5	1	.....	.....	.....	6	2.71	68.8
Châlons-sur-Marne	N. 48 57	E. 4 21	0.25 p.m.	294	90	29.69	754.0	30.00	762.0	64.8	18.2	58.9	3	1	1	6	8	3	2	2	5	.....	.....	5	1.35	34.4
Charleville	N. 49 46	E. 4 49	0.27 p.m.	476	145	29.54	750.2	30.04	763.0	64.6	18.1	*a*53.2	3*a*	1	4	1	6	5	8	2	.....	.....	.....	6*a*	0.49	12.5
Clermont-Fd.	N. 45 46	E. 3 05	0.20 p.m.	1273	388	28.67	728.3	30.00	761.9	66.6	19.2	49.6	10	1	2	6	2	3	1	6	.....	.....	.....	.....	2.85	72.4
Cluny	N. 46 26	E. 4 39	0.27 p.m.	787	240	29.19	741.5	30.02	762.6	64.0	17.8	56.9	5	3	1	2	5	3	5	7	.....	.....	.....	4	4.05	102.8
Commercy	N. 48 46	E. 5 35	0.30 p.m.	797	243	29.20	741.7	30.06	763.4	63.9	17.7	53.0	6	4	5	2	2	5	4	3	.....	.....	.....	5	1.36	34.6
Gap	N. 44 33	E. 6 05	0.32 p.m.	2424	739	27.46	697.5	29.93	760.2	66.4	19.1	46.9	3	2	1	.....	3	4	2	.....	16	.....	.....	.....	2.65	67.3
Gréasque	N. 43 25	E. 5 37	0.31 p.m.	1056	322	28.89	733.7	29.93	761.5	70.0	21.1	46.2	.....	.....	.....	.....	1	7	13	10	.....	.....	.....	5	0.87	22.0
Grenoble	N. 45 12	E. 5 43	0.31 p.m.	715	218	29.23	742.5	29.98	761.6	66.6	19.2	56.1	2	14	5	1	5	2	2	.....	.....	.....	.....	.....	3.15	79.9
Guéret	N. 46 10	E. 1 52	0.16 p.m.	1486	453	28.46	722.9	30.03	762.7	61.0	16.1	54.4	.....	3	1	10	4	3	6	4	.....	.....	.....	.....	2.39	60.6
Lamballe	N. 48 28	W. 2 31	11.58 a.m.	252	77	29.75	755.7	30.02	762.6	62.2	16.8	60.6	4	3	1	2	6	3	3	9	.....	.....	.....	5	2.13	54.0
Lescar	N. 43 20	W. 0 26	0.06 p.m.	525	160	29.44	747.8	29.99	761.7	68.5	20.3	54.7	3	3	10	1	4	.....	6	4	.....	.....	.....	5	3.37	85.7
Lorient	N. 47 45	W. 3 21	11.55 a.m.	86	26	29.94	760.4	30.04	763.0	64.2	17.9	63.4	1	1	1	10	3	3	5	7	.....	.....	.....	5	0.73	18.5
Lyon	N. 45 41	E. 2 30	0.25 p.m.	981	299	28.98	736.2	30.02	762.6	64.2	17.9	54.2	7	3	1	.....	6	7	4	3	.....	.....	.....	.....	4.02	102.1
Mans	N. 48 01	E. 0 12	0.09 p.m.	285	87	29.75	755.6	30.06	763.4	61.2	16.2	58.8	1	3	3	5	3	3	5	8	.....	.....	.....	4	3.75	95.3
Marseille	N. 43 18	E. 5 23	0.29 p.m.	246	75	29.73	755.1	30.00	761.9	69.1	20.6	55.9	.....	2	7	12	3	3	4	.....	.....	.....	.....	.....	0.74	18.8
Mont-Louis	N. 42 30	E. 2 07	0.16 p.m.	5203	1586	24.84	631.0	29.69	754.0	54.9	12.7	57.1	.....	1	3	12	1	7	4	3	.....	.....	.....	5	1.94	49.4
Montpellier	N. 43 37	E. 3 53	0.24 p.m.	118	36	29.86	758.5	29.99	761.7	69.4	20.8	63.5	9	.....	.....	.....	.....	3	10	9	.....	.....	.....	3	1.59	40.4
Nancy	N. 48 42	E. 6 11	0.33 p.m.	725	221	29.26	743.3	30.04	763.0	63.0	17.2	54.3	12	4	4	5	4	2	.....	.....	.....	.....	.....	.....	2.30	58.5
Nantes	N. 47 13	W. 1 33	0.02 p.m.	134	41	29.90	759.4	30.06	763.5	64.9	18.3	54.8	4	2	1	7	3	1	4	9	.....	.....	.....	6	2.41	61.2
Perpignan	N. 42 42	E. 2 53	0.19 p.m.	105	32	29.89	759.2	30.00	761.9	69.4	20.8	49.9	5	3	.....	3	4	14	2	.....	.....	.....	.....	6	0.50	12.8
Pic du Midi (Sum-	N. 42 56	W. 0 08	0.08 p.m.	9380	2859	21.25	539.8	.....	.....	37.4	3.0	.....	.....	2	1	15	5	4	.....	4	.....	.....	.....	4	1.74	44.1
Privas..... [mit.)	N. 44 45	E. 4 36	0.26 p.m.	997	304	28.96	735.5	30.00	762.1	66.0	18.9	54.8	12	.....	.....	.....	9	1	1	.....	8	.....	.....	2	3.39	86.0
Puy de Dome	N. 45 46	E. 2 58	0.20 p.m.	4813	1467	25.17	639.3	.....	.....	45.0	7.2	80.8	1	1	4	9	2	3	5	6	.....	.....	.....	2	3.82	97.0
Rochefort	N. 45 56	W. 0 58	0.04 p.m.	29	9	29.98	761.6	30.02	762.4	67.1	19.5	98.4	1	1	1	7	5	2	2	10	2	.....	.....	5	0.96	24.4
Roche-sur-Yon	N. 46 40	W. 1 26	0.02 p.m.	198	60	29.80	756.8	30.00	762.1	64.0	17.8	60.4	4	2	4	3	4	3	7	4	.....	.....	.....	4	4.74	120.3
Rodez	N. 44 21	E. 2 34	0.18 p.m.	2050	625	27.88	708.1	29.98	761.5	64.0	17.8	53.9	3	.....	.....	6	1	6	8	1	6	.....	.....	5	2.33	59.1
Rouen	N. 49 26	E. 1 05	0.12 p.m.	39	12	29.99	761.7	30.05	763.2	62.2	16.8	58.6	5	1	1	8	4	2	5	5	.....	.....	.....	5	4.07	103.4
Saint Maur	N. 48 48	E. 2 21	0.17 p.m.	162	49	29.89	759.2	30.06	763.4	62.4	16.9	55.3	5	2	4	4	5	2	3	6	.....	.....	.....	6	2.74	69.5
Toulouse	N. 43 37	E. 1 27	0.14 p.m.	636	194	29.33	745.0	30.06	763.4	69.3	20.7	57.2	4	5	3	1	1	9	5	3	.....	.....	.....	5	1.16	29.6
Tours	N. 47 24	E. 0 41	0.11 p.m.	171	52	29.86	758.4	30.04	762.9	65.1	18.4	57.8	1	.....	4	11	1	2	4	8	.....	.....	.....	.....	4.11	104.3
Versailles	N. 48 48	E. 2 07	0.16 p.m.	445	136	29.56	750.9	30.06	763.4	62.2	16.8	51.3	3	1	6	8	1	3	5	4	.....	.....	.....	6	1.37	34.7
Sub-Series.																										
Paris, Montsouris	N. 48 50	E. 2 20	0.17 p.m.	256	78	29.77	756.2	30.06	763.6	62.4	16.9	54.0	5	1	3	6	5	2	3	6	.....	.....	.....	6	1.13	28.7
GERMAN.																										
Bamberg *d*	N. 49 54	E. 10 54	0.51 p.m.	796	242	29.17	741.0	30.02	762.6	64.2	17.9	50.6	1	4	2	4	6	3	1	6	.....	.....	.....	5	1.20	30.6
Berlin	N. 52 30	E. 13 23	1.02 p.m.	164	50	29.85	758.3	30.03	762.7	61.7	16.5	53.8	8	6	2	3	2	6	1	2	1	.....	.....	7	2.31	58.6
Breslau	N. 51 07	E. 17 02	1.17 p.m.	482	147	29.52	749.7	30.05	763.2	60.4	15.8	57.6	6	7	7	.....	1	5	2	2	1	.....	.....	6	3.56	90.4
Carlsruhe	N. 49 01	E. 8 25	0.42 p.m.	404	123	29.02	752.4	30.06	763.4	63.9	17.7	57.5	2	1	1	6	2	1	7	11	.....	.....	.....	7	3.36	85.3
Cassel	N. 51 19	E. 9 28	0.46 p.m.	669	204	29.30	744.3	30.02	762.4	63.7	17.6	51.8	5	6	4	1	8	3	3	1	.....	.....	.....	6	1.94	49.3
Frankfort on M.	N. 50 08	E. 8 41	0.43 p.m.	338	103	29.67	753.7	30.03	762.8	64.4	18.0	51.2	8	6	.....	4	5	2	1	5	.....	.....	.....	6	2.22	56.4
Friedrichshafen	N. 47 39	E. 9 29	0.46 p.m.	1355	413	28.60	726.5	30.02	762.4	61.5	16.4	66.8	2	.....	1	13	9	.....	.....	6	.....	.....	.....	6	5.56	141.2
Hamburg	N. 53 33	E. 9 58	0.48 p.m.	85	26	29.97	761.3	30.07	763.7	58.8	14.9	58.6	6	6	2	5	1	3	6	2	.....	.....	.....	6	1.88	47.7
Kiel	N. 54 19	E. 10 04	0.48 p.m.	13	4	30.04	763.0	30.06	763.4	56.5	13.6	59.4	7	3	4	1	3	2	5	6	.....	.....	.....	2	2.14	54.3
Leipsic	N. 51 20	E. 12 24	0.58 p.m.	390	119	29.64	752.8	30.05	763.2	61.3	16.3	54.4	3	6	.....	4	4	1	8	5	.....	.....	.....	7	2.52	64.1
Magdeburg	N. 52 09	E. 11 37	0.54 p.m.	177	54	29.86	758.4	30.05	763.2	61.5	16.4	54.9	4	7	6	1	1	6	3	3	.....	.....	.....	6	1.96	49.9
Memel	N. 55 43	E. 21 07	1.32 p.m.	39	12	30.00	762.0	30.05	763.2	56.5	13.6	64.2	2	7	4	4	3	4	2	5	.....	.....	.....	6	.....	.....
Munich	N. 48 09	E. 11 34	0.54 p.m.	1732	528	28.22	716.8	30.09	764.2	61.5	16.4	49.8	3	9	.....	1	.....	1	3	10	4	.....	.....	5	2.34	59.3
Neufahrwasser	N. 54 24	E. 18 40	1.25 p.m.	16	5	30.02	762.5	30.04	762.9	56.5	13.6	67.6	11	4	1	1	1	5	1	5	2	.....	.....	6	4.76	120.9
Neustadt *a*	N. 49 21	E. 8 08	0.41 p.m.	479	146	29.52	749.8	30.05	763.2	63.5	17.5	59.4	6	1	3	.....	5	1	6	2	6	.....	.....	7	2.60	66.1
Stuttgart	N. 48 47	E. 9 11	0.45 p.m.	833	254	29.09	738.9	29.97	761.1	64.0	17.8	54.6	12	4	4	.....	4	.....	6	1	.....	.....	.....	6	3.80	96.5
Wustrow	N. 54 21	E. 12 24	0.58 p.m.	23	7	30.06	763.5	30.08	764.1	56.3	13.5	68.6	8	1	5	3	2	3	4	5	.....	.....	.....	7	0.48	12.2
GREEK.																										
Athens	N. 37 58	E. 23 44	1.43 p.m.	360	110	29.59	751.5	.....	.....	74.7	23.7	.....	2	2	1	14	5	.....	.....	7	.....	.....	.....	4	0.61	15.4
ITALIAN.																										
Udine	N. 46 04	E. 13 14	1.01 p.m.	381	116	29.63	752.5	30.03	762.7	69.1	20.6	64	1	1	6	10	5	3	1	2	2	.....	.....	5	4.10	104.1
Milan	N. 45 28	E. 9 11	0.45 p.m.	482	147	29.51	749.6	30.02	762.5	70.0	21.1	45	1	3	3	8	1	6	3	6	.....	.....	.....	5	1.52	38.5
Padua	N. 45 24	E. 11 53	0.56 p.m.	102	31	29.91	759.7	30.02	762.5	68.7	20.4	50	1	1	3	5	4	5	9	3	.....	.....	.....	4	1.01	25.7
Moncalieri	N. 45 00	E. 7 42	0.39 p.m.	853	260	29.12	739.6	30.01	762.2	66.4	19.1	54	5	5	.....	3	8	5	5	.....	.....	.....	.....	6	4.39	111.5
Genoa	N. 44 25	E. 8 55	0.44 p.m.	157	48	29.84	758.0	30.04	762.9	66.2	19.0	50	6	2	2	12	.....	8	.....	1	.....	.....	.....	5	1.42	36.2
Mondovi	N. 44 22	E. 7 48	0.39 p.m.	1824	556	28.12	714.2	30.05	763.2	62.6	17.0	60	2	9	12	.....	1	2	4	.....	1	.....	.....	5	4.36	110.8
Pesaro	N. 43 55	E. 12 53	1.00 p.m.	46	14	29.97	761.2	30.14	765.6	65.8	18.8	61	3	.....	2	2	.....	8	6	10	.....	.....	.....	6	0.89	22.6
Florence	N. 43 46	E. 11 14	0.53 p.m.	240	73	29.76	755.9	30.01	762.2	71.4	21.9	43	2	2	8	10	1	1	.....	7	.....	.....	.....	4	0.97	24.6
Leghorn	N. 43 32	E. 10 18	0.49 p.m.	79	24	29.88	759.0	29.97	761.2	68.4	20.2	56	1	6	6	9	5	2	2	.....	.....	.....	.....	6	1.41	35.9
Rome	N. 41 54	E. 12 29	0.58 p.m.	164	50	29.83	757.7	30.00	762.0	73.6	23.1	41	5	2	9	7	5	2	1	.....	.....	.....	.....	6	1.05	26.7
Lecce	N. 40 21	E. 18 12	1.21 p.m.	236	72	29.74	755.5	29.99	761.8	72.7	22.6	43	7	5	2	3	4	5	2	3	.....	.....	.....	3	0.37	9.5
Cosenza	N. 39 13	E. 16 15	1.13 p.m.	840	256	29.12	739.6	29.99	761.7	73.0	22.8	77	2	4	3	4	2	10	5	1	.....	.....	.....	4	0.77	19.6
Cagliari	N. 39 13	E. 9 10	0.45 p.m.	180	55	29.77	756.2	29.96	761.0	70.7	21.5	58	.....	7	.....	2	11	11	.....	.....	.....	.....	.....	4	0.95	24.2
Palermo	N. 38 07	E. 13 22	1.02 p.m.	236	72	29.79	756.6	30.03	762.8	70.7	21.5	52	.....	4	1	.....	1	.....	2	23	.....	.....	.....	4	0.16	4.0
Syracuse	N. 37 03	E. 15 18	1.09 p.m.	43	13	29.93	760.2	29.97	761.3	72.9	22.7	58	1	1	1	3	11	4	4	6	.....	.....	.....	5	0.11	2.8
Sub-Series.																										
Naples	N. 40 52	E. 14 18	1.05 p.m.	489	149	29.47	748.6	29.98	761.6	71.4	21.9	57.0	2	1	2	13	1	3	4	5	.....	.....	.....	4	1.63	41.3
Stelvio	N. 46 32	E. 10 26	0.50 p.m.	8343	2543	22.20	563.9	.....	.....	41.2	5.1	58.7	.....	.....	5	12	1	1	2	10	.....	.....	.....	6	2.50	64.9
Valdobbia	N. 45 47	E. 7 54	0.40 p.m.	8360	2548	22.24	565.0	.....	.....	40.8	4.9	67.5	6	2	1	.....	1	6	13	2	.....	.....	.....	8	6.85	174.0

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea. Feet.	Altitude of Barometer above sea. Met'rs	Result of Simultaneous Observations for May, 1882. Mean Barometer. Actual. Inch.	Actual. Mill.	Reduced. Inch.	Reduced. Mill.	Mean Temperature. Fah.	Mean Temperature. Cent.	Mean Rel. Humidity.	Wind. Directions. N	NW	W	SW	S	SE	E	NE	C	Total Movement. Miles	Total Movement. Kil.	Average Cloudiness. 0–10	Total Precipitation. Inch.	Total Precipitation. Mill.
INDIAN.	° ′	° ′																								
Kurachee	N. 24 47	E. 67 04	4.36 p.m.	49	15	29.68	753.9	29.73	755.2	85.9	29.9	78	.....	.....	14	17	.....	.....	.....	.....	.....	.....	.....	3	0	0
Deesa	N. 24 16	E. 72 14	4.57 p.m.	465	142	29.17	740.8	29.62	752.2	102.5	39.2	26	.....	1	12	15	2	1	.....	.....	.....	.....	.....	1	0	0
Bombay	N 18 54	E. 72 49	5.00 p.m.	37	11	29.74	755.3	29.77	756.2	86.5	30.3	69	.....	14	15	2	.....	.....	.....	.....	.....	.....	.....	2	0	0
Poona	N. 18 28	E. 74 10	5.05 p.m.	1849	564	27.88	708.2	29.09	754 2	90.1	32.3	35	.....	6	23	1	.....	1	.....	.....	.....	.....	.....	4	1.85	47.0
Bellary	N. 15 09	E. 76 57	5.16 p.m.	1455	444	28.22	716.8	29.64	752.9	93.7	34.3	34	.....	3	10	5	4	8	.....	1	.....	.....	.....	6	2.76	70.1
Belgaum	N. 15 52	E. 74 42	5.07 p.m.	2550	777	27.23	691.7	29.74	755.1	81.1	27.3	62	.....	.....	11	19	.....	.....	1	.....	.....	.....	.....	4	2.90	73.7
Lahore	N. 31 34	E. 74 20	5.05 p.m.	732	223	28.83	732.4	29.54	750.4	100.9	38.3	19	2	5	9	1	.....	1	4	4	5	.....	.....	2	0.22	5.6
Roorkee	N. 29 52	E. 77 56	5.20 p.m.	887	270	28.09	728.7	29.55	750.6	95.5	35.3	24	.....	14	.....	.....	8	1	3	1	3	1	.....	2	0.20	5.1
Agra	N. 27 10	E. 78 05	5.20 p.m.	555	169	29.02	737.2	29.56	750.9	100.2	37.9	22	4	11	5	.....	1	3	5	1	1	.....	.....	2	0.94	23.9
Nagpur	N. 21 09	E. 79 11	5.24 p.m.	1025	312	28.57	725.7	29.57	751.0	100.9	38.3	21	2	5	2	9	.....	1	2	3	7	.....	.....	6	0.27	6.9
Jubulpore	N. 23 09	E. 79 59	5.28 p.m.	1351	412	28.30	718.9	29.61	752.0	96.9	36.1	21	5	8	7	2	4	.....	1	1	3	.....	.....	4	0.14	3.6
Lucknow	N. 26 50	E. 81 00	5.32 p.m.	369	112	29.23	742.3	29.59	751.6	96.2	35.7	29	.....	5	5	2	.....	2	5	3	9	.....	.....	2	1.60	40.6
Alahabad	N. 25 26	E. 81 52	5.35 p.m	307	94	29.28	743.6	29.57	751.2	99.0	37.2	23	1	11	1	1	.....	.....	3	12	2	.....	.....	2	0.01	0.3
Patna	N. 25 37	E. 85 08	5.49 p.m.	183	56	29.45	748.1	29.63	752.6	91.8	33.2	49	.....	5	4	.....	.....	.....	9	13	.....	.....	.....	3	1.98	50.3
Hazaribagh	N. 24 00	E. 85 24	5.50 p.m.	2007	612	27.64	702.2	29.60	751.8	89.4	31.9	32	6	11	3	3	3	2	2	1	.....	.....	.....	4	2.49	63.2
Cuttack	N. 20 29	E. 85 54	5.52 p.m.	80	24	29.58	751.3	29.66	753.4	87.6	30.9	62	1	1	.....	5	16	7	.....	1	.....	.....	.....	6	5.79	147.1
Calcutta	N. 22 33	E. 88 21	6.01 p.m.	21	7	29.03	752.6	29.65	753.1	85.7	29.8	64	.....	1	1	13	10	2	2	2	.....	.....	.....	5	6.05	153.7
Dhubri	N. 26 07	E. 89 50	6.08 p.m.	118	36	29.55	750.7	29.67	753.6	82.2	27.9	71	2	.....	.....	1	1	3	5	9	10	.....	.....	4	13.38	339.8
Chittagong	N. 22 21	E. 91 50	6.15 p.m.	87	26	29.63	752.6	29.72	754.9	81.6	27.6	78	.....	.....	7	6	6	5	4	1	2	.....	.....	4	0.99	25.2
Sibsagar	N. 26 59	E. 94 40	6.27 p.m.	333	102	29.39	746.6	29.73	755.2	75.5	24.2	77	1	1	.....	4	2	1	3	18	1	.....	.....	6	4.02	102.1
Jeypore	N. 26 55	E. 75 50	5.05 p.m.	1431	436	28.19	715.9	29.57	751.0	100.4	38.0	20	1	17	8	2	.....	.....	1	2	.....	.....	.....	4	0.45	11.4
Zanzibar	S. 6 10	E. 39 11	2.45 p.m.	23	7	29.94	760.5	.....	.....	82.3	27.9	70.9	1	.....	.....	3	13	10	1	2	1	.....	.....	6	9.85	250.2
JAPANESE.																										
Aomori	N. 40 51	E. 140 45	9.31 p.m.	32	10	29.82	757.3	29.85	758.2	51.3	10.7	81.9	5	.....	8	4	3	1	4	1	5	5850	9414	6	3.18	80.8
Hakodate	N. 41 47	E. 140 44	9.31 p.m.	10	3	29.83	757.7	29.85	758.2	48.9	9.4	82	4	1	6	2	3	2	8	.....	5	8207	13207	6	4.63	117.5
Hiroshima	N. 34 20	E. 132 27	8.58 p.m.	14	4	29.83	757.8	29.85	758.1	61.1	16.2	79.5	17	.....	6	1	1	.....	2	2	2	3815	6140	5	4.23	107.3
Kanazawa	N. 36 33	E. 136 40	9.14 p.m.	95	29	29.79	756.6	29.89	759.2	57.6	14.2	83.0	2	1	6	.....	3	11	8	.....	.....	5005	8054	6	3.06	77.7
Kioto	N. 35 01	E. 135 46	9.11 p.m.	162	49	29.71	754.6	29.88	759.0	59.0	15.0	78.4	9	7	4	1	6	2	.....	2	.....	2690*b*	4328*b*	5	5.10	129.6
Kochi	N. 33 33	E. 133 34	9.02 p.m.	20	6	29.86	758.5	29.89	759.1	64.5	18.0	79.2	7	9	7	1	1	1	3	2	.....	5500	8851	5	11.79	299.5
Nagasaki	N. 32 44	E. 129 52	8.47 p.m.	189	58	29.68	753.9	29.88	759.0	62.3	16.8	80.9	8	1	1	3	6	3	1	4	4	3045	5866	4	7.21	183.9
Niigata	N. 37 55	E. 139 03	9.24 p.m.	32	10	29.84	757.8	29.87	758.7	57.1	14.0	81.8	7	1	4	5	.....	6	5	1	2	5725	9213	7	2.80	71.0
Nobiru	N. 38 23	E. 141 12	9.32 p.m.	15	5	29.85	758.0	29.86	758.5	54.8	12.7	80.4	11	4	1	2	7	2	4	.....	.....	8345	13430	7	4.98	126.4
Supporo	N. 43 04	E. 141 23	9.33 p.m.	61	19	.....	.....	.....	.....	49.5	9.7	84	4	4	.....	.....	5	8	3	1	6	7880	12081	6	5.43	137.8
Tokei	N. 35 40	E. 139 45	9.27 p.m.	63	19	29.79	756.7	29.86	758.4	60.3	15.8	86.5	6	1	1	.....	12	5	6	.....	.....	4688	7544	6	7.40	187.9
Wakayama	N. 34 14	E. 135 09	9.09 p.m.	48	15	29.82	757.4	29.87	758.8	62.7	17.1	75.6	5	5	1	.....	6	.....	7	1	6	3362	5410	6	3.24	82.3
MAURITIUS.																										
Mauritius	S. 20 06	E. 57 33	3.58 p.m.	181	55	29.85	758.2	30.04	763 0	77.5	25.3	65.3	.....	1	2	1	.....	3	20	4	.....	.....	.....	4	0.87	22.1
MEXICAN.																										
Guanajuato	N. 21 01	W. 100 48	5.24 a.m.	6762	2061	23.67	601.2	29.90	759.5	60.6	15.9	76	.....	.....	.....	2	.....	3	1	1	23	.....	.....	4	5.68	144.2
Leon	N. 21 07	W. 101 35	5.22 a.m.	5902	1799	24.31	617.3	29.77	756.1	60.3	15.7	82	10	13	.....	5	.....	1	.....	2	.....	.....	.....	5	3.12	79.3
Mazatlan	N. 23 11	W. 106 17	5.03 a.m.	249	76	29.67	753.5	29.93	760.1	70.8	21.5	91	3	2	.....	1	.....	7	3	14	1	.....	.....	4	0	0
Mexico	N. 19 26	W. 99 00	5.32 a.m.	7490	2283	23.10	586.8	30.11	764.9	55.4	13.0	76	.....	3	1	1	.....	.....	.....	1	25	.....	.....	6	3.99	101.4
Morelia	N. 19 42	W. 101 06	5.22 a.m.	6247	1940	24.14	613.2	30.18	766.5	62.1	16.7	71	1	.....	1	.....	1	23	3	2	.....	.....	.....	3	1.55	39.3
Pabellon	N. 22 04	W. 102 04	5.20 a.m.	6312	1924	23.94	608.2	29.90	759.4	60.8	16.0	72	3	2	5	3	1	1	.....	2	14	.....	.....	4	1.31	33.3
Puebla	N. 19 02	W. 98 03	5.36 a.m.	7113	2168	23.41	594.1	29.81?	764.5?	55.3	12.9	83	2	2	.....	.....	.....	.....	.....	2	25	.....	.....	3	8.33	211.6
San Luis Potosi	N. 22 10	W. 100 51	5.25 a.m.	6211	1893	24.18	614.1	30.04	763.1	62.1	16.7	65	2	.....	2	6	2	6	12	1	.....	.....	.....	5	3.95	100.4
Zacatecas	N. 22 44	W. 102 26	5.18 a.m.	8100	2469	22.46	571.0	30.09	764.4	55.9	13.3	71	1	4	3	8	1	1	.....	1	12	.....	.....	4	4.45	113.1
NETHERLANDS.																										
Flushing	N. 51 24	E. 3 35	0.22 p.m.	0	0	30.08	763.9	30.08	763.9	60.8	16.0	.....	9	1	6	5	2	2	5	1	.....	.....	.....	.....	0.89	22.6
Groningen	N. 53 12	E. 6 34	0.34 p.m.	?	?	30.02	762.4	30.07	763.8	59.7	15.4	.....	7	5	.....	6	5	2	2	4	.....	.....	.....	.....	0.88	22.3
Helder	N. 52 58	E. 4 45	0.27 p.m.	0	0	30.07	763.8	30.07	763.8	55.8	13.2	.....	3	6	1	1	8	1	4	7	.....	.....	.....	.....	1.44	36.5
Hellevoetsluis	N. 51 49	E. 4 08	0.25 p.m.	0	0	30.06	763.4	30.06	763.4	61.7	16.5	62.0	4	2	2	6	4	2	7	4	.....	.....	.....	.....	0.63	16.1
Utrecht	N. 52 05	E. 5 07	0.29 p.m.	43	13	30.02	762.6	30.07	763.8	62.8	17.1	54.3	7	3	2	4	6	5	3	1	.....	.....	.....	5	2.00	52.3
NORWEGIAN.																										
Bergen	N. 60 24	E. 5 20	0.29 p.m.	56	17	29.94	760.5	30.00	762.1	43.7	6.5	61	1	10	5	3	9	2	1	.....	.....	.....	.....	6	3.32	84.4
Brono	N. 65 28	E. 12 14	0.57 p.m.	34	10	29.92	760.0	29.96	761.0	48.7	9.3	69.7	11	1	2	11	.....	.....	.....	1	5	.....	.....	7	2.51	63.7
Christiania	N. 59 55	E. 10 45	0.51 p.m.	134	41	29.84	757.9	29.98	761.6	57.2	14.0	56	4	1	1	4	11	2	2	6	.....	.....	.....	7	2.18	55.4
Gjesvær	N. 71 07	E. 25 22	1.49 p.m.	23	7	29.91	759.7	29.93	760.3	40.3	4.6	.....	3	3	8	3	2	1	2	1	8	.....	.....	8	.....	.....
Lodingen	N. 68 24	E. 16 01	1.12 p.m.	43	13	29.91	759.6	29.95	760.8	44.2	6.8	70.0	2	2	2	12	3	1	.....	6	3	.....	.....	7	4.57	116.1
PORTUGUESE.																										
Angra	N. 38 39	W. 27 14	10.19 a.m.	144	44	.....	.....	.....	.....	60.8	16.0	70.7	4	11	6	3	1	4	.....	2	.....	.....	.....	4	1.82	46.1
Campo Major	N. 39 02	W. 6 59	11.40 a.m.	945	288	28.98	736.0	29.96	761.0	67.1	19.5	49.6	1	.....	4	8	11	2	2	3	.....	.....	.....	7	5.87	149.1
Funchal	N. 32 38	W. 16 55	11.00 a.m.	82	25	30.01	762.2	30.10	764.4	66.6	19.2	62.4	.....	.....	5	18	2	1	3	.....	2	.....	.....	6	1.22	31.1
Lisbon	N. 38 42	W. 9 08	11.31 a.m.	335	102	29.05	753.1	30.01	762.2	63.7	17.6	63.5	3	4	3	5	11	1	3	.....	1	.....	.....	7	2.97	75.4
Ponta Delgada	N. 37 45	W. 25 41	10.25 a.m.	66	20	30.07	763.7	30.14	765.5	63.9	17.7	61.6	8	3	12	1	3	2	.....	1	1	.....	.....	4	2.07	52.6
St. Paulde Loanda	S. 8 49	E. 13 07	1.00 p.m.	193	59	29.73	755.2	29.93	760 3	78.4	25.8	89.2	1	8	11	11	.....	.....	.....	.....	.....	.....	.....	5	0.06	1.4
Serra da Estrella	N. 40 25	W. 7 35	11.37 a.m.	4728	1441	25.23	640.8	29.95	760.8	48.0	8.9	74.4	.....	4	3	2	6	14	2	.....	.....	.....	.....	8	14.70	373.4
RUSSIAN.																										
Akmolinski	N. 51 12	E. 71 23	4.54 p.m.	843?	306?	28.73	729.8	29.78	756.4	63.9	17.7	47.4	2	5	3	6	2	2	4	6	1	.....	.....	5	0.89	22.7
Archangel	N. 64 33	E. 40 32	2.50 p.m.	16	5	29.94	760.6	29.96	761.1	44.6	7.0	68.4	1	11	4	1	3	2	2	4	3	.....	.....	8	1.64	41.6
Astrakhan	N. 46 21	E. 48 02	3.20 p.m.	‖ 68	‖ 21	29.96	761.0	29.88	758.9	72.1	22.3	48.5	4	1	2	4	7	6	4	1	2	.....	.....	6	0.90	22.8
Barnaul	N. 53 20	E. 83 47	5.43 p.m.	459?	140?	29.37	745.9	29.86	758.4	58.8	14.9	49.0	2	7	5	4	.....	1	.....	4	8	.....	.....	6	1.41	35.9
Dorpat	N. 58 23	E. 26 43	1.55 p.m.	223	68	29.76	756.0	30.00	762.1	59.7	15.4	52.1	3	4	4	5	4	2	2	7	.....	.....	.....	6	1.82	46.3
Ekaterinburg	N. 56 49	E. 60 38	4.10 p.m.	894?	272?	28.92	734.6	29.87	758.7	57.7	14.3	51.9	5	6	5	5	2	1	1	1	5	.....	.....	7	2.24	56.8
Kasan	N. 55 47	E. 49 08	3.24 p.m.	249	76	29.07	753.5	29.93	760.1	64.0	17.8	47.7	6	3	5	0	2	1	4	2	2	.....	.....	6	1.17	29.7
Kertch	N. 45 21	E. 36 29	2.34 p.m.	18?	6?	29.86	758.5	29.88	759.0	63.7	17.6	74.0	4	4	.....	1	8	8	3	3	.....	.....	.....	5	1.16	29.6
Kieff	N. 50 27	E. 30 30	2.10 p.m.	600	183	29.28	743.6	29.89	759.2	66.9	19.4	45.6	6	1	4	3	2	3	7	5	.....	.....	.....	6	1.68	42.8
Lugan	N. 48 35	E. 39 20	2.45 p.m.	188?	57?	29.07	753.5	29.87	758.6	71.8	22.1	44.5	3	2	3	7	4	4	4	4	.....	.....	.....	7	3.23	82.0
Moscow	N. 55 46	E. 37 40	2.39 p.m.	448	136	29.43	747.6	29.89	759.2	64.6	18.1	43.1	4	5	.....	8	7	2	.....	1	4	.....	.....	4	.....	.....
Nikolaiev	N. 46 58	E. 31 58	2.16 p.m.	62	19	29.88	758.9	29.95	760.7	73.2	22.9	44.5	4	1	.....	6	8	1	1	5	5	.....	.....	3	0.14	3.6
Nikolaievsk	N. 53 08	E. 140 45	9.31 p.m.	75?	23?	29.78	756 4	29.87	758.6	40.5	4.7	84.7	2	1	.....	.....	.....	5	6	3	14	.....	.....	8	3.38	85.9
Pekin	N. 39 57	E. 116 28	7.54 p.m.	123?	38?	29.64	752.9	29.78	756.5	71.2	21.8	40.7	.....	6	.....	7	1	6	.....	2	9	.....	.....	3	1.33	33.7
St. Petersburg	N. 59 56	E. 30 16	2.09 p.m.	15	5	29.97	761.2	29.98	761.6	56.1	13.4	51.6	1	10	6	2	2	1	2	7	.....	.....	.....	5	1.07	27.2
Semp latinsk	N. 50 24	E. 80 13	5.29 p.m.	607?	185?	29.24	742.7	29.88	758.8	66.6	19.2	40.8	1	5	4	2	1	1	1	7	9	.....	.....	6	0.49	12.4
Tashkend	N. 41 19	E. 69 16	4.45 p.m.	1493?	455?	28.35	720.1	29.85	758.2	77.0	25.0	49.3	5	3	1	.....	.....	1	.....	1	20	.....	.....	4	1.21	30.8
Tiflis	N. 41 43	E. 44 47	3.07 p.m.	1343	409	28.49	723.7	29.88	758.8	68.2	20.1	57.1	2	10	1	.....	5	4	2	1	6	.....	.....	7	4.62	117.3
Vladivostock	N. 43 09	E. 132 00	8.56 p.m.	59?	18?	29.75	755.7	29.82	757.4	47.7	8.7	84.5	1	3	.....	2	1	12	4	1	7	.....	.....	6	3.17	80.5
Warsaw	N. 52 13	E. 21 02	1.32 p.m.	392	119	29.57	751.0	29.98	761.5	61.9	16.6	54.7	6	4	2	6	3	4	.....	5	1	.....	.....	9	.....	.....
Wilna	N. 54 41	E. 25 18	1.49 p.m.	388	118	29.57	751.0	29.98	761.4	62.6	17.0	54.7	5	7	2	1	7	4	2	3	.....	.....	.....	6	1.67	42.4
Yeniseisk	N. 58 27	E. 92 06	6.16 p.m.	262?	80?	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
SPANISH.																										
Barcelona	N. 41 23	E. 2 11	0.16 p.m.	98	30	29.89	759.2	29.99	761.8	68.9	20.5	62	.....	.....	2	6	6	8	8	1	.....	1529	2461	3	0.55	13.9
Bilbao	N. 43 15	W. 2 59	11.56 a.m.	52	16	29.95	760.6	30.00	762.1	69.4	20.8	55	.....	12	3	1	3	5	5	2	.....	1552	2498	7	1.38	35.0
Burgos	N. 42 20	W. 3 46	11.53 a.m.	2821	860	27.06	687.2	29.98	761.6	60.4	15.8	63	5	.....	1	10	5	.....	.....	10	.....	5380	8658	6	4.78	121.5
Madrid	N. 40 25	W. 3 42	11.53 a.m.	2152	656	27.77	705.3	29.93	760.2	70.2	21.2	49.9	1	.....	5	10	2	5	4	3	1	803	1292	3	3.30	83.9
Murcia	N. 37 59	W. 1 10	0.03 p.m.	141	43	29.83	757.6	30.00	761.9	67.1	19.5	60.4	.....	1	.....	3	4	7	12	4	.....	1921	3091	6	0.99	25.1
Santiago	N. 42 53	W. 8 28	11.34 a.m.	863	263	29.01	736.9	29.89	759.3	63.1	17.3	66	1	.....	2	10	3	1	1	6	7	828	1332	7	7.64	194.1
Sub-Series.																										
Havana	N. 23 08	W. 82 28	7.39 a.m.	62	19	29.95	760.7	30.01	762.4	77.2	25.2	80.2	2	.....	.....	2	4	13	7	3	.....	.....	.....	4	7.62	193.5
Manilla	N. 14 35	E. 121 00	8.12 p.m.	56	17	29.82	757.5	29.88	759.0	83.9	28.8	75.8	7	2	2	3	8	6	1	2	.....	.....	.....	4	5.92	150.4
San Fernando	N. 36 28	W. 6 13	11.43 a.m.	95	29	29.94	760.5	30.04	763.1	66.8	19.3	67	.....	2	15	4	2	6	2	.....	.....	.....	.....	5	2.74	69.6
San Juan de Porto Rico	N. 18 30	W. 66 10	7.44 a.m.	82	25	29.98	761.4	30.07	763.7	79.5	26.4	87.1n	.....	.....	.....	1	2	7	2	.....	19	.....	.....	3	3.61	91.8
Tuguegarao	N. 17 37	E. 121 30	8.15 p.m.	125	38	29.77	756.1	29.90	759.4	80.4	26.9	79.9	1	21	2	.....	1	3	2	.....	1	.....	.....	6	0.93	23.7

‖ Below sea level.

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea. Feet.	Met'rs	Result of Simultaneous Observations for May, 1882. Mean Barometer. Actual. Inch.	Actual. Mill.	Reduced. Inch.	Reduced. Mill.	Mean Temperature. Fah.	Cent.	Mean Rel. Humidity.	Wind. Directions. N	NW	W	SW	S	SE	E	NE	C	Total Movement. Miles	Kil.	Average Cloudiness. 0-10	Total Precipitation. Inch.	Mill.
SWEDISH.	° ′	° ′																								
Haparanda	N. 65 47	E. 24 03	1.44 p.m.	29	9	29.96	760.9	30.00	761.9	47.1	8.4	64	8	1	1	3	14	.....	1	2	1	.....	.....	7	0.56	14.1
Umea	N. 63 50	E. 20 17	1.29 p.m.	39	12	29.95	760.6	30.00	761.9	51.1	10.6	64	4	3	.....	8	6	1	6	3	.....	.....	.....	7	1.70	43.3
Hernosand	N. 62 32	E. 17 57	1.20 p.m.	46	14	29.93	760.1	29.98	761.4	52.9	11.6	62	7	1	1	4	9	2	3	4	.....	.....	.....	6	2.31	58.7
Stockholm	N. 59 20	E. 18 04	1.20 p.m.	144	44	29.83	757.7	30.01	762.2	55.9	13.3	52	6	.....	4	7	7	2	1	4	.....	.....	.....	6	2.15	54.5
Wisby	N. 57 39	E. 18 19	1.20 p.m.	52	16	29.95	760.6	30.00	762.1	53.6	12.0	66	8	4	6	4	1	3	3	2	.....	.....	.....	4	0.85	21.6
Sub-Series.																										
Upsala	N. 59 51	E. 17 37	1.19 p.m.	79	24	29.89	759.2	29.98	761.4	56.1	13.4	56.8	5	3	3	7	7	3	.....	3	.....	.....	.....	7	2.81	71.3
SWISS.																										
Geneva	N. 46 12	E. 6 08	0.33 p.m.	1338	408	28.61	726.8	30.02	762.4	61.9	16.6	58.3	15	3	1	1	4	2	.....	5	.....	.....	.....	4	3.54	90.0
TURKISH.																										
Constantinople	N 41 00	E. 28 59	2.04 p.m.	230	70	.....	.....	29.97	761.3	63.3	17.4	55	10	.....	1	5	3	3	2	7	.....	.....	.....	4	1.49	37.8
Valona	N. 40 27	E. 19 27	1.25 p.m.	105	32	.....	.....	30.08	763.9	72.3	22.4	.....	.....	10	7	13	1	.....	.....	.....	.....	.....	.....	3	.....	.....
Sub-Series.																										
Beirut	N. 33 54	E. 35 28	2.30 p.m.	111	34	.....	.....	29.92	759.9	73.2	22.9	69.3	4	3	10	13	.....	.....	.....	1	.....	.....	.....	3	2.57	65.3
UNITED STATES.																										
Albany	N. 42 40	W. 73 45	7.13 a.m.	75	23	29.97	761.2	30.05	763.3	52.5	11.4	62.0	9	1	5	4	6	1	.....	2	3	4120	6630	7	4.15	105.4
Alpena *a*	N. 45 05	W. 83 28	6.34 a.m.	609	185	29.40	746.7	30.06	763.5	43.2	6.2	66.7	2	7	4	.....	.....	5	8	3	1	7582	12202	5	4.49	114.0
Atlanta	N. 33 45	W. 84 23	6.31 a.m.	1131	345	28.89	733.8	30.06	763.5	60.5	15.8	75.0	3	6	3	5	3	4	5	2	.....	5755	9262	5	3.02	76.7
Atlantic City	N. 39 22	W. 74 25	7.11 a.m.	13	4	30.01	762.2	30.02	762.5	52.1	11.2	82.2	6	2	2	7	2	2	3	7	.....	9307	14978	7	5.27	133.9
Augusta	N. 33 28	W. 81 54	6.41 a.m.	183	56	29.89	759.2	30.08	764.0	63.4	17.4	80.8	.....	4	4	2	5	2	2	4	8	2975	4787	5	3.70	94.0
Baltimore	N. 39 18	W. 76 38	7.02 a.m.	45	14	30.02	762.5	30.06	763.5	55.8	13.2	73.4	7	1	2	.....	7	2	5	3	4	4210	6775	7	3.42	86.9
Barnegat	N. 39 48	W. 74 09	7.12 a.m.	20	6	30.01	762.2	30.03	762.7	52.1	11.2	80.2	4	3	3	5	4	4	7	1	.....	9878	15897	6	7.22	183.4
Bismarck	N. 46 48	W. 100 38	5.26 a.m.	1694	516	28.16	715.3	29.94	760.5	44.3	6.8	79.1	4	5	1	.....	3	4	6	5	3	8707	14012	4	3.46	87.9
Boise City	N. 43 46	W. 116 06	4.24 a.m.	2750	838	27.14	689.3	29.98	761.5	46.8	8.2	70.2	5	9	12	1	.....	.....	2	.....	2	4985	8022	4	0.34	8.6
Boston	N. 42 21	W. 71 04	7.23 a.m.	142	43	29.88	758.9	30.04	763.0	47.5	8.6	70.6	2	3	9	5	.....	1	2	8	1	8955	14411	6	6.05	153.7
Brownsville	N. 26 00	W. 97 30	5.38 a.m.	43	13	29.84	757.9	29.88	758.9	75.4	24.1	91.0	3	1	.....	.....	3	10	8	.....	6	5435	8747	7	7.07	179.6
Buffalo	N. 42 53	W. 78 55	6.52 a.m.	696	212	29.28	743.7	30.02	762.5	46.6	8.1	70.0	5	1	4	3	4	3	2	9	.....	6723	10819	6	6.89	175.0
Burlington	N. 44 29	W. 73 13	7.15 a.m.	268	82	29.73	755.1	30.02	762.5	47.7	8.7	65.3	7	1	1	1	8	2	1	....	10	4316	6946	7	2.00	50.8
Cairo	N. 37 00	W. 89 12	6.11 a.m.	377	115	29.63	752.6	30.03	762.7	59.5	15.3	79.1	5	4	1	4	5	4	2	3	3	6015	9680	6	10.22	259.6
Campc *d*	N. 32 22	W. 116 08	4.22 a.m.	2500	762	27.36	694.9	29.89	759.2	39.2	4.0	76.6	.....	4	3	7	8	1	2	2	.....	3692e	5942e	3	0.18	4.6
Camp Thomas	N. 33 04	W. 110 06	4.49 a.m.	2710	826	27.13	689.1	29.80	756.9	52.6	11.4	56.4	6	.....	.....	.....	5	7	.. ..	.....	13	.....	.....	2	0.47	11.9
Cape Henry	N. 36 56	W. 76 00	7.04 a.m.	16	5	30.03	762.7	30.05	763.3	58.7	14.8	78.3	.....	6	4	8	3	1	1	8	.....	10298	16583	5	5.18	131.6
Cape May *d*	N. 38 56	W. 74 58	7.08 a.m.	27	8	29.98	761.5	30.01	762.2	52.9	11.6	82.2	2	3	1	5	1	1	4	7	3	9771	15725	6	4.40	111.8
Cedar Keys	N. 29 12	W. 83 02	6.36 a.m.	22	7	30.03	762.7	30.05	763.3	71.7	22.1	74.9	2	2	3	1	4	6	7	5	1	7106	11436	5	1.71	43.4
Champaign	N. 40 07	W. 88 14	6.15 a.m.	767	234	29.15	740.4	29.95	760.7	51.2	10.7	79.2	7	1	.....	3	9	2	3	6	.....	9610	15466	6	8.55	217.2
Charleston	N. 32 45	W. 79 55	6.49 a.m.	52	16	30.00	762.0	30.05	763.3	68.0	20.0	82.4	1	4	5	9	1	.. ..	1	8	2	6454	10386	5	1.82	46.2
Charlotte	N. 35 13	W. 80 51	6.45 a.m.	808	246	29.18	741.2	30.02	762.5	60.8	16.0	75.9	3	4	3	10	3	1	1	6	.....	4224	6798	5	3.22	81.8
Chattanooga	N. 35 04	W. 85 15	6.27 a.m.	783	239	29.23	742.4	30.04	763.0	59.1	15.1	78.5	4	6	3	5	5	3	2	.....	3	4458	7174	5	4.46	113.3
Cheyenne	N. 41 12	W. 104 42	5.09 a.m.	6089	1856	23.99	609.3	29.86	758.4	38.6	3.7	73.5	5	8	3	4	6	3	.....	2	.....	8457	13610	6	2.73	69.3
Chicago	N. 41 52	W. 87 35	6.18 a.m.	661	201	29.28	743.7	29.98	761.5	49.5	9.7	76.1	5	2	2	4	5	3	2	8	.....	7232	11638	6	5.52	140.2
Chincoteague	N. 37 55	W. 75 20	7.06 a.m.	18	5	30.01	762.2	30.03	762.7	55.2	12.9	85.2	5	3	2	2	7	1	4	7	.....	7880	12681	6	4.16	105.7
Cincinnati	N. 39 06	W. 84 26	5.30 a.m.	620	189	29.36	745.7	30.01	762.2	55.7	13.2	77.0	8	1	1	1	4	8	5	3	.....	4113	6619	6	8.47	215.1
Cleveland	N. 41 30	W. 81 47	6.42 a.m.	690	210	29.28	743.7	30.01	762.2	48.6	9.2	75.0	2	2	1	2	3	8	2	10	1	6029	9703	6	5.27	133.9
Coleman City	N. 31 55	W. 99 10	5.32 a.m.	1709	521	28.15	715.0	29.94	760.5	60.3	15.7	81.5	3	3	1	2	8	8	2	4	.....	8230	13245	6	3.91	99.3
Columbus	N. 39 57	W. 83 03	6.36 a.m.	805	245	29.14	740.1	29.98	761.5	51.9	11.1	76.6	8	3	1	5	3	6	1	3	1	4990	8030	6	9.59	243.6
Concho	N. 31 22	W. 100 20	5.26 a.m.	1900	579	28.01	711.4	29.91	759.7	61.8	16.6	72.1	2	3	1	4	5	5	3	5	3	9364	15070	5	2.26	57.4
Davenport	N. 41 32	W. 90 30	6.06 a.m.	615	187	29.33	745.0	29.97	761.2	51.2	10.7	73.8	2	4	.....	3	6	4	3	8	1	7680	12360	6	5.49	139.4
Dayton	N. 46 23	W. 117 50	4.16 a.m.	1660	506	28.27	718.0	30.02	762.5	43.3	6.3	80.5	.....	.....	1	14	.....	1	4	6	5	3833	6168	4	1.93	49.0
Deadwood	N. 44 22	W. 103 34	5.14 a.m.	4600	1402	25.33	643.4	29.84	757.9	41.8	5.4	80.8	3	2	.....	17	3	.....	2	3	1	4463	7182	6	7.05	179.1
Decatur *g*	N. 33 10	W. 97 30	5.38 a.m.	1129	344	.....	.....	.....	.....	59.6	15.3	62.1	4	4	.....	1	2	7	.....	6	.....	6285	10114	5	4.61	117.1
Del. Breakwater	N. 38 48	W. 75 05	7.08 a.m.	20	6	30.01	762.2	30.03	762.7	53.2	11.8	84.7	4	2	1	7	3	.....	3	11	.....	12967	20868	6	2.36	59.9
Denison *a*	N. 33 50	W. 96 40	5.41 a.m.	767	234	29.14	740.1	29.94	760.5	60.9	16.1	79.6	3	5	1	2	9	3	1	.....	6	5050	8127	5	4.64	117.9
Denver	N. 39 45	W. 105 04	5.08 a.m.	5294	1614	24.69	627.1	29.85	758.2	45.4	7.4	70.2	5	5	4	2	12	1	1	1	.....	5708	9186	5	2.98	75.7
Des Moines	N. 41 35	W. 93 40	5.53 a.m.	849	259	29.08	738.6	29.97	761.2	48.8	9.3	80.0	5	1	1	3	6	.....	3	8	4	6268	10087	7	8.53	216.7
Detroit	N. 42 21	W. 83 07	6.36 a.m.	661	201	29.31	744.5	30.01	762.2	49.3	9.6	74.9	6	4	2	2	5	1	2	8	.....	7931	12764	6	4.82	122.4
Dodge City *b*	N. 37 39	W. 100 08	5.27 a.m.	2512	766	27.35	694.7	29.90	759.4	49.1	9.5	83.4	8	4	1	2	6	5	.....	3	.....	11276	18137	6	3.87	98.3
Dubuque	N. 42 30	W. 90 44	6.05 a.m.	665	203	29.27	743.4	29.97	761.2	49.7	9.8	72.4	3	4	3	.....	9	3	2	6	1	5190	8352	6	4.16	105.7
Duluth	N. 46 48	W. 92 08	6.00 a.m.	644	184	29.34	745.2	30.04	763.0	42.3	5.7	69.5	3	3	1	5	.....	1	.....	15	3	6233	10031	5	7.14	181.4
Eagle Pass	N. 28 40	W. 100 15	5.26 a.m.	780	238	29.14	740.1	29.94	760.5	68.8	20.4	79.4	.....	.....	.....	....	2	19	5	1	4	5442	8758	6	4.98	126.5
Eagle Rock	N. 43 30	W. 112 04	4.40 a.m.	4650	1415	25.24	641.1	29.92	760.0	38.7	3.7	67.3	10	1	3	6	10	.....	.....	.....	1	8088	13016	3	0.30	7.6
Eastport	N. 44 55	W. 66 54	7.40 a.m.	61	18	29.94	760.5	30.01	762.2	43.3	6.3	70.6	5	3	5	2	6	.....	2	7	1	7533	12123	5	3.30	83.8
El Paso	N. 31 46	W. 106 32	5.02 a.m.	3760	1146	26.20	665.5	29.84	757.9	55.3	12.9	52.7	1	16	1	.....	.....	1	4	4	2	5811	9352	1	0.10	2.5
Erie	N. 42 07	W. 80 10	6.47 a.m.	681	208	29.30	744.2	30.02	762.5	49.3	9.6	73.9	1	1	2	2	8	1	3	10	3	5566	8958	4	5.63	143.0
Escanaba	N. 45 46	W. 87 14	6.20 a.m.	612	186	29.38	746.2	30.04	763.0	43.8	6.6	72.3	9	3	2	1	4	1	1	5	5	7307	11759	5	4.94	125.5
Fort Apache	N. 33 47	W. 109 58	4.49 a.m.	5050	1539	24.98	634.5	29.80	756.9	39.3	4.1	60.9	.....	.....	1	1	.....	.....	13	16	.....	5735	9229	2	0.94	23.9
Fort Assinnaboine	N. 48 37	W. 109 43	4.49 a.m.	2710	826	27.13	689.1	29.97	761.2	42.7	5.9	75.3	1	1	4	12	2	1	3	5	2	7224	11626	5	1.35	34.3
Fort Bennett	N. 44 42	W. 100 38	5.26 a.m.	1510	457	28.38	720.8	29.94	760.5	46.5	8.1	81.3	1	7	4	1	.....	12	.....	4	2	8194	13187	6	1.35	34.3
Fort Benton	N. 47 51	W. 110 40	4.45 a.m.	2700	823	27.16	689.9	29.95	760.7	43.1	6.2	76.4	.....	3	8	4	1	1	1	4	9	6966	11114	5	0.35	8.9
Fort Buford	N. 48 03	W. 103 58	5.12 a.m.	1900	579	27.99	710.9	29.97	761.2	43.3	6.3	74.3	3	1	3	.....	3	.....	7	11	3	8458	13612	5	1.61	40.9
Fort Custer	N. 45 48	W. 107 38	4.58 a.m.	3040	927	26.79	680.5	29.89	759.2	43.9	6.6	83.7	2	6	3	4	3	7	3	2	1	6396	10293	6	4.45	113.0
Fort Davis	N. 30 30	W. 103 45	5.13 a.m.	4940	1506	25.16	639.1	29.88	758.9	55.6	13.1	60.9	5	2	.....	7	8	.....	1	.....	8	4000	7403	3	0.04	1.0
Fort Elliott	N. 35 31	W. 100 27	5.28 a.m.	2650	808	27.16	689.9	29.86	758.4	50.2	10.1	65.6	6	7	.....	1	1	11	2	2	1	9411	15145	4	7.48	190.0
Fort Gibson	N. 35 43	W. 95 16	5.48 a.m.	540	165	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Fort Grant	N. 32 25	W. 109 56	4.49 a.m.	4860	1481	25.16	639.1	29.77	756.1	55.0	12.8	27.4	.....	1	1	6	.....	8	8	4	3	5302	8533	3	0.81	20.6
Fort Keogh *a*	N. 46 17	W. 105 55	5.05 a.m.	2372	723	27.44	697.0	29.89	759.2	44.7	7.1	74.0	1	4	3	6	.....	9	2	5	.....	9211	14823	6	2.57	65.3
Fort Macon	N. 34 42	W. 76 40	7.01 a.m.	11	3	30.04	763.0	30.05	763.3	64.0	17.8	85.0	4	1	4	7	4	.....	5	6	.....	9793	15760	4	2.11	53.6
Fort McKavett	N. 30 48	W. 99 58	5.28 a.m.	2240	683	27.72	704.1	29.96	761.0	63.4	17.4	74.6	3	1	1	5	8	9	1	2	1	7748	12469	4	3.96	100.6
Fort Missoula	N. 46 50	W. 114 01	4.32 a.m.	3140	957	26.71	678.4	30.01	762.2	40.9	4.9	84.2	.....	5	4	10	2	3	1	6	.....	3101	4990	5	0.96	24.4
Fort St. Michael	N. 63 48	W. 162 00	1.20 a.m.	30	9	29.95	760.7	29.98	761.5	31.0	—0.6	93.8	11	1	.....	7	3	3	1	4	1	5152	8291	3	0.18	4.6
Fort Shaw	N. 47 29	W. 111 46	4.41 a.m.	3550	1082	26.34	669.0	29.94	760.5	39.0	3.9	79.2	1	2	25	1	1	.....	1	.....	.....	6024	9694	5	1.45	36.8
Fort Sill	N. 34 40	W. 98 30	5.34 a.m.	1200	366	28.72	729.5	29.94	760.5	57.9	14.4	81.7	6	4	.....	.....	8	3	3	1	6	9482	15260	5	4.40	111.8
Fort Stevenson	N. 47 36	W. 101 23	5.22 a.m.	1750	534	28.12	714.2	29.95	760.7	42.9	6.1	85.9	1	4	1	2	1	3	8	7	4	7507	12084	5	2.49	63.2
Fort Verde	N. 34 24	W. 111 53	4.38 a.m.	?	?	.....	.....	.....	.....	51.2	10.7	47.8	2	10	7	8	2	2	.....	.....	.....	.....	.....	2	0.19	4.8
Fort Washakie	N. 42 59	W. 108 43	4.50 a.m.	5580	1702	24.42	620.3	.....	.....	37.9	3.3	81.7	1	5	8	4	1	3	2	.....	7	4494	7231	6	5.77	146.6
Fredericksburg *d*	N. 30 20	W. 98 40	5.33 a.m.	1700	518	28.22	716.8	29.94	760.5	63.4	17.4	88.4	2	2	2	6	2	3	4	1	5	4748	7641	6	5.57	141.5
Galveston	N. 29 18	W. 94 50	5.49 a.m.	48	15	29.91	759.7	29.96	761.0	72.2	22.3	79.1	2	1	.....	2	6	13	1	6	.....	10216	16441	5	3.75	95.2
Grand Haven	N. 43 05	W. 86 18	6.23 a.m.	620	189	29.34	745.2	30.00	762.0	49.1	9.5	66.2	2	2	2	6	2	1	6	10	.....	8478	13644	5	4.04	102.6
Hatteras	N. 35 14	W. 75 30	7.06 a.m.	19	6	30.03	762.7	30.05	763.3	62.4	16.9	83.2	3	2	.. ..	10	3	.....	3	9	1	11972	19267	4	1.02	25.9
Helena	N. 46 33	W. 112 02	4.40 a.m.	4100	1250	25.77	654.5	29.94	760.5	42.7	5.9	66.3	.....	2	9	9	1	3	....	.....	7	4901	7887	6	0.54	13.7
Henrietta *a*	N. 33 42	W. 98 00	5.36 a.m.	980	300	28.98	736.1	29.96	761.0	61.0	16.1	77.4	6	2	2	.....	6	9	.....	3	2	8217	13224	4	2.73	69.3
Huron	N. 44 21	W. 98 17	5.35 a.m.	1305	398	28.58	725.9	29.93	760.2	45.5	7.5	81.0	5	6	2	.....	5	7	3	3	.....	8966	14429	6	4.50	114.3
Indianapolis	N. 39 47	W. 86 06	6.24 a.m.	753	229	29.19	741.4	29.98	761.5	53.7	12.1	71.7	4	3	.....	3	6	5	4	5	1	4148	6514	6	7.65	194.3
Indianola	N. 28 32	W. 96 38	5.42 a.m.	26	8	29.92	760.0	29.94	760.5	72.3	22.4	84.5	5	.....	1	1	5	11	2	6	.....	11495	18419	5	6.58	167.1
Jacksboro	N. 33 10	W. 98 00	5.35 a.m.	1120	341	28.79	731.3	29.94	760.5	61.0	16.1	83.1	5	2	1	3	7	4	8	1	.....	7226	11629	5	2.72	69.1
Jacksonville	N. 30 24	W. 81 40	6.41 a.m.	43	13	30.01	762.2	30.05	763.3	72.4	22.4	76.5	1	.....	3	6	5	2	8	4	2	5120	8240	4	2.20	55.9
Keokuk	N. 40 23	W. 91 25	6.02 a.m.	618	188	29.30	744.2	29.95	760.7	52.4	11.3	80.1	3	4	1	2	2	6	5	3	5	6044	9727	6	7.11	180.6
Key West	N. 24 32	W. 81 48	6.41 a.m.	20	6	29.99	761.7	30.01	762.2	78.9	26.1	72.8	3	1	.....	1	5	5	7	4	5	6607	10633	5	7.46	189.5
Kittyhawk	N. 36 00	W. 75 23	7.05 a.m.	22	7	30.05	763.3	30.07	763.8	59.0	15.0	84.7	4	1	4	9	1	1	2	9	.....	11354	18272	4	2.22	56.4
Knoxville	N. 35 56	W. 83 58	6.32 a.m.	980	299	29.02	737.1	30.04	763.0	57.5	14.2	82.9	3	.....	4	8	.....	2	2	8	4	4299	9618	5	6.77	172.0
La Crosse	N. 43 48	W. 91 23	6.03 a.m.	725	221	29.21	741.9	29.97	761.2	50.2	10.1	57.2	6	1	4	2	8	3	1	5	1	7201	11589	5	2.49	63.2
La Mesilla	N. 32 17	W. 106 48	5.48 a.m.	3900	1189	26.03	661.2	29.79	756.7	49.3	9.6	53.9	.....	.....	1	.....	.....	3	.....	.....	27	2562	4123	3	0.10	2.5
Leavenworth	N. 39 19	W. 94 57	5.10 a.m.	842	256	29.08	738.6	29.96	761.0	53.0	11.7	77.1	3	7	.....	.....	7	3	4	.....	7	5378	8655	7	2.53	64.3
Lewiston	N. 46 25	W. 116 59	4.20 a.m.	780	238	29.18	741.2	30.02	762.5	48.0	8.9	72.4	.....	.....	1	2	1	4	9	3	11	2479	3990	5	0.65	16.5
Little Rock	N. 34 40	W. 92 12	5.59 a.m.	298	91	29.66	753.4	29.97	761.2	60.9	16.1	87.0	3	5	4	1	2	2	6	4	4	4391	7066	6	15.91	404.1
Los Angeles	N. 34 03	W. 118 16	4.15 a.m.	371	113	29.60	751.8	30.00	762.0	52.6	11.4	81.7	6	1	2	4	3	5	5	4	1	3877	6239	4	0.63	16.0
Louisville	N. 38 18	W 85 52	6.25 a.m.	530	162	29.41	747.0	30.05	763.3	64.1	17.8	79.2	2	1	5	6	2	8	3	2	2	3875	6236	5	2.94	74.7

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea		Result of Simultaneous Observations for May, 1882.																					Average Cloudiness.	Total Precipitation.	
						Mean Barometer.				Mean Temperature.		Mean Rel. Humidity.	Wind.																
						Actual.		Reduced.					Directions.									Total Movement.							
				Feet.	Met'rs	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.		N	NW	W	SW	S	SE	E	NE	C	Miles	Kil.	0-10	Inch.	Mill.
U. S.—Continued.	° ′	° ′																											
Lynchburg	N. 37 30	W. 79 02	6.52 a.m.	652	199	29.37	746.0	30.05	763.3	58.2	14.6	69.6	2	4	.....	7	4	.....	2	4	8	2695	4337	6	3.15	80.0
Madison	N. 43 03	W. 89 30	6.10 a.m.	949	289	28.99	736.3	29.99	761.7	46.6	8.1	80.2	3	3	3	1	5	4	5	7	.....	8346	13431	6	2.89	73.4
Marquette	N. 46 33	W. 87 36	6.19 a.m.	673	205	29.33	745.0	30.05	763.3	45.1	7.3	62.0	4	6	3	4	3	1	3	5	2	6139	9880	4	2.88	73.2
Memphis	N. 35 07	W. 90 07	6.08 a.m.	321	98	29.07	753.6	30.00	762.0	62.7	17.1	77.0	2	3	4	1	4	7	4	6	.....	4700	7574	6	9.14	232.2
Milwaukee	N. 43 03	W. 87 54	6.17 a.m.	697	212	29.25	742.9	29.99	761.7	46.2	7.9	74.6	7	.....	3	7	3	1	3	7	.....	10211	16333	6	2.03	51.6
Mobile	N. 30 42	W. 87 59	6.16 a.m.	41	12	30.00	762.0	30.04	763.0	66.8	19.3	81.4	12	1	1	3	4	4	2	3	1	5487	8830	4	6.78	172.2
Montgomery	N. 32 22	W. 86 23	6.23 a.m.	219	66	29.82	757.4	30.05	763.3	64.1	17.8	79.2	2	1	5	6	2	8	3	2	2	3875	6236	5	2.94	74.7
Moorhead	N. 46 52	W. 96 40	5.41 a.m.	923	281	28.99	736.3	29.97	761.2	43.6	6.4	80.4	3	3	2	2	4	7	1	6	3	9202	14809	5	5.32	135.1
Morgantown	N. 39 36	W. 79 52	6.48 a.m.	963	293	29.01	736.8	30.02	762.5	54.8	12.7	75.9	2	.....	.....	2	1	1	2	1	22	3942	6344	5	4.51	114.6
Mt. Washington	N. 44 16	W. 71 16	7.22 a.m.	6279	1914	23.67	601.2	29.85	758.2	24.7	—4.1	87.0	2	19	2	.....	.....	3	3	2	.....	27241	43839	5	8.91	226.3
Nashville	N. 36 11	W. 86 53	6.21 a.m.	507	154	29.47	748.5	30.00	762.0	59.2	15.1	80.4	3	5	4	2	1	6	1	2	7	3362	5410	6	7.34	186.4
New Haven	N. 41 17	W. 72 57	7.16 a.m.	107	32	29.91	759.7	30.03	762.7	48.7	9.3	72.8	8	2	2	6	2	1	2	8	.....	6846	11018	7	5.05	128.3
New London	N. 41 22	W. 72 09	7.19 a.m.	47	14	29.99	761.7	30.04	763.0	50.8	10.4	74.7	7	3	3	2	3	2	2	8	1	6285	10114	6	4.13	104.9
New Orleans	N. 29 58	W. 90 07	6.08 a.m.	52	16	29.95	760.7	30.00	762.0	70.7	21.5	77.0	2	4	1	2	6	5	6	5	.....	6256	10068	5	6.83	173.5
Newport	N. 41 29	W. 71 19	7.23 a.m.	44	13	29.98	761.5	30.03	762.7	49.0	9.4	73.2	7	3	4	8	.....	.....	1	7	1	7050	11346	6	4.55	115.6
New River, *f*	N. 34 30	W. 77 23	6.58 a.m.	.....	.....	.....	.....	.....	.....	63.0	17.2	78.5	2	3	4	3	3	.....	.....	7	3	.....	.....	3	2.79	70.9
New Shoreham	N. 41 10	W. 71 37	7.22 a.m.	27	8	29.99	761.7	30.02	762.5	47.8	8.8	81.0	2	4	3	6	1	1	.....	11	3	12382	19926	6	5.51	140.0
New York	N. 40 43	W. 74 00	7.12 a.m.	164	50	29.87	758.7	30.05	763.3	50.5	10.3	78.4	4	3	5	6	1	1	1	9	1	7018	11294	6	4.21	106.9
Norfolk	N. 36 51	W. 76 19	7.03 a.m.	30	9	30.02	762.5	30.05	763.3	60.7	15.9	78.5	3	5	2	9	1	.....	3	8	.....	5621	9046	6	5.87	149.1
North Platte	N. 41 08	W. 100 53	5.24 a.m.	2841	866	27.04	686.8	29.91	759.7	48.0	8.9	82.0	0	6	1	.....	2	7	5	2	2	9393	15116	7	3.98	101.1
Olympia	N. 47 02	W. 122 56	3.56 a.m.	36	11	30.04	763.0	30.08	764.0	44.6	7.0	86.4	1	1	1	1	14	.....	.....	3	10	3039	4891	6	2.30	58.4
Omaha	N. 41 16	W. 96 00	5.45 a.m.	1113	339	28.81	731.8	29.97	761.2	51.3	10.7	79.8	9	2	2	.....	3	7	3	2	3	8495	13671	7	4.91	124.7
Ooglamie	N. 71 17	W. 156 40	1.41 a.m.	17	5	30.07	763.8	30.09	764.3	19.0	—7.2	99.4	1	1	3	4	1	5	4	12	.....	10188	16396	8	0.44	11.2
Oswego	N. 43 29	W. 76 35	7.01 a.m.	304	93	29.70	754.4	30.02	762.5	47.7	8.7	69.2	2	.....	7	4	4	4	2	7	1	6728	10828	5	4.83	122.7
Palestine	N. 31 45	W. 95 40	5.45 a.m.	523	162	29.45	748.0	30.00	762.0	63.3	17.4	85.2	7	3	2	1	4	7	4	3	.....	6951	11186	5	7.56	192.0
Pensacola	N. 30 25	W. 87 12	6.19 a.m.	30	9	30.01	762.2	30.04	763.0	68.8	20.4	80.1	8	4	.....	1	7	7	1	3	.....	7155	11515	4	3.51	89.2
Philadelphia	N. 39 57	W. 75 10	7.07 a.m.	92	28	29.95	760.7	30.05	763.3	53.4	11.9	75.2	3	7	1	6	2	2	2	8	.....	5719	9204	6	5.06	128.5
Pike's Peak	N. 38 50	W. 105 02	5.08 a.m.	14134	4308	17.69	449.3	29.75	755.6	16.1	—8.8	84.6	2	6	5	14	.....	2	.....	2	.....	14716	23683	5	12.34	313.4
Ploche	N. 37 57	W. 114 26	4.30 a.m.	6110	1862	23.90	608.6	29.88	758.9	43.8	6.6	43.4	4	10	1	.....	8	3	.....	.....	5	6733	10836	3	0.29	7.4
Pittsburg	N. 40 32	W. 80 02	6.48 a.m.	762	232	29.20	741.7	30.00	762.0	51.1	10.6	77.0	7	5	.....	3	4	1	3	7	1	4034	6492	6	5.80	147.3
Poplar River	N. 48 08	W. 105 10	5.07 a.m.	2030	619	27.83	706.9	.....	.....	.....	.....	.....	1	7	.....	6	3	13	.....	1	.....	.....	.....	4	3.68	93.5
Port Eads	N. 29 00	W. 89 15	6.11 a.m.	7	2	30.01	762.2	30.02	762.5	71.8	22.1	80.4	7	1	.....	3	3	9	4	3	1	8739	14064	3	6.37	161.8
Port Huron	N. 42 58	W. 82 29	6.38 a.m	633	193	29.34	745.2	30.02	762.5	45.8	7.7	76.5	6	1	3	5	2	1	3	9	1	7941	12780	6	4.99	126.7
Portland, Maine	N. 43 40	W. 70 16	7.27 a.m.	45	14	29.96	761.0	30.02	762.5	48.1	8.9	65.1	4	3	5	4	5	2	2	6	.....	7080	11394	6	3.95	100.3
Portland, Oregon	N. 45 30	W. 122 28	3.57 a.m	67	20	30.01	762.2	30.08	764.0	48.1	8.9	79.8	2	3	.....	1	7	3	1	.....	14	4094	6588	6	1.84	46.7
Portsmouth	N. 35 02	W. 76 04	7.04 a.m.	40	12	.....	.....	.....	.....	64.6	18.1	76.2	1	2	3	9	2	.....	1	12	1	12313	19815	6	0.58	14.7
Prescott	N. 34 29	W. 112 13	4.38 a.m.	5340	1628	24.70	627.4	29.80	756.9	43.4	6.3	44.8	....	.....	.....	.....	31	.....	.....	.....	.....	5992	9643	2	0.45	11.4
Provincetown	N. 40 03	W. 70 11	7.27 a.m.	26	8	29.99	761.7	30.02	762.5	46.5	8.1	83.0	5	3	2	7	4	1	2	7	.....	7947	12789	6	5.96	151.4
Punta Rassa	N. 26 36	W. 82 10	6.40 a.m.	13	4	30.01	762.2	30.02	762.5	74.0	23.3	77.3	2	.....	2	4	.....	4	10	9	.....	7505	12078	5	2.51	63.8
Red Bluff	N. 40 10	W. 122 16	3.59 a.m.	350	106	29.59	751.6	29.96	761.0	56.4	13.6	59.0	12	7	2	.....	4	4	.....	.....	2	5527	8895	3	0.33	8.4
Rio Grande City	N. 26 22	W. 98 45	5.33 a.m.	230	70	29.07	753.6	29.91	759.7	74.5	23.6	84.2	2	3	.....	.....	8	12	3	2	1	5410	8706	6	4.11	104.4
Rochester	N. 43 08	W. 77 51	6.58 a.m.	621	189	29.30	745.7	30.02	762.5	46.4	8.0	70.6	2	3	6	6	1	2	7	2	2	8043	13587	6	5.57	141.5
Roseburg, *a*	N. 43 10	W. 123 16	3.55 a.m.	511	156	29.52	749.8	30.06	763.5	44.7	7.1	82.8	.....	3	.....	1	4	1	5	3	13	2540	4088	5	0.85	21.6
Sacramento	N. 38 35	W. 121 31	4.02 a.m.	70	21	29.87	758.7	29.95	760.7	54.8	12.7	73.8	4	2	.....	.....	4	18	.....	.....	3	5593	9001	2	0.35	8.9
Saint Louis	N. 38 37	W. 90 15	6.07 a.m.	568	173	29.40	746.7	29.99	761.7	53.5	11.9	92.3	8	3	2	1	9	5	.....	3	.....	7924	12752	7	4.55	115.6
Saint Paul	N. 44 53	W. 93 05	5.56 a.m.	811	247	29.12	739.0	29.96	761.0	47.7	8.7	68.2	7	2	3	2	1	5	7	2	2	8221	13230	6	2.44	62.0
Saint Vincent	N. 48 58	W. 97 03	5.40 a.m.	804	245	29.13	739.9	29.99	761.7	41.7	5.4	78.9	3	5	2	.....	4	7	1	8	1	7975	12834	4	2.94	74.7
Salt Lake City	N. 40 46	W. 111 54	4.40 a.m.	4348	1325	25.50	649.2	29.88	758.9	49.2	9.6	46.5	.....	6	.....	.....	.....	6	4	2	13	5509	8962	4	0.26	6.6
San Antonio	N. 29 28	W. 98 22	5.34 a.m.	673	205	29.24	742.7	29.94	760.5	66.6	19.2	85.5	7	.....	.....	2	1	6	6	4	5	4033	7456	6	6.79	172.5
San Diego	N. 32 32	W. 117 08	4.20 a.m.	67	20	29.88	758.9	29.94	760.5	57.4	14.1	80.2	3	5	4	5	2	3	5	4	.....	4857	7816	4	0.18	4.6
Sandusky	N. 41 27	W. 82 43	6.37 a.m.	639	195	29.32	744.7	29.99	761.7	50.4	10.2	76.0	8	1	2	4	4	2	6	4	.....	10631	17109	6	7.11	180.6
Sandy Hook	N. 40 28	W. 74 01	7.12 a.m.	28	8	30.00	762.0	30.04	763.0	51.4	10.8	79.7	2	4	4	6	2	.....	5	8	.....	10214	16438	5	7.21	183.1
San Francisco	N. 37 48	W. 122 26	3.58 a.m.	60	18	29.93	760.2	30.00	762.0	52.4	11.3	81.2	.....	1	15	11	3	.....	.....	.....	1	8300	13357	4	0.21	5.3
Santa Fé	N. 35 41	W. 106 10	5.04 a.m.	7106	2166	23.17	588.5	29.78	756.4	44.3	6.8	48.4	2	.....	.....	2	2	4	8	11	2	7373	11866	3	1.06	26.9
Savannah, *a*	N. 32 05	W. 81 08	6.44 a.m.	87	26	29.98	761.5	30.07	763.8	68.9	20.5	75.8	6	4	3	5	4	2	2	4	.....	5385	8666	4	1.60	40.6
Shreveport	N. 32 30	W. 93 45	5.54 a.m.	227	69	29.74	755.4	29.98	761.5	63.6	17.6	84.5	5	3	1	1	5	7	3	1	5	4068	7512	5	4.59	116.6
Silver City	N. 32 48	W. 108 15	4.55 a.m.	5890	1795	24.21	614.9	29.76	755.9	44.1	6.7	48.0	2	10	7	4	3	.....	.....	.....	5	2847	4582	2	1.37	34.8
Sitka	N. 57 03	W. 135 19	3.07 a.m.	63	19	29.91	759.7	29.97	761.2	43.1	6.2	75.1	1	1	.....	3	1	6	3	12	4	5700	9270	6	2.89	73.4
Smithville	N. 33 55	W. 78 01	6.56 a.m.	34	10	30.02	762.5	30.06	763.5	65.2	18.4	81.5	5	4	5	4	2	1	5	5	.....	7915	12736	4	1.17	29.7
Spokane Falls	N. 47 39	W. 117 24	4.18 a.m.	1910?	582?	27.97	710.4	30.02	762.5	44.4	6.9	79.5	1	3	2	3	9	1	2	3	7	4046	7477	6	1.54	39.1
Springfield, Ill.	N. 39 48	W. 89 48	6.10 a.m.	644	196	29.31	744.5	29.98	761.5	53.3	11.8	74.3	6	3	1	3	7	3	2	5	1	6553	10546	6	10.59	269.0
Springfield, Mass.	N. 42 06	W. 72 36	7.18 a.m.	120	37	29.91	759.7	30.04	763.0	49.9	9.9	69.7	7	2	3	.....	10	1	.....	8	.....	4649	7482	6	6.11	155.2
Springfield, Mo.	N. 37 12	W. 93 18	5.55 a.m.	1351	412	28.54	724.9	30.02	762.5	54.9	12.7	82.4	4	4	2	1	9	6	3	2	.....	7708	12405	7	8.07	205.0
Starkville, *c*	N. 33 35	W. 88 49	6.13 a.m.	455	123	29.54	750.3	.....	.....	64.7	18.2	82.7	7	2	2	3	3	9	.....	2	.....	6073	9773	5	3.95	100.3
Stockton	N. 30 50	W. 102 50	5.16 a.m.	3010	917	26.91	683.5	29.92	760.0	57.7	14.3	76.4	.....	2	2	4	11	4	3	1	4	9125	14685	3	0.99	25.1
Thatcher's Island	N. 42 36	W. 70 34	7.26 a.m.	48	15	29.96	761.0	30.01	762.2	45.5	7.5	81.6	3	3	9	2	2	.....	4	8	.....	10870	17493	5	8.72	221.5
Toledo	N. 41 40	W. 83 32	6.34 a.m.	651	198	29.31	744.5	29.99	761.7	49.7	9.8	72.3	7	1	6	4	.....	.....	9	3	1	7088	12372	6	4.99	126.7
Tucson	N. 32 14	W. 110 56	4.44 a.m.	2369	722	27.47	697.7	29.81	757.2	57.6	14.2	46.0	....	.....	.....	.....	12	14	3	.....	2	3133	5042	2	0.01	0.3
Umatilla	N. 45 55	W. 119 21	4.11 a.m.	340	103	29.70	754.4	30.07	763.8	47.5	8.6	67.4	.....	4	5	6	3	6	3	2	2	6537	11003	5	0.26	6.6
Uvalde	N. 29 13	W. 99 40	5.29 a.m.	930	283	28.96	735.6	29.91	759.7	66.4	19.1	82.1	2	.....	.....	1	2	16	3	2	5	4250	6840	6	4.73	120.1
Vicksburg	N. 32 23	W. 90 54	6.04 a.m.	244	74	29.76	755.9	30.01	762.2	65.2	18.4	77.3	2	3	2	2	3	7	6	.....	6	3132	5040	5	8.30	210.8
Visalia *f*	N. 36 20	W. 119 16	4.11 a.m.	348	106	29.55	750.6	29.92	760.0	55.4	13.0	71.5	.....	13	3	.....	1	.....	1	1	2	2946	4741	2	0.37	9.4
Washington, D. C.	N. 38 54	W. 77 02	7.00 a.m.	106	32	29.94	760.5	30.06	763.5	55.0	12.8	78.3	5	4	.....	2	7	1	1	5	6	3090	5938	6	5.00	127.0
W. Las Animas	N. 38 04	W. 103 07	5.16 a.m.	3905	1190	25.99	660.1	29.85	758.2	48.7	9.3	74.2	3	6	5	1	.....	3	6	2	5	9983	16066	6	5.06	128.5
Williamsport	N. 41 15	W. 77 03	7.00 a.m.	561	171	29.44	747.8	30.04	763.0	49.4	9.7	73.2	2	3	5	1	.....	3	3	3	11	3489	5615	6	6.66	169.2
Wilmington	N. 34 11	W. 78 10	6.56 a.m.	52	16	30.01	762.2	30.06	763.5	64.4	18.0	79.0	1	3	7	3	3	.....	4	5	5	5499	8850	5	1.40	35.6
Winnemucca	N. 41 00	W. 117 43	4.17 a.m.	4327	1319	25.60	650.2	29.95	760.7	40.7	4.8	56.9	1	2	.....	14	2	1	.....	10	1	7281	11717	3	0.63	16.0
Yankton	N. 42 45	W. 97 30	5.38 a.m.	1228	374	28.67	728.2	29.95	760.7	48.6	9.2	75.7	5	5	2	3	3	5	1	3	4	8294	13348	5	5.25	133.4
Yuma	N. 32 44	W. 114 36	4.30 a.m.	141	43	29.65	753.1	29.80	756.9	63.3	17.4	58.3	2	5	4	3	1	3	1	2	10	4376	7042	1	0	0
Sub-Series.																													
Bogota	N. 4 36	W. 74 14	7.41 a.m.	8655	2638	22.05	560.1	.....	.....	53.7	12.1	83	2	1	5	4	1	2	4	5	7	.....	.....	8	3.92	99.6
Bridgetown	N. 13 12	W. 59 35	8.10 a.m.	?	?	30.03	762.7	30.04	763.0	82.0	27.8	88.7	....	.....	.....	.....	.....	1	25	5	.....	.....	.....	9	3.73	94.7
Buenaventura	N. 3 50	W. 76 55	7.00 a.m.	18	5	29.98	761.5	30.01	762.2	76.7	24.8	91.0	....	.....	.....	1	8	1	.....	1	20	.....	.....	9	26.10	662.9
Havana	N. 23 09	W. 82 22	6.39 a.m.	50	15	29.99	761.7	30.04	763.0	79.4	26.3	78.3	1	.....	.....	.....	1	11	4	.....	14	2090	3364	3	7.56	192.0
Kingston	N. 18 58	W. 76 48	7.01 a.m.	10	3	30.01	762.2	30.02	762.5	79.6	26.4	71.6	6	.....	.....	.....	.....	.....	2	9	.....	14	4202	6761	3	2.17	55.1
Magua	N. 19 17?	W. 71 08?	7.24 a.m.	1000?	305?	.....	.....	.....	.....	73.0	22.8	.....	6	.....	.....	.....	.....	.....	1	2	23	.....	.....	8	3.39	86.1
Navassa	N. 18 25	W. 75 03	7.43 a.m.	77	23	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Paramaribo	N. 5 50	W. 55 13	8.27 a.m.	6	2	30.04	763.0	30.04	763.0	78.0	25.6	88.0	....	.....	.....	.....	.....	5	26	.....	.....	.....	.....	9	11.36	288.5
Puerto Berrio	N. 6 32	W. 74 28	7.10 a.m.	542	165	29.50	749.3	29.96	761.0	79.5	26.4	82.0	5	.....	.....	.....	5	.....	2	1	18	.....	.....	8	11.39	289.3
Rivas	N. 11 26	W. 85 47	6.25 a.m.	150	46	.....	.....	.....	.....	.....	.....	93.9	2	4	1	1	.....	7	4	12	.....	.....	.....	5	4.26	108.2
Santiago de Cuba	N. 19 55	W. 75 50	7.04 a.m.	21	6	29.96	761.0	29.99	761.7	78.6	25.9	80.4	10	1	.....	.....	.....	.....	.....	.....	20	.....	.....	6	4.53	115.1
York Factory	N. 57 02	W. 92 26	5.58 a.m.	51	15	30.06	763.5	30.11	764.8	29.9	— 1.2	94.1	5	4	.....	1	8	5	1	7	.....	.....	.....	5	0.54	13.7

Ocean Square Data for May, 1882.

Location of Centre of each Square.		No. of days.	No. of ob's.	Barometer.		Temperature.		Wind Frequency.										Wind force 0–10.
				Inch.	Mill.	Fah.	Cent.	N.	NW.	W.	SW.	S.	SE.	E.	NE.	Calm.	Blank.	
N. 7.5°	W. 22.5°	3	3															
7.5	27.5	10	15															
7.5	32.5	3	3															
7.5	37.5	2	2															
7.5	47.5	6	6															
12.5	22.5	1	1	30.08	764.0	79.9	26.6				1				30			2.0
12.5	27.5	10	15	30.08	764.0	78.1	25.6							1	22		8	2.1
12.5	32.5	1	1															
12.5	37.5	3	3															
12.5	42.5	2	2															
12.5	47.5	1	1															
12.5	52.5	6	6															
12.5	57.5	15	16												27		4	2.3
17.5	22.5	4	4	30.10	764.5	74.0	23.3							1	25		5	2.5
17.5	27.5	6	8	30.13	765.3	76.3	24.0						1	3	12		15	2.6
17.5	32.5	7	7	30.15	765.8	75.8	24.3											
17.5	37.5	3	3															
17.5	42.5	3	3										2	18	2		9	2.6
17.5	57.5	8	8	30.09	764.3	79.1	26.2								18		6	2.1
22.5	22.5	10	12	30.12	765.0	73.5	23.1	6	1				1	2	17		8	2.2
22.5	27.5	8	8	30.17	766.3	73.4	23.0	2	1				2	2	14		13	2.8
22.5	32.5	3	3	30.20	767.1	73.5	23.1											
22.5	37.5	4	4															
22.5	42.5	2	2															
22.5	52.5	2	2									1	15	1	2		12	2.2
22.5	57.5	6	6	30.16	766.1	76.6	24.8						11	11	4		5	2.3
22.5	62.5	8	12	30.12	765.0	77.4	25.2				3		9	11	4		4	1.2
22.5	67.5	6	10	30.09	764.3	77.7	25.4						8	8	6		4	1.4
22.5	72.5			30.08	764.0	78.0	25.6			1	2	2			11		9	2.1
27.5	22.5	7	7	30.14	765.5	69.9	21.1	4	5	1	1				9		11	1.9
27.5	27.5	5	5	30.17	766.3	70.7	21.5	4	5		2			1	8		15	2.7
27.5	32.5	1	1	30.21	767.3	71.0	21.7	3	4				2	3	7		13	2.1
27.5	37.5	7	7	30.26	768.6	71.6	22.0	2	2		2			4	4		13	2.1
27.5	42.5	4	4	30.26	768.6	71.6	22.0	1			3	3	3	2	1		11	1.7
27.5	47.5	6	6	30.24	768.1	72.8	22.7				5	2	10	1			12	1.8
27.5	52.5	2	2	30.22	767.6	72.6	22.6				4	4	10	1			12	2.3
27.5	57.5	2	2	30.18	766.6	73.1	22.8		1		3	6	8	1			7	1.9
27.5	62.5	8	8	30.12	765.0	72.7	22.6	1	3		6	3	7	1	3		3	1.9
27.5	67.5	9	19	30.10	764.5	73.3	22.9	1	5		7	1	5	1	8		2	2.1
27.5	72.5	18	21	30.10	764.5	77.1	25.1		2		4	2	7	5	9			1.7
27.5	77.5	17	22	30.07	763.8	75.3	24.1	1		2	3	2	11	6	6		1	1.5
32.5	12.5	2	2	30.08	764.0	67.8	19.9	4	1	2	15				8	1		1.2
32.5	17.5	9	10	30.16	766.1	66.9	19.4	2		4	14		2	1	7		9	2.5
32.5	22.5	3	3	30.12	765.0	67.1	19.5	3	6	2	4		1		6		9	2.3
32.5	27.5			30.16	766.1	67.5	19.7	4	7	1	4		1	1	4		8	2.3
32.5	32.5			30.18	766.6	67.9	19.9	2	11	1	3		2		4		5	2.2
32.5	37.5	4	5	30.20	767.1	68.5	20.3	5	8	1	4	2	3	1	2		6	2.1
32.5	42.5	10	12	30.23	767.8	68.9	20.5	3	2	2	7	2	3	1	4	1	4	2.2
32.5	47.5	7	8	30.21	767.3	68.6	20.3		2	2	11	5	2	1	3	1	6	2.3
32.5	52.5	4	4	30.17	766.3	69.0	20.6		2		7	8	5		3		5	2.4
32.5	57.5	5	5	30.13	765.3	69.8	21.0		4		6	7	6	1	2			2.5
32.5	62.5	8	9	30.07	763.8	70.5	21.4	2	4		7	11	4		3			2.1
32.5	67.5	8	9	30.06	763.5	69.8	21.0	6	6	2	8	2	1	1	5			2.3
32.5	72.5	17	31	30.07	763.8	68.7	20.4	3	1		10	4	4	1	8			2.5
32.5	77.5	20	2	30.06	763.5	69.9	21.1	3	3		10	5		2	8			2.3
37.5	12.5	11	11	30.02	762.5	63.7	17.6	4	8		14		2		3			2.1
37.5	17.5	6	9	30.05	763.3	63.5	17.5	2	8	6	7	1			7			2.6
37.5	22.5	6	6	30.09	764.3	63.1	17.3	3	12	4	5	2	1		4			2.4
37.5	27.5	2	2	30.12	765.0	62.4	16.9	3	14	3	3	2	2		4		1	2.8
37.5	32.5	2	2	30.12	765.0	62.3	16.8	5	8	4	7	2	2		2		1	3.0
37.5	37.5	5	5	30.13	765.3	62.4	16.9	3	11	4	6	4	1		1		1	3.1
37.5	42.5	5	6	30.18	766.6	61.8	16.0	6	7	2	9	4			2		1	2.7
37.5	47.5	11	13	30.13	765.3	61.2	16.2	2	6	1	15	4	1		1			2.8
37.5	52.5	13	18	30.11	764.8	61.3	16.2	1	8		13	4	2		3			3.0
37.5	57.5	17	24	30.08	764.0	61.9	16.6	5	3	1	9	8	2	1	2			2.7
37.5	62.5	19	30	30.06	763.5	61.1	16.2	4	7		6	4	5	1	3	1		3.3
37.5	67.5	24	39	30.04	763.0	59.1	15.3	6	7	1	5	5	2	2	2		1	2.5
37.5	72.5	29	107	30.04	763.0	56.0	13.3	5	7	1	7	2	2		7			2.5
42.5	12.5	7	8	29.95	760.7	61.1	10.2	2	6	1	8	1	2		10	1		2.7
42.5	17.5	8	10	30.00	762.0	60.0	15.6	1	6	6	6	3	1		8			2.9
42.5	22.5	7	10	30.02	762.5	59.1	15.1	5	8	3	9	1	1		3		1	3.4
42.5	27.5	13	16	30.03	762.7	58.5	14.7	4	13	1	9	1	1	1	1			3.3
42.5	32.5	17	25	30.03	762.7	58.0	14.4	4	13	1	10	3						3.8
42.5	37.5	20	32	30.06	763.5	57.9	14.4	2	14	3	5	5	1		1			3.4
42.5	42.5	27	90	30.08	764.0	55.7	13.2	3	8	2	12	5			1			3.1
42.5	47.5	29	100	30.07	763.8	53.7	12.1	5	7	4	9	3			3			3.2
42.5	52.5	30	78	30.06	763.5	52.5	11.4	1	9		12	5	2		2			3.1
42.5	57.5	30	109	30.04	763.0	52.4	11.3	3	4	3	8	9		2	2			3.0
42.5	62.5	31	117	30.02	762.5	51.3	10.7	2	7	1	5	6	1	2	7			2.9
42.5	67.5	31	86	30.01	762.2	49.0	9.4	3	8		8	3	2		7			3.4
47.5	12.5	23	62	29.95	760.7	56.8	13.8	1	3	2	7	2	8	6	2			3.5
47.5	17.5	28	69	29.94	760.5	55.8	13.2	5	3	4	6	3	7	1	2			3.7
47.5	22.5	30	70	29.90	759.4	54.3	12.4	2	5	3	7	6	5		3			3.9
47.5	27.5	28	70	29.88	758.9	53.0	11.7	6	10	1	6	5	3					4.0
47.5	32.5	29	89	29.92	760.0	52.5	11.4	7	9		9	3	1	1	1			4.1
47.5	37.5	28	72	29.96	761.0	51.2	10.7	7	12	3	4	3	2					3.0
47.5	42.5	12	20	30.01	762.2	48.0	8.9	7	5	3	7	2	4		2		1	2.9
47.5	47.5	4	4	29.96	761.0	45.2	7.3	4	4	3	7	1	4		4		4	3.3
52.5	12.5	24	43	29.95	760.7	54.3	12.4	4	1	3	7	4	6	2	4			3.0
52.5	17.5	20	38	29.91	759.7	53.1	11.7	5	3	3	6	6	5		3			3.7
52.5	22.5	23	36	29.86	758.4	51.0	10.6	4	3	1	7	5	4	2	5			3.7
52.5	27.5	12	19	29.82	757.4	50.2	10.1	6	6		8	3	4	1	3			3.7
52.5	32.5	4	4	29.86	758.4	48.6	9.2	8	4		8	3	2	1	3		2	3.5
52.5	37.5	1	1	29.89	759.2	47.1	8.4	6	7	2	5		3	1	2		5	3.0
52.5	42.5	1	1	29.89	759.2	43.5	6.4	5	6	2	4		6		5		3	2.6
52.5	47.5			29.91	759.7	41.5	5.3	1	9	2	1		7		5		6	3.1
57.5	12.5	9	10	29.94	760.5	49.1	9.5	3	2		8	4	4	4	6			3.1
57.5	17.5			29.91	759.7	47.1	8.4	4	2	1	5	7	4		8			2.9
57.5	22.5			29.90	759.4	44.6	7.0	1	2		6	1	6	1	12		2	3.1
57.5	27.5			29.86	758.4	41.7	5.4	5	3		6		6	1	6		4	3.2
57.5	32.5	2	2	29.83	757.7	42.0	5.6	4	3		4	1	6		8		5	3.4
57.5	37.5	2	2	29.83	757.7	40.7	4.8	7	4	1	4	2			4		9	3.1
57.5	42.5	7	7	29.86	758.4	39.3	4.1	5	6	4			2	2	6		6	3.1
57.5	47.5	5	5	29.91	759.7	35.4	1.9	5	9		3			1	4		9	

NOTE.—See General Remarks.

REVIEW.

INTERNATIONAL METEOROLOGY.

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

With this REVIEW is issued chart iii., which exhibits the tracks of the more important atmospheric depressions that have appeared in the northern hemisphere during the month of June, 1881. This chart continues the series of international charts begun in November, 1877.

The following descriptions relate to chart ii. (formerly iv.), for the months of June and July, 1881, (which were issued with the SUMMARY for the respective months). This chart continues the series of international charts begun in January, 1877, and exhibits the mean pressure, mean temperature, and the prevailing direction of the wind in the northern hemisphere, as determined from one observation taken simultaneously each day at 7 a. m., Washington, or 0 h. 8 m. p. m., Greenwich mean time.

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

For the month of June, 1881, the mean atmospheric pressure was distributed as follows: The area of lowest mean pressures was indicated by the isobarometric line of 29.4 (746.7), and occupied a small territory in British India between the states of Cashmere and Rajputana, which included Lahore, where the mean pressure was 29.39 (746.5). In that part of India lying between N. 20° and 30° the mean pressure ranged from 29.43 (747.5) to 29.54 (750.3). South of the twentieth parallel it ranged from 29.7 (754.4) to 29.75 (755.6). Over Greenland and Iceland the mean pressure was 29.77 (756.1) in the former and 29.73 (755.1) in the latter. Over European Russia and at stations in Sweden, on the shores of the Gulf of Bothnia, the mean atmospheric pressure ranged from 29.7 (754.4) to 29.8 (756.9). In the Black sea region it was above 29.8 (756.9). In Canada, Ireland, Scotland, and in the eastern part of Europe, excluding Russia, the mean pressure ranged from 29.8 (756.9) to 29.9 (759.4). In the United States, east of the ninetieth meridian, in England, and in central Europe it ranged from 29.9 (759.4) to 30.0 (762.0); over the greater part of France and the Iberian peninsula it was above 30.0 (762.0). Over the Atlantic ocean south of the fiftieth parallel, and from W. 60° eastward to the European coasts, the mean atmospheric pressure was above 30.0 (762.0); the area of barometric maxima being situated over the Azores, in which region the pressure ranged from 30.15 (765.8) to 30.3 (769.6).

Compared with the preceding month (May, 1881,) there has been a general decrease of pressure throughout the United States, except in the Florida peninsula, where there has been a slight rise. In Canada the decrease of pressure has averaged .14 inch, and was greatest in the Maritime Provinces. Over the continent of Europe and the British Isles, there has been a decrease of pressure; the decrease was greatest in northern Europe and in Russia, and was least in the southern and western parts of the continent. In Asia, from the Urál mountains eastward to Japan, there has been a decrease of pressure ranging from .1 inch in Japan and British India to .2 inch in Siberia and China.

Compared with the corresponding month of previous years, the mean atmospheric pressure is below the normal in all parts of the United States, except in the northern sections of Wisconsin and Michigan. In Canada, the pressure was below the normal, the departure being greatest in the Maritime Provinces.

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

Countries.	Mean pressure.			Mean temperature.		
	June, 1877, 1878, 1879, 1880.	June, 1881.	Departure.	June, 1877, 1878, 1879, 1880.	June, 1881.	Departure.
				°	°	°
Algeria	30.05	30.03	—0.02	82.8	79.6	—3.2
Austria	29.93	29.89	—0.04	72.2	70.0	—2.2
British Isles	29.89	29.95	+0.06	60.5	61.1	+0.6
Denmark	29.89	29.91	+0.02	61.5	60.0	—1.5
France	29.98	30.02	+0.04	70.7	69.3	—1.4
Germany	29.96	29.94	—0.02	68.6	66.7	—1.9
India	29.54	29.55	+0.01	89.0	87.6	—1.4
Italy	29.99	29.95	—0.04	77.1	74.4	—2.7
Norway	29.81	29.82	+0.01	59.2	60.6	+1.4
Portugal	30.07	30.07	normal	71.7	75.5	+3.8
Russia	29.87	29.80	—0.07	70.3	69.3	—1.0
Spain	30.01	30.03	+0.02	75.7	74.6	—1.1
Sweden	29.83	29.81	—0.02	59.6	58.4	—1.2

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

Stations.	Mean pressure.			Mean temperature.		
	June, 1877, '78, '79, '80.	June, 1881.	Departure.	June, 1877, '78, '79, '80.	June, 1881.	Departure.
				°	°	°
San José, Costa Rica, C. A.	.....	.....	.....	68.7	68.2	— 0.5
Gibraltar	30.02	30.05	+ 0.03	74.5	73.0	— 1.5
Malta, Mediterranean Sea	29.99	29.98	— 0.01	78.0	75.1	— 2.9
Sandwick Manse, Orkney Islands	29.90	29.97	+ 0.07	54.5	51.1	— 3.4
Bridgetown, Barbadoes	30.02	29.99	— 0.03	82.3	84.1	+ 1.8
Cape Town, Cape Good Hope	30.15	30.19	+ 0.04	62.0	51.2	—11.4
Fort Napier, Natal, South Africa	30.04	30.06	+ 0.02	68.2	68.0	— 0.2
Free Town, Sierra Leone	29.95	29.87	— 0.08	84.5	85.8	+ 1.3
Mauritius, Indian Ocean	30.15	30.16	+ 0.01	72.9	73.7	+ 0.8
Melbourne, New South Wales	30.14	30.02	— 0.12	47.9	47.1	— 0.8
Nassau, Bahamas	30.04	30.03	— 0.01	82.2	84.8	+ 2.6
Godthaab, Greenland	29.83	29.77	— 0.06	42.0	40.6	— 1.4
Stykkisholm, Iceland	29.81	29.73	— 0.08	49.1	47.3	— 1.8
Thorshavn, Färöe Islands	29.85	29.84	— 0.01	51.4	48.6	— 2.8
Zi-Ka-Wei, China	29.80	29.80	normal	70.7	72.3	+ 1.6
Athens, Greece	29.93	29.95	+ 0.02	84.6	79.9	— 4.7
Cagliari, Sardinia, Italy	29.98	29.96	— 0.02	78.2	80.1	+ 1.9
Tokei, Japan	29.86	29.89	+ 0.03	67.6	68.5	+ 0.9
Angra, Azores	30.19	30.15	— 0.04	66.9	66.9	normal
Funchal, Madeira Islands	30.18	30.18	normal	71.0	71.4	+ 0.4
Ponta Delgado, Azores	30.19	30.31	+ 0.12	69.7	69.6	— 0.1
Archangel, Russia	29.75	29.82	+ 0.07	57.5	55.9	— 1.6
Tiflis, Russia	29.84	29.85	+ 0.01	78.2	79.5	+ 1.3
Astrakhan, Russia	29.85	29.87	+ 0.02	81.0	77.2	— 3.8
Ekaterinburg, Russia	29.71	29.68	— 0.03	64.1	64.0	— 0.1
Tashkend, Toorkistan, Asia	29.77	29.71	— 0.06	84.4	83.5	— 0.9
Barnaul, Siberia, Asia	29.69	29.72	+ 0.03	69.0	69.6	+ 0.6
Yeniseisk, Siberia, Asia	29.73	29.82	+ 0.09	65.6	60.6	— 5.0
Pekin, China	29.70	29.63	— 0.07	76.5	75.9	— 0.6
Nikolaevsk on the Amoor, Asia	.....	.....	.....	50.9	50.7	— 0.2
San Juan de Puerto Rico, W. I.	30.04	30.04	normal	82.4	80.6	— 1.8
Beirut, Turkey in Asia	29.84	29.91	+ 0.07	83.9	81.1	— 2.8
Mexico, Mexico	30.05	30.05	normal	58.0	56.9	— 1.1
Havana, Cuba, W. I.	30.04	30.03	— 0.01	81.6	82.0	+ 0.4
Paramaribo, D. Guiana, S. A.	30.06	30.05	— 0.01	80.6	79.2	— 1.4
York Factory, B. A.	29.96	29.94	— 0.02	46.6	50.0	+ 3.4

In the United States the mean temperature of the air was below the normal from Lake Superior eastward to the Atlantic coast, and southeastward to North Carolina. Elsewhere the mean temperature was above the normal, the greatest departures occurring in the Gulf states and in the eastern Rocky mountain slope. On the Pacific coast the temperature was from normal to 3° below the normal. In Europe the mean temperature of the air was slightly below the normal.

Referring to the temperature in China, Mr. Marc Dechevrens, in the "Bulletin Mensuel," for June, 1881, states:

> At Zi-Ka-Wei the maximum temperature of the 6th did not exceed 72°.5 Fahr. (22°.5 Cent.), yet, at Chang-Kia-Chuang (Tientsin, Pekin), the thermometer reached 110°.5 Fahr. (46°.3 Cent.) in the shade; but this high temperature was fortunately accompanied by an extreme dryness of the air (7 per cent. at 7 p. m.).

In British India the highest mean temperature reported was 100°.4 Fahr. (38°.0 Cent.) at Lahore, and the lowest was 76°.2 Fahr. (24°.6 Cent.) at Belgaum.

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

Highest.	Fahr.	Cent.	Lowest.	Fahr.	Cent.
	°	°		°	°
Freetown, Africa	85.8	29.9	Godthaab, Greenland	40.6	4.8
Bridgetown, Barbadoes	84.1	28.9	Fort Saint Michael, Alaska	41.0	5.0
Tashkend, Asia	83.5	28.6	Stykkisholm, Iceland	47.3	8.5
Manila, Philippine Islands	83.5	28.6	York Factory, B. A	50.0	10.0

In the United States the prevailing wind directions were as follows: Generally southwesterly in the country between the Atlantic and the ninetieth meridian and south of the fortieth parallel; northerly in the western, and easterly and northeasterly in the eastern part of the lake region; northerly in New England; southerly and southeasterly in Texas and the Rocky mountain region, and westerly and southwesterly on the Pacific coast. In Canada the prevailing winds were northerly and northwesterly in the western part of the Dominion; in the Maritime Provinces they were generally southerly and southwesterly. Over the Atlantic ocean the prevailing winds were mostly southwesterly from the coast of North America northeastward to the British Isles; over the region between W. 15° and 45° and N. 20° and 40° the winds were mostly northeasterly. In the British Isles the prevailing winds were southerly and southwesterly; in central Europe they were mostly northwesterly; in France and the Netherlands they were northerly, westerly, and southwesterly, the westerly predominating. In Russia the winds were mostly westerly and northwesterly, except in the Black sea region, where they were southerly. At Zi-Ka-Wei, China, the prevailing wind was southeasterly; in Japan it was southerly.

The rainfall during the month of June, 1881, in the United States was much below the average in the country east of the one hundred and fifth meridian and south of the thirty-ninth parallel; it was also below the average in Minnesota, Wisconsin, and Michigan. In the country north of N. 39° and east of W. 89°, except in the states named above, the precipitation was in excess of the average. In Canada it was above the average. In Europe it was generally below the average. At Zi-Ka-Wei, China, rain fell on fifteen days, the total precipitation for the month being 6.70 inches, or 170.3 millimetres.

In July the distribution of mean atmospheric pressure over the northern hemisphere was as follows: The mean pressure was lowest in the northern and northwestern provinces of British India, where it ranged from 29.43 (745.5) to 29.49 (749.0). In northeastern and central India the pressure ranged from 29.50 (749.3) to 29.56 (750.8), and over the country south of N. 20° it ranged from 29.7 (754.4) to 29.8 (756.9). In Greenland, Iceland, northern Scandinavia, and the eastern half of European Russia, from the Arctic ocean to the Caspian sea, the mean pressure was below 29.7 (754.4). In Siberia and the whole of the Chinese Empire the pressure ranged from 29.52 (749.8) to 29.7 (754.4). In the United States there were two areas of comparatively low pressure; the first of these was situated in southern California and Arizona, and was inclosed by the isobarometric line of 29.8 (756.9); the second area occupied the region near Hudson's bay, the mean pressure at York Factory being 29.78 (756.4). The isobar of 29.8 (756.9) extended over northern Scotland, the Scandinavian peninsula, except the extreme northern and southern parts, and over western Russia southward to the Black sea. The line of 29.9 (759.4) extended from eastern Canada northeastward over the Atlantic and through the northern parts of Ireland and England eastward to the Baltic, thence southward to Austro-Hungary. In the United States, south of the lake region and east of the hundredth meridian, the mean pressure ranged from 30.0 (762.0) to 30.07 (763.8). Over the whole of central and southern Europe it ranged from 30.0 (762.0) to 30.1 (764.5), except over a small area in Spain, where it was slightly below 30.0 (762.0).

The most marked area of barometric maxima was that of the Atlantic; it was indicated by the isobar of 30.1 (764.5), and covered the ocean from the northwestern coast of Africa westward to the fifty-second meridian, and from N. 18° northward to N. 45°. The centre of the high area was in the Azores, where the mean pressure was 30.35 (770.9). The second area of high pressures, inclosed by the isobar of 30.1 (764.5), occupied the Bay of Biscay and stretched southeastward over southwestern France to the Pyrenees.

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

Countries.	Mean pressure.			Mean temperature.		
	July, 1877, 1878, 1879, 1880.	July, 1881.	Departure.	July, 1877, 1878, 1879, 1880.	July, 1881.	Departure.
				°	°	°
Algeria	30.03	30.05	+0.02	89.9	89.3	−0.6
Austria	29.90	29.98	+0.08	73.8	76.4	+2.6
British Isles	29.90	29.97	+0.07	62.9	65.9	+3.0
Denmark	29.80	29.88	+0.08	63.3	63.1	−0.2
France	30.02	30.07	+0.05	73.0	79.2	+6.2
Germany	29.90	30.00	+0.10	69.2	73.6	+4.4
India	29.58	29.54	−0.04	84.2	83.5	−0.7
Italy	29.96	30.02	+0.06	81.4	84.3	+2.9
Norway	29.75	29.73	−0.02	62.6	62.2	−0.4
Portugal*	30.05	30.03	−0.02	80.2	81.5	+1.3
Russia	29.77	29.80	+0.03	73.4	73.9	+0.5
Spain*	30.01	30.06	+0.05	80.5	83.2	+2.7
Sweden	29.76	29.76	normal.	64.1	63.2	−0.9

* Means for three years only.

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

Stations.	Mean pressure.			Mean temperature.		
	July, 1877, '78, '79, '80.	July, 1881.	Departure.	July, 1877, '78, '79, '80.	July, 1881.	Departure.
				°	°	°
San José, Costa Rica, C. A.	.....	.....	.....	.....	.....	.....
Gibraltar	30.00	30.06	+0.06	78.1	77.7	−0.4
Malta, Mediterranean Sea	29.97	30.02	+0.05	84.3	84.4	+0.1
Sandwick Manse, Orkney Islands	29 82	29.77	−0.05	55.8	55.9	+0.1
Bridgetown, Barbadoes	.....	.....	.....	.....	.....	.....
Cape Town, Cape Good Hope	30.16	30.25	+0.09	61.9	62.5	+0.6
Fort Napier, Natal, South Africa	30.04	30.00	−0.04	68.4	66.3	−2.1
Free Town, Sierra Leone	30.00	29.94	−0.06	81.3	85.2	+3.9
Mauritius, Indian Ocean	30.22	30.18	−0.04	71.4	72.3	+0.9
Melbourne, New South Wales	30.14	30.27	+0.13	47.9	48.2	+0.3
Nassau, Bahamas	30.03	30.05	+0.02	84.1	85.2	+1.1
Godthaab, Greenland	29.80	29.70	−0.10	44.8	43.0	−1.8
Stykkisholm, Iceland	29.82	29.67	−0.15	52.6	50.4	−2.2
Thorshavn, Färöe Islands	29.80	29.71	−0.09	54.1	53.1	−1.0
Zi-Ka-Wei, China	29.72	29.72	normal.	77.9	77.9	normal.
Athens, Greece	29.88	29.91	+0.03	88.2	86.4	−1.8
Cagliari, Sardinia, Italy	29.97	30.03	+0.06	82.1	83.5	+1.4
Tokei, Japan	29.86	29.87	+0.01	76.0	73.6	−2.4
Angra, Azores	30.30	30.32	+0.02	72.1	74.1	+2.0
Funchal, Madeira Islands	30.15	30.20	+0.05	72.1	72.0	−0.1
Ponta Delgado, Azores	30.30	30.35	+0.05	74.8	76.8	+2.0
Archangel, Russia	29.70	29.73	+0.03	63.8	70.0	+6.2
Tiflis, Russia	29.75	29.78	+0.03	89.0	82.0	−7.0
Astrakhan, Russia	29.79	29.69	−0.10	85.7	81.5	−4.2
Ekaterinburg, Russia	29.66	29.64	−0.02	71.0	68.9	−2.1
Nukuss, Toorkistan, Asia	.....	.....	.....	.....	.....	.....
Tashkend, Toorkistan, Asia	29.70	29.62	−0.08	87.5	88.5	+1.0
Barnaul, Siberia, Asia	29.64	29.61	−0.03	74.7	73.6	−1.1
Yeniseisk, Siberia, Asia	29.65	29.71	+0.06	71.1	68.4	−2.7
Pekin, China	29.66	29.65	−0.01	79.8	82.2	+2.4
Nikolaevsk on the Amoor, Asia	.....	.....	.....	58.9	57.6	−1.3
San Juan de Puerto Rico, W. I	30.02	30.07	+0.05	82.8	82.0	−0.8
Beirut, Turkey in Asia	29.76	29.78	+0.02	89.0	86.2	−2.8
Mexico, Mexico	30.08	30.15	+0.07	55.8	56.7	+0.9
Havana, Cuba, W. I	30.05	30.05	normal.	82.0	81.6	−0.4
Paramaribo, D. Guiana, S. A	30.02	30.06	+0.04	82.0	79.0	−3.0
York Factory, B. A	29.83	29.78	−0.05	53.3	56.0	+2.7

Compared with the chart for the preceding month (June, 1881,) there has been an increase of pressure ranging from .01 to .1 inch over the United States, the region of greatest increase comprising the country between the eighty-ninth and ninety-fifth meridians. In Canada the mean pressure was slightly lower than for the preceding month. In Europe the changes were as follows, viz.: an increase over the southern part of the British Isles, and over the whole of central and southern Europe; over the Scandinavian and Danish peninsulas the pressure has decreased about .05 inch, and in European Russia it has remained unchanged. In Greenland it has decreased about .08 inch. In Asia there has been a slight in-

crease of pressure over British India, but in Siberia, China, and Japan there has been a decrease.

Compared with the corresponding month of previous years, the mean atmospheric pressure is slightly below the normal over that part of the United States east of the Mississippi river and south of the fortieth parallel; elsewhere the pressure is slightly above the normal.

In the United States the mean temperature of the air was from 1° to 4° below the normal over the country west of the the one hundred and seventh meridian; eastward of that meridian the temperature ranged from normal in the middle Atlantic states and in the upper Mississippi valley to 2° above the normal in the Ohio valley and Tennessee.

In Europe the mean temperature was above the normal, except in Denmark and in Scandinavia, where it was slightly (less than 1°) below the normal. In connection with this subject may be mentioned the remarkably high temperatures (in many cases unprecedented) which prevailed throughout Europe during this month. In England and Denmark the highest temperatures of the month occurred on the 15th; in central and western Europe the maxima were registered during the period from the 17th to the 20th, inclusive. In Spain and Portugal the highest temperatures were recorded on the 24th and 25th; in Italy on the 6th, and in Russia on the 27th and 28th.

The following notes and data referring to this subject are taken from "Symons' Monthly Meteorological Magazine," for August, 1881:

The exceptional temperatures, in England, were very local, and were confined to the southern part of England. July 5th was a hot summer day; temperatures slightly exceeding 90° were recorded at several stations, and over the greater part of England it was the hottest day of the month; but none of the temperatures observed on that day were unprecedented. The remarkable feature of the month was the temperature reached on July 15th, in a belt of country extending from Wiltshire, through the north of Hampshire, north Surrey, west Kent, Middlesex, Essex, Suffolk, and Norfolk.

The following data are taken from tables published by Mr. Symons, giving the highest maximum temperatures and dates at several of the principal cities of Europe:

6th: Rome, Italy, 94°.8 Fahr. (34°.9 Cent.). 12th: Christiania, Norway, 81°.0 Fahr. (27°.2 Cent.). 15th: Greenwich, England, 97°.1 Fahr. (36°.2 Cent.); Copenhagen, Denmark, 86°.5 Fahr. (30°.3 Cent.). 16th: Vienna, Austria, 92°.3 Fahr. (33°.5 Cent.). 17th: Avignon, France, 101°.1 Fahr. (38°.4 Cent.). 18th: Bordeaux, France, 102°.4 Fahr. (39°.1 Cent.). 19th: Paris, (Montsouris), France, 99°.0 Fahr. (37°.2 Cent.); Paris, (Parc St. Maur), 101°.1 Fahr. (38°.4 Cent.); Geneva, Switzerland, 96°.6 Fahr. (35°.9 Cent.). Brussels, Belgium, 95°.4 Fahr. (35°.2 Cent.). 20th: Berlin, Germany, 94°.5 Fahr. (34°.7 Cent.); Hamburg, Germany, 87°.3 Fahr. (30°.7 Cent.). 24th: Lisbon, Portugal, 93°.9 Fahr. (34°.4 Cent.). 25th: Madrid, Spain, 102°.6 Fahr. (39°.2 Cent.). 27th: Saint Petersburg, Russia, 82°.9 Fahr. (28°.3 Cent.). 28th: Moscow, Russia, 92°.5 Fahr, (33°.6 Cent.).

In the south of England the hottest day was on the 15th; on that day the temperature reached or exceeded 100° Fahr. (37°.8 Cent.) at the following French stations: Paris, 100° Fahr. (37°.8 Cent.); Nancy, 101°.1 Fahr. (38°.4 Cent.); Nantes, 101°.5 Fahr. (38°.6 Cent.); and Biarritz, 100°.4 Fahr. (38°.0 Cent.).

The following are additional data to those given above: 19th, France, Charleville, 100°.4 Fahr. (38°.0 Cent.); Le Mans, 101°.7 Fahr. (37°.7 Cent.); Belgium, Arlon, 96°.8 Fahr. (36°.0 Cent.); Maeseyck, 99°.1 Fahr. (37°.3 Cent.).

In British India the highest monthly mean temperature reported was 93°.5 Fahr. (34°.2 Cent.) at Lahore, and the lowest was 71°.1 Fahr. (21°.7 Cent.) at Belgaum. At Zi-Ka-Wei, China, the absolute maximum temperature of the month was 97° Fahr. (36°.1 Cent.), and occurred on the 25th; the minimum was 76°.1 Fahr. (19°.5 Cent.) on the 8th.

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

Highest.	Fahr.	Cent.	Lowest.	Fahr.	Cent.
	°	°		°	°
Tashkend, Asia	88.5	31.4	Godthaab, Greenland	43.0	6.1
Athens, Greece	86.4	30.2	Stykkisholm, Iceland	50.4	10.2
Beirut, Syria	86.2	30.1	Gjaesvaer, Finmark, Norway	52.0	11.1
Nassau, Bahamas	85.2	29.6	York Factory, B. A.	56.0	13.3

In the United States the prevailing directions of the wind were as follows: Between the eightieth and ninetieth meridians, from west to north; in the south Atlantic states, southwesterly; in the middle Atlantic and New England states southwest, west, and northwest. Over the country, from W. 90° to W. 110°, the prevailing winds were generally southerly and southeasterly. On the Pacific coast they were westerly and northwesterly. In Canada they were westerly and southwesterly. Over the Atlantic, from the coast of North America northeastward to the European coasts, the winds were mostly southwesterly. Over the Azores, and within the region of the barometric maxima, viz., from the northwestern coast of Africa westward to W. 50°, and between N. 20° and 45°, the winds were mostly northeasterly; south of N. 20° they were northeasterly.

In the British Isles the prevailing winds were westerly and southwesterly; throughout central Europe they were southwesterly, and from west to northwest. At Zi-Ka-Wei, China, it was southeasterly, and in Japan the prevailing directions were southerly and southwesterly.

The rainfall during the month was below the average in the United States east of the hundredth meridian, except in the upper Mississippi valley, the upper lake region, the south Atlantic states, and the Florida peninsula. The deficiency was greatest in the Ohio valley and in Tennessee. There was a slight excess in the north Pacific coast region. The rainfall was slightly below the normal in the northern, and about normal in the southern parts of central Europe.

Chart ii. (formerly v.) exhibits the tracks of barometric minima for the month of June, 1881, which have been traced from the daily international charts. On this chart is also shown the track of the second typhoon that occurred in the China sea during the season of 1881.

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

Twenty-two depressions in the northern hemisphere have thus been traced for the month of June, 1881. Their general distribution was as follows:

Six appeared in the United States and Canada; all of these pursued an east-southeasterly course over the country north of the fortieth parallel. No storm has been traced over the region west of the Rocky mountains during the month. Number v. is the only depression traced over the ocean after leaving the North American continent; it moved north-northeastward to Iceland, and extended its influence over the northern part of Great Britain and over northern Scandinavia.

Nine depressions are shown over Europe; three of these moved from west to east over the country south of the forty-eighth parallel, while the remaining six prevailed north of the fiftieth parallel, their movement being mostly from southwest to northeast. Depression xii. was remarkable for the persistence with which it remained over central Europe, having continued for ten days between the meridians of 15° and 35° east longitude. Depression xiv. originated in Greenland, and moved southward to N. 51°, where it remained for several days, materially affecting the weather conditions over the British Isles. Seven depressions are traced in Asia; four of these appeared in the eastern part of the continent and three in Siberia; of the latter, two were continuations of storms that were first observed in Europe.

The following are brief descriptions of the depressions traced in the United States and Canada:

I.—On the 2d, an area of low pressures stretched from the Lake Superior region southeastward to the south Atlantic coast. In the lower lake region clear weather prevailed, while in the upper lake region and on the Atlantic coast, from North Carolina to New York, the weather was generally cloudy with frequent, and occasionally heavy, rains. On the 3d, the centre of least pressure was in northern Illinois; the areas of cloud and rain now included the lower lakes, while to the west-

ward fair weather obtained. During the 3d, the disturbance moved eastward along the fortieth parallel, and by the 4th, it was central off the New England coast, the pressure having decreased as the disturbance neared the ocean. On the 4th, heavy rains occurred along the Atlantic coast and in the Maritime Provinces, and continued until the 5th, on which date an improvement took place in the weather, and the disturbance moved northeastward to the Gulf of Saint Lawrence. On the 5th, the pressure began to increase, and by the following day the depression had filled up over the Gulf.

II.—During the 6th and 7th, the pressure remained uniformly low over the central part of the United States, but on the 8th, the disturbance became well-defined and was indicated by the isobar of 29.8 (756.9), which stretched from northern Texas to Indiana. On the 8th, rain became general over the country from Missouri eastward to the Atlantic coast, and thunder-storms were of frequent occurrence. On the 9th, the low area, having become contracted and circular in form, was central in West Virginia; during the day it moved off into the Atlantic, attended by moderate gales along the coast and at sea. On the 10th, it was central near N. 39°, W. 71°, and appears to have moved northeastward, causing rainy weather in the Maritime Provinces. By the 11th, the depression had filled up, and clearing weather set in.

III.—This was a small but well-defined depression which appeared in Dakota on the 11th, and was accompanied by heavy rains. It apparently moved northward, and united, on the 12th, with low area iv., which was then moving from British America toward Minnesota. On the 12th, severe hail-storms and tornadoes occurred in Kansas, Missouri, and Iowa, and caused great loss of life and destruction to property.

IV.—On the morning of the 12th, this disturbance occupied Manitoba and the Lake Superior region. On the 13th, it was central near the northern shore of Lake Superior, causing rain at stations in the eastern quadrants. During the 13th and 14th, the disturbance moved in an easterly direction along the Saint Lawrence, and by the 15th, it was central near the western part of the Gulf, attended by rainy weather and moderate breezes. On the 16th, the disturbance moved to Newfoundland, where it appears to have gradually filled up.

V.—This disturbance first appeared in Dakota on the 15th. It moved with decreasing pressure east-southeastward to Minnesota, where it was central on the 16th. During the day it continued its east-southeasterly course over the lake region, causing heavy rains and thunder-storms in the eastern quadrants; and on the morning of the 17th, it was central, with increased pressure, over Lake Erie. During the 18th and 19th, it remained over the Saint Lawrence valley and the Maritime Provinces, causing unsettled and showery weather in those districts. On the 21st, the storm-centre was apparently to the south of Nova Scotia; by the following day it had passed slowly along the coast of Nova Scotia, and was central to the eastward of Cape Breton island. During the 22d, it moved over the Atlantic, and on the 23d, was shown near N. 51°, W. 45°; on that day the s. s. "Nova Scotian," in N. 49° 02′, W. 47° 08′, reported barometer 29.26 (743.2), wind wnw., force 5, drizzling; and the s. s. "Circassian," in N. 54° 34′, W. 42° 00′, reported barometer 29.46 (748.3), wind ese., force 5, overcast. On the 24th, the storm-centre was probably to the southwest of Iceland, the barometer at Stykkisholm reading 29.30 (744.2), a fall of .47 inch in twenty-four hours; the temperature rose several degrees and the wind shifted to southeast and increased to a fresh gale with rain. On the 25th, the disturbance was central near the west coast of Iceland, the pressure having further decreased to 28.89 (733.8), the wind shifting to southwest and moderating to force 2. On the 26th, the depression maintained nearly the same position as on the preceding day, but the pressure had increased about .13 inch. During the 25th and 26th, there was a uniform decrease of pressure over the British Isles, and cloudy weather and rain prevailed, more particularly in the northwestern districts. On the 27th, the disturbance passed to the northeastward of Iceland, the wind having shifted to northwesterly over that island. During the 28th and 29th, the storm-centre apparently remained over the ocean between Iceland and the Scandinavian peninsula, but the depression was filling up, although unsettled and showery weather still prevailed in the extreme northern part of Scotland and in the Scandinavian peninsula.

Note.—In connection with the depression (v.), attention is called to the remarks under "Errata," page 14, of this BULLETIN.

VI.—This disturbance is not shown on the chart for the 22d, but its position has been indicated from the following vessel-report, which appears sufficiently reliable to justify a notice of the disturbance: The bark "Justin H. Ingersoll," in N. 34° 24′, W. 75° 00′, on the 22d, reported: "noon, wind se.; at 3 p. m. it hauled to ene., and then backed again to se.; weather threatening, with torrents of rain and heavy swell from all directions; barometer 29.8 (756.9), vessel under lower topsails. At 5 p. m. it became calm, then the wind suddenly struck out from the nw. with great violence, blowing away sails and throwing the vessel on her beam ends. At 7 p. m. the wind hauled to n. and increased in fury; obliged to cut away the mainmast to save the vessel; barometer 29.2 (741.7). The hurricane lasted until 9 p. m., when it moderated to a ne. gale. Other data are too meagre to admit of a tracing of the subsequent course of this storm.

VII.—This disturbance probably developed in the Saskatchewan valley on the 26th, and moved by a southeasterly course to eastern Minnesota, where it was central on the 27th. Rainy weather prevailed in the lake region and in eastern Canada on the 27th, and by the 28th, the low area extended from Lake Superior to the Saint Lawrence valley; in the latter region, numerous thunder-storms and heavy rains occurred. During the 28th, the disturbance moved, by a course slightly south of east, to the Maritime Provinces, where it was central on the 29th, the barometric pressure having decreased at the centre. On the 30th, the depression was central near the southern coast of Newfoundland. No unusual storm-energy was displayed during the progress of the disturbance. On the 30th, vessels east of the central depression reported moderate southerly gales.

The following descriptions refer to the storms that appeared in Europe:

VIII.—This disturbance appeared near the Ural mountains on the 1st, and was a continuation of the depression described as low area xvii. of the May chart. By the 2d, it had moved slowly east-northeastward, and on the 3d, was central northeast of Barnaul, Siberia, barometer 29.27 (743.4), wind south, force 4. After the 3d, the disturbance disappeared beyond the stations of observation.

IX.—On the 2d and 3d, a large depression existed off the coast of northern Scandinavia, causing higher temperatures and rainy or cloudy weather over that region. It apparently moved southeastward with decreasing pressure, and on the 4th, it was central south of Archangel, where the barometer read 29.09 (738.6). On the 5th, 6th, and 7th, it moved eastward into Siberia and beyond the stations of observation, having caused strong southwesterly winds and higher temperatures in northeastern Russia and in Siberia.

X.—This depression appeared central between the Färöe Islands and Norway on the 5th, the region of least pressure being inclosed by the isobar of 29.2 (741.7). Moderate to fresh northwesterly breezes prevailed over the northern part of Scotland, accompanied by showery weather; the winds were southerly and southwesterly in the southern, and easterly in the northern part of the Scandinavian peninsula, and remained moderate in force. By the 6th, the storm-centre had moved to the White sea, where it disappeared, while another depression developed off the Norwegian coast.

XI.—This depression developed off the Norwegian coast on the 6th, immediately after the passage of x., and was probably a secondary development of that depression. On the 7th,

the disturbance was central in southern Norway, while a small subsidiary area, which formed over the southern part of the North sea on the 6th, had moved northeastward and united with the central depression, where the pressure was now below 29.15 (740.4). Fresh to strong northwesterly winds and rainy weather prevailed over the British Isles and the western part of the continent, while over the Baltic and the Gulf of Bothnia, the winds were southerly and southeasterly. By the morning of the 8th, an increase of pressure had set in over the British Isles and the southern part of Scandinavia, and the depression moved northward, and finally disappeared off the extreme northern coast of Norway.

XII.—This depression was closely connected with low areas x. and xi., and was remarkable on account of the erratic course and exceedingly slow movement of the centre over the continent. Under the influence of low area xi., the pressure remained low over the whole of central Europe on the 7th. On the 8th, a recovery set in over the western part of the continent, and the area of low pressure was transferred to eastern Prussia and the Austrian Empire. On the 9th, the depression extended from the Baltic southeastward to the Black sea, the barometric readings being lowest over the former sea. Within the area of low pressures, and also over the country to the westward, very heavy rains occurred on the 8th and 9th, the winds shifted to north and northwest, and a considerable fall in temperature occurred over western Europe, while southeasterly winds and higher temperatures prevailed in western Russia. On the 10th, the centre of disturbance was between Wilna and Kieff, causing strong southwesterly winds on the northern shores of the Black sea. The pressure continued to increase in the region west of the centre, while it decreased at the centre of disturbance; in consequence, the barometric gradient became steeper and the northwesterly winds increased in force over eastern Germany and Denmark, but moderated in France. During the 11th, 12th, and 13th, the depression remained in western and central Russia, between Moscow and the Baltic Provinces, the winds in central Europe being controlled by the movements of the disturbance, and the weather remaining cloudy and rainy. On the 14th, the storm-centre was near Kasan, eastern Russia; it then appears to have recurved toward the west, as, on the 15th, the region of least pressure was again near Moscow. On the 16th and 17th, it remained in central Russia, near Moscow, causing moderate northeasterly winds in the Baltic Provinces of Russia; the pressure began to increase slowly, and on the last-mentioned date, the disturbance was indicated by the isobar of 29.8 (756.9), which presented an elongated appearance and stretched from E. 30° eastward beyond the Ural mountains. The depression hereafter described as low area xviii. was probably a continuation of this disturbance.

XIII.—This disturbance developed over the Gulf of Genoa on the 6th and 7th, on which days the whole of Europe was under the influence of low area xi. On the 7th, the centre of this disturbance was near Milan, whence it moved northeastward to Austria and became merged in low area xii. on the 8th.

XIV.—The barometer was low in Greenland for several days prior to the 11th, but on that day a further decrease of pressure occurred, and on the 12th, the disturbance was central to the westward of Iceland, where fresh to strong southerly gales prevailed, the wind having shifted to northwest in Greenland. During the 12th, the centre of depression appears to have moved nearly due southward, and on the 13th, it was near N. 54°, W. 25°. The s. s. "Hermann," in N. 49° 26′, W. 24° 49′, reported barometer 29.44 (747.8), wind ssw., force 8, overcast; and the s. s. "Britannic," to the west of the centre, in N. 48° 57′, W. 32° 36′, reported barometer 29.76 (755.9), wind nnw., force 6, rainy. On the 14th, the disturbance moved slowly eastward, causing a decrease of pressure with strong southeasterly winds in Ireland. On the 15th, the storm-centre was near N. 50°, W. 21°; the pressure had decreased slightly near the centre, and a corresponding decrease occurred over the British Isles. During the 16th and 17th, the depression remained persistently off the west coast of Ireland, causing unsettled and rainy weather in the British Isles and in France. On the 18th, the disturbance moved into Ireland and the rain-area extended to the eastern shores of the North sea. On the 19th, the storm-centre moved northeastward with increasing pressure, and on the following day, it was to the northward of Scotland, causing strong southerly and southwesterly breezes at stations in southern Scandinavia. On the 21st, the disturbance apparently dissipated in northern Scandinavia, but no decided increase of pressure occurred in the districts after the passage of the centre, owing to the advance of low area xv.

XV.—This disturbance appeared on the 20th over the ocean at some distance southwest of Ireland; on that date the s. s. "Braunschweig," in N. 49° 42′, W. 16° 38′, reported barometer 29.22 (742.2), wind sse., force 4, raining; and the s. s. "Köln," in N. 49° 15′, W. 19° 35′, barometer 29.33 (745.0), wind wnw., force 4-5, cloudy. During the day the disturbance moved, with decreasing pressure, north-northeastward along the Irish coast and caused heavy rains in Ireland, and showery, unsettled weather in Great Britain, accompanied by a general rise in temperature. On the 21st, the storm-centre was near the northern coast of Ireland, where the barometric readings ranged from 29.02 (737.1) to 29.16 (740.6). On the 22d, the depression was between the Shetlands and the Färöe Islands. It moved northeastward along the Norwegian coast, and on the 23d, it was central in northern Scandinavia, causing rainy weather and fresh southerly and southwesterly gales over the Gulf of Bothnia. On the 24th, the disturbance disappeared in the Arctic ocean north of Lapland.

XVI.—From the 23d to the 27th, an area of high pressure occupied the British Isles and central Europe, but on the 25th, it began to give way in the northern part of the British Isles, under the influence of low area v. On the 26th, there was also a slight decrease of pressure in Austro-Hungary; the disturbance, which was very slight, moved east-northeastward on the 27th and 28th, and dissipated near the Black sea on the last-mentioned date.

XVII.—This disturbance, which was also unimportant, developed over the Gulf of Genoa on the 26th. It passed in a southeasterly course through Italy and disappeared over the Adriatic on the 28th. On the 28th, an area of high pressure began to spread over western Europe, and at the close of the month, it occupied the central part of the continent.

XVIII.—This disturbance was probably a continuation of low area xii. On the 18th, the position of the storm-centre could not be definitely located, but on the 19th, it became well-defined near Kasan, where the barometer read 29.58 (751.4). The depression moved eastward, and on the 20th, it was central in the Ural region, barometer at Ekaterinburg 29.35 (745.5). During the 21st and 22d, it passed northeastward into northern Siberia and beyond the stations of observation.

The following descriptions are given of the storms traced in Asia:

XIX.—This disturbance moved from southwestern China on the 3d, and was central near Zi-Ka-Wei on the 4th. On the 5th, the depression was central over the Yellow sea; moving eastward over the island of Niphon, it disappeared in the Pacific on the 6th. Very heavy rains fell at Zi-Ka-Wei on the 4th and 5th, after the passage of the centre.

XX.—This depression moved northeastward from central China on the 9th, and was central over the Gulf of Pe-Chi-Li on the 10th. On the 11th, the centre was probably in the northern part of Corea, whence it moved northeastward to Tartary and disappeared on the 12th.

XXI.—This depression followed immediately in rear of xx., but pursued a more southerly course than its predecessor. It passed into the Yellow sea on the 13th, and moved over the southern part of the peninsula of Corea. On the 14th, it reached Niphon, and disappeared to the eastward over the Pacific.

XXII.—This disturbance probably originated in central China; it moved northeastward, and on the 18th and 19th, was

central in the Gulf of Pe-Chi-Li. On the 20th and 21st, it passed northeastward to Amoor and beyond the stations of observation.

The following notes, relating to the second typhoon of 1881 (June 26th—July 5th), are taken from Mr. Marc Dechevrens' "Typhoons of the Chinese Sea in 1881":

The typhoon moved from the region of Mindanao on the 25th and 26th, and passed along the eastern coasts of the islands to the latitude of Manila. On the 28th, it lay to the east of that town and turned aside from its original track to avoid the high mountains of Luzon. It is clear that the high mountain chain that runs along the eastern coast of Luzon repelled the typhoon, though its first direction would have led it to the same place on the eastern coast of China. The centre passed Manila on June 28th, when the barometric pressure was 29.5 (749.3). Before the passage of the centre, with the wind blowing from northeast and north-northwest, there was but little rain; after the passage, the wind blew from south-southwest and south, and there was a heavy rainfall (six inches during the night of 28–29). This is easily accounted for. The polar winds, on passing over the high mountains to the north of Manila, were almost entirely deprived of moisture, whilst, on the equatorial winds being forced up the sides of the same mountains, there must have been a considerable condensation, and consequently a diluvial rain on the southern side of the chain.

On July 1st, about midnight, the typhoon crossed the twentieth parallel, on the one hundred and seventeenth meridian (east), and, passing to the right of Hong-Kong, it entered the continent a few miles below Swatow on the morning of the 2d. During the passage of the disturbance from Manila to Swatow there was no casualty at sea worth noticing.

After reaching the continent the atmospheric depression seemed about to fill up. In front of it, at Hankow, no rain fell whatever, but to the right hand of the track, at Foo-Chow, Ning-po, at Zi-Ka-Wei, and at sea, there were heavy rains on July 3d and 4th. After remaining on the Chinese continent, during the 2d, 3d, 4th and 5th of July, it again took to the sea between Foo-Chow and Ning-po in about N. 28°. At sea the south and southwest winds blew rather hard, but along the Chinese coast the winds continued to blow feebly until the typhoon had left the continent. The disturbance appeared to have dissipated after reaching the ocean, as there were no indications of it in Japan.

The velocity of the typhoon in the first part of its track was about seven miles an hour, having left Luzon on the morning of June 29th and reached Swatow on July 2d (about 510 miles in 72 hours). It appears afterward to have traveled at about ten miles an hour. Manila was near the centre, and had probably to bear the greatest violence of the wind. The mean velocity of the wind on June 28th, between 7 and 9 p. m., was 81.4 miles an hour; it even reached 90.2 miles an hour during some of the squalls. At Swatow the typhoon did considerable damage to the houses near the river and destroyed several jetties; most of the buildings on the Swatow side were inundated to a depth of three feet. In Manila bay one vessel dragged her anchors and had to cut away masts to avoid collision.

GENERAL REMARKS.

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

INTERNATIONAL CHARTS ACCOMPANYING THE DAILY BULLETIN AND MONTHLY SUMMARY.

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

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

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

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

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

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

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

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

AUSTRO-HUNGARIAN SERIES (furnished by co-operation of

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

NORWEGIAN SERIES (furnished by co-operation of Professor H. Mohn, Director of the Royal Norwegian Meteorological Institute at Christiana).—The originals give the barometer

in millimetres reduced to sea-level and the temperature in Centigrade. The movement of the air is indicated by velocity in metres per second or by force on a scale of 0 to 6. The weather is occasionally given by Vienna symbols. At Bergen observations upon the weather and degree of cloudiness are made at 2 p. m., local time. At Brono the observations are taken at 2 p. m., instead of 12.57 p. m.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

ERRATA.

On the chart for June 24th, 1881, the area of lowest readings should appear in Iceland. The isobarometric line of 29.4 (746.7)

should cover the western part of Iceland, while the lines of 29.6 (751.8) and 29.8 (756.9) should run northeastward between Iceland and the Färöe Islands.

On the chart for June 25th, 1881, the area of least pressures should be in Iceland, and should be indicated by the isobarometric line of 29.0 (736.6). Southward and eastward of this region the pressure increases until the isobar of 29.6 (751.8) is reached; this line should run north-northeastward between the Färöe Islands and the Shetlands. The isobar of 29.8 (756.9) should include Scotland only, and not parts of Ireland and England, as indicated on the chart.

The line of 30.0 (762.0) remains unchanged.

Daily Bulletin, January 1st, 1881, page 5, Russian Series, Saint Petersburg, reduced barometer, 30.73 inches, should read 29.73 inches.

Daily Bulletin, May 1st, 1882, page 2, French, Mont-Louis, humidity, 84, should read 94.

2d, page 1, Austro-Hungarian, Kremsmunster, actual barometer, 729.0 mm., should read 728.0 mm.; page 5, United States, the direction of clouds at the following stations should be: Moorhead, upper; Morgantown and Mount Washington, lower; Nashville and New Haven, upper.

3d, page 1, Canadian, Halifax, velocity, 11 miles, should read 14 miles.

8th, page 3, Japanese, Tokei, temperature, 59°.3 Fahr., 15°.0 Cent., should read 59°.0 Fahr., 15°.3 Cent.

14th, page 4, United States, Cheyenne, velocity, 10.0 metres, should read 9.8 metres.

17th, page 3, Japanese, Nobiru, velocity, 0.3 miles, should read 10.3 miles; page 8, Miscellaneous, "Antonio Lopez," N. 30° 11′, should read N. 30° 01′.

18th, page 7, American Steamship Co., s. s. "Indiana," longitude, E., should read W.; Hamburg-American Packet Co., s. s. "Bohemia," latitude, N. 40° 39′, should read N. 49° 39′.

21st, page 1, Canadian sub-series, Saint John's Newfoundland, reduced barometer, 29.42 inches, should read 30.42 inches.

22d, page 8, Miscellaneous, s. "Ismir," latitude N. 64° —′, should read N. 6° 40′.

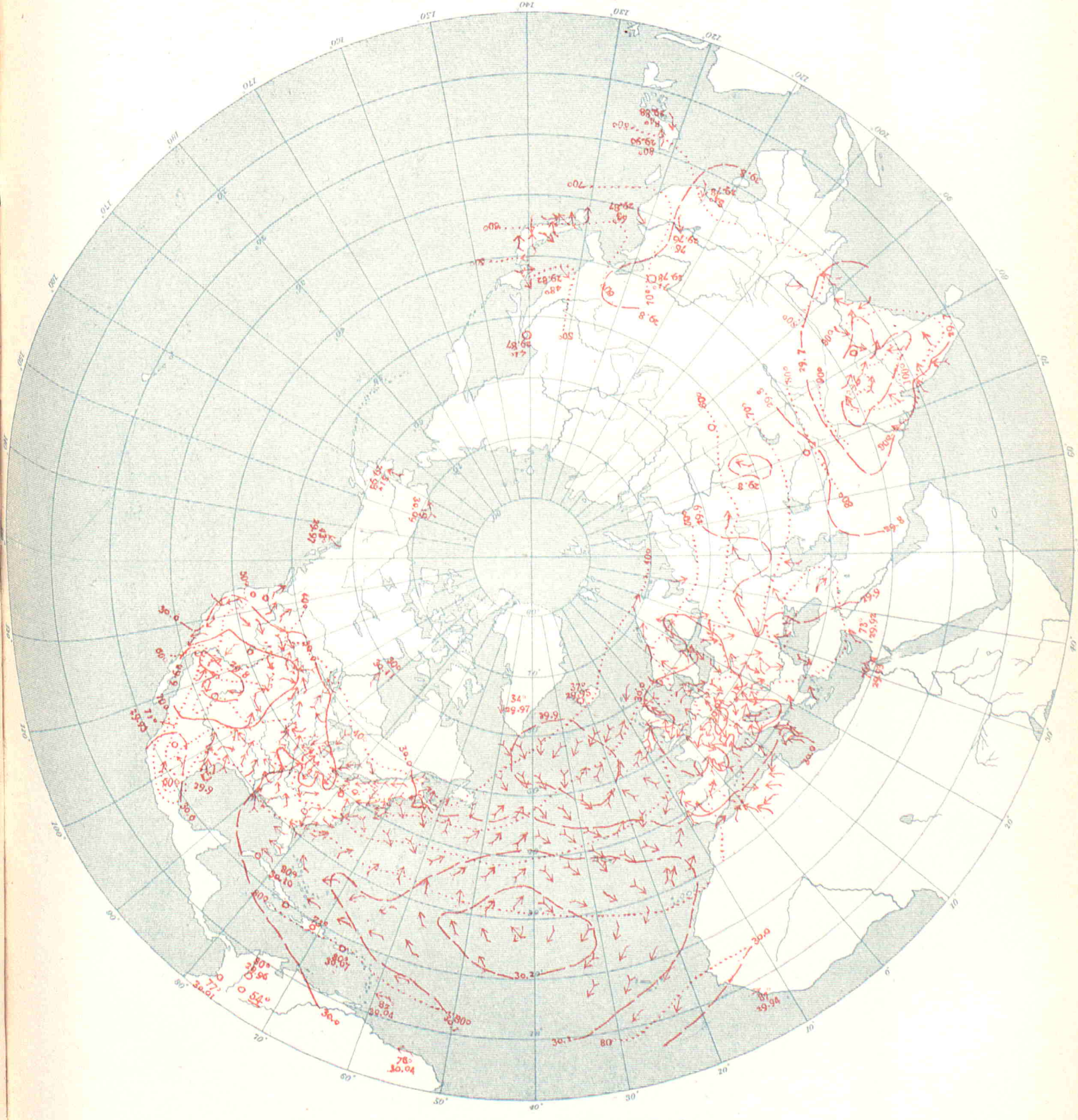
26th, page 3, Portuguese, Saint Paul de Loando, temperature, Fahr., 74°.3, should read 76°.3.

28th, page 4, United States, Champaign, temperature, Cent., 19°.6, should read 10°.6.

PUBLISHED BY ORDER OF THE SECRETARY OF WAR.

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

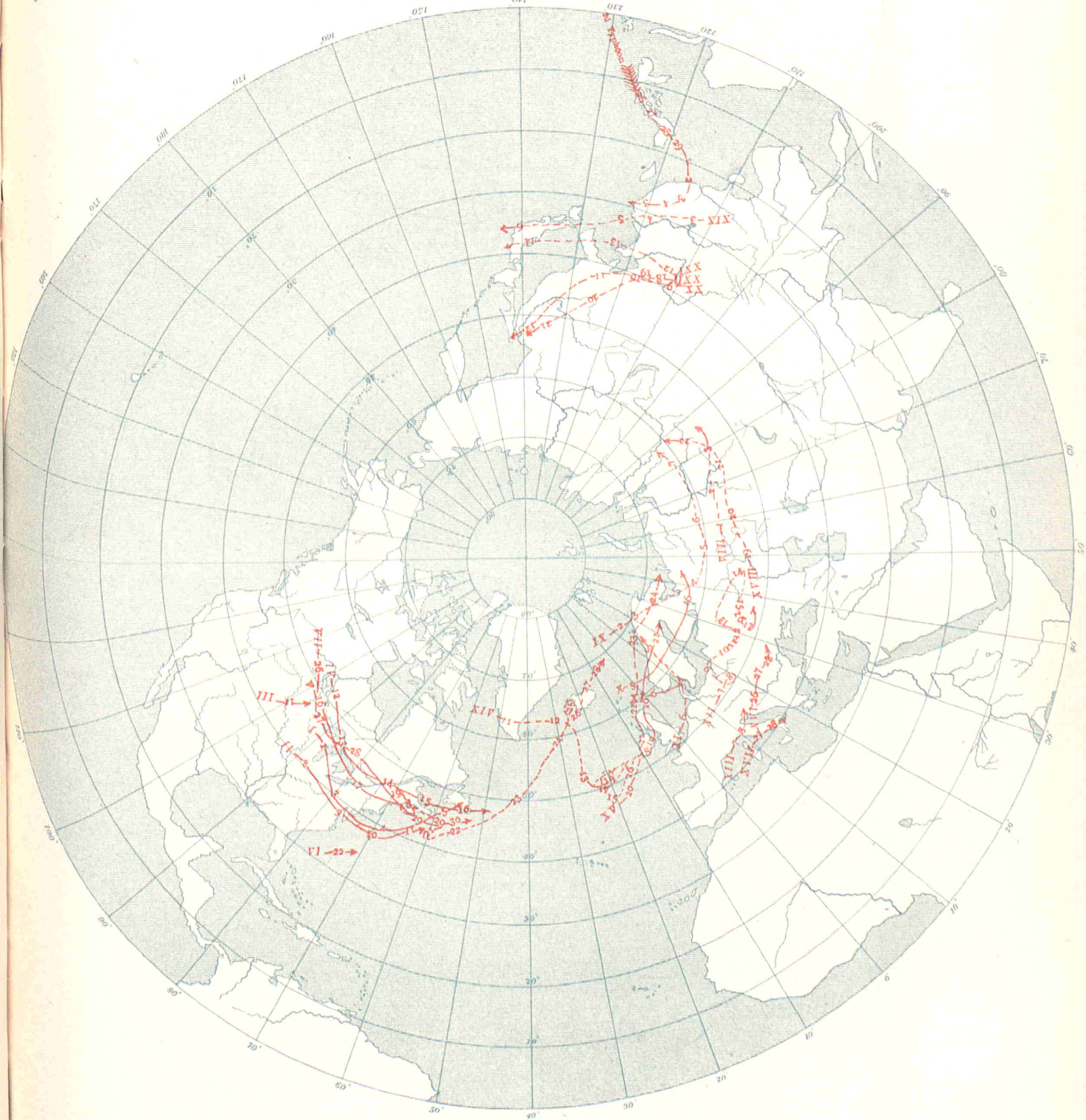
International Chart II. May, 1882. Isobars, Isotherms, and Winds.



UNITED STATES OF AMERICA.

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

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



UNITED STATES OF AMERICA.

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

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

BULLETIN

OF

INTERNATIONAL METEOROLOGY

FOR THE MONTH OF JUNE, 1882.

PRINTED FOR EXCHANGE WITH CO-OPERATING OBSERVERS.

WASHINGTON, D. C.:
JULY, 1883.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 1, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.95	760.7	72.9	22.7	71	se.			1		4			0	0	cloudy	Moiroud
Algiers			29.93	760.3	80.6	27.0	56	w.			3		0			0	0	clear	Nicolas.
La Calle			30.00	762.0	81.0	27.2	56	n.			1		2			0	0	fair	Fonfrède.
Tunis			30.03	762.7															Jacques.
Saida			30.18	766.6	94.6	34.8	12	s.			4		0			0	0	clear	Peres.
Tebessa			30.22	767.6	74.1	23.4	43	se.			1		0			0	0	clear	Derché.
Geriville					98.2	36.8	11	se.			8		0			0	0	clear	Lonchamp.
Laghouat			30.15	765.9	89.2	31.8	36	e.			2		0			0	0	clear	Abraham.
Biskra			30.11	764.7	94.6	34.8	22	se.			1		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	30.08	764.0	30.17	766.3	45.5	7.5	96	ssw.	1	0.4			2			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.48	748.7	30.01	762.2	72.7	22.6	42	e.			4		3			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.24	742.8	30.00	761.9	63.7	17.6	35	nw.	9.8	4.4			4			0.008	0.2		Dr. Wierzbiski.
Eperies	29.06	738.1	29.91	759.7	68.0	20.0	42	n.			4	cs	5 s		s.	0	0		Julius Mikolik.
Gratz	28.80	731.4	30.01	762.2	67.1	19.5	84	nw.			2		2			0.295	7.5		Andreas Rospini.
Hermannstadt	28.43	722.2	29.82	757.5	63.7	17.6	76	n.			3		10			0.445	11.3		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.78	731.1	30.10	764.6	62.6	17.0	67	w.			1		9			0.047	1.2	almost cov'd	The Staff.
Lemberg	28.94	735.1	29.90	759 5	64.4	18.0	46	ne.			3		8			0	0		Dr. T. Stanecki.
Pola	29.82	757.5	29.93	760.2	79.3	26.3	44	e.			4		5			0	0		I. R. Hydrographic Office.
Szathmar	29.39	746.5	29.84	757.9	72.3	22.4	42	n.			3		7			0	0		Joseph Midlinszky, S. J.
Szegedin	29.65	753.2	29.93	760.1	68.0	20.0	53	nw.			1		9			0	0		Karl Stancel.
Trieste	29.85	758.2	29.95	760.8	81.7	27.6	26	ne.			1		3			0.043	1.1		Royal Academy.
Vienna	29.37	745.9	30.06	763.6	68.4	20.2	40	nw.			2		2			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.30	769.6	30.40	772.1	55.4	13.0	62	sse.	17	7.6			1			0	0	blue sky	W. Boswell
Armagh, Observatory	30.09	764.3	30.32	770.1	64.2	17.9	59	se.	4	1.8			1					d. clouds	S. Call.
Bidston, Liverpool Obs'y			30.31	769.9	64.1	17.8	38	e.	21	9.4			3					d. clouds	John Hartnup.
Bolton, Sharples	29.80	756.9	30.33	770.4	62.0	16.7	52	ese.	12	5.4			4					d. clouds	Thomas Mackereth. [A.S.
Bradford, Yorkshire	29.96	761.0	30.35	770.9	61.6	16.4	53	se.			2		7			0	0	d. clouds	J. McLandsborough, F. R
Bridgetown, Barbadoes					80.0	26.7	82	ne.			2		6					gloomy	Corpl. J. Surgenor, A. H.C.
Cardington			30.30	769.6	64.0	17.8	42	ne.			4.0		2					blue sky	John McLaren.
Chatham, School M. E.	30.18	766.6	30.31	769.9	57.8	14.3	67	ne.			2		7					d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.94	760.5	30.17	766.3	56.4	13.6	70	ene.			6		8					squally	The Staff.
Fort Napier, Natal	27.53	699.2	29.76	755.9	76.0	24.4	29	calm			0		0					blue sky	Pvt. Lane, A. H.C
Free Town, Sierra Leone	29.67	753.6	29.90	759.4	86.0	30.0	68	w.			1		4					d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	29.96	761.0	30.02	762 5	76.0	24.4	74	nw.			2		2					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	30.14	765.5	30.34	770.6	65.0	18.3	48	ne.			3		0					misty	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.13	765.3	30.30	769.6	60.7	15.9	66	ene.			4		7					d. clouds.	The Staff.
Guernsey	29.81	757.2	30.11	764.8	59.0	15.0	76	ne.			4		6					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	30.27	768.8	30.30	769.6	58.3	14.6	55	ne.	25	11.2			6					hazy	The Staff.
Leicester, Museum	30.08	764.0	30.34	770.6	61.8	16.6	48	se.			2		2					blue sky	J. C. Smith.
Malta, Mediterranean	29.92	760.0	29.99	761.7	84.6	29.2	66	w.			2		0					blue sky	I. H. Whysall.
Nassau, Bahamas	30.04	763.0	30.09	764.3	85.5	29.7	77	s.			1		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.81	757.2	30.33	770.4	61.7	16.5	50	ene.			6		4					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	30.07	763 8	30.30	769.6	57.4	14.1	55	ene.			4		7					squally	The Staff.
Plymouth	30.11	764.8	30.18	766.6	60.2	15.7	66	e.			5		5					d. clouds	John Merrifield.
Sandwick Manse, Orkneys			30.37	771.4	51.9	11.1	86	wsw.	3	1.3			0					blue sky	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.77	756.1	29.83	757.7	75.0	23.9	59	sw.			2		1			blank	blank	blue sky	W. H. Lyne.
Sheffield	30.08	764.c	30.36	771.1	61.9	16.6	73	ene.			1		5			0	0	d. clouds	W. F. Cooper.
Silloth Rectory	30.31	769.9	30.34	770.6	68.4	20.2	46	nnw.			1		0			0	0	blue sky	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.36	771.1	63.1	17.3	50	e.	14	6.3			0					blue sky	J. New.
Strathfield Turgiss	30.07	763.8	30.29	769.4	61.0	16.1	55	e.			4		4					squally	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	30.09	764.3	30.10	764.5	64	17.8	63	e.			6		8					gloomy	W. Newcombe.
Valencia, Observatory	30.17	766.3	30.20	767.1	64.1	17.8	49	e.	36	16.1			4					misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B			29.80	756.9	56	13.3	75	s.	11	4.9		1 cs	3 s	calm		0	0	fair	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.75	755.6	29.74	755.4	49	9.4	93	ne.	4	1.8			10 n		ne.	0.29	7.4	heavy rain	H. J. Cundall, C. E.
Chatham, N. B*	29.68	753.9	29.66	753.4	43	6.1	93	ne.	28	12.5			10 n		se.	0.06	1.5	light rain	G. A. Blair.
Father Point, Quebec*	29.64	752.8	29.90	759.4	59	15.0	65	sw.	12	5.4		5 ck	0	w.		0	0	fair	J. McWilliams.
Halifax, N. S*	29.77	756.1	29.39	746.5	53	11.7	93	nw.	12	5.4		3 ck	1 ks	sw.	sw.	0.91	23.1	fair	A. Allison.
Kingston, Ontario*	29.06	738.1	29.36	745 7	60	15.6	100	s.	11	4.9			10 n			0.49	12.4	heavy rain	A. P. Knight, M. A.
Montreal, Quebec*	29.16	740.7	29.49	749.0	44	6.7	93	w.	15	6.7			10 n		w.	0.72	18.3	light rain	C. H. McLeod, C. E.
Parry Sound, Ontario*	28.80	731.5	29.64	752.8	46	7.8	77	w.	9	4.0		10 k	0	nw.		1.22	31.0	cloudy	Rev. R. Mosley.
Port Dover, Ontario	28.95	735.3	29.66	753.4	47	8.3	74	w.	16	7.2			10 n		nw.	0.88	22.4	cloudy	H. Morgan.
Port Stanley, Ontario	29.02	737.1	29.46	748.3	50	10.0	96	e.			6		10 n		e.	0.77	19.6	heavy rain	M. Payne.
Quebec, Quebec*	29.15	740.4	29.31	744.5	50	10.0	83	nw.	8	3.6			8 ks			1.24	31.5		Capt. Ashe, R. N.
Rockliffe, Ontario*	28.87	733.3	29.60	751.8	42	5.6	92	w.	25	11.2			10 ks			0.62	15.7	cloudy	W. H. McIntyre.
Saugeen, Ontario*	28.88	733.5	29.70	754.4	53	11.7	79	sw.	6	2.7			10 n			0	0	cloudy	
St. Andrews, N. B	29.65	753.1	29.88	758.9	54	12.2	80	sw.	12	5.4		3 ck	0	w.		0	0	fair	T. C. Hill, C. E
Sydney, C. B*	29.82	757.4	29.89	759.2	65.0	18.3	73	calm	11.0	4.9		10 cs	0			0.40	10.2	threatening	Magnetic Observatory.
Toronto, Ontario*	29.18	741.2	29.56	750.8	48	8.9	71	w.	12	5.4			10 ks		w.	0	0	fair	Lt. F. E. Wilmot, R. N
Yarmouth, N. S*	29.75	755.6	29.82	757.4	54	12.2	80	s.	15	6.7		3 c	1 s	w.	sw.				Wm. Wylie.
Sub-series.																			
Mount Forest																0	0		John Delauy.
St. Johns, Newfoundland	30.00?	762.0?	30.25?	768.3?	60	15.6	71	sw.	2	0.9		5 k	10 s						
Cape Colony.																			
Cape St. Francis Lt. House	29.86	758.4	29.89	759.2	65.0	18.3	73	calm	11.0	4.9		10 cs	0			0	0		John Duthie.
Cape Town, C. G. H. Obs'y	29.93	760.2	29.97	761.2	59.9	15.5	85	nnw.	29	13.0		10	9			0.365	9.3		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Chinese (Sub-series).																			
Hankow																			
Zi-Ka-Wei, near Shanghai	29.76	756.0	29.79	756.6	66.6	19.2	88	ese.	15.0	6.7		10 cs	fg			0	0	covered	N. Titoushkin. M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	30.05	763.3	30.10	764.5	57.6	14.2	59	n.	16.8	7.5			3						Oversergent Fischer.
Fanöe	30.21	767.2	30.22	767.7	58.5	14.7	74	nw.			6		5						Overloerer Lauridsen.
Godthaab, Greenland	29.89	759.1	29.93	760.2	34.9	1.6	91	ssw.			2		10			0	0		S. Kleinschmidt.
Stykkisholm, Iceland	29.88	758.9	29.92	760.0	42.8	6.0	91	nw.			2		5						A. O. Thorlacius.
Thorshavn	30.22	767.6	30.26	768.5	53.8	12.1	82	sw.	18	8			10						Overloerer Bergh.
Vestervig	30.14	765.5	30.23	767.8	58.1	14.5	56	nnw.			2		1						Loearer Oesterbol.
French.																			
Agen, Normal School	29.16	740.7	29.77	756.2	83.8	28.8	49	se.			1	c	0			0	0		M. Labroue, Director.
Alençon, Normal School	29.58	751.3	30.13	765.3	64.4	18	78	ne.			4		8	s.	s.	0	0		M. Nicot, Director.
Arras, Engineer School	29.95	760.8	30.21	767.3	61.3	16.3	61	ne.			6	0	1 s			0	0	clear	M. Fénéon, Command't.
Avignon, Normal School	29.86	758.4	29.94	760.4	81.3	27.4	53	n.			1					0	0		M. Giraud, Director.
Bar-sur-Seine	29.55	750.5	30.08	764.1	73.8	23.2	48	se.			1		6		e.	0	0	cloudy	M. Saillard, Director.
Beauvais, Normal School	30.01	762.2	30.19	766.8	64.4	18	47	e.			3		5		e.	0	0	cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.10	739.2	29.98	761.6	73.8	23.2	60	ne.			1		0			0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.52	749.8	29.77	756.1	79.2	26.2	62	ne.			1		8			0	0	almost cov'd	M. Rayet, Director.
Bourges, Normal School	29.55	750.6	30.08	764.1	75.2	24	39	nne.			2	ck	0	nne.		0	0		M. Postel, Director.
Brest, Naval Observatory	29.75	755.6	29.99	761.7	64.4	18.0	67	ne.			3		10		ne.	0	0	stormy	M. de Kermaree, Dir.
Caen, Normal School	30.06	763.6	30.14	765.5	68.4	20.2	53	ne.			2		0			0	0	clear	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.76	755.9	30.27	768.8	74.8	23.8	59	e.			2		0			0	0	clear	M. Jadot, Director.
Charleville, Normal School	29.68	753.9	30.19	766.7	67.3	19.6	51	e.			1		0			0	0	clear	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.65	727.7	29.95	760.7	75.2	24.0	61	ne.			1		5			0	0	¼ covered	M. Alluard, Director.
Cluny, Normal School	29.24	742.6	30.06	763.4	73.0	22.8	53	nw.			4		4		n.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.29	744.0	30.14	765.5	69.6	20.9	49	ne.			3	ck		ne.	ne.	0.008	0.2		Dr. Coulet, Director.
Gap, Normal School	27.48	698.1	29.89	759.1	84.2	29	24	sw.			1		1 k		n.	0	0		M. Jeanglrard, Director.
Gréasque, du Rhone	28.84	732.5	29.89	759.1	89.1	31.7	22	sw.			1		4		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.21	742.0	29.95	760.6	76.3	24.6	62	nw.			1	cs	0			0	0		M. Ablard, Director.
Guéret, Normal School	28.57	725.6	30.13	765.4	60.8	16	69	nw.			2		2		w.	0	0	slightly cl'dy	M. Rivoire, Director.
Lamballe, Normal School	29.85	758.3	30.13	765.3	68.4	20.2	54	ne.			2		10 k		ne.	0	0	covered	M. Olliffrault, Director.
Lescar, Normal School	29.17	740.9	29.70	754.4	28	55	nnw.				1		2			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	29.85	758.2	29.95	760.8	70.3	21.3	63	ene.			4		10			0	0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.99	736.3	30.01	762.3	73.4	23.0	54	n.			1	8 c	0	w.		0	0	¾ covered	M. André, Director.
Mans, Normal School	29.78	756.4	30.08	764.0	67.5	19.7	60	e.			4		2		e.	0	0	slightly cl'dy	M. Piboen, Director.
Marseille, Observatory	29.65	753.2	29.91	759.8	86.0	30.0	39	sw.			1		8		wsw.	0	0		M. Stephan, Director.
Montlouis	24.92	632.9	29.76	755.9	74.3	23.5	22	sw.	15.0	6.7			0			0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.77	756.1	29.89	759.3	84.7	29.3	47	ne.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.37	746.1	30.14	765.6	68.0	20.0	62	n.			1		k		e.	0	0		M. Hasse, Director
Nantes. Observatory	29.82	757.5	29.98	761.6	64.9	18.3	76	ese.			2–4		10		e.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.82	757.5	29.93	760.1	75.7	24.3	51	se.	7.4	3.3			10			0	0		Dr. Fines, Director.
Pic-du-Midi. Summit.	21.38	543.1			56.7	13.7		se.			1		5		se.	0	0	cloudy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.92	734.6	29.94	760.4	79.5	26.4	40	n.			1		2			0	0	slightly cl'dy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.22	640.6			55.4	13.0	88	ese.			2		5			0.012	0.3	foggy	M. Alluard, Director.
Rochefort, Naval Obs'y	29.80	757.0	29.84	757.8	70.5	21.4	100	ene.			6		8			0.31	8.	¾ covered	Lt. E. Decanie, Director.
Roche-sur-Yon, N. School	29.71	754.7	29.92	760.0	67.5	19.7	74	ne.			4		0			0	0	clear	M. Mouillot, Director.
Rodez, Normal School	27.72	704.2	29.74	755.4	83.8	28.8	36	e.			1		8		s.	0	0		M. Seger, Director.
Rouen, Normal School	30.12	765.1	30.17	766.3	65.5	18.6	60	ene.			4		2	ne.		0	0		M. Brotier.
Saint Maur, Observatory	29.97	761.2	30.13	765.4	68.5	20.3	57	ne.			2	1	1	w.	e.	0	0	clear	M. Renou, Director.
Toulouse, Observatory	29.14	740.2	29.86	758.5	87.1	30.6	40	se.			3		5	nw.		0	0	cloudy	M. Baillaud, Director.
Tours	29.82	757.5	30.00	762.0	68.4	20.2	76	e.			1	1	1	sw.	ese.	0	0	cloudy	M. de Tastes.
Versailles, Observatory	29.65	753.0	30.14	765.5	67.3	19.6	53	e.			4					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.85	758.2	30.14	765.6	68.0	20.0	55	ne.			2		2		ene.	0	0		M. Marié Davy, Director
German.																			
Bamberg	29.31	744.5	30.17	766.3	69.8	21	46	nw.			2	0	3 k		nw.	0	0		Prof. Dr. Hoh.
Berlin	30.05	763.2	30.22	767.7	64.4	18.0	37	nw.			3		7			0	0		Prof. Dr. Arndt.
Breslau	29.57	751.1	30.10	764.6	62.8	17.1	42	nw.			4		5			0	0		Royal University Obs'y.
Carlsruhe	29.72	754.9	30.15	765.9	68.9	20.5	53	ne.			2		6	ne.		0	0		Albert Senz.
Cassel	29.47	748.5	30.18	766.6	61.2	16.2	46	n.			4		2	n.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.83	757.7	30.19	766.8	65.7	18.7	51	nnw.			1		1			0	0		Physical Society.
Friedrichshafen	28.69	728.7	30.09	764.2	68.0	20.0	61	ne.			5		2	ne.		0	0		Wilhelm, Chief Tel.
Hamburg	30.16	766.1	30.26	768.5	59.6	15.5	51	nw.			4		5			0	0		E. Preller.
Kiel	30.17	766.3	30.19	766.7	61.0	16.1	46	nne.			2		5			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.77	756.2	30.19	766.8	62.2	16.8	68	nw.			4		4	nw.		0	0		H. Leppig, Asst.
Magdeburg	30.00	762.1	30.19	766.9	63.1	17.3	47	wnw.			3	ck	7 ks	nw.	nw.	0	0		Dr. Assmann.
Memel	29.95	760.7	30.00	761.9	55.9	13.3	74	nw.			4	0	6 ks						Issermann.
Munich	28.35	720.0	30.22	767.6	61.3	16.3	71	ne.			2		8	nw.		0.114	2.9		Central Station.
Neufahrwasser	30.00	762.0	30.02	762.4	56.5	13.6	74	nne.			4		4			0	0		A. Lothes.
Neustadt, Palatinate	29.63	752.5	30.15	765.9	68.0	20.0	58	ne.			2		2	ne.		0	0		Dickuether.
Stuttgart	29.20	741.6	30.07	763.7	68.0	20.0	55	ne.			1		7	n.		0	0		Prof. Dr. Schoder.
Wustrow	30.13	765.4	30.16	766.1	61.5	16.4	69	wnw.			5	0	8 k			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.54	750.4			82.4	28.0		sw.			2.5		1 k			0	0	clear	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.61	752.0	29.66	753.3	88.0	31.1	76	wsw.	32.0	14.3			5		w.	0	0	d. clouds	
Deesa	29.09	738.9	29.54	750.3	103.2	39.6	29	wsw.	12.0	5.4			0			0	0	blue sky	
Bombay	29.60	751.7	29.63	752.6	85.4	29.7	76	s.	45.0	20.1			9	w.	s.	0.02	0.5	d. clouds	
Poona, Yarrowda	27.82	706.5	29.63	752.6	86.9	30.5	49	ssw.	20.0	8.9			9	e.	e.	0.03	0.8	d. clouds	
Trichinopoly	29.49	748.9	29.76	755.9	92.4	33.6	42	nw.	4.0	1.8			10			0	0	overcast	
Bellary	28.24	717.2	29.66	753.3	95.0	35.0	33	w.	11.1	5.0			2			0	0	blue sky	
Belgaum	27.24	691.8	29.78	756.3	74.3	23.5	82	wsw.	24.0	10.7			10			0.17	4.3	showery	
Lahore	28.68	728.3	29.37	745.9	108.3	42.4	20	calm	2.1	0.9			0			0	0	misty	
Roorkee	28.63	727.2	29.48	748.8	103.9	39.9	19	nw.	1.3	0.6			0			0	0		
Agra	28.90	734.0	29.42	747.2	113.1	45.0	17	s.	4.7	2.1			0			0	0	blue sky	
Nagpur	28.56	725.5	29.58	751.2	91.7	33.2	39	sw.	7.9	3.5			8		sw.	0.02	0.5	gloomy	
Jubbulpore	28.18	715.8	29.46	748.2	106.0	41.1	17	nw.	4.8	2.2			4		n.	0	0	d. clouds	
Lucknow	29.09	738.9	29.44	747.9	105.4	40.8	34	wnw.	1.6	0.7			0			0	0	blue sky	
Allahabad	29.16	740.5	29.45	748.1	97.7	36.5	33	se.	3.3	1.5			5			0	0	d. clouds	
Patna	29.35	745.4	29.53	750.0	87.4	30.8	71	ene.	5.7	2.6			6	ene.	ene.	0	0	d. clouds	
Hazaribagh	27.54	699.6	29.50	749.3	86.6	30.3	35	n.	8.5	3.8			8		n.	0	0		
Cuttack	29.42	747.2	29.50	749.2	93.1	33.9	58	ssw.	4.9	2.2			0			0	0	blue sky	
Calcutta, Alipore	29.50	749.4	29.53	749.9	88.3	31.3	78	s.	7.0	3.1			8		sw.	0	0	d. clouds	
Dhubri	29.48	748.8	29.60	751.8	78.1	25.6	85	e.	5.9	2.6			2		w.	1.91	48.5	d. clouds	
Chittagong	29.58	751.3	29.67	753.6	76.1	24.5	92	s.	5.7	2.6			9			0.12	3.0	d. clouds	
Sibsagar	29.29	744.0	29.62	752.4	82.3	27.9	84	sw.	1.1	0.5			6	w.	w.	0	0	d. clouds	
Jeypore	28.11	714.1	29.48	748.7	105.4	40.8	29	nw.	11.4	6.7			1		nw.	0	0	blue sky	
Zanzibar, Africa	29.93	760.2			84.6	29.2	51	se.	7.5	3.4			3		sse.	inap.	inap.	d. clouds	
Italian.																			
Udine	29.57	751.0	29.97	761.1	80.6	27.0	61	s.	4.3	1.9			2			0.142	3.6		Prof. Giovanni Cloding.
Milan	29.47	748.4	29.96	761.0	83.7	28.7	37	se.	5.6	2.5			1	w.		0	0		Prof. Schiaparelli.
Padua	29.85	758.2	29.96	760.9	81.1	27.3	31	ese.	12.5	5.6			3			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.07	738.4	29.94	760.5	79.3	26.3	52	n.	2.5	1.1			5			0	0		Prof. P. F. Densa.
Genoa	29.80	756.9	29.98	761.6	72.0	22.2	68	sw.	5.6	2.5			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.10	713.8	29.95	760.7	77.4	25.2	49	nw.			2		8	sw.		0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
ITALIAN.—Continued.																			
Pesaro	29.95	760.8	30.00	762.0	73.4	23.0	90	n.	10.5	4.7			7			0	0		Prof. Luigi Guidi.
Florence	29.69	754.1	29.94	760.4	82.8	28.2	39	wsw.			2		1			0	0		Prof. Costantino Pitter.
Leghorn	29.82	757.5	29.91	759.6	78.8	26.0	53	wsw.	2.5	1.1			3			0	0		Prof. P. Monte.
Rome	29.77	756.1	29.94	760.4	85.3	29.6	42	ssw.	19.9	8.9			0			0	0		Prof. P. S. Ferrari.
Lecce	29.65	753.2	29.90	759.4	87.6	30.9	24	sw.	6.3	2.8			0			0	0		Prof. C. de Giorgi.
Cosenza	29.09	738.9	29.94	760.5	86.0	30.0	75	wsw.	3.8	1.7			3	sw.		0	0		Prof. D. Conti.
Cagliari	29.71	754.6	29.89	759.3	81.1	27.3	49	se.			2		0			0	0		Prof. A. Pacinotti.
Palermo	29.75	755.7	30.00	761.9	83.1	28.4	30	ene.	6.9	3.1			0			0	0		Prof. G. Ciacciatore.
Syracuse	29.91	759.7	29.95	760.8	81.5	27.5	37	ese.	4.3	1.9			2	sw.		0	0		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.49	749.0	29.99	761.8	81.1	27.3	45	ssw.	3.8	1.7			0			0	0		Prof. T. Brioschi.
Stelvio	22.31	566.7			50.0	10.0	43	se.			1		8			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.36	568.0			52.9	11.6	57	n.			2		6			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.84	757.9	29.88	758.9	60.4	15.8	80	calm	0	0		8 cs	0			0	0	fair	K. Ogawa.
Hakodate	29.85	758.2	29.86	758.4	54.0	12.2	88	s.	6.0	2.7			9			0	0	overcast	
Hiroshima, I. M. Obs'y	29.73	755.1	29.75	755.6	67.6	19.8	86	w.	1.2	0.5		10 ck;cs	0			0	0	cloudy	I. Sogawa.
Kanazawa	29.82	757.4	29.91	759.7	64.9	18.3	62	se.	3.0	1.3		10s;ck	9 s			0	0	cloudy	S. Endo.
Kioto	29.64	752.8	29.81	757.2	67.9	19.9	67	ne.	2.5	1.1		6cs;ck	4 s			0.015	0.4	cloudy	M. Tojima.
Kochi	29.75	755.6	29.77	756.1	69.4	20.8	80	nw.	3.8	1.7			10 s		e.	0.350	8.9	cloudy	K. Kusunose.
Nagasaki, I. M. Obs'y	29.55	750.6	29.75	755.6	66.1	18.9	88	ne.	3.4	1.5		1 ck	0			0	0	clear	S. Takehayashi.
Nemuro	29.82	757.4	29.88	758.0	49.5	9.7	86	calm	0	0		0	2		ne.	0	0	clear	
Niigata	29.79	756.6	29.83	757.7	61.9	16.6	81	n.	1.2	0.5		10 ck	0	sw.		0	0	cloudy	M. Morita.
Nobiru	29.87	758.7	29.89	759.2	62.6	17.0	89	sse.	12.5	5.6		5ck;cs	0	w.		0	0	fair	H. Midzushina.
Sapporo					57.5	14.2	82	s.	1.2	0.5			1			0	0	clear	
Tokei Obs'y, Yeddo	29.82	757.4	29.89	759.2	66.2	19.0	84	ese.	3.3	1.5			10ks;s		e.	0	0	cloudy	The Staff.
Wakayama	29.71	754.6	29.76	755.9	69.4	20.8	73	ne.	5.3	2.4		10 ck	0			0.234	5.9	cloudy	Y. Kuwamura.
MAURITIUS																			
Mauritius Observatory	29.79	756.7	29.98	761.5	77.1	25.1	77	nnw.	3.5	1.6		1 cs	8 ks;n		nw.	0.91	23.1	cloudy	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.67	601.2	29.89	759.2	59.4	15.2	97	calm	0	0			10 kn			0.382	9.7	rainy	Prof. Vicente Fernandez.
Leon	24.26	616.2	29.90	759.4	60.4	15.8	92	nnw.			1	5 c	5 k;n	sw.	sw.	0.811	20.6	raining	Prof. M. Leal.
Mazatlan	29.65	753.0	29.90	759.5	73.0	22.8	90	n.	0.8	0.4			10 n		w.	0	0	covered	F. Quijano, C. E.
Mexico, Central Obs'y	23.06	585.6	30.03	762.9	52.6	11.4	89	calm	0	0			10 kn		e.	0.343	8.7	covered	The Staff.
Morelia	24.11	612.4	30.14	765.6	60.6	15.9	56	ne.			2	2	4	e.	se.	0.406	10.3	½ clouded	N. Tena, M. D.
Pabellon, Aguascalientes	23.88	606.5	29.78	756.3	63.3	17.4	88	calm			0					0	0		M. V. de Leon, M. E.
Puebla, Catholic Institute	23.36	593.2	30.02	762.6	58.1	14.5	95	calm	0	0		0	0			1.701	43.2	clear	Prof. P. Spina.
San Luis Potosi	24.19	614.5	30.14	765.6	58.4	14.7	78	e.					10		w.	0	0	covered	G. Barroeta, M. D.
Zacatecas	22.54	572.6	30.09	764.3	58.3	14.6	76	n.	9.0	4.0		0	0			0.034	0.9	fine	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.32	770.2	30.32	770.2	61.0	16.1		ne.			4					0	0		
Groningen	30.27	768.8	30.32	770.2	57.6	14.2		nne.			1					0	0		
Helder	30.34	770.6	30.34	770.6	55.4	13.0		n.			4					0	0		
Hellevoetsluis	30.31	769.9	30.31	769.9	60.1	15.6	60	ene.			1					0	0		
Utrecht	30.28	769.1	30.33	770.3	59.7	15.4	53	nne.			3		5			0	0	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	30.23	767.9	30.30	769.5	54.7	12.6	52	nnw.	13	6			6			0	0		
Brono	30.18	766.5	30.22	767.5	50.7	10.4	82	nw.	4	2			4			0	0		
Christiania	30.01	762.2	30.15	765.9	62.6	17.0	42	nne	4	2			7			0	0		
Gjesvær	30.14	765.5	30.16	766.1	45.7	7.6		calm			0		5						
Lodingen	30.08	764.0	30.13	765.2	51.8	11.0	45	ne.			2		0			0	0		
PORTUGUESE.																			
Angra, Azores					60.4	15.8	77	nw.	4.9	2.2			3			0	0		Dr. J. A. Sampaio.
Campo Major	28.95	735.2	29.92	759.9	70.2	21.2	36	sw.	9.4	4.2			5			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	29.97	761.2	30.06	763.4	67.6	19.8	54	wsw.	13.0	5.8			1			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.60	751.7	29.95	760.7	64.4	18.0	68	ssw.	24.8	11.1			8			0.024	0.6		The Staff.
Ponta Delgada, Azores	29.94	760.5	30.01	762.3	64.8	18.2	63	sw.	4.9	2.2			4			0	0		
Saint Paul de Loando	29.75	755.7	29.95	760.8	75.6	24.2	88	w.	0.7	0.3			0			0	0		
Serra da Estrella	25.17	639.4	29.89	759.1	48.0	8.9	70	sse.	23.7	10.6			10			0	0		
RUSSIAN.																			
Akmolinski	28.95	735.4	30.02	762.5	57.6	14.2	39	se.	4	2		0	0			0	0		Major K. Lasarew.
Archangel	29.93	760.3	29.95	760.8	40.8	4.9	58	n.	18	8		0	4 ks			0	0		Capt. Sseliwerstow.
Astrakhan	29.91	759.7	29.83	757.6	79.0	26.1	47	wsw.	11	5		0	5 s			0	0		Capt. Wisganow.
Barnaul	29.63	752.7	30.14	765.5	47.7	8.7	39	n.	9	4			5 k			0	0		Meteorological Obs'y.
Dorpat	29.67	753.5	29.91	759.7	52.5	11.4	66	nne.	11	5			9 k			0	0		Observatory.
Ekaterinburg	28.77	730.8	29.69	754.0	72.5	22.5	37	ssw.	13	6		ck	0 ks			0	0		Meteorological Obs'y.
Kasan	29.32	744.7	29.57	751.1	75.2	24.0	38	sw.	20	9			10			0.008	0.2		Observatory.
Kertch	29.81	757.2	29.83	757.7	66.2	19.0	82	se.	13	6		2 c	0			0.315	8.0		Lagorio & Sastyrex.
Kieff	29.13	740.0	29.75	755.6	66.0	18.9	45	nw.	11	5		ck	4 ks			0.362	9.2		Observatory.
Lugan	29.48	748.7	29.67	753.7	76.3	24.0	55	ssw.	13	6			8			blank	blank		Meteorological Obs'y
Moscow	29.02	737.2	29.47	748.6	66.4	19.1	47	w.	7.8	3.5			8 ks						Meteorological Obs'y.
Nikolaiev	29.72	754.9	29.79	756.7	79.0	26.1	58	calm	0	0		5 cs	0			0	0	light clouds	Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.82	757.5	29.91	759.7	50.9	10.5	49	calm	0	0			10			0	0		Lieut. Iwanow.
Pekin, China	29.49	749.0	29.63	752.6	77.5	25.3	56	calm	0	0			9 n			0.114	2.9	thun'r'st'rm	Physical Observatory
St. Petersburg	29.83	757.7	29.85	758.1	47.3	8.5	52	nne.	16	7			10			0	0		Central Physical Obs'y.
Semipalatinsk	29.49	749.1	30.15	765.8	54.5	12.5	40	nne.	4	2		0	0			0.327	8.3		Major Lasarew.
Tashkend, Laboritory	28.28	718.3	29.75	755.6	84.0	29.2	37	calm	0	0			8					light clouds.	Teich, A. M.
Tiflis	28.49	723.7	29.84	758.0	77.0	25.0	53	s.	2	1		0	7 ks			0	0		Physical Observatory
Vladivostock	29.71	754.6			52.9	11.6	100	se.	18	8			10 n						
Warsaw	29.53	750.0	29.94	760.4	66.6	19.2	40	wnw.	11	5			9 ks						Astronomical Obs'y
Wilna	29.49	749.0	29.90	759.5	58.3	14.6	56	wnw.	2	1			8			0	0		Berg, Assistant.
SPANISH.																			
Barcelona, Met. Obs'y	29.79	756.6	29.89	759.2	72.0	22.2	66	e.	2.0	0.9		5 c	0			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	29.73	755.1	29.79	756.6	67.6	19.8	80	nw.	0.7	0.3			10			0	0	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.96	684.8	29.82	757.3	70.0	21.1	62	s.	8.1	3.6			9			0	0	almost cov.	Domingo Martin.
Madrid, Royal Obs'y	27.73	704.3	29.88	759.0	71.6	22.0	46	sw.	15.4	6.9			10			0	0	covered	The Staff.
Murcia, Met. Obs'y	29.71	754.7	29.85	758.2	80.2	26.8	64	ene.	4.5	2.0		3	4	e.		0	0	cloudy	Olayo Diaz, Director.
Santiago, Met. Obs'y	28.93	734.8	29.80	756.9	67.6	19.8	64	sw.	6.9	3.1			7			0	0	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	29.94	760.4	30.00	762.0	82.0	27.8	83	se.	1.8	0.8		3 c	1 s	wnw.	sse.	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.81	757.1	29.87	758.6	79.1	26.2	91	n.	2.0	0.9			10 n		n.	0.709	18.0	heavy rain	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.95	760.7	30.05	763.2	68.7	20.4	72	w.	5.4	2.4		0	9		sw.	0.002	0.1		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I.	29.99	761.7	30.08	764.0	83.5	28.6	79	e.	9.6	4.3		5 cs	4 kn	e.	e.	0.217	5.5	cloudy	Manuel Maese.
Tuguegarao, Philippine Id's	29.70	754.4	29.83	757.7	79.0	26.1	84	ne.	2.5	1.1			10 kn		se.	0.09	2.3	covered	José L. Yrastorza.
SWEDISH.																			
Haparanda	30.06	763.6	30.10	764.6	55.0	12.8	38	n.			2		5			0	0		
Umea	29.88	759.0	29.93	760.3	54.0	12.2	43	se.			4		4			0	0		
Hernosand	30.04	763.1	30.10	764.4	55.4	13.0	62	e.			2		5			0.071	1.8		
Stockholm	29.88	759.0	30.06	763.8	59.9	15.5	32	ne.			6		2			0	0		
Wisby	29.93	760.3	29.99	761.8	54.7	12.6	70	nne.			6		5			0.008	0.2		
Sub-series.																			
Upsala	29.99	761.7	30.08	763.9	59.2	15.1	38	n.	16.1	7.2			5	nnw.		0	0		S. G. Fineman.
SWISS.																			
Geneva	28.64	727.4	30.02	762.5	69.4	20.8	62	nne.			3					0	0		The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
SCOTTISH.																			
Monach Lt	.....	.....	30.35	770.9	59	15.0	93	calm	.....	.....	0	0	0	.....	.....	0	0	clear	J. Youngclause.
TURKISH.																			
Constantinople	.....	.....	29.89	759.1	79.2	26.2	40	ssw.	6.7	3.0	.....	.....	1	.....	n.	0	0	.....	The Observatory.
Valona	.....	.....	30.05	763.3	82.8	28.2	.....	sw.	.....	.....	1	.....	2	.....	.....	0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.91	759.7	77.4	25.2	59	w.	.....	.....	2	0	3 s	.....	w.	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.32	744.7	29.40	746.7	67.5	19.7	84	s.	13	5.8	.....	.....	10 n	.....	s.	0.15	3.8	light rain	J. O. Barnes.
Alpena, Michigan	29.01	736.8	29.66	753.4	46	7.8	77	nw.	14	6.3	.....	0	0	.....	.....	0.21	5.3	clear	Jas. J. Fitzgerald.
Atlanta, Georgia	28.62	726.9	29.77	756.1	67.2	19.6	90	nw.	7	3.1	.....	9 k	0	nw.	.....	0.81	20.6	cloudy	H. Hall.
Atlantic City, New Jersey	29.56	750.8	29.57	751.1	60.5	15.8	94	s.	22	9.8	.....	.....	10 n	.....	.....	0.03	0.8	light rain	Jas. M. Watson.
Augusta, Georgia	29.60	751.8	29.79	756.7	72	22.2	97	s.	6	2.7	.....	.....	10 n	.....	s.	0.40	10.2	light rain	John Healy.
Baltimore, Maryland	29.51	749.5	29.56	750.8	69	20.6	93	sw.	10	4.5	.....	.....	10n;fg	.....	sw.	0.41	10.4	light rain	Robert Seyboth.
Barnegat, New Jersey	29.54	750.3	29.56	750.8	58.0	14.4	100	s.	25	11.2	.....	.....	10 n	.....	s.	0.24	6.1	light rain	Chas. F. Merritt.
Behring Island, Behring Sea	29.91	759.7	29.93	760.2	38.0	3.3	.....	sw.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	Dr. L. Steineger.
Bismarck, Dakota	28.00	711.2	29.75	755.6	53	11.7	86	e.	4	1.8	.....	.....	10 s	.....	w.	0.27	6.9	cloudy	Cyrus Cramer.
Boise City, Idaho	27.10	688.3	29.88	758.9	50	10.0	55	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	B. E. Light.
Boston, Massachusetts	29.45	748.0	29.60	751.8	60.0	15.6	93	s.	11	4.9	.....	.....	10 n	.....	s.	0.01	0.3	light rain	O. B. Cole.
Brownsville, Texas	29.89	759.2	29.93	760.2	71.0	21.7	84	n.	3	1.3	.....	6 ck	0	calm	.....	1.70	43.2	fair	M. McCarty.
Buffalo, New York	28.86	733.0	29.60	751.8	46.5	8.1	77	w.	18	8.0	.....	.....	10 s	.....	w.	0.74	18.8	cloudy	Wm. Finn.
Burlington, Vermont	29.08	738.6	29.37	746.0	61.0	16.1	93	calm	0	0	.....	.....	10 n	.....	s.	0.71	18.0	heavy rain	G. C. Schaeffer.
Cairo, Illinois	29.53	750.0	29.92	760.0	57.6	14.2	77	n.	12	5.4	.....	0	9 s	.....	nw.	1.15	29.2	cloudy	W. H. Ray.
Campo, California	27.37	695.2	29.85	758.2	48	8.9	80	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.19	690.6	29.82	757.4	58.5	14.7	45	sw.	.....	.....	1	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	29.65	753.1	29.67	753.6	73	22.8	90	s.	18	8.0	.....	.....	10 n	.....	.....	0.08	2.0	light rain	A. K. Alderson.
Cape May, New Jersey	29.55	750.6	29.58	751.3	63	17.2	93	s.	36	16.1	.....	.....	10 n	.....	s.	0.10	2.5	light rain	W. Bolton.
Cedar Keys, Florida	29.92	760.0	29.94	760.5	81	27.2	74	s.	22	9.8	.....	6 ck	3 s	s.	s.	0	0	cloudy	F. W. Mixer.
Champaign, Illinois	29.08	738.6	29.87	758.7	51.3	10.7	59	nw.	3	1.3	.....	0	0	.....	.....	0.09	2.3	clear	L. A. Welsh.
Charleston, S. Carolina	29.78	756.4	29.83	757.7	78	25.6	88	sw.	16	7.2	.....	.....	10 s	.....	sw.	inap.	inap.	threatening	J. H. Smith.
Charlotte, N. Carolina	28.84	732.5	29.67	753.6	71.0	21.7	63	sw.	9	4.0	.....	.....	10 s	.....	sw.	0.59	15.0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	28.98	736.1	29.79	756.7	65.5	18.6	86	w.	5	2.2	.....	0	9 ks	.....	w.	1.00	25.4	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.04	610.6	29.78	756.4	46.1	7.8	74	nw.	12	5.4	.....	0	1 s	.....	nw.	0.05	1.3	clear	E. McGovern.
Chicago, Illinois	29.13	739.9	29.82	757.4	48.6	9.2	75	w.	7	3.1	.....	1 c	0	w.	.....	0.05	1.3	clear	J. Mitchell.
Chincoteague, Virginia	29.62	752.3	29.64	752.8	64	17.8	100	s.	18	8.0	.....	.....	10 n	.....	s.	0.11	2.8	light rain	V. P. Temple.
Cincinnati, Ohio	29.15	740.4	29.80	756.9	54.8	12.7	69	nw.	10	4.5	.....	.....	10 s	.....	nw.	0.76	19.3	cloudy	R. B. Watkins.
Cleveland, Ohio	29.01	736.8	29.74	755.4	50	10.0	63	nw.	15	6.7	.....	.....	10 s	.....	nw.	0.34	8.6	cloudy	J. B. Newlin.
Coleman City, Texas	28.22	716.8	29.97	761.2	60	15.6	84	calm	0	0	.....	0	0	.....	.....	0	0	clear	L. Dorman.
Columbus, Ohio	28.90	734.0	29.74	755.4	51	10.6	80	n.	12	5.4	.....	.....	10 ks	.....	nw.	0.99	25.1	cloudy	D. Cuthbertson.
Concho, Texas	28.11	714.0	29.98	761.5	61	16.1	90	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. W. McConihe.
Davenport, Iowa	29.22	742.2	29.86	758.4	50	10.0	86	w.	4	1.8	.....	6 cs	0	w.	.....	inap.	inap.	fair	R. R. Martin.
Dayton, Washington T'y	28.27	718.0	30.01	762.2	52.7	11.5	75	s.	1	0.4	.....	7 c	0	.....	.....	0	0	fair	H. Clifford.
Deadwood, Dakota	25.26	641.6	29.69	754.1	50	10.0	86	sw.	2	0.9	.....	.....	10 s	.....	nw.	0.20	5.1	cloudy	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	65	18.3	54	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	29.57	751.1	29.59	751.6	67.0	19.4	100	sw.	32	14.3	.....	.....	10n;fog	.....	sw.	0.02	0.5	light rain	F. C. Pratz.
Denison, Texas	29.18	741.2	29.96	761.0	59.0	15.0	87	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. McGlone.
Denver, Colorado	24.70	627.4	29.74	755.4	56.0	13.3	57	s.	8	3.6	.....	0	6 s	.....	sw.	0	0	fair	F. M. Neal.
Des Moines, Iowa	29.00	736.6	29.88	758.9	47	8.3	86	ne.	2	0.9	.....	10 cs	0	sw.	.....	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.05	737.9	29.74	755.4	47.3	8.5	77	nw.	9	4.0	.....	0	0	.....	.....	0.50	12.7	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.33	694.2	29.84	757.9	51	10.6	80	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	E. A. Thomas.
Dubuque, Iowa	29.13	739.9	29.82	757.4	51.8	11.0	72	n.	1	0.4	.....	3 c	3 ks	nw.	n.	0	0	fair	J. Harvey Smith.
Duluth, Minnesota	29.10	739.1	29.79	756.7	46	7.8	76	nw.	1	0.4	.....	0	0	.....	.....	inap.	inap.	clear	N. B. Conger.
Eagle Pass, Texas	29.24	742.7	30.02	762.5	68.1	20.1	90	calm	0	0	.....	0	0	.....	.....	0	0	clear	F. Belford.
Eagle Rock, Idaho	25.29	642.4	29.88	758.9	48	8.9	68	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. M. Clifford.
Eastport, Maine	29.66	753.4	29.73	755.1	50.5	10.3	78	s.	14	6.3	.....	.....	10 s	.....	s.	0	0	cloudy	D. C. Murphy.
El Paso, Texas	26.28	667.5	29.87	758.7	58	14.4	55	e.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	28.96	735.6	29.68	753.9	48	8.9	86	nw.	17	7.6	.....	.....	10 s	.....	nw.	0.54	13.7	cloudy	Peter Wood.
Escanaba, Michigan	29.08	738.6	29.73	755.1	47	8.3	63	nw.	10	4.5	.....	0	0	.....	.....	0.13	3.3	clear	C. Dill.
Fort Apache, Arizona	25.03	635.8	29.78	756.4	37	2.8	66	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.00	685.8	29.79	756.7	57	13.9	77	sw.	16	7.2	.....	6 k	0	sw.	.....	0	0	fair	B. O. Lenoir.
Fort Bennett, Dakota	28.27	718.0	29.81	757.2	51.0	10.6	93	n.	2	0.9	.....	.....	fg.	.....	calm	0.11	2.8	dense fog	A. Pritchard.
Fort Benton, Montana	27.04	686.8	29.81	757.2	55	12.8	80	se.	2	0.9	.....	1 cs	8 s	.....	.....	0	0	cloudy	G. W. Davis.
Fort Buford, Dakota	27.86	707.6	29.82	757.4	49	9.4	86	ne.	6	2.7	.....	.....	fg.	.....	calm	0.05	1.3	dense fog	A. H. Bell.
Fort Custer, Montana	26.70	678.2	29.76	755.9	54	12.2	93	nw.	4	1.8	.....	0	4 s	.....	calm	0	0	fair	V. Verge.
Fort Davis, Texas	25.21	640.3	29.82	757.4	61	16.1	72	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Williams.
Fort Elliott, Texas	27.22	691.4	29.88	758.9	50	10.0	74	w.	8	3.6	.....	0	0	.....	.....	0	0	clear	W. J. Cundall.
Fort Grant, Arizona	25.24	641.1	29.78	756.4	64.9	18.3	15	se.	8	3.6	.....	0	0	.....	.....	0	0	clear	Robert C. Lord.
Fort Keogh, Montana	27.32	693.9	29.75	755.6	57	13.9	77	se.	2	0.9	.....	8 cs	0	.....	.....	0.10	2.5	cloudy	W. B. Stockman.
Fort Macon, North Carolina	29.78	756.4	29.79	756.7	74	23.3	90	s.	32	14.3	.....	.....	10s;fg	.....	sw.	0	0	cloudy	W. W. Thomas.
Fort McKavett, Texas	27.69	703.3	29.89	759.2	62	16.7	84	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. E. Thatcher.
Fort Missoula, Montana	26.66	677.2	29.92	760.0	57	13.9	60	se.	2	0.9	.....	.....	10 ks	.....	.....	0	0	cloudy	J. H. Jones.
Fort St. Michaels, Alaska	29.77	756.1	29.80	756.9	37	2.8	100	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	A. P. Leavitt.
Fort Shaw, Montana	26.27	667.2	29.84	757.9	60	15.6	56	w.	9	4.0	.....	8 cs	0	nw.	.....	0	0	cloudy	A. L. Mathews.
Fort Sill, Indian Territory	28.76	730.5	29.96	761.0	56.5	13.6	88	calm	0	0	.....	0	0	.....	.....	0	0	clear	T. Cleary.
Fort Smith, Arkansas	29.50	749.3	29.96	761.0	54.0	12.2	86	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Fort Stevenson, Dakota	27.97	710.4	29.77	756.1	51	10.6	93	ne.	5	2.2	.....	.....	10 s	.....	e.	0.02	0.5	cloudy	W. Burrows
Fort Verde, Arizona	.....	.....	.....	.....	55.8	13.2	37	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.47	621.5	29.85	758.2	43.4	6.3	88	nw.	3	1.3	.....	5 c;k	0	.....	.....	0	0	fair	T. M. Ambler.
Fredericksburg, Texas	28.27	718.0	29.95	760.7	58	14.4	86	calm	0	0	.....	0	0	.....	.....	0	0	clear	H. S. Miles.
Galveston, Texas	29.89	759.2	29.94	760.5	73	22.8	71	n.	20	8.9	.....	5 cs	hz.	n.	.....	0.19	4.8	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.14	740.1	29.79	756.7	53.2	11.8	66	w.	5	2.2	.....	0	0	.....	.....	0.24	6.1	clear	W. A. Reid.
Hatteras, North Carolina	29.79	756.7	29.81	757.2	73	22.8	97	s.	32	14.3	.....	.....	10 n	.....	sw.	0.02	0.5	light rain	R. M. Crawford.
Helena, Montana	25.77	654.5	29.89	759.2	62	16.7	54	sw.	5	2.2	.....	.....	10 s	.....	sw.	0	0	cloudy	S. Wheaton.
Henrietta, Texas	29.04	737.6	30.02	762.5	68.0	20.0	70	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. W. Byram.
Huron, Dakota	28.42	721.9	29.76	755.9	52.7	11.5	86	e	6	2.7	.....	.....	10 ks	.....	ne.	0.12	3.0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.05	737.9	29.83	757.7	51	10.6	64	nw.	5	2.2	.....	0	0	.....	.....	0.42	10.7	clear	O. Schutze
Indianola, Texas	29.94	760.5	29.97	761.2	73.2	22.9	82	n.	15	6.7	.....	4 cs	0	sw.	.....	0.14	3.6	fair	I. A. Reed.
Jacksboro, Texas	28.85	732.8	29.97	761.2	59	15.0	93	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. P. Sherry.
Jacksonville, Florida	29.86	758.4	29.90	759.4	81	27.2	79	s.	16	7.2	.....	.....	10 s	.....	s.	0.38	9.7	cloudy	J. W. Smith.
Keokuk, Iowa	29.21	741.9	29.85	758.2	57.0	13.9	74	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	F. Z. Gosewisch.
Key West, Florida	29.95	760.7	29.97	761.2	83.0	28.3	80	s.	8	3.6	.....	2 c;cs	2 ks	.....	s.	0	0	fair	R. H. Paxton.
Kittyhawk, North Carolina	29.74	755.4	29.76	755.9	74	23.3	90	sw.	35	15.6	.....	.....	10 s	.....	sw.	0	0	cloudy	E. A. Beals.
Knoxville, Tennessee	28.75	730.2	29.76	755.9	64	17.8	93	w.	4	1.8	.....	5 cs	4 s	w.	w.	0.57	14.5	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.02	737.1	29.78	756.4	53	11.7	66	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	S. C. Emery.
La Mesilla, New Mexico	26.10	662.9	29.82	757.4	56.0	13.3	49	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.06	738.1	29.93	760.2	54	12.2	80	calm	0	0	.....	5 cs	0	sw.	.....	0	0	fair	A. W. Browne.
Lewiston, Idaho	29.12	739.6	29.94	760.5	59.1	15.1	70	e.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	W. Bell.
Little Rock, Arkansas	29.63	752.6	29.94	760.5	56	13.3	80	n.	8	3.6	.....	0	9 ks	.....	nw.	0	0	cloudy	W. U. Simmons.
Los Angeles, California	29.59	751.6	29.98	761.5	55.5	13.1	85	s.	1	0.4	.....	.....	10 s	.....	calm	0	0	cloudy	E. F. Kubel.
Louisville, Kentucky	29.26	743.2	29.81	757.2	51	10.6	72	nw.	12	5.4	.....	0	6 k	.....	n.	0.90	22.9	fair	H. C. Smyth.
Lynchburg, Virginia	28.92	734.6	29.59	751.6	70.0	21.1	84	sw.	4	1.8	.....	.....	10 n	.....	sw.	0.69	17.5	light rain	W. R. Bushby.
Madison, Wisconsin	28.81	731.8	29.80	756.9	48	8.9	77	w.	3	1.3	.....	0	0	.....	.....	0.01	0.3	clear	C. A. Shaw.
Marquette, Michigan	29.03	737.3	29.75	755.6	46	7.8	61	nw.	14	6.3	.....	4 k	0	nw.	.....	0.03	0.8	fair	J. Gilligan.
Memphis, Tennessee	29.58	751.3	29.91	759.7	59	15.0	87	nw.	8	3.6	.....	.....	10 s	.....	nw.	0.04	1.0	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.06	738.1	29.80	756.9	47	8.3	77	w.	8	3.6	.....	0	fg.	.....	.....	0.01	0.3	clear	W. Line.

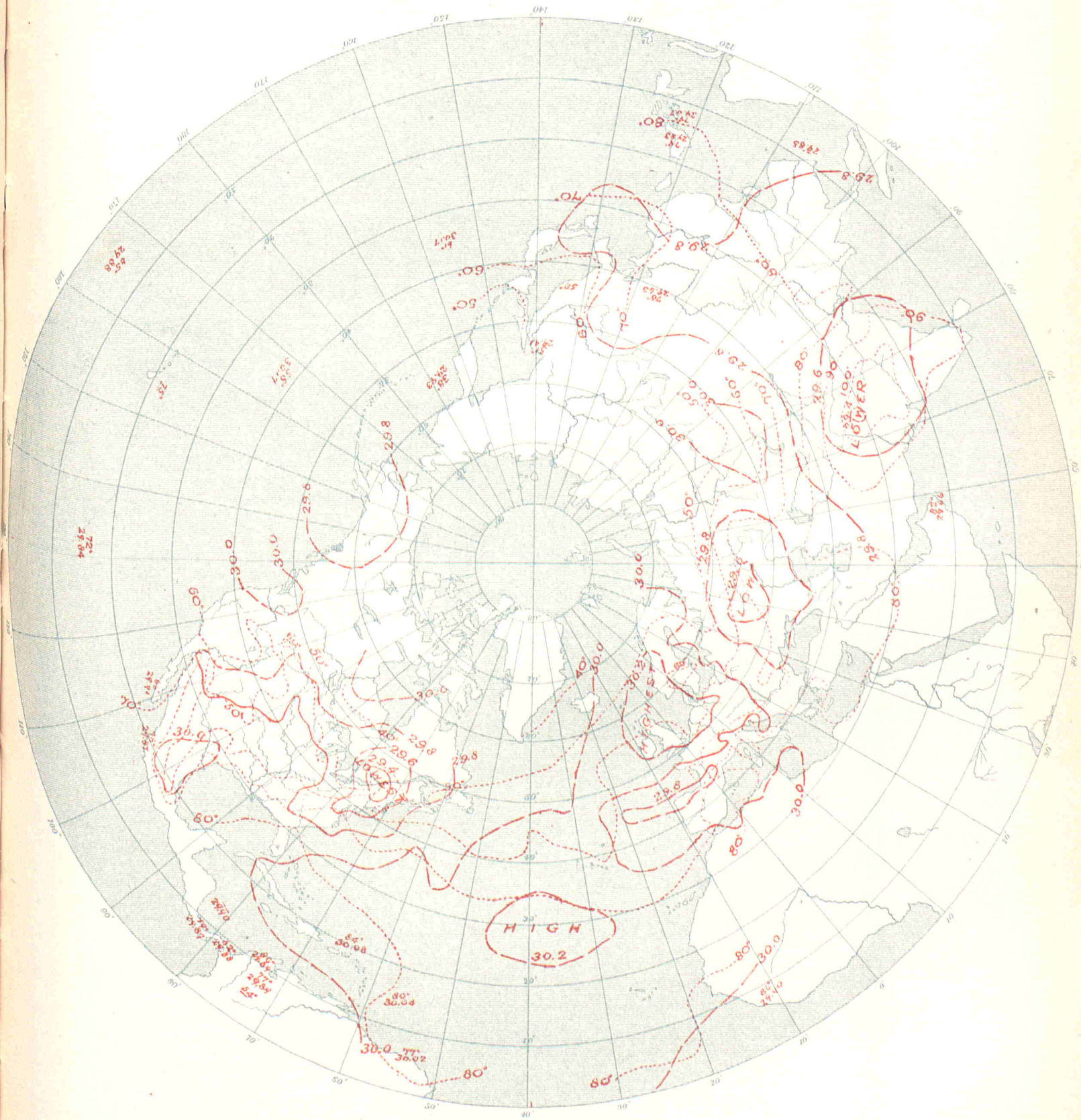
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Mobile, Alabama	29.80	756.9	29.84	757.9	71	21.7	90	w.	3	1.3		8 cs	0	sw.		2.74	69.6	cloudy	J. D. Paxton.
Montgomery, Alabama	29.59	751.6	29.82	757.4	71	21.7	94	w.	5	2.2			10 s		nw.	1.10	27.9	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	28.83	732.3	29.80	756.9	48	8.9	86	calm	0	0		0	0			inap.	inap.	clear	H. Bessant.
Morgantown, W. Virginia	28.56	725.4	29.56	750.8	58.0	14.4	80	n.	11	4.9			10 n			0.80	20.3	light rain	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.43	595.1	29.55	750.6	42.0	5.6	100	sw.	70	31.2			10n;fg		sw.	0.72	18.3	heavy rain	J. G. Linsley.
Nashville, Tennessee	29.29	744.0	29.81	757.2	62.0	16.7	86	w.	6	2.7			10 ks		nw.	0.37	9.4	cloudy	L. A. Jesunofsky.
New Haven, Connecticut	29.45	748.0	29.56	750.8	59	15.0	100	s.	13	5.8			10 n		s.	0.70	17.8	light rain	J. H. Sherman.
New London, Connecticut	29.57	751.1	29.62	752.3	60	15.6	100	s.	22	9.8			10 n		s.	0.12	3.0	light rain	J. G. Lynch.
New Orleans, Louisiana	29.80	756.9	29.85	758.2	73.5	23.1	81	s.	4	1.8		10 c	0	w.		2.23	56.6	cloudy	L. Dunne.
Newport, Rhode Island	29.58	751.3	29.64	752.8	57.4	14.1	92	s.	22	9.8			10 n		sw.	0.03	0.8	light rain	W. McGillivray.
New River, N. Carolina					74	23.3	98	s.			6		10 s		sw.	0.09	2.3	threatening	C. C. Corbin.
New Shoreham, Rhode I'd.	29.62	752.3	29.64	752.8	57.0	13.9	100	sw.	27	12.1			10 n		sw.	inap.	inap.	light rain	W. Davis.
New York, New York	29.35	745.5	29.52	749.8	63	17.2	100	se.	11	4.9			10 n		se.	0.09	2.3	light rain	J. B. Merrill.
Norfolk, Virginia	29.66	753.4	29.70	754.4	73	22.8	100	sw.	18	8.0			10 n			0.46	11.7	light rain	J. T. Elker.
North Platte, Nebraska	26.93	684.0	29.73	755.1	53.6	12.0	88	n.	6	2.7		4 c	0			0.01	0.3	fair	E. F. Brady.
Olympia, Washington T'y	30.05	763.3	30.09	764.3	50.5	10.3	82	calm	0	0		1 cs	0	calm		0	0	clear	J. Dascomb.
Omaha, Nebraska	28.74	730.0	29.88	758.9	57.2	14.0	72	calm	0	0		3 cs	7 s	s.		0	0	cloudy	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	29.84	757.9	29.86	758.4	25.8	— 3.4	100	e.	13	5.8			fg.			0	0	foggy	P. H. Ray.
Oswego, New York	29.14	740.1	29.46	748.3	47.4	8.6	91	w.	20	8.9			10 s		w.	0.55	14.0	cloudy	S. W. Beall.
Palestine, Texas	29.45	748.0	29.99	761.7	65.5	18.6	70	n.	5	2.2		0	0			0	0	clear	L. M. Pindell.
Pensacola, Florida	29.81	757.2	29.84	757.9	72.8	22.7	94	w.	2	0.9			10 s		w.	0.67	17.0	cloudy	M. McGauran.
Philadelphia, Pa.	29.42	747.3	29.52	749.8	70	21.1	90	s.	13	5.8			10 n		sw.	0.05	1.3	light rain	T. F. Townsend.
Pike's Peak, Colorado	17.81	452.4	29.63	752.6	21.5	— 5.8	85	nw.	38	17.0		0	9 s		nw.	0.10	2.5	cloudy	L. M. Dey.
Pioche, Nevada	24.10	612.1	29.90	759.4	54	12.2	33	s.	3	1.3		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	28.97	735.8	29.76	755.9	50.2	10.1	86	nw.	9	4.0			10 ks		sw.	0.91	23.1	cloudy	J. H. Bryce.
Poplar River, Montana	27.68	703.1						se.			1		10 s		calm	0.06	1.5	cloudy	U. D. Maxwell.
Port Eads, Louisiana	29.87	758.7	29.88	758.9	71.1	21.7	97	nw.	9	4.0		0	8 s		nw.	1.65	41.9	clearing	H. G. Christian.
Port Huron, Michigan	29.04	737.6	29.71	754.6	46.4	8.0	94	nw.	12	5.4		0	8 k		nw.	0.35	8.9	cloudy	W. O. Bailey.
Portland, Maine	29.54	750.3	29.59	751.6	55.0	12.8	80	s.	12	5.4			10n;fg		s.	0.05	1.3	light rain	W. W. Eichelberger.
Portland, Oregon	29.96	761.0	30.03	762.7	53.2	11.8	86	calm	0	0		0	hz.			0	0	clear	M. L. Hearne.
Portsmouth, N. Carolina					74	23.3	82	sw.	30	13.4			10 ks		sw.	0.01	0.3	cloudy	F. P. Chaffee.
Prescott, Arizona	24.79	629.7	29.81	757.2	46	7.8	47	s.	3	1.3		0	0			0	0	clear	J. Mc N. Wright.
Provincetown, Mass.	29.63	752.6	29.66	753.4	56	13.3	93	s.	20	8.9			10 n		s.	0.05	1.3	light rain	P. T. Jenkins.
Punta Rassa, Florida	29.94	760.5	29.95	760.7	82.5	28.1	77	s.	18	8.0			10 ks		s.	0	0	cloudy	W. J. Evans.
Red Bluff, California	29.51	749.5	29.87	758.7	70.5	21.4	54	nw.	4	1.8		0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.78	756.4	30.01	762.2	73.2	22.9	90	calm	0	0		0	0			0	0	clear	P. M. Wilson.
Rochester, New York	28.87	733.3	29.52	749.8	49	9.4	77	w.	28	12.5			10 k		w.	0.29	7.4	threatening	E. W. McGann
Roseburg, Oregon	29.46	748.3	30.02	762.5	53.8	12.1	82	calm	0	0		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	29.79	756.7	29.86	758.4	65.2	18.4	63	se.	6	2.7		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.33	745.0	29.92	760.0	54.0	12.2	95	ne.	6	2.7			10 s		ne.	0.25	6.3	cloudy	J. H. Webber.
St. Paul, Minnesota	28.92	734.6	29.77	756.1	50.0	10.0	77	sw.	4	1.8		1 ck	0	nw.		c	0	clear	P. F. Lyons.
St. Vincent, Minnesota	28.98	736.1	29.83	757.7	44	6.7	76	nw.	1	0.4		0	0			0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.65	651.5	29.87	758.7	53	11.7	50	e.	3	1.3		4 k	0	w.		0	0	fair	J. Craig.
San Antonio, Texas	29.30	744.2	29.98	761.5	62	16.7	93	n.	1	0.4		0	0			0	0	clear	E. Lane.
San Diego, California	29.83	757.7	29.90	759.4	61.2	16.2	87	nw.	3	1.3			fg.			0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.07	738.4	29.74	755.4	50	10.0	72	nw.	20	8.9		0	4 ks		w.	0.64	16.3	fair	M. H. Perry.
Sandy Hook, New Jersey	29.47	748.5	29.51	749.5	69.0	20.6	84	sw.	29	13.0			10 n		sw.	0.11	2.8	light rain	B. A. Blundon.
San Francisco, California	29.87	758.7	29.94	760.5	51.5	10.8	94	sw.	7	3.1			fg.		sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.28	591.3	29.78	756.4	46	7.8	51	ne.	2	0.9		1 c	0			0	0	clear	H. U. Jones.
Savannah, Georgia	29.76	755.9	29.85	758.2	76.6	24.8	85	sw.	8	3.6			10 n		sw.	0.45	11.4	light rain	H. W. Ford.
Shreveport, Louisiana	29.71	754.6	29.94	760.5	63	17.2	78	nw.	3	1.3		1 c	0			0.01	0.3	clear	E. N. Meekins.
Silver City, New Mexico	24.28	616.7	29.78	756.4	46	7.8	58	w.	2	0.9		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	29.63	752.6	29.69	754.1	58.1	14.5	82	e.	22	9.8			10 s		e.	0	0	threatening	J. J. McLean.
Smithville, North Carolina	29.76	755.9	29.80	756.9	76	24.4	85	sw.	25	11.2		10 cs	hz.			0	0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.94	709.7	29.98	761.5	57	13.9	83	calm	0	0		10 cs	0			0	0	cloudy	D. Moore.
Springfield, Illinois	29.23	742.4	29.90	759.4	55	12.8	74	calm	0	0		0	hz.			inap.	inap.	clear	T. B. Jennings.
Springfield, Massachusetts	29.38	746.2	29.51	749.5	62.2	16.8	93	s.	15	6.7			10 n		s.	0.09	2.3	light rain	T. S. Outram.
Springfield, Mo.	28.53	724.6	29.99	761.7	51	10.6	77	calm	0	0		0	fg.			0	0	clear	J. B. Marbury.
Starkville, Miss.	29.41	747.0	29.88	758.9	64	17.8	84	nw.	8	3.6		7 cs	0			0.35	8.9	fair	M. J. Wright.
Stockton, Texas	27.02	686.3	29.94	760.5	57.0	13.9	86	sw.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Thatcher's Island, Mass.	29.54	750.3	29.58	751.3	51.9	11.1	100	s.	13	5.8			10n;fg			0.03	0.8	light rain	G. Liebmann
Toledo, Ohio	29.07	738.4	29.75	755.6	51	10.6	66	nw.	9	4.0		0	0			0.54	13.7	clear	A. Buell.
Tucson, Arizona	27.49	698.2	29.79	756.7	63	17.2	36	s.	3	1.3		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.64	752.8	30.00	762.0	58.5	14.7	66	calm	0	0		4 c	0			0	0	fair	J. Daly.
Uvalde, Texas	29.05	737.9	29.99	761.7	62	16.7	93	calm	0	0		0	0			0.05	1.3	clear	E. C. Imlay.
Vicksburg, Mississippi	29.65	753.1	29.90	759.4	68	20.0	73	nw.	4	1.8		6 c	0	sw.		0.50	12.7	fair	H. P. Brisbane.
Visalia, California	29.49	749.0	29.86	758.4	67	19.4	68	n.	1	0.4		0	0			0	0	clear	W. L. Seward.
Washington, D. C.	29.44	747.8	29.55	750.6	65.0	18.3	93	w.	3	1.3			10 n		nw.	0.89	22.6	heavy rain	B. M. Purssell.
West Las Animas, Colorado	26.01	660.6	29.79	756.7	51	10.6	86	calm	0	0		3 c	0	w.		0	0	clear	F. W. Brandenburg.
Williamsport, Pa.	28.88	733.5	29.48	748.8	65	18.3	90	w.	11	4.9			10 n		w.	1.43	36.3	light rain	B. F. Hough.
Wilmington, N. Carolina	29.72	754.9	29.77	756.1	76	24.4	85	sw.	20	8.9			10 s		sw.	0.14	3.6	cloudy	A. T. Sherwood.
Winnemucca, Nevada	25.66	651.8	29.92	760.0	50	10.0	54	calm	0	0		0	0			0	0	clear	J. R. Williams.
Yankton, Dakota	28.56	725.4	29.84	757.9	52	11.1	72	e.	3	1.3			10 s			0	0	cloudy	J. H. Atfield.
Yuma, Arizona	29.61	752.1	29.75	755.6	71.0	21.7	62	calm	0	0		0	1 s			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.03	559.6			54.0	12.2	79	calm	0	0		3 cs;k	3 s	se.		0.11	2.8	fair	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.03	762.7	30.04	763.0	80	26.7	95	e.				0	8 n		sw.	1.60	40.6	heavy rain	J. A. Racker.
Buenaventura, U. S. C.	30.01	762.2	30.04	763.0	77	25.0	95	calm	0	0			10 ks		calm	0	0	cloudy	J. I. Plume.
Havana, Cuba, W. I.	29.97	761.2	30.02	762.5	83	28.3	80	se.	1.2	0.5		2 cs	2 ks			0	0	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.01	762.2	30.02	762.5	83.0	28.3	75	ese.	3	1.3		9 cs	0	e.		0	0		Robert Johnston.
Magua, San Domingo, W. I.					73	22.8		calm			0	3 cs	0			0	0		S. M. Pike.
Paramaribo, S. A.	30.02	762.5	30.02	762.5	77	25.0	91	e.			2	5 k	8 ps	e.	e.	1.150	29.2		Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.43	747.5	29.89	759.2	77	25.0	89	calm			0	9 ck	0	calm		0.08	2.0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							95	ne.			1	0	1 ks		ne.	0	0		Earl Flint.
Santiago de Cuba, W. I.	29.98	761.5	30.01	762.2	80	26.7	82	n.	2.4	1.1		1 c	0			0	0	fair	Robert Mason.
York Factory, B. A.	30.13	765.3	30.18	766.6	32.0	0.0	94	ne.	12	5.4		2 k	1 s	ne.	ne.	0	0	fair	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
British Naval.																		
H. M. S. Alert, S. 26° 06′, E. 37° 09′	30.01	762.2	75.5	24.2	57	sw.			2		2							d. clouds.
H. M. S. Alexandra, Suda Bay, Turkey in Europe	29.98	761.5	77	25.0	95	wnw.			1		2							d. clouds.
H. M. S. Amethyst, S. 9° 16′, W. 30° 34′	29.95	760.7	81.5	27.5	93	ese.			2		3	nnw.				1	ese.	d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	29.95	760.7	63	17.2		wnw.			2-4		1							blue sky.
H. M. S. Champion, Honolulu, Sandwich Islands			75	23.9		calm			0		3	nne.						d. clouds.
H. M. S. Cruiser, N. 36° 12′ E. 23° 05′	29.95	760.7	70	21.1		wsw.			3		0					2	wnw.	blue sky.
H. M. S. Diamond, S. 25° 18′, E. 165° 00′	30.04	763.0	73	22.8	90	n.			1-2		8	s.				1	n.	d. clouds.
H. M. S. Dido, N. 11° 30′, W. 60° 00′	30.01	762.2	79	26.1		e.			3-6		10					5	ne.	thnd'r storm.
H. M. S. Dock-Yard, Bermuda, W. I.	30.08	764.0	72.5	22.5	88	nne.			1-2		7	nne.						d. clouds.
H. M. S. Druid, N. 18° 50′, W. 78° 28′	30.02	762.5	82	27.8	98	ese.			2-3		2					2	ese.	d. clouds.
H. M. S. Dwarf, S. 25° 16′, W. 57° 45′	29.54	750.3	72.5	22.5	81	ne.			1		6							d. clouds.
H. M. S. Eclipse, S. 15° 00′, E. 40° 45′	29.93	760.2	79	26.1		sse.			2		3							d. clouds.
H. M. S. Emerald, S. 52° 42′ W. 100° 40′	28.81	731.8	42	5.6	?	nnw.			1		5	nnw.				7	nnw.	showery.
H. M. S. Euryalus, Bombay, India	29.66	753.4	84	28.9	79	s.			4-6		9	s.				1	s.	squally.
H. M. S. Espiegle, S. 29° 16′ E. 170° 26′	30.08	764.0	67	19.4	90	nnw.			3		6	se.				2	nnw.	d. clouds.
H. M. S. Fawn, S. 14° 56′ E. 61° 43′	29.91	759.7	80.5	26.9	74	ese.			1		3	w.				2	ese.	d. clouds.
H. M. S. Fantome, Cartagena, Granadian, Conf, S. A.	29.89	759.2	86	30.0		sse.			1		1	sse.						blue sky.
H. M. S. Flying Fish, N. 37° 27′, E. 126° 33′	29.80	756.9	65	18.3	83	nw.			1		2							d. clouds.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.12	765.0	53.5	11.9	90	ne.			1		10							misty.
H. M. S. Garnet, S. 34° 54′ W. 56° 13′	29.86	758.4	54	12.2	86	e.			2		10							d. clouds.
H. M. S. Inconstant, Saint Helena, Island, Africa	30.17	766.3	71	21.7	78	ese.			1-2		7	ese.						d. clouds.
H. M. S. Iron Duke, N. 32° 39′, E. 134° 53′	29.70	754.4	73	22.8	95	ene.			5-6		8	e.						showery.
H. M. S. Kingfisher, Off Taboga Island, Panama Bay.	29.88	758.9	82	27.8		calm			0		9							misty.
H. M. S. Lark, S. 9° 48′, E. 158° 21′	29.91	759.7	79.3	26.3		nne.			2		3					1	se.	d. clouds.
H. M. S. Magpie, N. 35° 26′, E. 139° 33′	29.87	758.7	66.9	19.4	88	calm			0		10							d. clouds.
H. M. S. Nelson, S. 41° 17′, E. 174° 48	29.94	760.5	56	13.3	81	ne.			1-2		3	sw.						d. clouds.
H. M. S. Northampton, Halifax, Nova Scotia	29.87	758.7	58.5	14.7	84	ssw.			2		5	wsw.						d. clouds.
H. M. S. Orontes, N. 34° 00′ W. 39° 00′	30.22	767.6	72.5	22.5	97	wsw.			3		10	wsw.				3	wsw.	misty.
H. M. S. Phoenix, N. 18° 25′, W. 77° 08′	30.00	762.0	82	27.8	95	e.			1		0							blue sky.
H. M. S. Rambler, Landano, Lower Guinea	29.99	761.7	75	23.9	100	se.			2		5	sse.				3	ssw.	blue sky.
H. M. S. Rocket, Esquimalt, Vancouver Island	30.03	762.7	54	12.2	93	ssw.			1		7							d. clouds.
H. M. S. Sappho, S. 27° 39′, E. 73° 41′	30.20	767.1	59.5	15.3		s.			4		7	se.				4	ssw.	squally.
H. M. S. Swiftsure, Madeira, Madeira Island, Africa	30.12	765.0	67.5	19.7	74	wsw.			3		3	wsw.				3	wsw.	d. clouds.
H. M. S. Sylvia, S. 0° 20′, W. 26° 23′	30.00	762.0	78	25.6	78	se.			2		3					2	ese.	d. clouds.
H. M. S. Tenedos, N. 47° 34′ W. 52° 41′	29.86	758.4	55	12.8	68	ssw.			1		7							d. clouds.
H. M. S. Triumph, Coquimbo, Chili	30.11	764.8	53	11.7	93	ne.			1		7	w.						d. clouds.
H. M. S. Woodlark, N. 21° 52′, E. 59° 34′	29.56	750.8	81.5	27.5	78	s.			4-5		0					3	s.	misty.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verde Islands	30.06	763.6	78.8	26.0	80	nne.			2		2					2		d. clouds.
Tamega, Macao, China	29.83	757.6	80.6	27.0	77	sse.			2		3		nw.					blue sky.
United States Naval.																		
Navy Yard, Pensacola, Fla	29.80	756.9	73	22.8	95	wsw.	2	0.9			10		w.	0.70	17.8			cloudy.
Navy Yard, Portsmouth, N. H.	29.61	752.1	55	12.8	87	se.	17	7.6			10		se.					raining.
Naval Hospital, Yokohama, Japan†	29.81	757.2	65.5	18.6	92	calm			0		10		w.	sli't	sli't			misty.
Adams, Mare Island, Cal	29.93	760.2	56	13.3	87	sw.			2		8		sw.					cloudy.
Alaska, Callao, Peru	29.95	760.7	60	15.6	94	s.			1		8			0	0	sm'h		fair.
Alert, Kobe, Japan*	29.70	754.4	72	22.2	97	ene.			3		10		calm	0	0	sm'h		hazy.
Alliance, Hampton Roads, Va	29.67	753.6	71	21.7	95	sw.			4-6		10		s.	light	light	sm'h		squally.
Ashuelot, Kobe, Japan	29.76	755.9	72	22.2	71	ne.			3		10		ne.					cloudy.
Brooklyn, Rio de Janeiro, Brazil	30.05	763.3	73	22.8	100	calm	0	0			10		calm	0.12	3.0	sm'h		rainy.
Colorado, New York, N. Y.	29.51	749.5	64	17.8	94	sse.	14	6.3			10		sse.	0.08	2.0			drizzling.
Enterprise, Hampton Roads, Va*	29.65	753.1	74	23.3	86	s.			4		10		calm			mod.	sw.	cloudy.
Essex, Montevideo, Uruguay	29.89	759.2	54	12.2	87	e.			2		10		e.			mod.	s.	overcast.
Franklin, Norfolk, Va	29.70	754.4	73	22.8	90	sse.	22	9.8			10			0.16	4.1			rainy.
Galena, N. 39° 56′, E. 1° 21′	29.95	760.7	74	23.3	86	wsw.			3		0					sm'h		clear.
Independence, Navy Yard, Mare Island, Cal	29.97	761.2	55	12.8	?	sw.			2		10			0	0			foggy.
Iroquois, San Francisco, Cal	29.93	760.2	54	12.2	87	calm			0		10							foggy.
Kearsarge, Hampton Roads, Va	29.66	753.4	72	22.2	95	s.			6		10		s.			sm'h		rainy.
Lackawanna, Panama, Panama*	29.85	758.2	79	26.1	86	nw.			1		8		nw.					cloudy.
Lancaster, Lisbon, Portugal*	29.93	760.2	62	16.7	94	sw.			5		8		sw.	0	0	sm'h		fair.
Marion, S. 34° 54′, W. 56° 13′	29.81	757.2	54	12.2	100	ene.			3		10					mod	se.	hazy.
Michigan, Erie, Pa	29.91	759.7	48	8.9	85	nw.			5		10		s.					cloudy.
Minnesota, Newport, R. I.	29.67	753.6	58	14.4	88	ssw.	15	6.7			10		ssw.					threatening.
Monocacy, Nagasaki, Japan	29.78	756.4	71	21.7	95	ne.			1		2		sw.					fair.
New Hampshire, Newport, R. I.	29.59	751.6	57	13.9	94	ssw.			6		10		sw.			mod.	sw.	squally.
Nipsic, Gibraltar, Mediterranean	30.01	762.2	72	22.2	62	wsw.			2		5		w.			sm'h		fair.
Onward, Callao, Peru†	30.12	765.0	60	15.6	94	sse.			4		10		n.			long	w.	misty.
Palos, Kobe, Japan	29.79	756.7	70	21.1	70	ene.			2		10		calm					cloudy.
Passaic, Washington, D. C.	29.60	751.8	68	20.0	95	se.			2		10							rainy.
Pensacola, Callao, Peru	30.02	762.5	62	16.7	88	sse.	7	3.1			10			0	0	sm'h		foggy.
Powhatan, Norfolk, Va	29.70	754.4	73	22.8	100	ssw.			4		10		ssw.					light rain.
Portsmouth, Portsmouth, Eng*†	30.45	773.4	63	17.2	94	e.			3		0					sm'h		clear.
Quinnebaug, Santa Cruz, Teneriffe Island	30.11	764.8	73	22.8	54	n.			3		2		calm			sm'h		fair.
Ranger, N. 23° 07′, W. 110° 26′*	29.91	759.7	66	18.9	89	nw.			2		10			0	0	sm'h		foggy.
Richmond, Kobe, Japan*	29.73	755.1	72	22.2	79	ne.			2		10		ne.	0	0			cloudy.
Saratoga, Cowes, Eng	30.22	767.6	58	14.4	88	ese.			4		5		se.	0	0	sm'h		fair.
St. Louis, League Island, Pa	29.75	755.6	71	21.7	90	s.	30	13.4			8		s.	0.10	2.5			raining.
Swatara, Shanghai, China*	29.61	752.1	69	20.6	85	se.			4		5		se.			sm'h		hazy.
Tennessee, Fort Monroe, Va	29.68	753.9	72	22.2	95	s.	29	13.0			10			0.04	1.0	mod.		rainy.
Vandalia, Norfolk Va*†	29.91	759.7	73	22.8	95	s.			4		10		s.					raining.
Wabash, Boston, Mass	29.64	752.8	64	17.8	89	sw.	13	5.8			10		sw.	0.04	1.0			rainy.
Wachusetts, Fort Wrangle, Alaska	29.77	756.1	52	11.1	79	e.			2		10		e.			sm'h		raining.
Wyoming, Port Royal, S. C.	29.85	758.2	74	23.3	95	sw.	17	7.6			10		se.	0.01	0.3			raining.
Yantic, Hampton Roads, Va*	29.63	752.6	71	21.7	95	ssw.					10		n.					overcast.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 49° 40′, W. 44° 30′*	29.89	759.2	46	7.8	84	ssw.			6		10		s.	0	0	3	sw.	hazy.
S. S. Prussian, N. 37° 23′, W. 74° 25′*	29.61	752.1	65	18.3		s.			5		9		sse.	20 h'r	20 h'r	light	sse.	hazy.
S. S. Scandinavian, N. 46° 42′, W. 38° 32′*	30.03	762.7	55	12.8		s.			3		9		ssw.	0	0	sm'h	ssw.	d. clouds.
S. S. Waldensian, N. 52° 28′, W. 23° 53′*	30.19	766.8	60	15.6		e.			2		5		e.	0	0	sli't	s.	fine.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, Liverpool, Eng	30.34	770.6	68	20.0	95	ese.			4		2		ese.					very fine.
S. S. Indiana, Philadelphia, Pa.†	29.67	753.6	76	24.4	68	ssw.			5		10		sw.					overcast
S. S. Ohio, N. 50° 42′, W. 19° 19′†	29.87	758.7	55	12.8	93	e.			6		6		s.			mod.	e.	
ANCHOR LINE.																		
S. S. Devonia, N. 47° 27′, W. 40° 04′†	30.13	765.3	57	13.9		sw.			2		6?		sw.			mod.	sw.	clear?
S. S. India, Suez Canal, Egypt*	29.86	758.4	83	28.3	91	ne.			2		0							clear
S. S. Utopia, N. 43° 08′, E. 8° 01′†	30.18	766.6	71	21.7	75	e.			2		5		ne.	0	0	sm'h		fair.
ATLAS LINE.																		
S. S. Ailsa, N. 29° 10′ W. 74° 04′†	30.07	763.8	76	24.4	77	s.			3		2		s.	0	0	mod.	s	fair.
S. S. Alvena, Off Cape Maysi, Cuba, W. I.†	29.90	759.4	85	29.4	79	ene.			1–2		5		ne.	0	0	sm'h		fine.
S. S. Alvo, N. 11° 00′, W. 75° 02′	30.06	763.5	109?	42.8?		nne.			2		0			0	0			clear.
S. S. Antillas, Jeremie, Hayti, W. I*†	30.20	767.1				se.			1					0	0			
S. S. Athos, N. 39° —′, W. 74° —′	29.99	761.7				nnw.			1		5			8 h'r	8 h'r		nnw.	fine.
BOSTON AND HALIFAX.																		
S. S. Carroll, Charlottetown Canada†	29.76	755.9	53	11.7		sse.			3					rain	rain			light rain.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 42° 17′ E. 28° 50′	29.47	748.5	55.3	12.9	82	n.			5		1							blue sky.
British Merchant, S. 6° 54′, W. 14° 50′	30.02	762.5	78.8	26.0	70	ese.			4–5		4							d. clouds.
S. S. Cipero, N. 45° 32′, W 20° 45′	29.79	756.7	60.5	15.8	85	ne.			4		10							overcast.
Bk. Commewyne, N. 17° 47′, W. 37° 14′	30.14	765.5	77.8	25.4	69	ne.			4		9							misty.
S. S. Glencairn, S. 31° 40′, E. 15° 10′	30.14	765.5	62	16.7	83	wnw.			5		5							showery.
Bkt. May Hulse, S. 43° 24′, W. 83° 04′	29.81	757.2	46.4	8.0	76	wsw.			4		10							raining.
S. S. Minho, S. 33° 58′, W. 52° 49′	29.93	760.2	57.4	14.1	97	e.			5		10							raining.
Pole Star, S. 46° 28′, W. 48° 48′	29.70	754.4	43.3	6.3	84	sw.			2		6							blue sky.
CROMWELL LINE.																		
S. S. Hudson, N. 25° 35′, W. 80° 00′†	30.06	763.5	78	25.6		sse.			3		2		s.	0	0	mod.	se.	fair.
CUNARD LINE.																		
S. S. Bothnia, N. 40° 39′, W. 69° 49′	29.77	756.1				sse.			5		10			0	0	sm'h		overcast.
S. S. Gallia, N. 45° 21′, W. 40° 57′	30.09	764.3	60	15.6	82	w.			2		5		nw.	0	0	sm'h		fine.
S. S. Scythia, N. 49° 46′, W. 22° 09′	30.09	764.3	59.5	15.3	88	ene.			3		2		ene.	0	0	sli't	e.	clear.
GENERAL TRANS-ATLANTIC COMPANY																		
S. S. France, N. 45° 48′. W. 37° 05′†	30.11	764.7	55.4	13.0		nne.			2	ck		n.		0	0	sm'h	nw.	cloudy.
GUION LINE.																		
S. S. Arizona, N. 44° 50′, W. 44° 04′	30.12	765.0	52	11.1		wsw.			2		3		wsw.	2 h'r	2 h'r	sm'h		
S. S. Wisconsin, N. 50° 50′, W. 15° 00′*†	30.12	765.0	64	17.8		e.			4		2		e.	0	0	sm'h		fine.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Lessing, N. 47° 37′, W. 32° 29′	30.10	764.6	58	14.4		ene.			3		5?		ene.	0	0	mod.	ene.	cloudy.?
INMAN LINE.																		
S. S. City of New York, N. 47° 37′, W 34° 21′	30.15	765.8				calm			0		9		s.	1 h'r	1 h'r			cloudy.
JOHNSTON LINE.																		
S. S. Thanemore, N. 42° 05′ W. 47° 53′	30.12	765.0				ene.			1		8		wsw.	0	0	sm'h		overcast.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, N. 27° 00′ W. 20° 00′.*†	30.32	770.1	72	22.2		nne.			3		2		nne.	0	0	sm'h		clear.
MALLORY LINE.																		
S. S. Colorado, N. 28° 14′, W. 91° 05′†	29.88	758.9	76	24.4		n.			3		10		e.	0	0	h'vy	s.	fair.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 26° 58′, W. 68° 43′†	30.18	766.6	79	26.1	86	ne.			4		1		ne.	0	0	sm'h		clear.
MERCHANT STEAMSHIP COMPANY.																		
S. S. Glenfyne, N. 20° 27′, W. 57° 11′	29.68	753 9				e.			6				e.	0	0	r'gh		clear.
S. S. Glenapp, Off Santos, Brazil*†	30.00	762.0				var.			1		9		calm	8 h'r	8 h'r			light rain.
NATIONAL LINE.																		
S. S. Canada, N. 45° 10′, W. 33° 21′	30.15	765.8	56	13.3		ne.			1		4		ene.	0	0	sli't	ene.	clear.
S. S. Denmark, New York, N. Y.	29.52	749.8	64	17.8		s.			5		10		s.	5 h'r	5 h'r			raining.
S. S. England, N. 41° 28′, W. 48° 31′	30.09	764.3				var.					0			0	0	sm'h		clear.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, Cienfuegos, Cuba, W. I†	30.04	763.0	80	26.7		ne.			1		0			0	0			fine.
S. S. Saratoga, Havana, Cuba, W. I.†	30.27	768.8	86	30.0	79	calm			0		0			0	0			
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, New York, N. Y.*†	29.58	751.3	64	17.8	94	se.			4		10		se.	6 h'r	6 h'r			rainy.
S. S. City of Puebla, Havana, Cuba, W. I.†	29.89	759.2	81	27.2		se.			2		2		e.			mod.	e.	fair.
S. S. City of Washington, N. 21° 20′, W. 89° 38′*†	29.92	760.0	81	27.2		se.			5				s.	0	0	sm'h		clear.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Lone Star, N. 27° 15′, W. 86° 43′*†	30.12	765.0	80	26.7		ssw.			6							large	s.	cloudy.
S. S. Maas, N. 40° 15′, W. 70° 52′*†	29.73	755.1	57	13.9		s.			3							light	s.	
NORTH GERMAN LLOYD.																		
S. S. Elbe, N. 49° 46′ W. 9° 25′	30.01	762.2	56.3	13.5	94	ne.			6		10			0	0	r'gh	ene.	hazy.
S. S. Graf Bismark, N. 14° 10′, W. 26° 08′	30.05	763.3	74.3	23.5		nne.			4		3		nne.			long	nne.	hazy.
S. S. Hohenzollern, N. 42° 51′, W. 38° 31′*	30.17	766.3	64	17.8		e.			3		10		e.	0	0	5	ne.	cloudy.
S. S. Mosel, N. 42° 09′, W. 62° 05′	30.07	763.8	64	17.8		sw.			3		4		sw.	0	0	sm'h		clear.
S. S. Oder, N. 40° 29′, W. 69° 31′	29.80	756.9	51.8	11.0		s.			4		10		s.	0	0	mod.	sw.	cloudy.
S. S. Ohio, New York, N. Y.	29.54	750.3				s.			6		8		ssw.	1½ h'r	1½ h'r			sprinkling.
S. S. Rhein, N. 43° 00′, W. 42° 33′	30.10	764.5				calm			0		8		se.	0	0	mod.	e.	cloudy.
S. S. Salier, Bremerhaven, Germany.	30.26	768.6	64.4	18.0		n.			4		2		n.	0	0			fair.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 36° 31′, W. 167° 47′*†	30.17	766.3	58	14.4	100	var.			2		5		wnw.	0	0	mod.	wnw.	d clouds.
S. S. Belgic, Hong Kong, China†	29.89	759.2	77	25.0	90	se.			1		5		sw.	0	0			fair.
S. S. Gaelic, Hong Kong, China†	29.74	755.4	78	25.6	86	se.			2		0?		s.					cloudy.?
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y.†	29.52	749.8				ssw.			3		10		sw.	rain	rain			smoky.
S. S. City of Columbus, N. 38° 12′, W. 74° 29′†	29.79	756.7				ssw.			8		10			1 h'r	1 h'r	hv'y	ssw.	threatening.
S. S. Seminole, Savannah, Ga.†	29.82	757.4	80	26.7	66	sw.			1		10		sw.	24 h'r	24 h'r			cloudy.
OREGON IMPROVEMENT COMPANY.																		
S. S. Willametta, Seattle, Wash. Ter.†	30.08	764.0	64	17.8	83	calm			0		2		nw.	0	0			clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Columbia, N. 45° 18′, W. 124° 12′†	30.05	763.3	54	12.2	87	n.			3		10		n.			mod.	nnw.	dense fog.
S. S. Oregon, San Francisco, Cal.†	29.93	760.2	51	10.6	93	calm			0									foggy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal.†	29.88	758.9	51	10.6	93	sw.			2		10		sw.					foggy.
S. S. Dakota, N. 43° 50′, W. 124° 15′*†	29.95	760.7	54	12.2	87	nnw.			4		5		nw.			light	w.	hazy.
S. S. G. W. Elder, N. 43° 05′, W. 124° 40′†	30.03	762.7	54	12.2	100	n.			2		5					light	w.	fair.
S. S. Idaho. N. 38° 55′, W. 123° 43′†	29.85	758.2	52	11.1	93	e.			4		10		e.			sm'h		foggy.
S. S. Orizaba, N 34° 05′ W. 119° 15′†	29.92	760.0	60	15.6	100	calm			0				nw.	0	0	sm'h	nw.	overcast.
S. S. State of California, Portland, Oregon†	30.03	762.7	57	13.9	75	calm			0		0							clear.
S. S. Victoria, San Francisco, Cal.†	29.82	757.5	51	10.6	100	calm			0		0					sm'h		clear.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. City of New York, N. 2° 50′, W. 165° 30′†	29.88	758.9	85	29.4	79	ene.			3		1		ne.	0	0	mod.	ne.	clear.
S. S. City of Pekin, N. 34° 25°, E. 155° 48′†	30.17	766.3	61	16.1	77	s.			1		10		sw.	0	0	mod.	ne.	overcast.
S. S. City of Rio de Janeiro, Acapulco, Mexico†	30.09	764.3	80	26.7	78	se.			2		4		se.	0.1	3.			fair.
S. S. City of Sydney, S. 30° 08′, W. 161° 21′†	29.76	755.9	65	18.3	84	nne.			7		8		nnw.	½ h'r	½ h'r	mod.	nne.	hazy.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
Pacific Mail Steamship Company.—Continued.																		
S. S. City of Tokio, N. 35° 26′, E. 139° 39′†	30.01	762.2	68	20.0	79	e.			3		8		se.	1 h'r	1 h'r			fair.
S. S. Clyde, N. 19° 27′, W. 105° 28′†	29.87	758.7	78	25.6	86	n.			4		8		e.	0	0	long	wnw.	cloudy.
S. S. Colima, N. 7° 07′. W. 81° 17′†	29.87	758.7	79	26.1	91	sw.			3		8		s.	0.15	3.8	sm'h	con.	cloudy.
S. S. Colon, N. 34° 20′, W. 73° 29′†	29.99	761.7	74	23.3		s.			6				s.	0	0	large	s.	cloudy.
S. S. South Carolina, Champerico, Mexico†	30.01	762.2	79	26.1	82	ne.			1		2		var.	0	0	sm'h	sw.	fair.
S. S. Zealandia, Sydney, N. S. W.	30.01	762.2	52	11.1	73	sw.			1		5		sw.			sm'h		fine.
Quebec Steamship Co.																		
S. S. Muriel, Off St. Lucia, W. I.	29.88	758.9	81	27.2		ese.			5		10			7 h'r	7 h'r	long	ese.	rainy.
S. S. Bermuda, N. 26° 42′, W. 66° 39′†	30.15	765.8	77	25.0		calm			0		4			0	0	g'tl	se.	
Red Star Line.																		
S. S. Nederland, N. 40° 32′, W. 47° 31′†	30.12	765.0	60	15.6		ne.			2		10					sm'h	s.	rainy.
S. S. Rhynland, Off Sandy Hook, N. J.	29.49	749.0	49	9.4	85	s.			5					0	0			foggy.
S. S. Vaderland, Antwerp, Belgium	30.05	763.3	60	15.6	71	nne.			2		2			0	0			clear.
State Line.																		
S. S. State of Florida, Glasgow, Scotland	30.05	763.3	68	20.0		ene.			2		1			0	0			fair.
S. S State of Indiana, N. 48° 20′, W. 32° 35′†	29.79	756.7	60	15.6		var.			1		3			1 h'r	1 h'r	sm'h		clear.
Thingvalla Line.																		
S. S. Thingvalla, N. 59° 02′, W. 10° 32′†	30.38	771.6	60.3	15.7	82	nne.			2		3		nne.	0	0	sm'h	nne.	clear.
White Cross Line.																		
S. S. Plantyn, N. 46° 09′. W. 37° 47′	30.14	765.5									8		sw.			1–2		
White Star Line.																		
S. S. Adriatic, N. 51° 00′, W. 15° 46′	30.29	769.4	64	27.8	89	ene.			2		2		ne.	0	0	sm'h		misty.
S. S. Britannic, N. 42° 16′, W. 53° 07′†	30.10	764.5	57	13.9	94	calm			0		0			0	0	sm'h		blue sky
S. S Celtic, New York, N. Y.†	29.55	750.6	67	19.4	89	ssw.			4		10		s.	4 h'r	4 h'r			misty.
S. S. Republic, N. 49° 23′ W. 25° 49′†	30.28	769.1	59	15.0	88	ene.			2		2		ese.	0	0	mod.	ene.	d. clouds.
Wilson Line.																		
S. S. Otranto, N. 49° 52′ W. 6° 51′†	30.18	766.6	56	13.3		se.			6		10		se.			mod.	se.	cloudy.
Miscellaneous.																		
Schr. Abbe Clifford, Orchilla Id., Carribbean Sea*†	29.97	761.2	81	27.2		e.			4		8			¼ h'r	¼ h'r			squally.
Sch. Addie Fuller, Newport News, Va†	29.70	754.4	73.5	23.1	85	sw.			4		10 s		sw.	0.18	4.6			threatening
Bk. Adelaide, N. 22° 42′, W. 64° 03′*†	30.16	766.1	84	28.9		ese.			3		2		ese.	0	0	sm'h	ese	fair.
Schr. Ajax, Blackwater, Fla†	29.90	759.4				nw.			1		8		e.	0	0			hazy.
Bk. Alpha, Guanatamo, Cuba, W. I†	29.97	761.2	80	26.7		n.			1		2		ne.	0	0			fair.
Schr Annie Lewis, N. 29° 16′, W. 89° 32′†	29.93	760.2	75	23.9		w.			3		8		w.	6 h'r	6 h'r	long	sw.	cloudy.
Bk. Anna Thormann, N. 4° 17′ W. 27° 28′	30.03	762.7	79.9	26.6	77	sse.			5		4 ks		s.	2 h'r	2 h'r	short	ssw.	fair.
S. S. Antonio Lopez, Santander, Spain	29.80	756.9	65	18.3	83	nw.			4		10 s			0	0			cloudy.
Schr. Asa Eldridge, N. 24° 05′ W 82° —′*	29.99	761.7				se.			3		1		sse.	0	0		ne.	fair.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.15	765.8	78	25.6		wnw.			1		10		wnw.	3 h'r	3 h'r			foggy.
Schr. Annie M. Smull, N. 6° 20′. E. 107° 10′*†	29.95	760.7				sw.							sw.	0	0			clear.
Bk. Bergenseren, N. 44° 45′, W. 29° 10′†	30.06	763.4	60	15.6		ne.			2				e.	0	0	2–3	nw.	fair.
Bk. Bremen, N. 43° 18′, W. 35° 15′						nne.			2		5		nne.	5 h'r	5 h'r	mod.	cross	fair.
Schr. Edith R. Seward, Baltimore, Md*†	29.69	754.1				se.			2		9			8 h'r	8 h'r			cloudy.
S. E. J. Spicer, N. 50° 53′, W. 5° 10′*†	30.22	767.6				ese.			6		8		ese.	0	0	mod.	e.	
Essex, N. 30° 07′ W. 38° 54′*†	30.28	769.1	75	23.9		wnw.			2		1		w.	0	0	sm'h	ne.	clear.
S. Exporter, S. 39° 00′, E. 34° 30′*†	30.15	765.8				se. to e.			6		5?		e.	0	0			cloudy.?
Bk Freya, N. 54° 05′ W. 17° 22′			62	16.7		ese.			4		0			0	0	sm'h		fine.
Godfrey, N. 43° 33′, W. 31° 41′	30.05	763.3	57.7	14.3	91	n.			3		7		nne.			mod	n.	drizzling.
S. Grecian, N. 2° 00′ E. 106° 40′*†	29.87	758.7	82	27.8		calm			0		3		se.	0	0	sm'h		clear.
Schr. Hattie G. McFarland, N. 44° 30′ W. 60° 15′*†	30.03	762.7	46	7.8		sw.			3		3		w.	0	0	long	s.	clear.
S. Ismir, S. 6° 35′, W. 34° 36′†	30.00	762.0				se.			1		5		se.			sm'h	se.	fine
James Slater, N 29° 17′ W. 48° 49′*†	30.48	774.2	78	25.6		s.			3		2		s.	0	0	mod.	s.	fine.
Schr. Jennie N. Huddle, New York, N. Y.*†	29.78	756.4	65	18.3	94	ssw			1		5		s.	light	light			light rain.
Schr. John L. Thomas, Albuquerque Cays, C. A*†	30.00	762.0				ene.			5		2		ne.	0	0			clear.
Bkt. Josephine, N. 19° 52′ W. 74° 54′	30.16	766.1	85	29.4	75	nne.			2		2		e.	0	0	sm'h		hazy.
Bk. Julia H., Havana, Cuba, W. I.	30.01	762.2	80.3	26.8	87	ese.			2		3							d. clouds.
Light House Tender, Laurel, Pensacola Bar, Fla†	29.87	758.7	78	25.6		nw.			2		10		nw.	5 h'r	5 h'r	long	ssw.	drizzling.
Bg. Medina, N. 43° 05′, W. 68° 00′...†	29.81	757.2				s.			4		10		s.			small	s.	cloudy.
S. Minnie N. Gerow, N. 40° 51′, W. 36° 14′*†	30.02	762.5				e.			3		10		e.			long	w.	threatening.
S. M. P. Grace, N. 34° 44′, W. 56° 16′*	29.98	761.5	70	21.1		ne.			5				ene.	h'vy	h'vy	r'gh	ese.	squally.
S. S. Nebo, St. Sohn's, N. B*†	30.04	763.0				nnw.			4		2		nnw.	0	0			clear.
S. Paramita, S. 37° 25′ W. 42° 14′†	29.94	760.5	57	13.9		wsw.			5		6		sw.	0	0	h'vy	sw.	cloudy.
Bk. Pawashick, N. 43° 24′, W. 26° 48′*†	30.20	767.1	55.5	13.1	85	n.			3		5		nne.			mod.	n.	fine.
Bk. Peppina, Bordeaux, France†	29.83	757.7	78	25.6	73	nne.			2		2		nne.	0	0			fair.
S. S. Ponca, Maranham, Brazil†	29.92	760.0	88	31.1		ene.			1		2		ene.	0	0			clear.
Bg. Potomac, N. 36° 20′, W. 73° 10′*†	29.80	756.9				sw.			6				sw.			hv'y	cross	raining.
Bk. Princessen, N. 49° 30′, W. 4° 40′†	30.09	764.3	56	13.3		ene.			7		2			0	0	short	ene.	misty.
Schr. Rosebud, N. 5° 11′, W. 24° 01*†	30.00	762.0	77	25.0	90	sse.			5		8		sse.	4 h'r	4 h'r	short	s.	showery.
S. Salisbury, S. 39° 07′ E. 50° 08′*	29.96	760.9	56 1	13.4	95	ese.			4		10		ene.	20 h'r	20 h'r	hv'y	ne.	cloudy.
Bk. Stella, N. 13° 42′, W. 130° 28′*	29.84	757.9	72.3	22.4	90	nne.			2		3		ne.	0	0	sm'h	ne.	
Bg. Teneriffe, N. 37° 50′, W. 73° 40′	29.67	753.6				s.			6				sw.				sse.	rainy.
Bk. Truro, Havre, France*†	30.11	764.8				e.			4		0			0	0			smoky.
U.S.F.C.S.S. Fish Hawk, Havre de Grace, Md†	29.72	754.9	69	20.6	100	sw.			7		10		ssw.	0.33	8.4			rainy.
Yacht Vega, St. Croix Id, W. I*†	30.25	768.3	81	27.2		ene.			3				e.	¼ h'r	¼ h'r		ene.	
S. S. Victoria J Peed, Salamanca Id, U. S. C*†	29.11	739.4				ne.			3		0							
Bk. Vincenzo Accame N. 37° —′, W. 63° 30′†	30.24?	768.0?	71.6	22.0		s.			2									
Schr Viola Reppard, Brunswick, Ga†	29.78	756.4	80	26.7		ssw.			3		9		wsw.	4 h'r	4 h'r			cloudy.
Bk. Wm. Wilcox, N. 13° 38′ W. 31° 40′*†	30.23	767.8	76	24.4		ene.			4		5		ene.	0	0	mod.	ene.	hazy.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 2, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.97	761.2	73.0	22.8	65	n.			1		0			0	0	clear	Moiroud.
Algiers			29.95	760.8	73.4	23.0	66	w.			3		1			0	0	very fair	Nicolas.
La Galle			29.98	761.6	84.9	29.4	45	n.			1		2			0	0	fair	Fonfrède.
Tunis			30.04	763.0															Jacques.
Saida			30.22	767.5	91.0	32.8	18	se.			3		0			0	0	clear	Peres.
Tebessa			30.22	767.5	82.8	28.2	11	s.			1		0			0	0	clear	Derché.
Geriville					90.3	32.4	11	s.			8		0			0	0	clear	Lonchamp.
Laghouat			30.14	765.6	89.2	31.8	45	e.			1		0			0	0	clear	Abraham.
Biskra			30.11	764.7	96.1	35.6	12	se.			4		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	30.17	766.3	30.26	768.6	52.2	11.2	78	s.	4	1.8			9			0.07	1.8	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.61	752.0	30.14	765.6	72.0	22.2	47	ne.			2		4			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.38	746.2	30.14	765.6	59.4	15.2	45	nw.	8.7	3.9			4			0	0		Dr. Wierzbiski.
Eperies	29.21	741.9	30.08	764.1	56.8	13.8	69	n.			4		10 ks		s.	0.079	2.0		Julius Mikolik.
Gratz	28.93	734.7	30.15	765.7	67.6	19.8	61	wnw.			2		3			0	0		Andreas Rospini.
Hermannstadt	28.58	725.9	29.94	760.5	75.7	24.3	52	nw.			3		10			0.024	0.6		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.85	732.9	30.17	766.2	66.9	19.4	51	ne.			1		0			0	0	clear	The Staff.
Lemberg	29.02	737.1	30.00	762.1	53.6	12.0	64	ne.			5		9			0.047	1.2		Dr. T. Stanecki.
Pola	29.99	761.7	30.10	764.4	79.9	26.6	41	s.			1		5			0	0		I. R. Hydrographic Office.
Szathmar	29.55	750.6	30.00	762.1	63.9	17.7	36	nw.			5		4			0	0		Joseph Midlinszky, S. J.
Szegedin	29.78	756.5	30.06	763.4	69.8	21.0	34	nw			3		6			0	0		Karl Stancel.
Trieste	30.01	762.3	30.11	764.9	81.3	27.4	42	calm			0		5			0	0		Royal Academy.
Vienna	29.49	749.0	30.19	766.9	65.5	18.6	36	nnw.			2		2			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.18	766.6	30.28	769.1	57.7	14.3	61	s.	18	8.0			3			0	0	blue sky	W. Boswell
Armagh, Observatory	29.86	758.4	30.12	765.0	54.7	12.6	71	e.	19	8.5			10					squally	S. Gall.
Bidston, Liverpool Obs'y			30.08	764.0	58.7	14.8	79	ene.	32	14.3			10					overcast	John Hartnup.
Bolton, Sharples	29.57	751.1	30.11	764.8	56.6	13.7	65	ese.	18	8.0			10					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.77	756.1	30.17	766.3	57.4	14.1	63	se.			2		4			0	0	d. clouds	[A.S. J. McLandsborough, F. R
Bridgetown, Barbadoes					83.0	28.3	70	ne.			3		3					d clouds	Corpl. J. Surgenor, A. H. C.
Cardington			30.08	764.0	62.0	16.7	57	e.			2.0		2					blue sky	John McLaren.
Chatham, School M. E.	29.99	761.7	30.12	765.0	56.4	13.6	80	ne.			3		10			blank	blank	overcast	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.67	753.6	29.89	759.2	53.7	12.1	92	ese.			5		10					foggy	The Staff.
Fort Napier, Natal	27.62	701.5	29.83	757.7	70.5	21.4	41	calm			0		0					blue sky	Pvt. Lane, A. H. C
Free Town, Sierra Leone	29.72	754.9	29.95	760.7	85.0	29.4	75	nw.			1		5					drizzling	Sergt. John Robinson.
Gibraltar, Mediterranean	29.99	761.7	30.05	763.3	77.8	25.4	76	w.			3		0					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.98	761.5	30.19	766.8	62.7	17.1	54	ene.			5		10 k					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.93	760.2	30.10	764.5	58.8	14.9	64	e.			4		10					overcast	The Staff.
Guernsey	29.67	753.6	29.97	761.2	55.0	12.8	98	se.			2		10					raining	A. Collenette, F. M. S.
Kew, Observatory	30.04	763.0	30.08	764.0	58.6	14.8	61	ene.	35	15.6			10					threatening	The Staff.
Leicester, Museum	29.85	758.2	30.09	764.3	61.0	16.1	61	se.			2		10					overcast	J. C. Smith.
Malta, Mediterranean	29.96	761.0	30.03	762.7	83.8	28.8	34	nw.			2		2					blue sky	I. H. Whysall.
Nassau, Bahamas	30.10	764.5	30.14	765.5	85.0	29.4	79	se.			1		5					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.55	750.6	30.07	763.8	58.7	14.8	64	ene.			6		8					d clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.82	757.4	30.05	763.3	58.9	14.9	64	ene.			5		10					squally	The Staff.
Plymouth	29.85	758.2	29.92	760.0	53.5	11.9	96	se.			4		10					raining	John Merrifield.
Sandwick Manse, Orkneys			30.15	765.8	60	15.6	66	e.	10	4.5			0					blue sky	Rev. C. Clouston, L. L.D
Scutari Cemetery, Turkey	29.89	759.2	29.93	760.2	64.0	17.8	83	n.			2		10			blank	blank	gloomy	W. H. Lyne.
Sheffield	29.89	759.2	30.10	766.1	58.9	14.9	80	e.			3		10			inap.	inap.	overcast	W. F. Cooper.
Silloth Rectory	30.14	765.5	30.16	766.1	63.2	17.2	52	e.			4		5			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.15	765.8	57.4	14.1	57	e.	25	11.2			6					d. clouds	J. New.
Stratfield Turgiss	29.79	756.7	30.01	762.2	57.4	14.1	69	e.			4		10					raining	Rev. O. H. Griffiths, F.M.S
Truro, Royal Institution	29.88	758.9	29.89	759.2	59	15.0	87	e.			4		10					gloomy	W. Newcombe.
Valencia, Observatory	29.82	757.4	29.85	758.2	53.9	12.2	86	e.	20	8.9			10					raining	The Met'g'l Office.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.52	749.8	29.56	750.8	55	12.8	90	w.	4	1.8			10 n			0.330	8.4	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.52	749.8	29.58	751.3	56	13.3	86	w.	9	4.0		0	0			1.90	48.3	clear	G. A. Blair.
Father Point, Quebec*	29.61	752.1	29.63	752.6	43	6.1	93	w.	10	4.5			10 n		sw.	0.90	22.9	clearing	J. McWilliams.
Halifax, N. S*	29.49	749.0	29.62	752.3	50	10.0	100	s.	3	1.3			fg.			0.903	22.9	dense fog	A. Allison.
Kingston, Ontario*	29.51	749.5	29.85	758.2	50	10.0	71	w.	8	3.6		2 cs	0	sw.		0	0	fair	A. P. Knight, M. A.
Montreal, Quebec*	29.55	750.6	29.76	755.9	49	9.4	63	sw.	12	5.4		0	0			0.24	6.1	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.10	739.1	29.80	756.9	45	7.2		w.	8	3.6		3 k	0			0	0	fair	Rev. R. Mosley.
Port Dover, Ontario	29.18	741.2	29.86	758.4	53	11.7	80	w.	8	3.6		5 k	5 n	w.	w.	inap.	inap.	cloudy	H. Morgan.
Port Stanley, Ontario	29.21	741.9	29.85	758.2	52	11.1	86	sw.	12	5.4		8 k	0	w.		inap.	inap.	cloudy	M. Payne.
Quebec, Quebec*	29.36	745.7	29.68	753.9	47	8.3	89	w.			1	0	2 s		w.	0.38	9.7	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.28	743.7	29.73	755.1	44	6.7	76	calm	0	0		0	5 ks		w.	0.03	0.8	fair	W. H. McIntyre.
Saugeen, Ontario*	29.08	738.6	29.80	756.9	46	7.8	68	se.	3	1.3		5 cs	0			0	0	fair	
St. Andrews, N. B	29.63	752.6	29.68	753.9	54	12.2	71	nw.	3	1.3		0	0			0.97	24.6	clear	
Sydney, C. B*	29.53	750.0	29.59	751.6	53	11.7	93	sw.	20	8.9			10 n			1.26	32.0	cloudy	T. C. Hill, C. E
Toronto, Ontario*	29.48	748.8	29.87	758.7	46	7.8	83	w.	3	1.3			10 ks		w.	0.01	0.3	light rain	Magnetic Observatory.
Yarmouth, N. S*	29.64	752.8	29.70	754.4	48	8.9	93	nw.	4	1.8		3 ck	0	w.		0.90	22.9	fair	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest																			Wm. Wylie.
St. Johns, Newfoundland	30.007	762.07	30.267	768.67	42	5.6	100	sw.	0	0		fg	fg			0.40	10.2	foggy	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.04	763.0	30.07	763.8	65.0	18.3	73	w.	8.7	3.9		0	2 k			0	0	light haze	John Duthie.
Cape Town, C. G. H. Obs'y	30.08	764.0	30.12	765.0	58.9	14.9	94	nw.	10	4.5		10	10			0.102	2.6		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
CHINESE (*Sub-series*).																			
Hankow	29.60	751.8	29.88	758.9	77.2	25.1	80	calm			0		0			1.14	29.0	blue sky	N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.64	752.8	29.67	753.5	70.2	21.2	98	s.	2.7	1.2			10 n			0.638	16.2	raining	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	30.24	768.1	30.29	769.3	61.9	16.6	56	sse.	10.1	4.5			7						Oversergent Fischer.
Fanöe	30.31	769.9	30.33	770.4	59.9	15.5	75	w.			2		1						Overloerer Lauridsen.
Godthaab, Greenland	29.84	757.9	29.88	759.0	34.7	1.5	93	calm			0		10			0	0	foggy	S. Kleinschmidt.
Stykkisholm, Iceland	30.00	761.9	30.04	763.0	40.5	4.7	86	e.			2		5						A. O. Thorlacius.
Thorshavn	30.15	765.9	30.19	766.8	54.3	12.4	77	wsw.	16	7			4						Overloerer Bergh.
Vestervig	30.21	767.2	30.30	769.5	56.7	13.7	80	wsw.			4		1						Loerer Oesterbol.
FRENCH.																			
Agen, Normal School	29.34	745.3	29.99	761.7	63.3	17.4	88	calm			0		10 n			0	0	covered	M. Labroue, Director.
Alençon, Normal School	29.47	748.5	30.02	762.5	68.0	20	94	s.			1		s			0	0		M. Nicot, Director.
Arras, Engineer School	29.74	755.5	30.00	761.9	68.9	20.5	57	e.			4		k			0	0		M. Fénéon, Command't.
Avignon, Normal School	29.91	759.6	29.98	761.6	86.0	30	30	nw.			1					0	0		M. Giraud, Director.
Bar-sur-Seine	29.44	747.8	29.97	761.3	75.0	23.9	42	se.			2		2			0	0	slightly cl'dy	M. Saillard, Director.
Beauvais, Normal School	29.74	755.4	30.00	761.9	69.1	20.6	53	ese.			3		10		sse.	0	0	covered	M. Frère Eugène Marié.
Besançon, Normal School	29.12	739.6	29.97	761.2	75.2	24	65	ne.			1		cn			0	0		M. Gobin, Director.
Bordeaux, Observatory	29.68	753.9	29.93	760.3	70.7	21.5	70	n.			1		10			0	0	covered	M. Rayet, Director.
Bourges, Normal School	29.42	747.2	29.95	760.6	77.0	25	61	w.			1		k		w.	0	0		M. Postel, Director.
Brest, Naval Observatory	29.69	754.2	29.94	760.4	69.1	20.6	80	w.			1		6		w.	0.079	2.0		M. de Kermaree, Dir.
Caen, Normal School	29.84	757.8	29.91	759.7	63.3	17.4	72	se.			2		10		se.	0.094	2.4	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.65	753.0	29.96	760.9	74.8	23.8	50	se.			2		5	s.	sw.	0	0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.55	750.5	30.04	763.0	74.5	23.6	27	se.			3		2			0	0	¼ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.59	726.2	29.87	758.7	81.0	27.2	40	n.			2		10			0	0	covered	M. Alluard, Director.
Cluny, Normal School	29.13	739.8	29.54	760.5	80.1	26.7	57	e.			4		1		s.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.21	741.9	30.05	763.2	67.8	19.9	52	e.			3		ckn	e.	e.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.57	700.2	29.97	761.1	83.8	28.8	35	w.			1		1 k		nw.	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.91	734.2	29.96	760.9	89.8	32.1	28	e.			3		7		e.	0	0		M. Kina, Director.
Grenoble, Normal School	29.20	741.7	29.94	760.4	76.5	24.7	66	nw.			1		ck	o		0	0		M. Ablard, Director.
Guéret, Normal School	28.41	721.7	29.95	760.6	69.8	21	63	e.			2		2		e.	0	0	slightly cl'dy	M. Rivoire, Director.
Lamballe, Normal School	29.71	754.5	29.97	761.3	68.0	20	72	ese.			1		5		ese.	0.098	2.5	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.38	746.2	29.92	760.0	71.6	22	64	w.			1		5			0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.85	758.2	29.95	760.8	68.0	20.0	76	w.			1		2	nw.	sw.	0.008	0.2	¼ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.93	734.8	29.93	760.3	84.6	29.2	40	sse.			2		c	o	ssw.	0	0		M. André, Director.
Mans, Normal School	29.65	753.1	29.95	760.7	70.2	21.2	67	se.			1		8		s.	0	0	very cloudy	M. Piboen, Director.
Marseille, Observatory	29.75	755.6	30.01	762.2	90.9	32.7	50	se.			3		6		w.	0	0		M. Stephan, Director.
Montlouis	24.89	632.2	29.73	755.2	72.5	22.5	28	sw.	13.0	5.8			4	w.		0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.86	758.4	29.98	761.5	77.0	25	65	e.			3		2			0	0	slightly cl'dy	M. Galzin, Director.
Nancy, Normal School	29.30	744.1	30.06	763.5	69.4	20.8	53	n.			1		ckn			0	0		M. Hasse, Director
Nantes, Observatory	29.80	757.0	29.97	761.2	69.3	20.7	81	wsw.			0–1		10 n		ssw.	0.102	2.6		M. Larocque, Director.
Perpignan, Observatory	29.87	758.7	29.97	761.3	70.0	21.1	81	se.	5.6	2.5			10		e.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.37	542.7			50.9	10.5		sw.			1		5		sw.	0	0	cloudy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.96	735.5	29.95	760.8	87.1	30.6	38	n.			1		2			0	0	slightly cld'y	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.23	640.9			64.8	18.2	55	s.			3		10			0	0	covered	M. Alluard, Director.
Rochefort, Naval Obs'y	29.96	761.0	29.99	761.8	68.4	20.2	98	wsw.			1		10		s.	0	0	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.73	755.2	29.91	760.5	66.4	19.1	90	sw.			1		10			0.35	9.	covered	M. Mouillot, Director.
Rodez, Normal School	27.84	707.2	29.90	759.5	75.0	23.9	54	e.			1		n		s.	0	0		M. Seger, Director.
Rouen, Normal School	29.94	760.5	29.99	761.7	66.6	19.2	67	e.			4		2			0	0	slightly cl'dy	M. Brotier.
Saint Maur, Observatory	29.82	757.3	29.98	761.5	72.7	22.6	57	ese.			2		8	sw.	ssw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.29	744.0	30.02	762.4	67.6	19.8	79	n.			1		10	se.		0	0	covered	M. Baillaud, Director.
Tours	29.76	756.0	29.94	760.5	71.2	21.8	82	w.			1		10	sw.	ssw.	0	0	stormy	M. de Tastes.
Versailles, Observatory	29.48	748.7	29.97	761.2	70.5	21.4	51	se.			2					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.70	754.3	29.99	761.7	71.8	22.1	52	e.			2		10	sw.		0	0		M. Marié Davy, Director
GERMAN.																			
Bamberg	29.35	745.5	30.21	767.3	68.4	20.2	40	e.			3	0	1 s			0	0		Prof. Dr. Hoh.
Berlin	30.21	707.2	30.38	771.7	67.3	19.6	26	ne.			3		7			0	0		Prof. Dr. Arndt.
Breslau	29.73	755.1	30.26	768.7	60.4	15.8	38	nnw.			3		4			0.008	0.2		Royal University Obs'y.
Carlsruhe	29.72	754.8	30.15	765.7	70.7	21.5	45	ne.			2		3	nw.		0	0		Albert Senz.
Cassel	29.51	749.5	30.22	767.7	74.5	23.6	41	n.			2		3	n.		0	0		Dr. H. Mohl.
Frankfort-on-the-Main	29.83	757.7	30.19	766.8	70.2	21.2	36	se.			2		1			0	0		Physical Society.
Friedrichshafen	28.67	728.3	30.06	763.5	71.6	22.0	52	ne.			6		3	ne.		0	0		Wilhelm, Chief Tel.
Hamburg	30.25	768.4	30.35	770.8	63.7	17.6	45	ene.			1		5			0	0		E. Preller.
Kiel	30.30	769.5	30.31	769.9	61.9	16.6	50	nne.			2		2			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.85	758.3	30.27	768.9	65.3	18.5	41	nne.			3		6	nne.		0	0		H. Leppig, Asst.
Magdeburg	30.09	764.3	30.28	769.0	68.2	20.1	34	ne.			2	0	2 k		nw.	0	0		Dr. Assmann.
Memel	30.12	765.0	30.17	766.2	59.9	15.5	45	nnw.			4	0	3 k						Issermann.
Munich	28.37	720.6	30.24	768.2	65.1	18.4	45	ne.			2		1			0	0		Central Station
Neufahrwasser	30.21	767.3	30.25	768.3	54.5	12.5	71	n.			4		2			0	0		A. Lothes.
Neustadt, Palatinate	29.45	748.0	29.98	761.4	70.2	21.2	43	e.			3		3	e.		0	0		Dickneither.
Stuttgart	29.21	741.8	30.07	763.8	71.2	21.8	44	se.			1		3	n.		0	0		Prof. Dr. Schoder.
Wustrow	30.32	770.1	30.35	770.8	62.6	17.0	56	nnw.			2	0	3 s			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.58	751.3	29.96	760.9	81.0	27.2		sw.			1.5		2			inap.	inap.	clear	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.55	750.5	29.60	751.8	87.0	30.6	80	wsw.	34.0	15.2			6		w.	0	0	d. clouds	
Deesa	29.02	737.0	29.46	748.3	104.1	40.1	30	sw.	10.0	4.5			0			0	0	misty	
Bombay	29.48	748.7	29.51	749.6	77.3	25.2	95	s.	26.0	11.6			10		ssw.	2.27	57.7	overcast	
Poona, Yarrowda	27.79	705.9	29.64	752.8	70.8	24.9	68	se.	7.0	3.1			10		s.	0.45	11.4	raining	
Trichinopoly	29.50	749.4	29.78	756.5	81.8	27.7	72	nnw.	2.0	0.9			10			0	0	overcast	
Bellary	28.29	718.6	29.77	756.0	76.0	24.4	79	w.	10.6	4.7			10	sw.		0.02	0.5	drizzling	
Belgaum	27.22	691.5	29.78	756.4	70.6	21.4	90	sw.	19.0	8.5			10		sw.	1.02	25.9	showery	
Lahore	28.63	727.2	29.32	744.8	108.3	42.4	12	e.	3.9	1.7			0			0	0	misty	
Roorkee	28.52	724.3	29.36	745.8	103.9	39.9	20	nw.	2.6	1.2			1			0	0	thunder	
Agra	28.85	732.9	29.38	746.2	108.6	42.6	7	nw.	7.4	3.3			0			0	0	blue sky	
Nagpur	28.51	724.1	29.50	749.2	102.7	39.3	21	sw.	7.1	3.2			5		nw.	0	0	d. clouds	
Jubbulpore	28.22	716.7	29.51	749.6	98.2	36.8	27	w.	5.9	2.6			4		s.	0	0	d. clouds	
Lucknow	29.04	737.7	29.40	746.7	103.9	39.9	29	wnw.	4.6	2.1			0			0	0	blue sky	
Allahabad	29.09	738.9	29.38	746.3	107.6	42.0	16	nw.	4.2	1.9			0			0	0	blue sky	
Patna	29.33	744.9	29.51	749.5	85.4	29.7	73	e.	8.1	3.6			0			0.02	0.5	blue sky	
Hazaribagh	27.53	699.3	29.45	748.7	97.0	36.1	28	nnw.	8.0	3.6			0			0	0	blue sky	
Cuttack	29.40	746.7	29.48	748.6	99.3	37.4	45	se.	2.4	1.1			2			0	0	d. clouds	
Calcutta, Alipore	29.48	748.7	29.50	749.2	89.3	31.8	78	ssw.	8.0	3.6			0			0.52	13.2	blue sky	
Dhubri	29.42	747.3	29.54	750.3	78.9	26.1	78	calm	8.0	3.6			8		sw.	0.23	5.8	gloomy	
Chittagong	29.52	749.8	29.61	752.1	84.7	29.3	80	sw.	6.2	2.8			7			0	0	d. clouds	
Sibsagar	29.32	744.7	29.66	753.2	77.1	25.1	91	se.	1.3	0.6			10	w.	w.	0.56	14.2	d. clouds	
Jeypore	28.06	712.8	29.43	747.4	105.0	40.6	28	wnw.	10.3	4.6			1		w.	0	0	blue sky	
Zanzibar, Africa	29.98	761.5			83.2	28.4	46									0	c	d. clouds	
ITALIAN.																			
Udine	29.71	754.6	30.11	764.7	78.1	25.6	57	sw.	2.5	1.1			4			0.197	5.0		Prof. Giovanni Cloelig.
Milan	29.58	751.3	30.08	763.9	99.3	37.4	40	ene.	4.9	2.2			9	w.		0	0		Prof. Schiaparelli.
Padua	30.30	761.9	30.10	764.6	76.5	24.7	41	ese.	9.4	4.2			4	nw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.22	742.1	30.09	764.2	76.5	24.7	56	nw.	4.3	1.9			8	nw.		0	0		Prof. P. F. Denza.
Genoa	29.87	758.6	30.05	763.3	78.4	25.8	57	sw.	3.1	1.4			10	sw.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.22	716.7	30.06	763.6	72.9	22.7	62	w.			2		7			0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Pesaro	30.05	763.2	30.10	764.4	75.0	23.9	49	e.	8.7	3.9	.....	.....	0	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.78	756.5	30.03	762.8	86.9	30.5	32	nw.	.....	.....	2	.....	2	.....	.....	0	0	.....	Prof. Costantino Pitter
Leghorn	29.91	759.6	29.99	761.7	81.0	27.2	54	sw.	3.8	1.7	.....	.....	10	.....	.....	0	0	.....	Prof. P. Monte.
Rome	29.87	758.8	30.04	763.1	86.9	30.5	29	sw.	9.8	4.4	.....	.....	10	.....	.....	0	0	.....	Prof. P. S. Ferrari.
Lecce	29.79	756.7	30.04	762.9	80.4	26.9	41	ne	13.0	5.8	.....	.....	0	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.15	740.4	30.00	762.0	86.0	30.0	74	sw.	3.1	1.4	.....	.....	2	s.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.78	756.4	29.97	761.1	84.6	29.2	31	se.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.80	757.0	30.05	763.2	84.6	29.2	30	ene.	4.9	2.2	.....	.....	0	.....	.....	0	0	.....	Prof. G. Ciacciatore.
Syracuse	29.98	761.6	30.03	762.7	79.5	26.4	61	ese.	3.1	1.4	.....	.....	3	sw.	.....	0	0	.....	Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.50	749.3	30.00	761.9	85.8	29.9	44	se.	0.7	0.3	.....	.....	4	ne.	.....	0	0	.....	Prof. T. Brioschi.
Stelvio	22.35	567.7	.....	.....	52.9	11.6	32	e.	.....	.....	2	.....	1	.....	.....	0	0	misty	Prof. P. F. Denza.
Valdobbia	22.45	570.7	.....	.....	54.5	12.5	70	n.	.....	.....	2	.....	10	.....	.....	0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.73	755.1	29.77	756.1	59.0	15.0	94	w.	3.0	1.3	.....	0	0	.....	.....	0	0	clear	K. Ogawa.
Hakodate	29.74	755.4	29.75	755.6	51.0	10.6	93	se.	4.8	2.1	.....	.....	0	.....	.....	0	0	clear	
Hiroshima, I. M. Obs'y	29.72	754.9	29.74	755.4	71.4	21.9	76	nw.	0.8	0.4	.....	ck;cs	10 s	.....	w.	0	0	cloudy	I. Sogawa.
Kanazawa	29.82	757.4	29.92	759.9	60.8	16.0	77	se.	2.1	0.9	.....	.....	0	.....	.....	0	0	clear	S. Endo.
Kioto	29.61	752.1	29.78	756.4	64.4	18.0	54	nnw.	2.4	1.1	.....	3 cs	0	.....	.....	0	0	clear	M. Tojima.
Kochi	29.79	756.6	29.81	757.2	70.4	21.3	87	w.	2.5	1.1	.....	.....	10 s	.....	w.	0	0	cloudy	K. Kusunose.
Nagasaki, I. M. Obs'y	29.61	752.1	29.81	757.2	65.7	18.7	93	calm	0	0	.....	.....	10 s	.....	.....	0	0	overcast	S. Takehayashi.
Nemuro	29.74	755.4	29.80	756.9	55.0	12.8	93	calm	0	0	.....	10	0	wnw.	.....	0	0	overcast	
Niigata	29.77	756.1	29.81	757.2	60.3	15.7	94	.....	0.6	0.3	.....	2 ck	2 s	.....	.....	0	0	fair	M. Morita.
Nobiru	29.72	754.9	29.74	755.4	61.0	16.1	93	ne.	3.7	1.6	.....	0	9 s	.....	.....	0.015	0.4	cloudy	H. Midzushina.
Supporo	.....	.....	.....	.....	60.0	15.6	83	n.	1.8	0.8	.....	.....	10	.....	.....	0	0	covered	
Tokei Obs'y, Yeddo	29.69	754.1	29.76	755.9	64.9	18.3	91	ese.	3.5	1.6	.....	2 c;ck	0	.....	.....	0.139	3.5	fair	The Staff.
Wakayama	29.70	754.4	29.75	755.6	71.3	21.8	45	nne.	5.2	2.3	.....	8ck;cs	0	.....	.....	0	0	cloudy	Y. Kuwamuea.
MAURITIUS																			
Mauritius Observatory	29.85	758.2	30.04	763.0	77.0	25.0	72	wsw.	8.5	3.8	.....	2ck;cs	2 k	nw.	wsw.	0.08	2.0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.73	602.7	29.95	760.7	56.3	13.5	90	calm	0	0	.....	6 ck	0	n.	.....	0.114	3.0	fair	Prof. Vicente Fernandez.
Leon	24.31	617.5	29.99	761.7	56.8	13.8	89	nw.	.....	.....	1	8 c	1 s	sw.	sw.	0.024	0.6	foggy	Prof. M. Leal.
Mazatlan	29.69	754.1	29.95	760.6	74.5	23.6	83	nnw.	5.3	2.3	.....	0	6 s;n	.....	w.	0	0	fair	F. Quijano, C. E.
Mexico, Central Obs'y	23.12	587.1	30.13	765.4	55.4	13.0	90	calm	0	0	.....	4 ck	5 kn	sw.	.....	0.729	18.5	cloudy	The Staff.
Morelia	24.14	613.2	30.19	766.9	59.7	15.4	49	n.	.....	.....	.....	2	2	s.	s.	0.284	7.2	raining	M. Tena, M. D.
Pabellon, Aguascalientes	23.89	606.9	29.79	756.7	63.1	17.3	81	e.	.....	.....	1	.....	.....	.....	.....	0.120	3.0	.. ..	M. Y. de Leon, M. E.
Puebla, Catholic Institute	23.36	593.4	30.05	763.2	55.4	13.0	95	n.	.....	.....	.....	0	9	.....	se.	0.741	18.8	covered	Prof. P. Spina.
San Luis Potosi	24.22	614.9	30.16	766.0	58.8	14.9	69	e.	.....	.....	.....	0	5	.....	w.	0	0	cloudy	G. Barroeta, M. D.
Zacatecas	22.57	573.4	30.15	765.7	56.5	13.5	80	.....	.....	.....	3	0	8 k	.....	sse.	0.456	11.6	cloudy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.15	765.8	30.15	765.8	67.6	19.8	.....	e.	.....	.....	5	.....	.....	.....	.....	0	0	.....	
Gronlingen	30.22	767.6	30.28	769.0	67.3	19.6	.....	ese.	.....	.....	1	.....	.....	.....	.....	0	0	.....	
Helder	30.26	768.5	30.26	768.5	61.9	16.6	.....	e.	.....	.....	3	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	30.18	766.6	30.18	766.6	66.9	19.4	56	ene.	.....	.....	3	.....	.....	.....	.....	0	0	.....	
Utrecht	30.17	766.4	30.22	767.6	68.2	20.1	40	se.	.....	.....	4	.....	2	.....	.....	0	0	lightly cl'dy	H. van der Brink.
NORWEGIAN.																			
Bergen	30.22	767.5	30.28	769.1	56.1	13.4	58	w.	7	3	.....	.....	4	.....	.....	0	0	.....	
Brono	29.97	761.2	30.01	762.2	46.9	8.3	96	sw.	18	8	.....	.....	10	.....	.....	.....	.....	raining	
Christiania	30.03	762.8	30.17	766.4	66.9	19.4	43	sw.	4	2	.....	.....	3	.....	.....	0	0	.....	
Gjæsvær	29.93	760.2	29.95	760.8	51.4	10.8	.....	calm	.....	.....	0	.....	4	.....	.....	.....	.....	.....	
Lodingen	29.92	760.0	29.97	761.2	46.2	7.9	86	wsw.	.....	.....	4	.....	10	.....	.....	.....	.....	raining	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	63.0	17.2	68	nnw.	10.5	4.7	.....	.....	4	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	29.01	736.9	29.99	761.7	69.1	20.6	41	s.	3.8	1.7	.....	.....	9	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Maderia	29.88?	759.0?	29.97?	761.2?	66.9	19.4	88	wsw.	8.7	3.9	.....	.....	7	.....	.....	0.969	24.6	raining	Capt. D. A. de Cunha.
Lisbon, Observatory	29.65	753.0	30.00	762.0	65.1	18.4	64	ssw.	20.6	9.2	.....	.....	8	ssw.	.....	0.028	0.7	.....	The Staff.
Ponta Delgada, Azores	29.99	761.8	30.06	763.6	63.7	17.6	62	n.	11.2	5.0	.....	.....	4	.....	.....	0	0	.....	
Saint Paul de Loando	29.78	756.3	29.98	761.4	74.7	23.7	81	sw.	0.7	0.3	.....	.....	0	.....	.....	c	0	.....	
Serra da Estrella	25.24	641.1	29.98	761.6	46.0	7.8	83	sse.	17.4	7.8	.....	.....	9	.....	.....	0.047	1.2	.....	
RUSSIAN.																			
Akmolinski	28.78	731.0	29.81	757.2	69.8	21.0	44	sse.	9	4	.....	3 cs	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	30.08	764.0	30.10	764.5	40.8	4.9	73	wnw.	13	6	.....	0	8 ks	.....	.....	0	0	.....	Capt. Sseliwerstow.
Astrakhan	29.83	757.7	29.75	755.6	84.0	28.9	42	sw.	13	6	.....	0	4 k	.....	.....	blank	blank	.....	Capt. Wisganow.
Barnaul	29.63	752.6	30.13	765.2	58.8	14.9	43	ne.	4	2	.....	.....	2	.....	.....	0	0	light clouds	Meteorological Obs'y.
Dorpat	29.86	758.4	30.10	764.6	52.5	11.4	59	ne.	7	3	.....	0	0	.....	.....	0	0	.....	Observatory.
Ekaterinburg	28.67	728.1	29.60	751.8	60.4	15.8	86	s.	4	2	.....	.....	10	.....	.....	0.496	12.6	.....	Meteorological Obs'y.
Kasan	29.32	744.6	29.57	751.0	75.2	24.0	45	calm	0	0	.....	0	8 k	.....	.....	0.657	16.7	.....	Observatory.
Kertch	29.73	755.1	29.75	755.6	69.6	20.9	74	w.	11	5	.....	0	8 ks	.....	.....	0	0	.....	Lagorio & Sastyrez.
Kieff	29.19	741.3	29.81	757.2	57.4	14.1	67	nnw.	4	2	.....	.....	10ks;n	.....	.....	0.335	8.5	.....	Observatory.
Lugan	29.44	747.8	29.64	752.9	65.7	18.7	77	nnw.	13	6	.....	.....	8	.....	.....	0.768	19.5	.....	Meteorological Obs'y
Moscow	29.19	741.5	29.67	753.6	48.0	8.9	76	n.	7.8	3.5	.....	.....	10 s	.....	.....	.....	.....	..	Meteorological Obs'y.
Nikolaiev	29.80	756.8	29.87	758.6	73.0	22.8	45	n.	9	4	.....	0	8 kn	.....	.....	0.374	9.5	.....	Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.84	757.8	29.92	760.0	49.8	9.9	59	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Lieut. Iwanow.
Pekin, China	29.52	749.8	29.66	753.4	70.0	21.1	85	calm	0	0	.....	0	4 k	.....	.....	0.122	3.1	.....	Physical Observatory
St. Petersburg	30.06	763.6	30.08	764.0	47.3	8.5	43	nne.	9	4	.....	0	1 k	.....	.....	0	0	.....	Central Physical Obs'y.
Semipalatinsk	29.40	746.7	30.04	762.9	68.0	20.0	18	n.	9	4	.....	0	0	.....	.....	0	0	.....	Major Lasarew.
Tashkend, Laboratory	28.27	718.0	29.77	756.1	75.4	24.1	51	wnw.	13	6	.....	.....	10	.....	.....	.....	.....	heavy clouds	Teich, A. M.
Tiflis	28.34	719.8	29.70	754.4	70.7	21.5	75	s.	2	1	.....	.....	10 n	.....	.....	0.016	0.4	thnd'r storm	Physical Observatory
Vladivostock	29.73	755.1	.....	.....	53.2	11.8	96	se.	22	10	.....	0	3 s	.....	.....	.....	.....	..	Astronomical Obs'y
Warsaw	29.69	754.2	30.11	764.8	60.6	15.9	38	nne.	13	6	.....	.....	10 ks	.....	.....	.....	.....	..	Berg, Assistant.
Wilna	29.65	753.0	30.07	763.7	54.7	12.6	42	nne.	7	3	.....	.....	9	.....	.....	0	0	.....	
SPANISH.																			
Barcelona, Met. Obs'y	29.85	758.2	29.95	760.8	72.9	22.7	75	se.	2.2	1.0	.....	6 c	0	.....	.....	0	0	hazy	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.90	759.4	29.96	760.9	73.0	22.8	65	n.	1.1	0.5	.....	5	3	sw.	.....	0.008	0.2	almost cov.	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.04	686.9	29.93	760.3	65.1	18.4	54	sw.	5.4	2.4	.....	.....	1	.....	.....	0.098	2.5	almost clear	Domingo Martin.
Madrid, Royal Obs'y	27.78	705.7	29.95	760.6	70.5	21.4	37	sw.	12.5	5.6	.....	2	0	ssw.	.....	0	0	light clouds	The Staff.
Murcia, Met. Obs'y	29.77	756.1	29.96	760.9	86.9	30.5	49	sse.	4.3	1.9	.....	2	6	ene.	.....	0	0	hazy	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.01	736.9	29.90	759.4	61.0	16.1	80	sw.	10.5	4.7	.....	.....	8	.....	.....	0.220	5.6	almost cov'd	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	29.99	761.6	30.05	763.3	81.4	27.4	80	se.	1.1	0.5	.....	4 c;cs	0	n.	.....	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.78	756.4	29.84	757.9	82.5	28.1	78	se.	4.4	2.0	.....	.....	9 kn	.....	ese.	0.177	4.5	threatening.	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.97	761.2	30.07	763.6	69.8	21.0	58	w.	4.0	1.8	.....	0	3	.....	w.	0	0	...	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.00	762.1	30.10	764.4	82.0	27.8	86	e.	15.9	7.1	.....	6 s	6 kn	se.	se.	0.118	3.0	cloudy	Manuel Maese.
Tuguegarao, Philippine Id's	29.70	754.4	29.83	757.7	78.1	25.6	88	ene.	6.0	2.7	.....	.....	10 kn	.....	ese.	0.22	5.6	covered	José L. Yrastorza.
SWEDISH																			
Haparanda	29.91	759.6	29.95	760.6	54.7	12.6	46	s.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Umea	30.08	764.1	30.13	765.4	55.6	13.1	40	sw.	.....	.....	4	.....	2	.....	.....	0	0	.....	
Hernosand	30.08	764.1	30.13	765.4	58.3	14.6	78	s.	.....	.....	2	.....	6	.....	.....	0	0	.....	
Stockholm	30.02	762.4	30.19	766.9	60.8	16.0	50	w.	.....	.....	4	.....	6	.....	.....	0	0	.....	
Wisby	30.13	765.4	30.19	766.9	52.9	11.6	64	n.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Sub-series.																			
Upsala	30.09	764.2	30.17	766.4	58.1	14.5	81	ne.	4.7	2.1	.....	.....	7	.....	wnw.	0.047	1.2	raining	S. G. Fineman.
SWISS.																			
Geneva	28.68	728.5	30.07	763.8	66.6	19.2	65	nnw.	.....	.....	3	.....	.....	.....	.....	0	0	.....	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
SCOTTISH.																			
Monach Lt	.....	.....	30.17	766.3	58	14.4	93	e.	.....	.....	3	0	0	.....	.....	0	0	.....	J. Youngclause.
TURKISH.																			
Constantinople	.....	.....	29.99	761.7	64.8	18.2	77	n.	5.6	2.5	.....	.....	10	.....	nw.	0.354	9.0	.....	The Observatory.
Valona	.....	.....	30.16	766.1	79.0	26.1	.....	w.	.....	.....	1	.....	2	.....	.....	0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.95	760.6	75.2	24.0	66	w.	.....	.....	2	0	0	.....	.....	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.85	758.2	29.93	760.2	62	16.7	50	calm	0	0	.....	0	0	.....	.....	0.38	9.7	clear	J. O. Barnes.
Alpena, Michigan	29.16	740.7	29.81	757.2	47	8.3	63	nw.	5	2.2	.....	4 k	0	w.	.....	0.02	0.5	fair	Jas. J. Fitzgerald.
Atlanta, Georgia	28.84	732.5	29.99	761.7	64.0	17.8	73	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	H. Hall.
Atlantic City, New Jersey	29.97	761.2	29.98	761.5	58.7	14.8	58	n.	3	1.3	.....	2 c	0	.....	.....	0.74	18.8	clear	Jas. M. Watson.
Augusta, Georgia	29.82	757.4	30.01	762.2	68	20.0	90	nw.	3	1.3	.....	0	1 s	.....	.....	1.38	35.1	clear	John Healy.
Baltimore, Maryland	30.00	762.0	30.05	763.3	61	16.1	50	n.	2	0.9	.....	0	hz.	.....	.....	0.12	3.0	clear	Robert Seyboth.
Barnegat, New Jersey	29.97	761.2	29.99	761.7	57.8	14.3	60	nw.	9	4.0	.....	2 cs	0	w.	.....	0.35	8.9	clear	Chas. F. Merritt.
Behring Island, Behring Sea	29.81	757.2	29.83	757.7	37.5	3.1	.....	e.	1	0.4	.....	.....	10 ks	.....	.....	0	0	cloudy	Dr. L. Steineger.
Bismarck, Dakota	28.20	716.3	29.95	760.7	45	7.2	71	n.	8	3.6	.....	0	0	.....	.....	inap.	inap.	clear	Cyrus Cramer.
Boise City, Idaho	27.21	691.1	29.99	761.7	58	14.4	55	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	B. E. Light.
Boston, Massachusetts	29.71	754.6	29.86	758.4	55.0	12.8	62	w.	8	3.6	.....	2 c	0	w.	.....	0.06	1.5	clear	O. B. Cole.
Brownsville, Texas	29.90	759.4	29.94	760.5	73.2	22.9	90	calm	0	0	.....	0	0	.....	.....	0	0	clear	M. McCarty.
Buffalo, New York	29.14	740.1	29.88	758.9	52.3	11.3	65	s.	12	5.4	.....	0	9ks;s	.....	sw.	0	0	cloudy	Wm. Finn.
Burlington, Vermont	29.53	750.0	29.82	757.4	54.0	12.2	48	sw.	5	2.2	.....	0	0	.....	.....	0.33	8.4	clear	G. C. Schaeffer.
Cairo, Illinois	29.54	750.3	29.93	760.2	62.6	17.0	63	s.	9	4.0	.....	2 c	0	w.	.....	0	0	clear	W. H. Ray.
Campo, California	27.30	694.9	29.84	757.9	47.3	8.5	71	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.11	688.0	29.74	755.4	59	15.0	41	se.	.....	.....	1	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.00	762.0	30.02	762.5	60	15.6	75	n.	8	3.6	.....	.....	10 s	.....	.....	0.76	19.3	cloudy	A. K. Alderson.
Cape May, New Jersey	29.97	761.2	30.00	762.0	59	15.0	60	nw.	4	1.8	.....	1 k	0	s.	.....	1.05	26.7	clear	W. Bolton.
Cedar Keys, Florida	29.98	761.5	30.00	762.0	78	25.6	82	calm	0	0	.....	.....	10 s	.....	sw.	0.84	21.3	cloudy	F. W. Mixer.
Champaign, Illinois	29.02	737.1	29.81	757.2	55.0	12.8	67	sw.	16	7.2	.....	.....	10 s	.....	sw.	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	29.93	760.2	29.98	761.5	72	22.2	90	sw.	7	3.1	.....	4 c	6 s	calm	sw.	0.76	19.3	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.13	739.9	29.96	761.0	67.0	19.4	59	ne.	8	3.6	.....	0	0	.....	.....	0.07	1.8	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.21	741.9	30.02	762.5	58.0	14.4	86	nw.	1	0.4	.....	0	fg.	.....	.....	0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.02	610.1	29.76	755.9	42.5	5.8	76	nw.	12	5.4	.....	.....	10 s	.....	n.	0.23	5.8	cloudy	E. McGovern.
Chicago, Illinois	29.11	739.4	29.80	756.9	56.9	13.8	72	sw.	10	4.5	.....	.....	10 s	.....	sw.	inap.	inap.	cloudy	J. Mitchell.
Chincoteague, Virginia	29.98	761.5	30.00	762.0	59	15.9	70	ne.	2	0.9	.....	4 k	3 s	ne.	sw.	0.24	6.1	cloudy	V. P. Temple.
Cincinnati, Ohio	29.32	744.7	29.98	761.5	55	12.8	86	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	R. B. Watkins.
Cleveland, Ohio	29.20	741.7	29.93	760.2	56	13.3	53	sw.	16	7.2	.....	1 c	0	.....	.....	0	0	clear	J. B. Newlin.
Coleman City, Texas	28.06	712.7	29.80	756.9	62	16.7	90	sw.	5	2.2	.....	0	0	.....	.....	0	0	clear	L. Dorman.
Columbus, Ohio	29.11	739.4	29.95	760.7	53	11.7	80	nw.	4	1.8	.....	6 ck	0	sw.	.....	0	0	fair	D. Cuthbertson.
Concho, Texas	27.89	708.4	29.76	755.9	72	22.2	76	s.	20	8.9	.....	0	0	.....	.....	0	0	clear	W. W. McConlhe.
Davenport, Iowa	29.09	738.9	29.73	755.1	57	13.9	93	s.	6	2.7	.....	.....	10 n	.....	s.	0.13	3.3	light rain	R. R. Martin.
Dayton, Washington T'y	28.30	718.8	30.04	763.0	54.8	12.7	70	nw.	7	3.1	.....	4 c	0	.....	.....	0	0	fair	H. Clifford.
Deadwood, Dakota	25.35	643.9	29.78	756.4	43	6.1	93	n.	12	5.4	.....	.....	10 n	.....	ne.	1.04	26.4	light rain	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	68	20.0	61	s.	13	5.8	.....	0	0	.....	.....	0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	29.99	761.7	30.01	762.2	59.0	15.0	70	ne.	10	4.5	.....	2 ck	0	sw.	.....	0.15	3.8	clear	F. C. Pratz.
Denison, Texas	29.01	736.8	29.79	756.7	66.3	19.1	73	s.	10	4.5	.....	0	0	.....	.....	0	0	clear	J. McGlone.
Denver, Colorado	24.75	628.6	29.79	756.7	48.0	8.9	100	sw.	6	2.7	.....	.....	10 n	.....	calm	0.11	2.8	light rain	F. M. Neal.
Des Moines, Iowa	28.77	730.7	29.65	753.1	57	13.9	86	s.	4	1.8	.....	10 cs	0	w.	.....	0.03	0.8	cloudy	F. W. Conrad.
Detroit, Michigan	29.17	740.9	29.86	758.4	57.2	14.0	64	sw.	12	5.4	.....	0	0	.....	.....	0	0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.16	689.9	29.67	753.6	58	14.4	87	nw.	7	3.1	.....	.....	10 s	.....	w.	0	0	cloudy	E. A. Thomas.
Dubuque, Iowa	29.04	737.6	29.72	754.9	55.5	13.1	86	w.	1	0.4	.....	.....	10 s	.....	w.	0.03	0.8	threatening	J. Harvey Smith.
Duluth, Minnesota	29.18	741.2	29.87	758.7	47	8.3	68	ne.	6	2.7	.....	0	hz.	.....	.....	0.01	0.3	clear	N. B. Conger.
Eagle Pass, Texas	29.13	739.9	29.92	760.0	68.2	20.1	84	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	F. Belford.
Eagle Rock, Idaho	25.34	643.6	29.93	760.2	46	7.8	58	n.	12	5.4	.....	0	0	.....	.....	0	0	clear	J. M. Clifford.
Eastport, Maine	29.63	752.6	29.70	754.4	57	13.9	51	nw.	14	6.3	.....	0	0	.....	.....	2.32	58.9	clear	D. C. Murphy.
El Paso, Texas	20.14	663.9	29.73	755.1	66	18.9	22	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.18	741.2	29.90	759.4	56	13.3	57	sw.	10	4.5	.....	0	0	.....	.....	0	0	clear	Peter Wood.
Escanaba, Michigan	29.17	740.9	29.82	757.4	49	9.4	63	nw.	3	1.3	.....	6 k	0	nw.	.....	0	0	fair	C. Dill.
Fort Apache, Arizona	24.98	634.5	29.73	755.1	42	5.6	48	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.37	695.2	30.16	766.1	50	10.0	86	nw.	2	0.9	.....	0	5 s	.....	nw.	0.01	0.3	fair	B. O. Lenoir.
Fort Bennett, Dakota	28.40	721.3	29.94	760.5	50.0	10.0	74	n.	6	2.7	.....	4 k	6 s	n.	n.	0.38	9.7	cloudy	A. Pritchard.
Fort Benton, Montana	27.40	695.9	30.17	766.3	52	11.1	93	w.	7	3.1	.....	0	8 s	.....	w.	0.03	0.8	cloudy	G. W. Davis.
Fort Buford, Dakota	28.16	715.3	30.12	765.0	49	9.4	80	e.	3	1.3	.....	.....	10 s	.....	calm	0.32	8.1	cloudy	A. H. Bell.
Fort Custer, Montana	27.03	686.5	30.09	764.3	52	11.1	86	n.	16	7.2	.....	.....	10 s	.....	calm	0.23	5.8	cloudy	V. Verge.
Fort Davis, Texas	25.10	637.5	29.71	754.6	66	18.9	60	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Williams.
Fort Elliott, Texas	26.96	684.8	29.63	752.6	55	12.8	74	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. J. Cundall.
Fort Grant, Arizona	25.22	640.6	29.76	755.9	74.9	23.8	26	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	Robert C. Lord.
Fort Keogh, Montana	27.60	701.0	30.03	762.7	51	10.6	74	ne.	6	2.7	.....	6 c	0	n.	.....	0.08	2.0	fair	W. B. Stockman.
Fort Macon, North Carolina	29.93	760.2	29.94	760.5	67	19.4	84	ne.	23	10.3	.....	.....	10 ks	.....	sw.	0.28	7.1	cloudy	W. W. Thomas.
Fort McKavett, Texas	27.78	705.6	29.98	761.5	62	16.7	78	s.	16	7.2	.....	0	0	.....	.....	0	0	clear	J. E. Thatcher.
Fort Missoula, Montana	26.88	682.7	30.14	765.5	60	15.6	78	se.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Fort St. Michaels, Alaska	29.49	749.0	29.52	749.8	37	2.8	90	w.	6	2.7	.....	.....	10 ks	.....	nw.	0	0	cloudy	A. P. Leavitt.
Fort Shaw, Montana	26.59	675.4	30.16	766.1	46	7.8	93	w.	5	2.2	.....	0	0	.....	.....	0.23	5.8	clear	A. L. Mathews.
Fort Sill, Indian Territory	28.50	723.9	29.70	754.4	63.5	17.5	85	s.	9	4.0	.....	0	0	.....	.....	0	0	clear	T. Cleary.
Fort Smith, Arkansas	29.37	746.0	29.83	757.7	63.0	17.2	73	se.	6	2.7	.....	4 cs	0	.....	.....	0	0	fair	J. B. Campbell.
Fort Stevenson, Dakota	28.21	716.5	30.01	762.2	44	6.7	76	n.	10	4.5	.....	0	0	.....	.....	0.02	0.5	clear	W. Burrows
Fort Verde, Arizona	.....	.....	.....	.....	64.2	17.9	38	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.55	623.6	29.93	760.2	43.1	6.2	93	sw.	1	0.4	.....	1 k	3 k	.....	.....	0.23	5.8	fair	T. M. Ambler.
Fredericksburg, Texas	28.15	715.0	29.83	757.7	64	17.8	84	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	H. S. Miles.
Galveston, Texas	29.90	759.4	29.95	760.7	73	22.8	76	w.	8	3.6	.....	5 ck	hz.	s.	.....	0	0	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.16	740.7	29.81	757.2	53.0	11.7	76	s.	11	4.9	.....	.....	10 n	.....	sw.	0.05	1.3	light rain	W. A. Reid.
Hatteras, North Carolina	29.96	761.0	29.98	761.5	65	18.3	73	ne.	26	11.6	.....	6 cs	3 s	ne.	.....	0.01	0.3	cloudy	R. M. Crawford.
Helena, Montana	26.01	660.6	30.13	765.3	51	10.6	74	w.	5	2.2	.....	9 k	0	w.	.....	0.02	0.5	cloudy	S. Wheaton.
Henrietta, Texas	28.78	731.0	29.76	755.9	68.5	20.3	78	s.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. W. Byram.
Huron, Dakota	28.44	722.4	29.78	756.4	50.9	10.5	77	n.	9	4.0	.....	.....	9 s	.....	n.	0.03	0.8	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.11	739.4	29.89	759.2	60	15.6	60	s.	5	2.2	.....	5 ck	1 s	w.	sw.	0	0	fair	O. Schutze
Indianola, Texas	29.92	760.0	29.95	760.7	73.2	22.9	82	s.	11	4.9	.....	0	0	.....	.....	0	0	clear	I. A. Reed.
Jacksboro, Texas	28.61	726.7	29.73	755.1	69	20.6	70	sw.	10	4.5	.....	0	0	.....	.....	0	0	clear	J. P. Sherry.
Jacksonville, Florida	29.97	761.2	30.01	762.2	77	25.0	82	calm	0	0	.....	.....	10 s	.....	s.	0.15	3.8	cloudy	J. W. Smith.
Keokuk, Iowa	29.07	738.4	29.71	754.6	61.0	16.1	84	s.	4	1.8	.....	10 k	0	w.	.....	0.21	5.3	cloudy	F. Z. Gosewisch.
Key West, Florida	30.01	762.2	30.03	762.7	84.0	28.9	73	se.	9	4.0	.....	2 cs	4 k	.....	se.	0	0	fair	R. H. Paxton.
Kittyhawk, North Carolina	30.00	762.0	30.02	762.5	59	15.0	81	ne.	19	8.5	.....	0	8 s	.....	ne.	1.15	29.2	cloudy	E. A. Beals.
Knoxville, Tennessee	29.00	736.6	30.00	762.0	56.2	13.4	81	ne.	4	1.8	.....	0	0	.....	.....	0.06	1.5	clear	J. A. Cody.
La Crosse, Wisconsin	28.97	735.8	29.73	755.1	57	13.9	69	s.	1	0.4	.....	.....	10 s	.....	.....	0.11	2.8	cloudy	S. C. Emery.
La Mesilla, New Mexico	26.00	660.4	29.72	754.9	53.5	11.9	63	calm	0	0	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Leavenworth, Kansas	28.77	730.7	29.64	752.8	62	16.7	84	s.	8	3.6	.....	.....	10 s	.....	sw.	inap.	inap.	cloudy	A. W. Browne.
Lewiston, Idaho	29.24	742.7	30.06	763.5	55.4	13.0	62	calm	0	0	.....	0	2 s	.....	.....	0	0	clear	W. Bell.
Little Rock, Arkansas	29.58	751.3	29.89	759.2	58	14.4	86	s.	1	0.4	.....	0	2 s	.....	.....	0	0	clear	W. U. Simmons.
Los Angeles, California	29.55	750.6	29.94	760.5	58.2	14.6	80	sw.	2	0.9	.....	.....	10 s	.....	calm	0	0	cloudy	E. F. Kubel.
Louisville, Kentucky	29.38	746.2	29.93	760.2	58	14.4	74	se.	5	2.2	.....	6 cs	sk.	.....	.....	0	0	fair	H. C. Smyth.
Lynchburg, Virginia	29.35	745.5	30.02	762.5	66.0	18.9	54	ne.	1	0.4	.....	0	0	.....	.....	0.01	0.3	clear	W. R. Bushby.
Madison, Wisconsin	28.77	730.7	29.76	755.9	54	12.2	93	s.	3	1.3	.....	.....	10 n	.....	.....	0.03	0.8	light rain	C. A. Shaw.
Marquette, Michigan	29.12	739.6	29.84	757.9	47	8.3	63	n.	8	3.6	.....	6 c	0	w.	.....	0	0	fair	J. Gilligan.
Memphis, Tennessee	29.61	752.1	29.94	760.5	65	18.3	68	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.03	737.3	29.77	756.1	55	12.8	86	w.	3	1.3	.....	.....	10 ks	.....	sw.	0.06	1.5	cloudy	W. Line.

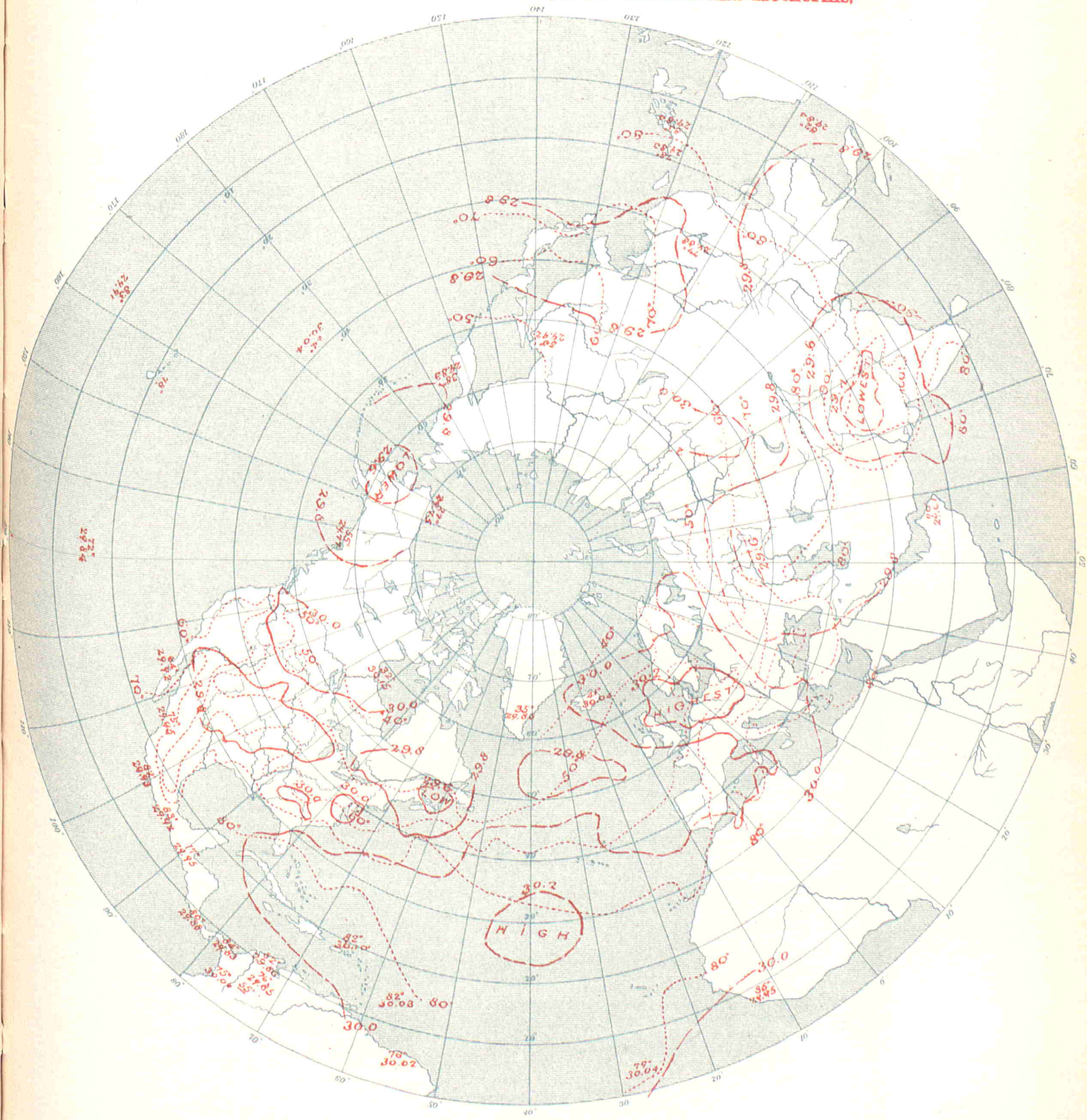
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Mobile, Alabama	29.93	760.2	29.97	761.2	68.5	20.3	84	n.	4	1.8		0	0			0	0	clear	J. D. Paxton.
Montgomery, Alabama	29.76	755.9	29.99	761.7	66.0	18.9	84	nw.	1	0.4		1 ck	0	w.		0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	28.92	734.6	29.89	759.2	45.2	7.3	76	n.	8	3.6		4 k	0	n.		0	0	fair	H. Bessant.
Morgantown, W. Virginia	29.01	736.8	30.01	762.2	52.0	11.1	86	calm	0	0		0	0			inap.	inap.	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.44	595.4	29.56	750.8	23.0	— 5.0	90	nw.	66	29.6			fg.		nw.	2.08	52.8	dense fog	J. G. Linsley
Nashville, Tennessee	29.44	747.8	29.96	761.0	58.0	14.4	74	nw.	1	0.4		0	fg.			0	0	clear	L. A. Jesunofsky.
New Haven, Connecticut	29.82	757.4	29.94	760.5	54	12.2	61	nw.	4	1.8		0	hz.			0.27	6.9	clear	J. H. Sherman.
New London, Connecticut	29.90	759.4	29.95	760.7	54	12.2	74	w.	4	1.8		2 c	0	sw.		0.70	17.8	clear	J. G. Lynch.
New Orleans, Louisiana	29.91	759.7	29.96	761.0	71.6	22.0	72	e.	6	2.7		0	sk.			0	0	clear	L. Dunne.
Newport, Rhode Island	29.86	758.4	29.91	759.7	57.0	13.9	55	w.	5	2.2		2 c	0	w.		0.72	18.3	clear	W. McGillivray.
New River, N. Carolina																			C. C. Corbin.
New Shoreham, Rhode I'd.	29.91	759.7	29.94	760.5	54.0	12.2	66	nw.	9	4.0		5 c	0	sw.		0.85	21.6	fair	W. Davis.
New York, New York	29.81	757.2	29.98	761.5	54.5	12.5	71	w.	2	0.9		0	0			0.09	2.3	clear	J. B. Merrill.
Norfolk, Virginia	29.99	761.7	30.02	762.5	61	16.1	72	ne.	10	4.5		0	9 s			0.09	2.3	cloudy	J. T. Elker.
North Platte, Nebraska	26.89	683.0	29.69	754.1	54.6	12.6	73	nw.	16	7.2			10 s			0.21	5.3	cloudy	E. F. Brady.
Olympia, Washington T'y	29.96	761.0	30.00	762.0	54.0	12.2	80	calm	0	0		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	28.48	723.4	29.62	752.3	59.8	15.4	93	calm	0	0			10ks;fg.		n.	inap.	inap.	threatening	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	29.73	755.1	29.75	755.6	27.0	— 2.8		nne.	22	9.8			fg.			0	0	dense fog	P. H. Ray.
Oswego, New York	29.54	750.3	29.86	758.4	53.0	11.7	66	sw.	7	3.1		2 c	0	w.		0	0	clear	S. W. Beall.
Palestine, Texas	29.30	745.7	29.90	759.4	66.5	19.2	68	s.	12	5.4		0	0			0	0	clear	L. M. Pindell.
Pensacola, Florida	29.94	760.5	29.96	761.0	72.3	22.4	76	n.	8	3.6		0	3 k		w.	0	0	clear	M. McGauran.
Philadelphia, Pa.	29.92	760.0	30.02	762.5	60	15.6	50	nw.	4	1.8		0	hz.			0.30	7.6	clear	T. F. Townsend.
Pike's Peak, Colorado	17.73	450.3	29.55	750.6	23.5	— 4.7	100	nw.	18	8.0			fg.			0.01	0.3	dense fog	L. M. Dey.
Pioche, Nevada	24.04	610.6	29.84	757.9	61.4	16.3	32	nw.	5	2.2		10 c	0	n.		0	0	cloudy	C. N. Kitchel.
Pittsburg, Pennsylvania	29.17	740.9	29.96	761.0	50.0	10.0	86	calm	0	0		0	fg.			0	0	clear	J. H. Bryce.
Poplar River, Montana	28.02	711.7						nw.			1		10 n		calm	0.24	6.1	light rain	U. D. Maxwell.
Port Eads, Louisiana	29.97	761.2	29.98	761.5	73.0	22.8	87	calm	0	0		0	0			0	0	clear	H. G. Christian.
Philadelphia, Pa.	29.16	740.7	29.83	757.7	54.8	12.7	71	sw.	9	4.0			10 s		sw.	0	0	cloudy	W. O. Bailey.
Port Huron, Michigan	29.74	755.4	29.79	756.7	56.0	13.3	51	nw.	8	3.6		0	0			0.23	5.8	clear	W. W. Eichelberger.
Portland, Maine	29.84	757.9	29.91	759.7	64.0	17.8	78	nw	3	1.3		0	0			0	0	clear	M. L. Hearne.
Portland, Oregon					67	19.4	78	ne.	28	12.5		10 k	0	ne.		0.10	2.5	cloudy	F. P. Chaffee.
Portsmouth, N. Carolina					62	16.7	33	s.	7	3.1		0	0			0	0	clear	J. McN. Wright.
Prescott, Arizona	24.75	628.6	29.77	756.1	53	11.7	66	nw.	11	4.9		4 cs	0	nw.		0.75	19.0	fair	P. T. Jenkins.
Provincetown, Mass.	29.83	757.7	29.86	758.4	82	27.8	81	se.	7	3.1		2 c	2 k	s.	s.	0	0	fair	W. J. Evans.
Punta Rassa, Florida	30.00	762.0	30.01	762.2	69.6	20.9	52	nw.	5	2.2		0	0			0	0	clear	J. M. Frantz.
Red Bluff, California	29.49	749.0	29.85	758.2	73	22.8	76	se.	1	0.4		0	0			0	0	clear	P. M. Wilson.
Rio Grande City, Texas	29.76	755.9	29.99	761.7	51	10.6	72	sw.	10	4.5		3 c	hz.			0	0	clear	E. W. McGann
Rochester, New York	29.21	741.9	29.86	758.4	55	12.8	83	calm	0	0		0	0			0	0	clear	J. J. Nanry.
Roseburg, Oregon	29.37	746.0	29.92	760.0	65.0	18.3	58	se.	6	2.7		0	0			0	0	clear	J. A. Barwick.
Sacramento, California	29.77	756.1	29.84	757.9	56.2	13.4	100	se.	14	6.3		1 c	9 s		sw.	0.31	7.9	cloudy	J. H. Webber.
St. Louis, Missouri	29.23	742.4	29.82	757.4	51.0	10.6	52	n.	9	4.0		9 cs	0	n.		0	0	cloudy	P. F. Lyons
St. Paul, Minnesota	28.91	734.3	29.76	755.9	45	7.2	76	n.	11	4.9		0	2 ks		calm	0	0	clear	G. Kingsbury.
St. Vincent, Minnesota	29.12	739.6	29.97	761.2	60	15.6	41	nw.	2	0.9		6 c	0			0	0	fair	J. Craig.
Salt Lake City, Utah	25.60	650.2	29.82	757.4	64	17.8	93	calm	0	0		0	0			0	0	clear	E. Lane.
San Antonio, Texas	29.22	742.2	29.90	759.4	61.0	16.1	87	w.	2	0.9			fg.			0	0	dense fog	A. C. Dobbins.
San Diego, California	29.82	757.4	29.89	759.2	56.3	13.5	69	sw.	12	5.4		0	0			0	0	clear	M. H. Perry.
Sandusky, Ohio	29.22	742.2	29.89	759.2	57.0	13.9	74	nw.	7	3.1		1 k	0	nw.		0.16	4.1	clear	B. A. Blundon.
Sandy Hook, New Jersey	29.95	760.7	29.99	761.7	50	10.0	96	sw.	7	3.1			fg.			0	0	dense fog	N. Gorom.
San Francisco, California	29.86	758.4	29.93	760.2	50	10.0	33	e.	7	3.1		5 c	0	w.		0	0	fair	H. U. Jones.
Santa Fé, New Mexico	23.14	587.7	29.65	753.1	73.4	23.0	84	w.	6	2.7		8 ck	2 ks	w.	w.	0.32	8.1	cloudy	H. W. Ford.
Savannah, Georgia	29.90	759.4	29.99	761.7	62	16.7	78	w.	5	2.2		0	hz.			0	0	clear	E. N. Meekins.
Shreveport, Louisiana	29.68	753.9	29.91	759.7	54	12.2	48	nw.	10	4.5		0	0			0	0	clear	J. B. Wallace.
Silver City, New Mexico	24.20	614.7	29.70	754.4	54.5	12.5	68	e.	13	5.8		4 k	1 s	e.	calm	0.49	12.4	fair	J. J. McLean.
Sitka, Alaska	29.71	754.6	29.77	756.1	73	22.8	90	nw.	7	3.1		4 cs	5 s		n.	0.17	4.3	cloudy	O. Parker.
Smithville, North Carolina	29.91	759.7	29.95	760.7	45	7.2	76	e.	2	0.9		0	0			0	0	clear	D. Moore.
Spokane Falls, Wash. Ter.	28.07	713.0	30.11	764.8	56	13.3	86	s.	12	5.4			10 n		sw.	0.09	2.3	light rain	T. B. Jennings.
Springfield, Illinois	29.12	739.6	29.79	756.7	60.3	15.7	54	sw.	6	2.7		0	0			0.18	4.6	clear	T. S. Outram.
Springfield, Massachusetts	29.79	756.7	29.92	760.0	60	15.6	90	s.	12	5.4			10 ks		sw.	0.04	1.0	cloudy	J. B. Marbury.
Springfield, Mo.	28.37	720.6	29.83	757.7	62	16.7	84	se.	3	1.3		0	0			0	0	clear	M. J. Wright.
Starkville, Miss.	29.53	750.0	30.00	762.0	67.3	19.6	61	sw.	8	3.6		0	0			0	0	clear	J. O'Dowd.
Stockton, Texas	26.83	681.5	29.75	755.6	57.0	13.9	57	w.	15	6.7		0	0			0.27	6.9	clear	G. Liebmann.
Thatcher's Island, Mass.	29.82	757.4	29.86	758.4	59	15.0	54	sw.	10	4.5		2 cs	0	w.		0	0	clear	A. Buell.
Toledo, Ohio	29.19	741.4	29.87	758.7	68	20.0	36	se.	3	1.3		0	0			0	0	clear	J. L. Whiteside.
Tucson, Arizona	27.46	697.5	29.76	755.9	59	15.0	70	calm	0	0		6 c	0			0	0	fair	J. Daly.
Umatilla, Oregon	29.66	753.4	30.02	762.5	67	19.4	84	sw.	2	0.9		0	0			0	0	clear	E. C. Bulay.
Uvalde, Texas	28.95	735.3	29.89	759.2	61	16.1	84	se.	4	1.8		0	0			0	0	clear	H. P. Brisbane.
Vicksburg, Mississippi	29.71	754.6	29.96	761.0	66	18.9	63	nw.	2	0.9		0	0			0	0	clear	W. L. Seward.
Visalia, California	29.48	748.8	29.85	758.2	58.4	14.7	62	nw.	3	1.3		0	0			0.35	8.9	clear	B. M. Purssell.
Washington, D. C.	29.92	760.0	30.03	762.7	55	12.8	69	n.	20	8.9			10 s		nw.	0	0	cloudy	F. W. Brandenburg.
West Las Animas, Colorado	25.96	659.4	29.74	755.4	50	10.0	71	w.	4	1.8		0	hz.			inap.	inap.	clear	B. F. Hough.
Williamsport, Pa.	29.38	746.2	29.98	761.5	72	22.2	84	ne.	6	2.7		0	8 s		n.	0.50	12.7	cloudy	A. T. Sherwood.
Wilmington, N. Carolina	29.90	759.4	29.96	761.0	60	15.6	28	ne.	10	4.5		0	0			0	0	clear	J. R. Williams.
Winnemucca, Nevada	25.65	651.5	29.91	759.7	53	11.7	93	ne.	11	4.9			10 n		ne.	0.10	2.5	light rain	J. H. Atfield.
Yankton, Dakota	28.45	722.6	29.73	755.1	71.0	21.7	64	calm	0	0		0	0			0	0	clear	O. D. Stewart.
Yuma, Arizona	29.58	751.3	29.72	754.9															
Sub-series.																			
Bogota, U. S. Columbia	22.05	560.1			55.0	12.8	83	calm	0	0			10 s		w.	0.50	12.7	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.02	762.5	30.03	762.7	82	27.8	91	ne.				5 c	5 ks	e.		1.45	36.8	fair	J. A. Racker.
Buenaventura, U. S. C.	30.03	762.7	30.06	763.5	75	23.9	100	calm	0	0			10 n			4.90	124.5	raining	J. I. Plume.
Havana, Cuba, W. I.	30.02	762.5	30.07	763.8	83	28.3	80	calm	0	0		5 c	0			0	0	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.01	762.2	30.02	762.5	82.5	28.1	64	nne.	1	0.4	0	3 cs	0			0	0		Robert Johnston.
Magua, San Domingo, W. I.					74	23.3		calm				0	0			0	0		S. M. Pike.
Paramaribo, S. A.	30.02	762.5	30.02	762.5	76	24.4	91	e.			2		10 n	e.		0.230	5.8	rainy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.39	746.5	29.85	758.2	76	24.4	89	calm			0		9 s		calm	inap.	inap.	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							93	e.			1		9 ks		e.	0	0	cloudy	Earl Flint.
Santiago de Cuba, W. I.	30.01	762.2	30.03	762.7	79	26.1	82	calm	0	0		3 c	0			0	0	fair	Robert Mason.
York Factory, B. A.	30.10	764.5	30.15	765.8	32.0	0.0	94	ne.	11	4.9		3 k	1 s	n.	ne.	0	0	fair	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Alert, S. 27° 02′, E. 35° 45′	29.96	761.0	75.8	24.3	72	nnw.			4		0							misty.
H. M. S. Alexandra, Suda Bay, Turkey in Europe	29.98	761.5	80	26.7	58	nw.			3		1							misty.
H. M. S. Amethyst, S. 11° 17′ W. 31° 51′	29.97	761.2	76.5	24.7	97	se.			5-6		7	ese.				2	ese.	showery.
H. M. S. Bacchante, N. 35° 55′, E. 22° 23			80	26.7	78	wnw.			1		2	wnw.						misty.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.14	765.5	62	16.7		w.			2-5		4	w.						hy. showers
H. M. S. Champion, Honolulu, Sandwich Islands			78	25.6		calm			0		7	calm						d. clouds.
H. M. S. Cruiser, N. 36° 12′, E. 23° 05	29.97	761.2	75	23.9		sw.			1		1	wsw.				1	wsw.	blue sky.
H. M. S. Diamond, S. 24° 24′, E. 165° 10′	29.92	760.0	74	23.3	95	nne.			2-3		9					1	nne.	d. clouds.
H. M. S. Dido, N. 11° 10′, W. 60° 42′	30.03	762.7	80	26.7		e.			5		5	ne.				3	ne.	d. clouds.
H. M. Dock Yard, Bermuda, W. I.	30.12	765.0	73	22.8	76	ssw.			1-2		4	ssw.						d. clouds.
H. M. S. Druid, N. 18° 25′, W. 77° 09′	30.02	762.5	81	27.2	82	ese.			1		1	ese.				2	ese.	blue sky.
H. M. S. Dwarf, S. 25° 16′, W. 57° 45′	29.74	755.4	64.5	18.1	94	s.			1-2		9					1	s.	d. clouds.
H. M. S. Eclipse, S 15° 00′, E. 40° 45′	30.05	763.3	73	22.8		s.			2-3		6							d. clouds.
H. M. S. Emerald, S. 54° 44′, W. 98° 15′	29.10	739.1	38	3.3	100	wsw.			4		3	wsw.				5	wsw.	d. clouds.
H. M. S. Euryalus, Bombay, India	29.51	749.5	79	26.1	95	se.			5-6		10	se.				2	se.	showery.
H. M. S. Espiegle, S. 28° 03′, E. 172° 18′	30.08	764.0	70	21.1	100	n.			2		10					2	w.	overcast.
H. M. S. Fawn, S. 16° 45′, E. 60° 35′	29.98	761.5	78.5	25.8	69	sse.			1		3	se.				1	ese.	d. clouds.
H. M. S. Fantome, N. 10° 21′ W. 75° 44′	29.86	758.4	82	27.8		s.			2		3	s						d. clouds.
H. M. S. Flying Fish, N. 37° 27′, E. 125° 33′	29.76	755.9	65.5	18.6	81	calm			0		7							misty.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.13	765.3	53.5	11.9	86	calm			0		1							misty.
H. M. S. Garnet, Montevideo Uruguay	30.00	762.0	51	10.6	78	sw.			3		6	sw.						d. clouds.
H. M. S. Inconstant, Saint Helena Island, Africa	30.17	766.3	70	21.1	75	ese.			2		7	ese.						showery.
H. M. S. Iron Duke, N. 33° 25′, E. 134° 38′	29.75	755.6	70	21.1	95	wsw.			3		3	w.						d. clouds.
H. M. S. Kingfisher, Off Taboga Island, Panama Bay	29.83	757.7	84	28.9		n.			1		9							
H. M. S. Lark, S. 9° 48′, E. 158° 56′	29.86	758.4	82.3	27.9		ese.			3		5					1	se.	d. clouds.
H. M. S. Magpie, N. 35° 26′, E. 139° 33′	29.74	755.4	69.3	20.7	88	ssw.			1		5	wnw.						d. clouds.
H. M. S. Minotaur, N. 47° 56′, W. 6° 56′	29.90	759.4	60	15.6		s.			2		6	sw.				3	ne.	misty.
H. M. S. Nelson, S. 41° 17′ E. 174° 48′	29.72	754.9	55	12.8	87	calm			0		5							d. clouds.
H. M. S. Northampton, Halifax, Nova Scotia	29.59	751.6	51	10.6	?	calm			0									foggy.
H. M. S. Orontes, N. 37° 00′, W. 35° 10′	30.17	766.3	64.5	18.1	96	ne.			1		10					3	con.	misty.
H. M. S. Rambler, Landano, Lower Guinea	29.94	760.5	76	24.4	95	s.			2		10					3	ssw.	overcast.
H. M. S. Rocket, Esquimalt, Vancouver Island	29.98	761.5	56	13.3	93	calm			0		2							d. clouds.
H. M. S. Sappho, S. 26° 07′, W. 77° 31′	30.26	768.6	60.5	15.8		sse.			5		7	se.				5	se.	squally.
H. M. S. Swiftsure, Madeira, Madeira Island, Africa	30.16	766.1	68.5	20.3	73	wsw.			3		9	wsw.				3	wsw.	raining.
H. M. S. Sylvia, S. 3° 18′, W. 26° 19′	29.99	761.7	79.5	26.4	77	ese.			3		4					3	ese.	d. clouds.
H. M. S. Tenedos, N. 47° 34′ W. 52° 41′	29.95	760.7	42.5	5.8	97	e.			1		10							raining.
H. M. S. Triumph, Coquimbo, Chili	30.08	764.0	55	12.8	87	calm			0		5	w.						misty.
H. M. S. Woodlark, N. 22° 34′, E. 59° 51′	29.51	749.5	89.5	31.9	80	calm			0		0							misty.
PORTUGUESE NAVAL.																		
Rio Lima, Porto Praya, Cape Verd Island	30.09	764.2	79.7	26.5	80	nne.			1		0					1		blue sky.
Tamega, Macao, China	29.81	757.2	81.5	27.5	85	s.			3		6							d. clouds.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	29.92	760.0	71	21.7	80	ne.	5	2.2			5		ne.	0	0			fair.
Navy Yard, Portsmouth, N. H.	29.85	758.2	54	12.2	55	nw.	9	4.0			0			0.1	3.			clear.
Naval Hospital, Yokohama, Japan	29.62	752.3	67	19.4	95	calm			0		8		w.	0.12	3.0			clearing
Adams, Mare Island, Cal	29.93	760.2	56	13.3	94	sw.			2		10							cloudy.
Alaska, Callao, Peru	29.95	760.7	60	15.6	94	calm			0		8			0	0	sm'h		fair.
Alert, Kobe, Japan*	29.64	752.8	75	23.9	36	calm			0		2		calm	0	0	sm'h		hazy.
Alliance, Hampton Roads, Va	30.02	762.5	62	16.7	77	nne.			3		10			mod.	mod.	sm'h		cloudy.
Ashuelot, Kobe, Japan	29.72	754.9	74	23.3	63	calm			0		2		calm					clear.
Brooklyn, Rio de Janeiro, Brazil	29.94	760.5	70	21.1	100	nne.	5	2.2			10		calm	0.05	1.3	sm'h		cloudy.
Colorado, New York, N. Y.	29.96	761.0	60	15.6	88	wnw.	1	0.4			2			0.04	1.0			clear.
Enterprise, Norfolk, Va*	29.98	761.5	60	15.6	88	ne.			2		10		w.					cloudy.
Essex, Montevideo, Uruguay	29.93	760.2	54	12.2	74	ssw.			4		5		sw.			mod.	sw.	fair.
Franklin, Norfolk, Va	30.04	763.0	61	16.1	71	ne.	8	3.6			10		wnw.	0.25	6.3			cloudy.
Galena, N. 37° 11′, E. 5° 40′	30.09	764.3	72	22.2	95	wnw.			3		2					sm'h		clear.
Independence, Mare Island, Cal	29.97	761.2	55	12.8	100	wsw.			3		10		wsw.	0	0			light fog.
Iroquois, San Francisco, Cal	29.92	760.0	53	11.7	86	sw.			2		10							foggy.
Kearsage, Hampton Roads, Va	30.01	762.2	61	16.1	82	nne.			4		10					sm'h		cloudy.
Lackawanna, N. 7° 16′ W. 79° 40′*	29.84	757.9	81	27.2	87	sw.			3		8		sw.			sm'h	sw.	cloudy.
Lancaster, Lisbon, Portugal*	29.95	760.7	68	20.0	79	sw.			4		8		sw.	0	0	sm'h		fair.
Marion, S. 34° 54′, W. 56° 13′	29.94	760.5	52	11.1	100	wsw.			3		5		wsw.	0	0	mod.	wsw.	cloudy.
Michigan, Erie, Pa	29.76	755.9	54	12.2	61	s.			4		07							cloudy†
Minnesota, Newport, R. I.	29.94	760.5	52	11.1	86	wnw.	4	1.8			2							clear.
Monocacy, Nagasaki, Japan	29.81	757.2	71	21.7	90	ssw.			1		8		calm					fair.
New Hampshire, Newport, R. I.	29.89	759.2	54	12.2	87	nw.			2		2					sm'h		clear.
Nipsic, N. 36° 21′ W. 1° 51′	30.01	762.2	72	22.2	67	wsw.			4		0					mod.		clear.
Onward. Callao, Peru†	30.11	764.8	60	15.6	100						10		n.			long	w.	misty.
Palos, Kobe, Japan	29.75	755.6	72	22.2	71	calm			0		5		calm					fair
Passaic, Washington, D. C.	30.06	763.5	60	15.6	88	calm			0		0							clear.
Pensacola, Callao, Peru	29.99	761.7	60	15.6	94	calm	0	0			10			0	0	sm'h		cloudy.
Powhatan, Norfolk, Va	30.00	762.0	61	16.1	82	ne.			3		10		ne.					cloudy.
Portsmouth, Portsmouth, Eng*†	30.15	765.8	62	16.7	88	e.			4		10		e.			sm'h		overcast.
Quinnebaug, N. 28° 42′ W. 15° 10′	30.11	764.8	69	20.6	70	nw.			2		2		n.			sm'h		fair.
Ranger, N. 24° 55′ W. 112° 36′*	29.92	760.0	64	17.8	83	w.			1		10		calm	0	0	sm'h		misty.
Richmond, Kobe, Japan*	29.73	755.1	73	22.8	49	calm			0		0			0	0			clear.
Saratoga, Cowes, Eng	29.91	759.7	60	15.6	71	e.			4-5		10		e.	light	light	mod.	e.	cloudy.
St. Louis, League Island, Pa	30.19	766.8	57	13.9	63	wnw.	27	12.1			2			0.03	0.8			clear.
Swatara, N. 31° 03′, E. 122° 20′*	29.71	754.6	68	20.0	90	sse.			5		10		se.			r'gh	se.	light rain.
Tennessee, Fort Monroe, Va	30.03	762.7	63	17.2	78	ne.	15	6.7			10		e.	0.29	7.4			squally.
Vandalia, Norfolk, Va*†	30.22	767.6	63	17.2	83	ne.			2		8		ne.					fair.
Wabash, Boston, Mass	29.88	758.9	57	13.9	75	nw.	4	1.8			2		n.	0.11	2.8			clear.
Wachusetts, Fort Wrangle, Alaska	29.80	756.9	52	11.1	100	e.			1		10		e.			sm'h		rainy.
Wyoming, Port Royal, S. C.	30.00	762.0	71	21.7	90	w.	6	2.7			8		sw.	0.03	0.8			cloudy.
Yantic, Hampton Roads, Va*	29.99	761.7	62	16.7	72	ne.			3		10							overcast

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 51° 25′, W. 37° 15′*	29.72	754.9	48	8.9	85	nw.			6		8		nw.	9 h'r	9 h'r	4	wnw.	misty.
S. S. Prussian, N. 39° 12′, W. 70° 00′*	29.78	756.4	58	14.4		n.			3		7?		nnw.	18 h'r	18 h'r	light	sw.	clear?
S. S. Scandinavian, N. 44° 36′, W. 43° 04′*	29.99	761.7	53	11.7		wsw.			3		8		calm	o	o	light	sw.	d. clouds.
S. S. Waldensian, N. 54° 03′, W. 17° 56′*	29.90	759.4	54	12.2		ene.			4		8		ene.	o	o	mod.	se.	hazy.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, Liverpool, Eng	30.11	764.8	67	19.4	95	ese.			6		8		se.					overcast.
S. S. Indiana, Philadelphia, Pa.†	30.09	764.3	60	15.6	88	sw.			3		2		sw.					fine.
ANCHOR LINE.																		
S. S. Devonia, N. 45° 06′, W. 45° 12′†	30.13	765.3	53	11.7		sw.			1		2		sw			sm'h		clear.
S. S. India, Suez Canal, Egypt*	29.89	759.2	83	28.3	91	ne.			2		1							clear.
S. S. Utopia, Leghorn, Italy†	30.18	766.6	83	28.3	60	sw.			2		6		wsw.	o	o			fair.
ATLAS LINE.																		
S. S. Ailsa, N. 25° 08′, W. 74° 11′†	30.12	765.0	80	26.7	82	ese.			3		2		s.	o	o	mod.	se.	fair.
S. S. Alvena, Port Royal, Jamaica, W. I.†	29.86	758.4	83	28.3	79	calm			0		0			o	o			fine.
S. S. Alvo, N. 11° 00′, W. 75° 02′	29.97	761.2	107?	41.7?		nne.			2		6		ssw.	o	o			cloudy.
S. S. Antillas, Gonaives, Hayti, W. I						ne.			2					o	o	sm'h	ne.	fine.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 42° 04′, E. 31° 00′	29.40	746.7	48.1	8.9	77	wsw.			7		9							misty.
British Merchant, S. 4° 52′ W 17° 02′	30.01	762.2	79	26.1	70	ese.			4		2							blue sky.
Bk. Commewyne, N. 16° 03′, W. 39° 50′	30.10	764.5	77.5	25.3	78	ene.			4		10							d. clouds.
Glencairn, S. 29° 48′, E. 15° 59′	30.20	767.1	60	15.6	97	nnw.			3		9							d. clouds.
Bkt. Hope, N. 43° 28′, W. 25° 12′	29.94	760.5	58	14.4	88	n.			6		7							misty.
May Hulse, S. 45° 42′, W. 83° 20′	29.84	757.9	47	8.3	92	w.			7		7							raining.
S. S. Pole Star, S. 45° 34′, W. 47° 14′	29.66	753.4	45	7.2	85	ssw.			6		6							blue sky.
CROMWELL LINE.																		
S. S. Hudson, N. 25° 25′, W. 84° 43′†	30.05	763.3	80	26.7		ene.			1		1		se.	o	o	mod.	s.	fair.
CUNARD LINE.																		
S. S. Bothnia, N. 41° 05′, W 62° 07′	29.74	755.4	70	21 1	95	s.			5-6		10			20 h'r	20 h'r	mod.	sw.	raining.
S. S. Gallia, N. 42° 54′, W. 47° 53′	30.12	765.0	62	16.7	83	calm			0		8		w.	o	o	sm'h		fine.
S. S. Scythia, N. 50° 49′, W. 15° 03′	29.82	757.4	58	14.4	97	n.			2		10			1 h'r	1 h'r	short	e.	overcast.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. France, N. 44° 05′, W. 43° 50′†	30.07	763.7	60.8	16.0		wnw.			2	ck		w.		o	o	sm'h		clear.
S. S. Ville de Marseilles, N. 40° 30′, W. 71° 35′*†	29.85	758.2	54	12.2		w.			3		3		w.	o	o	long	s.	clear.
GUION LINE.																		
S. S. Arizona, N. 42° 36′ W. 52° 06′	30.06	763.5	47	8.3		calm			0		8		w.	o	o	sm'h		foggy.
S. S. Wisconsin, N. 51° 30′, W. 9° 15′*†	29.94	760.5	53	11.7		e.			6		10		ese.	o	o	r'gh	ese.	cloudy.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Herder, N. 40° 16′, W. 69° 50′*†	29.98	761.5	60	15.6		nne.			2		2		ne.	o	o	mod.	ssw.	fair.
S. S. Lessing, N. 48° 22′, W. 25° 38′	29.96	760.9	56	13.3		nne.			3		10		nne.	o	o	mod.	nne.	cloudy.
INMAN LINE.																		
S. S. City of Berlin, Off Cork, Ireland	29.93	760.2				ese.			8		10		e.	hv'y	hv'y	mod.	se.	misty.
S. S. City of New York, N. 49° 20′, W. 28° 96′	30.03	762.7				sse.			4		8		s.	o	o	long	sse.	cloudy.
JOHNSTON LINE.																		
S. S. Thanemore, N. 43° 26′, W. 42° 27′	30.12	765.0				calm			0		0			o	o	sm'h		clear.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, N. 31° 00′, W. 17° 00′*†	30.24	768.1	72	22.2		ssw			4		5?		sw.	o	o	sm'h		clear?
MALLORY LINE.																		
S. S. Colorado, N. 27° 14′, W. 86° 51′†	29.91	759.7	78	25.6		ese.			5		8		se.	shr's	shr's	h'vy	se.	hazy.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 30° 26′, W. 68° 44′†	30.21	767.3	79	26.1	95	ne.			2		0			o	o	sm'h		clear.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, N. 18° 18′, W. 55° 06′	29.69	754.1				e.			6				e.	o	o	r'gh		clear.
S. S. Glenapp, Santos, Brazil*†	30.00	762.0				var.			2		4		ese.	o	o			fine.
NATIONAL LINE.																		
S. S. Canada, N. 46° 32′, W. 27° 11′†	30.01	762.2	59	15.0		nnw.			1		6		n.	o	o	high	ne.	fine.
S. S. Denmark, New York, N. Y.	29.97	761.2	56	13.3		w.			3		0			1½h'r	1½h'r			clear.
S. S. England, N 40° 42′, W. 54°, 33′	29.97	761.2				sw.			4		5		sw.	o	o	slight	w.	fine.
S. S. Holland, N. 40° 28′, W. 71° 05′	29.95	760.7	54	12.2		n.			2		2		sw.	o	o	mod.	sw.	fair.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, Cienfuegos, Cuba, W. I.†	30.10	764.5	81	27.2		calm			0		1			o	o			fine.
S. S. Saratoga, Havana, Cuba, W. I†	30.30	769.6	85	29.4	75	calm			0		0			o	o			
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, N. 37° 26′, W. 75° 08′*†	30.07	763.8	61	16.1	82	nw.			3		4		ne.	o	o	small	ne.	clear.
S. S. City of Puebla, Havana, Cuba, W. I.†	29.95	760.7	94	34.4		ne.			1		2		ne.					fair.
S. S. City of Washington, N. 19° 52′, W. 90° 48′*†	30.08	764.0	85	29.4		e.			1				e.	o	o	sm'h		clear.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Lone Star, N. 24° 25′, W. 82° 33′*†	30.18	766.6	81	27.2		se.			1							sm'h		clear.
S. S. Maas, N. 40° 11′, W. 65° 31′*†	29.78	756.4	62	16.7		wnw.			1							high	sw.	
NORTH GERMAN LLOYD.																		
S. S. Elbe, N. 50° 29′, W. 2° 36′	29.69	754.1	60.8	16.0	100	e.			6		10			8 h'r	8 h'r	high	e.	hazy.
S. S. Graf Bismarck, N. 16° 40′, W. 24° 55′	30.13	765.3	71.6	22.0		ne.			5		4		ne.			r'gh	ne.	hazy.
S. S. Hohenzollern, N. 44° 30′, W. 32° 24′*	30.19	766.8	68	20.0		nw.			2		8		nw.	o	o	2	nw.	fair.
S. S. Mosel, N. 40° 56′, W. 68° 28′	29.77	756.1	48	8.9		wnw.			5		7?		w.	7 h'r	7 h'r	long	wsw.	clear?
S. S. Oder, N. 40° 42′, W. 62° 34′	29.80	756.9	69.8	21.0		sw.			6		10		sw.	o	o	mod.	wsw.	cloudy.
S. S. Ohio, New York, N. Y.	29.99	761.7				w.			2		0			3 h'r	3 h'r			clear.
S. S. Rhein, N. 45° 26′, W. 36° 02′	30.01	762.2				w.			2		10		w.	light	light	mod.	w.	cloudy.
S. S. Sulier, Bremerhaven, Germany	30.28	769.1	65.3	18.5		e.			3		2		e.	o	o			fair.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 36° 24′, W. 173° 04′*†	30.04	763.0	64	17.8	94	sw.			4		10		wsw.	4 h'r	4 h'r	mod.	n.	misty.
S. S. Belgic, N. 22° 20′, E. 115° 04′†	29.96	761.0	78	25.6	95	se.			3		5		sw.	o	o	sm'h		fair.
S. S. Gaelic, Hong Kong, China†	29.72	754.9	80	26.7	82	se.			1		1		s.					clear.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y.†	29.93	760.2				w.			1		0							clear.
S. S. City of Columbus, N. 34° 48′, W. 75° 49′†	29.91	759.7				ne.			5		3		ne.	h'vy	h'vy	h'vy	ssw.	cloudy.
S. S. Seminole, Savannah, Ga.†	30.07	763.8	75	23.9	77	sw.			1		8		w.	8 h'r	8 h'r			cloudy.
OREGON IMPROVEMENT COMPANY.																		
S. S. Willametta, Seattle, Wash. Ter.†	30.06	763.5	66	18.9	84	calm			0		0			o	o			clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, San Francisco, Cal.†	29.93	760.2	51	10.6	100	calm			0									foggy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal.†	29.84	757.9	50	10.0	93	w.			3		10		w.					foggy.
S. S. Dakota, N. 47° 39′ W. 124° 36′*†	29.90	759.4	58	14.4	88	nw.			4		5?		nw.			sm'h		clear?
S. S. G. W. Elder, N. 39° 24′, W. 124° 10′†	29.93	760.2	50	10.0	100	sw.			4		10					sm'h		foggy.
S. S. Idaho, N. 41° 52′, W. 124° 32′†	29.95	760.7	48	8.9	100	nnw.			5		10		n.			mod.	nw.	foggy.
S. S. Orizaba, N. 32° 40′, W. 117° 11′†	29.92	760.0	60	15.6	100	s.			2				nw.	o	o	sm'h	nw.	foggy.
S. S. State of California, N. 42° 15′, W. 124° 40′†	29.87	758.7	47	8.3	92	calm			0		4					sm'h	w.	clear.
S. S. Victoria, San Francisco, Cal.†	30.54	775.7	50	10.0	100	nw.			2		2					sm'h		foggy.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. City of New York, N. 7° —′, W. 163° —′†	29.91	759.7	83	28.3	91	ne.			4		10		ne.	rain	rain	mod.	ne.	cloudy.
S. S. City of Pekin, N. 34° 26′, E. 149° 32′†	29.69	754.1	69	20.6	95	ssw.			6		10		sw.	mod.	mod.	mod.	ssw.	rainy.
S. S. City of Rio de Janeiro, N. 15° 40′, W. 97° 00′*†	30.12	765.0	83	28.3	87	e.			2		10		e.	o	o	long	sw.	fair.
S. S. City of Sydney, S. 34° 03′, E. 156° 39′†	29.81	757.2	64	17.8	83	w.			8		5		nw.	o	o	h'vy	nw.	cloudy.
S. S. City of Tokio, N. 35° 26′, E. 139° 39′†	29.84	757.9	69	20.6	90	se.			3		10		se.	2 h'r	2 h'r			raining.
S. S. Clyde, N. 17° 43′, W. 102° 38′†	29.93	760.2	82	27.8	79	ne.			3		8		ne.	o	o	long	wnw.	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
PACIFIC MAIL STEAMSHIP COMPANY.—CONTINUED.																		
S. S. Colima, N. 8° 56′, W. 84° 46′†	29.88	758.9	80	26.7	87	wnw.			5		6		nw.	1.35	34.3	mod.	sw.	cloudy.
S. S. Colon, N. 30° 54′ W. 74° 00′†	30.11	764.8	76	24.4		s.			5		9		s.	0	0	small	s.	cloudy.
S. S. South Carolina, San Jose, Guatemala†	29.95	760.7	77	25.0	82	n.			3		10		var.	4 h'r	4 h'r	mod.	sw.	rainy.
S. S. Zelandia, Sydney, N. S. W.	30.05	763.3	54	12.2	74	sw.			6		8		sw.			sm'h		cloudy.
QUEBEC STEAMSHIP COMPANY.																		
S. S. Muriel, Martinique, W. I.	29.89	759.2	81	27.2		e.			4		5			0	0	sm'h		fair.
S. S. Bermuda, N. 23° 30′, W. 65° 27′†	30.25	768.3	81	27.2		ese.			2		6		ese.	0	0	long	se.	
RED STAR LINE.																		
S. S. Nederland, N. 41° 58′, W. 41° 57′†	30.15	765.8	60	15.6		calm			0		10		e.	0	0	sm'h	w.	hazy.
S. S. Rhynland, Jersey City, N. J.	29.93	760.2	59	15.0	70	w.			1		0			0	0			clear.
S. S. Vaderland, Antwerp, Belgium	29.90	761.0	63	17.2	72	e.			6		5		e.	0	0			hazy.
STATE LINE.																		
S. S. State of Florida, Glasgow, Scotland	30.01	762.2	63	17.2		ene.			4		4		ene.	0	0			fair.
S. S. State of Georgia, N. 40° 25′, W. 70° 36′†	30.01	762.2	50	10.0		wnw.			2		5		w.			long	sw.	fine.
S. S. State of Indiana, N. 50° 38′ W. 26° 18′†	29.54	750.3	59	15.0		var.			1		2			0	0	sm'h		
THINGVALLA LINE.																		
S. S. Thingvalla, Christiansand, Norway†	30.45	773.4	63.5	17.5	26	nw.			2		3		nw.					clear.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 43° 24′, W 42° 05′	30.10	764.5									4		wnw.					
WHITE STAR LINE.																		
S. S. Adriatic, N. 49° 57′ W. 25° 06′†	30.03	762.7	57	13.9	87	n.			5		8		nnw.	0	0	sli't	se.	d. clouds.
S. S. Britannic, N. 41° 28′, W. 60° 58′†	29.87	758.7	65	18.3	100	s.			5		10		w.			mod.	w.	showery.
S. S. Celtic, New York, N. Y†	30.00	762.0	62	16.7	83	nw.			2		0			0	0			fine.
S. S. Republic, N. 50° 35′, W. 17° 43′†	29.90	759.4	58	14.4	100	ne.			4		10		ene.	3 h'r	3 h'r	mod.	ne.	misty.
WILSON LINE.																		
S. S. Otranto, N. 50° 14′, W. 4° 08′†	29.97	761.2	54	12.2		se.			5		10		se.			mod.	ese.	cloudy.
MISCELLANEOUS.																		
Bg. Abbie Clifford, Orchilla Id., W. I*†	29.98	761.5	80	26.7		ese.			6		7		ese.	1 h'r	1 h'r	rg'h		squally.
Schr. Addie Fuller, Newport News, Va†	30.08	764.0	58	14.4	87	ene.			2	6 ck	0			0.19	4.8			fair.
Bk. Adelaide, N. 24° 14′, W. 65° 17′*†	30.20	767.1	84	28.9		ese.			2		1		se.	0	0	light	se.	clear.
Schr. Ajax, Blackwater. Fla†	30.00	762.0				nw.			1		1		ne.	0	0			clear.
Bk. Alpha, Guantanamo, Cuba, W. I.†	29.98	761.5	80	26.7		n.			1		2		ne.	0	0			fair.
Sch'r Annie R. Lewis, N. 29° 51′, W. 89° 45′†	30.05	763.3	76	24.4		ne.			3		0			0	0	long	sw.	clear.
Bk. Annie Thorman, N. 2° 44′, W. 28° 31′	30.04	763.1	79.3	26.3	76	se.			5		5 k		se.	0	0	short	s.	fair.
S. S. Antonio Lopez, Santander, Spain	29.93	760.2	64	17.8	89	ne.			5		3 k			0	0			fair.
Schr. Asa Eldridge, N. 23° 19′, W. 81° 35′†	29.99	761.7				sse.			3		1			2 h'r	2 h'r	sm'h		fair.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.10	764.5	77	25.0		nnw.			2		9		nnw.	0	0			hazy.
Schr. Annie M. Smull, N. 7° 16′, E. 107° 22′*†	29.90	759.4												0	0			
Bk. Bergenseren, N. 43° 50′ W. 30° 57′†	30.11	704.7	58	14.4		nw.			2				w.	0	0	2	sw.	
Bk. Bremen, N. 43° 43′ W. 38° 47′						nnw.			3				nnw.	0	0	cross		
Schr. C. R. Flint, N. 27° 17′ W. 88° 06†′	30.10	764.5	77	25.0		sw.			1		5		w.	8 h'r	8 h'r	long	sse.	fair.
Schr. Edith R. Seward, Baltimore, Md*†	30.09	764.3				ne.			1		4			0	0			fair.
S. E. J. Spicer, N. 49° 13′, W. 10° 00′†	29.92	760.0				w.			4		2		w.	12 h'r	12 h'r	mod	ese	
Essex, N. 28° 57′, W. 38° 23′*†	30.28	769.1	75	23.9		n.			1		8		nne.	1 h'r	1 h'r	sm'h	nne.	light rain.
S. Exporter, S 39° 00′, E. 34° 30′*†	30.15	765.8				nnw.			6		8		nw.	0	0	cross		
Bk. Freya, N. 52° 50′, W. 20° 20′			61	16.1		ne.			4		5		e.	0	0	sm'h		hazy.
Godfrey, N. 42° 57′ W. 28° 44′	30.06	763.5	57.4	14.1	85	nw.			4-5		4		wnw.	0	0	long	ne.	fair.
S. Grecian, N. 3° 00′, E. 106° 50′*†	29.84	757.9	82	27.8		s.			2		3	s.	se.	0	0	sm'h		clear.
Bk Hattie G. McFarland, N. 44° 26′, W. 61° 25′*†	29.65	753.1	48	8.9		ssw.			6		10		sw.	10 h'r	10 h'r	short	ssw.	stormy.
S. Ismir, S. 6° 32′ W 34° 25′†	30.00	762.0				se.			3		6		se.			r'gh	se.	
James Slater, N. 28° 33′, W. 47° 21′*†	30.50	774.7	78	25.6		sse			1		0			0	0	mod.	sse.	fine.
Schr. Jennie N. Huddle, New York, N. Y†	30.10	764.5	62	16.7	61	wnw.			3		5?			0	0			clear?
Schr. John L. Thomas, St. Andrew, Id., Carribean Sea*†	29.98	761.5				ene.			6		2		ne.	0	0			
Bkt. Josephine, N. 19° 56′, W. 74° 27′†	30.18	766.6	86	30.0	75	ene.			3		0			0	0	long	e.	hazy.
Bk. Julia H., Havana, Cuba, W. I.	30.05	763.3	78.0	25.6	88	calm			0		2							misty.
Light House Tender, Laurel, Off Cape San Blas, Fla†	30.00	762.0	78	25.6		s.			2		10		s.	3 h'r	3 h'r	long	ssw.	threatening.
Bg. Medina, N. 44° 20′, W. 66° 55′†	29.77	756.1				w.			3		5		nw.			mod.	sw.	fine.
S. Minnie N. Gerow, N. 40° 34′, W. 37° 39′*†	30.10	764.5				ssw.			2		8		s.			sm'h	w.	fair.
S. M. P. Grace, N. 33° 26′, W. 53° 30′*	30.04	763.0	67	19.4		ne.			4				ne.	0	0	sm'h	ne.	
S. S. Nebo, St. John's N. S*†	30.11	764.8				ssw.			3		2		s.	14 h'r	14 h'r			clear.
S. Paramita, S. 38° 38′, W. 44° 38′†	29.42	747.3	52	11.1		ne.			6		7		se.	8 h'r	8 h'r	cross	ne.	cloudy.
Bk. Pawashick, N. 43° 38′ W. 24° 27′*†	30.18	766.6	58	14.4	87	nne.			5		5		nne.			r'gh	ne.	threatening.
Bk. Peppina, Bordeaux, France†	29.94	760.5	75	23.9	76	s.			2		5		sw.	0	0			fair.
S. S. Ponca, S. 2° 09′, W. 42° 30′†	29.89	759.2	86	30.0		e.			3		1		e.	0	0	mod.	e.	clear.
Bg. Potomac, N. 35° 55′, W. 71° 07′*†	29.95	760.7				calm			0					0	0	hv'y	cross	cloudy.
Bk. Princessen, N. 49° 23′ W. 5° 04′†	29.89	759.3	57	13.9		ssw.			1		5			5 h'r	5 h'r	high	ene.	clearing.
Bk. Rosebud, N. 4° 25′, W. 24° 32*†	30.00	762.0	80	26.7	95	se.			2		hz			0	0	sm'h	se.	hazy.
S. Salisbury, S. 40° 07′, E. 52° 04′*	29.94	760.4	61.7	16.5	95	ne.			6		10		ne.	16 h'r	16 h'r	r'gh	ne.	cloudy.
Bk. Stella, N. 14° 17′, W. 132° 38′*	29.84	757.9	72.3	22.4	90	nne.			3		5		ne.	0	0	sm'h	ne.	
Bg. Teneriffe, N. 37° 02′, W. 74° 01′	29.98	761.5				n.			2				w.	0	0		s.	cloudy.
Bk. Truro, Havre, France*†	29.94	760.5				ese.			2		10			0	0			fine.
U. S. F. C. S. FishHawk, Havre de Grace, Md†	30.19	766.8	65	18.3	94	nnw.			1		1		calm	0.44	11.2			clear.
S. S. Victoria J. Peed, Salamanca Id, U. S. C.*†	29.11	739.4				s.			1		2							
Bk. Vincenzo Accame, N. 37° 30′ W. 59° —′†	30.24	768.0	75.2	24.0		s.			5									
Schr. Viola Reppard, Brunswick, Ga†	29.85	758.2	79.5	26.4		wsw.			1		9		wnw.	18 h'r	18 h'r			cloudy.
Bk. Wm. Wilcox, N. 11° 15′, W. 30° 30′*†	30.20	767.1	79	26.1		e.			3		10		e.	0	0	mod.	e.	cloudy.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 3, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.98	761.4	76.8	24.9	55	se.			2		2			0	0	fair	Moiroud.
Algiers			30.02	762.4	79.5	26.4	31	w.			1		0			0	0	clear	Nicolas.
La Calle			30.02	762.6	101.5	38.6	17	ese.			3		3			0	0	pretty fair	Foufréde.
Tunis			30.08	763.9															Jacques.
Saida			30.13	765.2	77.4	25.2	24	sse.			2		0					clear	Perès.
Tebessa			30.13	765.2	83.1	28.4	22	se.			2		0			0	0	clear	Derché.
Geriville					90.3	32.4	11	s.			6		0			0	0	clear	Lonchamp.
Laghouat			30.14	765.5	95.0	35.0	40	e.			2		0			0	0	clear	Abraham.
Biskra			30.12	765.0	99.0	37.2	11	se.			6		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	30.25	768.3	30.35	770.9	50.7	10.4	75	se.	3	1.3			10			0	0	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.66	753.3	30.19	766.8	73.0	22.8	36	se.			2		2			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.46	748.3	30.22	767.6	61.9	16.6	37	ne.	3.8	1.7			1			0	0		Dr. Wierzbiski.
Eperies	29.30	744.3	30.17	766.4	62.6	17.0	44	n.			4	3 cs	0	s		0	0		Julius Mikolik.
Gratz	28.93	734.8	30.15	765.8	68.4	20.2	63	w.			3		0			0	0		Andreas Rospini.
Hermannstadt	28.72	729.5	30.14	765.5	61.5	16.4	55	nw.			5		5			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.74	730.0	30.04	763.0	69.1	20.6	66	ene.			4	c	7 s			0	0		The Staff.
Lemberg	29.17	740.9	30.15	765.8	60.1	15.6	39	ne.			5		7			0	0		Dr. T. Stanecki.
Pola	30.08	764.1	30.19	766.9	75.2	24.0	44	ese.			2		10			0	0		I. R. Hydrographic Office.
Szathmar	29.69	754.1	30.14	765.6	64.8	18.2	37	n.			3		3			0	0		Joseph Midlinszky, S. J.
Szegedin	29.92	760.0	30.20	767.0	68.5	20.3	31	n.			2		5			0	0		Karl Stancel.
Trieste	30.11	764.7	30.21	767.3	79.5	26.4	29	sw.			2		10			0	0		Royal Academy.
Vienna	29.50	749.2	30.20	767.0	69.1	20.6	31	se.			2		1			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.87	758.7	29.97	761.2	54.6	12.6	79	se.	7	3.1			9			0.51e	13.0	overcast	W. Boswell
Armagh, Observatory	29.59	751.6	29.83	757.7	62.0	16.7	68	sse.	6	2.7			9					d. clouds	S. Call.
Bidston, Liverpool Obs'y			29.80	756.9	60.0	15.6	83	ese.	7	3.1			10					overcast	John Hartnup.
Bolton, Sharples	29.26	743.2	29.78	756.4	62.9	17.2	75	ese.					10					overcast	Thomas Mackereth. [A.S.
Bradford, Yorkshire	29.38	746.2	29.77	756.1	62.4	16.9	71	se.			1		8			0.33	8.4	d. clouds	J. McLandsborough, F. R
Bridgetown, Barbadoes					82.0	27.8	76	ne.			4		6					gloomy	Corpl. J. Surgenor, A. H. C.
Cardington			29.72	754.9	63.0	17.2	52	ne.			0.4		9					overcast	John McLaren.
Chatham, School M. E.	29.66	753.4	29.79	756.7	66.8	19.3	73	calm			0		10			blank	blank	misty	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.60	751.8	29.82	757.4	58.2	14.6	79	s.			1		10					overcast	The Staff.
Fort Napier, Natal	27.73	704.3	29.94	760.5	67.0	19.4	43	calm			0		0					blue sky	Pvt. Lane, A. H. C.
Free Town, Sierra Leone	29.66	753.4	29.89	759.2	87.0	30.6	72	w.			1		5					raining	Sergt. John Robinson.
Gibraltar, Mediterranean	30.03	762.7	30.08	764.0	77.5	25.3	77	nw.			2		0					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.64	752.8	29.84	757.9	59.8	15.4	70	ne.			6		9 k; n					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.61	752.1	29.78	756.4	67.2	19.6	74	ene.			1		10					showery	The Staff.
Guernsey	29.52	749.8	29.81	757.2	57.5	14.2	100	nne.			1		10					rain & fog	A. Collenette, F. M. S.
Kew, Observatory	29.75	755.6	29.79	756.7	64.2	17.9	75	n.	2	0.9			8					d. clouds	The Staff.
Leicester, Museum	29.53	750.0	29.78	756.4	65.6	18.7	76	ne.			1		10					drizzling	J. C. Smith.
Malta, Mediterranean	30.03	762.7	30.11	764.8	78.4	25.8	71	nw.			2		0					blue sky	I. H. Whysall.
Nassau, Bahamas	30.10	764.5	30.15	765.8	85.0	29.4	79	se.			1		5					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.29	744.0	29.80	756.9	62.4	16.9	80	ne.			2		10					raining	Warren Middleton.
Oxford, Radcliffe Obs'y	29.56	750.8	29.79	756.7	64.0	17.8	78	ne.			1		10					overcast	The Staff.
Plymouth	29.74	755.4	29.82	757.4	59.0	15.0	83	sw.			3		10					overcast	John Merrifield.
Sandwick Manse, Orkneys			30.00	762.0	60	15.6	68	se.	30	13.4			0					blue sky	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.98	761.5	30.04	763.0	63.2	17.3	52	n.			3		6			blank	blank	d. clouds	W. H. Lyne.
Sheffield	29.56	750.8	29.83	757.7	65.1	18.4	75	ene.			1		9			0.34	8.6	overcast	W. F. Cooper.
Silloth Rectory	29.78	756.4	29.81	757.2	64.2	17.9	70	e.			3		10			0.630	16.0	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.81	757.2	62.9	17.2	71	e.	5	2.2			10			blank	blank	overcast	J. New.
Stratfield Turgiss	29.61	752.1	29.83	757.7	65.3	18.5	75	w.			1		10					drizzling	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.77	756.1	29.78	756.4	65	18.3	73	s.			4		6					d. clouds	W. Newcombe.
Valencia, Observatory	29.70	754.4	29.73	755.1	62.3	16.8	79	se.	29	13.0			8			blank	blank	d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.74	755.4	29.78	756.4	51	10.6	76	s.	1	0.4			10 ks		w.	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.69	754.1	29.75	755.6	50	10.0	80	sw.	4	1.8		2 k	8 ks	sw.	sw.	0	0	cloudy	G. A. Blair.
Father Point, Quebec*	29.71	754.6	29.73	755.1	43	6.1	93	w.	7	3.1			10 n		nw.	inap.	inap.	light rain	J. McWilliams.
Halifax, N. S*	29.75	755.6	29.87	758.7	61	16.1	56	sw.	4	1.8		2 ck	0	w.		0	0	fair	A. Allison.
Kingston, Ontario*	29.58	751.3	29.91	759.7	52	11.1	93	w.	2	0.9			10 ks		w.	0.21	5.3	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.69	754.1	29.90	759.4	53	11.7	74	sw.	10	4.5		0	0			0.02	0.5	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.17	740.9	29.86	758.4	45	7.2	83	ne.	5	2.2		2 k	5 ks	w.	w.	0	0	fair	Rev. R. Mosley.
Port Dover, Ontario	29.15	740.4	29.84	757.9	53	11.7	93	calm	0	0			10 n		s.	0.01	0.3	light rain	H. Morgan.
Port Stanley, Ontario	29.14	740.1	29.78	756.4	51	10.6	90	e.	20	8.9			10 n		s.	0.14	3.6	light rain	M. Payne.
Quebec, Quebec*	29.52	749.8	29.84	757.9	48	8.9	83	nw.			3	0	5 s		w.	0.25	6.3	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.44	747.8	29.90	759.4	46	7.8	76	calm	0	0		0	0			0	0	clear	W. H. McIntyre.
Saugeen, Ontario*	29.12	739.6	29.83	757.7	50	10.0	86	e.	11	4.9			10 s			inap.	inap.	light rain	
St. Andrews, N. B	29.76	755.9	29.81	757.2	58	14.4	63	nw.	3	1.3		5 c	0	nw.		0	0	fair	
Sydney, C. B*	29.77	756.1	29.83	757.7	58	14.4	62	w.	8	3.6		0	0			0	0	clear	T. C. Hill, C. E
Toronto, Ontario*	29.51	749.5	29.89	759.2	53	11.7	86	ne.	7	3.1			10 ks			0.14	3.6	cloudy	Magnetic Observatory.
Yarmouth, N. S*	29.82	757.4	29.89	759.2	49	9.4	83	sw.	3	1.3		5 ck	0	w.		0	0	fair	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest																			Wm. Wylie.
St. Johns, Newfoundland	29.92?	760.0?	30.17?	766.3?	50	10.0	86	w.	4	1.8		0	0			0.10	2.5		John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.12	765.0	30.15	765.8	58.0	14.4	81	wsw.	18.1	8.1		0	1 s			0.040	1.0	light haze	John Duthie.
Cape Town, C. G. H. Obs'y	30.14	765.5	30.18	766.6	59.1	15.1	88	nw.	23	10.3		8	9			0.240	6.1		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
CHINESE (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai.	29.75	755.7	29.78	756 3	69.6	20.9	91	ne.	2.9	1.3			3			0	0		M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	30.13	765.3	30.18	766.5	68.0	20.0	46	sw.	16	7			4						Oversergent Fischer.
Fanöe	30.08	764.0	30.10	764.5	68.9	20.5	52	sse.			6		7						Overloerer Lauridsen.
Godthaab, Greenland	29.82	757.4	29.86	758.5	33.3	0.7	85	calm			0		10			0	0		S. Kleinschmidt.
Stykkisholm, Iceland	29.87	758.7	29.91	759.8	44.6	7.0	82	e.			4		5						A. O. Thorlacius.
Thorshavn	29.98	761.4	30.01	762.3	49.8	9.9	87	ne.	2	1			10						Overloerer Bergh.
Vestervig	30.02	762.4	30.11	764.7	64.8	18.2	58	nw.			2		2						Loerer Oesterbol.
FRENCH.																			
Agen, Normal School	29.27	743.5	29.91	759.6	70.9	21.6	84	calm			0		n;kn		sw.	0	0		M. Labroue, Director.
Alençon, Normal School	29.28	743.6	29.83	757.6	72.3	22.4	86	s.			1		kn			0	0		M. Nicot, Director.
Arras, Engineer School	29.67	753.7	29.93	760.1	64.8	18.2	88	ne.			2		k		n.	0	0		M. Fénéon, Command't.
Avignon, Normal School	29.87	758.7	29.95	760.7	88.9	31.6	56	ssw.			1		10			0	0	covered	M. Giraud, Director.
Bar-sur-Seine	29.34	745.1	29.85	758.3	83.7	28.7	38	s.			1		8			0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.57	751.0	29.82	757.4	75.9	24.4	65	s.			1		10		s.	0	0	covered	M. Frère Eugène Marié.
Besançon, Normal School	29.00	736.6	29.83	757.7	84.9	29.4	38	sw.			2		cn		nw.	0	0		M. Gobin, Director.
Bordeaux, Observatory	29.63	752.7	29.89	759.1	75.2	24.0	45	ssw.			1		10			0.122	3.1	covered.	M. Rayet, Director.
Bourges, Normal School	29.30	744.2	29.82	757.5	77.9	25.5	47	s.			1		k		s.	0	0		M. Postel, Director.
Brest, Naval Observatory	29.63	752.5	29.87	758.7	59.0	15.0	89	calm			0		10					raining	M. de Kermaree, Dir.
Caen, Normal School	29.73	755.2	29.81	757.1	60.8	16	91	ne.			1		5		s.	0.47	12.	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.50	749.4	29.81	757.2	82.4	28.0	48	s.			1		8		sw.	s.	0	0	very cloudy	M. Jadot, Director.
Charleville, Normal School.	29.29	744.0	29.78	756.3	84.6	29.2	38	s.			1		10			0	0	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.56	725.5	29.84	758.0	81.0	27.2	46	ne.			1		10			0	0	covered	M. Allnard, Director.
Cluny, Normal School	29.09	738.9	29.91	759.6	83.3	28.5	35	e.			3		5		s.	0	0		M. de Villemontée, Dir.
Commercy, Normal School.	29.03	737.4	29.85	758.3	85.5	29.7	33	sw.			2		ckn	sw.	sw.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.56	699.9	29.94	760.5	86.0	30	25	se.			3		1 k		w.	0	0		M. Jeanginard, Director.
Gréasque, du Rhone	28.95	735.2	30.00	762.0	88.7	31.5	30	se.			4		2		se.	0	0		M. Kina, Director.
Grenoble, Normal School	29.09	738.9	29.83	757.6	73.6	23.1	59	n.			4		sn		sw.	0	0		M. Ablard, Director.
Guéret, Normal School	28.42	721.9	29.95	760 8	71.6	22	55	sw.			1		10		sw.	0	0	covered	M. Rivoire, Director.
Lamballe, Normal School.	29.61	752.2	29.89	759.2	55.8	13.2	97	wnw.			2		10		wnw.	0.177	4.5	raining	M. Ollitrault, Director.
Lescar, Normal School	29.32	744.8	29.86	758.5	77.0	25	58	nw.			3		5			0.067	1.7	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.76	755.9	29.86	758.5	59.9	15 5	83	w.			1		10			0.047	1.2	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.90	734.0	29.91	759.7	81.1	27.3	41	se.			1		10 ck	0	wsw.		0	0	covered	M. André, Director.
Mans, Normal School	29.51	749 5	29.80	757.0	74.1	23.4	62	sw.			3		5		s.		0	0	cloudy	M. Piboen, Director.
Marseille, Observatory	29.75	755.6	30.00	762.1	91.9	33.3	42	se.			2.3		7		s.		0	0		M. Stephan, Director.
Montlouis	24.87	631.6	29.71	754.6	70.7	21.5	33	w.	16.8	7.5			0				0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.87	758.6	29.99	761.7	73.8	23.2	70	s.			3		5		se.		0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	29.13	739.8	29.86	758.5	85.6	29.8	40	s.			1		ck	0	w.		0	0		M. Hasse, Director
Nantes, Observatory	29.66	753 3	29.82	757.4	75.2	24	77	sw.			1–3		7k;kn		ssw.	0.535	13.6		M. Larocque, Director.
Perpignan, Observatory	29.84	757.8	29.94	760.5	67.5	19.7	83	se.	7.4	3.3			10		e.		0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.31	541.3			46.0	7.8		wsw.			1		5		wsw.	0.087	2.2	cloudy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.98	736.1	30.03	762.8	81.0	27.2	48	n.			1		5	se.	ne.	0	0	cloudy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.20	640 1			65.1	18.4	59	s.			3		8			0	0	¾ covered.	M. Allnard, Director.
Rochefort, Naval Obs'y	29.84	757.8	29.87	758.6	73.8	23.2	100	ssw.			1		5		s.	0.47	12.	½ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.62	752 4	29.83	757.7	69.3	20.7	76	s.			3		5		sw.	0.846	21.5	cloudy	M. Mouillot, Director.
Rodez, Normal School	27.84	707.2	29.92	760.0	70.5	21.4	62	se.			1		n		s.	0	0		M. Seger, Director.
Rouen, Normal School	29.74	755.3	29.78	756.5	73.0	22.8	63	s.			1		8	s.		0	0	very cloudy	M. Brotier.
Saint Maur, Observatory	29.68	753.8	29.84	758.0	74.3	23.5	70	ssw.			1		10	ssw.	s;ssw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.22	742.1	29.94	760 4	75.5	24.7	57	sse.			3		8	sw.		0	0	very cloudy	M. Baillaud, Director.
Tours	29.65	753.2	29.83	757.7	76.6	24.8	65	sw.			1		2	sw.	sse.	0.012	c.3	slightly cl'dy	M. de Tastes.
Versailles, Observatory	29.34	745.3	29.84	757.8	74.8	23.8	64	sw.			2					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.56	750.8	29.85	758.2	72.1	22.3	71	s.			1		10		sw.	0	0		M. Marié Davy, Director
GERMAN.																			
Bamberg	29.20	741.6	30.05	763.3	73.0	22.8	50	se.			4		6 cs	0		0	0		Prof. Dr. Hoh.
Berlin	30.07	763.8	30.24	768.2	72.3	22.4	25	se.			3		7			0	0		Prof. Dr. Arndt.
Breslau	29.75	755.6	30.28	769.2	63.3	17.4	29	ese.			1		0			0	0		Royal University Obs'y.
Carlsruhe	29.51	749.5	29.93	760.2	75.9	24.4	51	ne.			2		9	w.		0	0		Albert Senz.
Cassel	29.32	744.8	30.04	762.9	76.6	24.8	35	se.			4		7	s.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.62	752.4	29.97	761.2	76.1	24.5	33	se.			2		2			0	0		Physical Society.
Friedrichshafen	28.59	726.2	29.98	761.5	69.8	21.0	68	sw.			1		6	sw.		0	0		Wilhelm, Chief Tel.
Hamburg	30.07	763.7	30.16	766.1	69.3	20.7	33	ese.			4		3	wsw.		0	0		E. Preller.
Kiel	30.11	764.7	30.12	765 1	67.3	19.6	39	se.			4		4			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.71	754.6	30.12	765.0	70.5	21.4	45	se.			5		6			0	0	stormy	H. Leppig, Asst.
Magdeburg	29.93	760.1	30.11	764.8	72.0	22.2	30	ese.			4		4 c	0	nw.	0	0		Dr. Assmann.
Memel	30.20	767.0	30.24	768.2	62.2	16.8	76	wsw.			2		6 cs	0					Issermann.
Munich	28.24	717.3	30.11	764.7	70.3	21.3	51	ne.			2			7	nw.	0	0		Central Station
Neufahrwasser	30.24	768.0	30.25	768.4	61.5	16.4	60	ne.			1			2		0	0		A. Lothes.
Neustadt, Palatinate	29.44	747.7	29.96	761.0	74.5	23.6	42	e.			3			7		0	0		Dicknether.
Stuttgart	29.02	737.0	29.87	758.6	77.0	25.0	42	e.			3			7	w.	0.028	0.7		Prof. Dr. Schoder.
Wustrow	30.18	766.5	30.21	767.2	72.7	22.6	86	se.			3			10 s		0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.67	753.7	30.06	763.4	75.4	24.1		ne.			3.0			6		0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.45	748.0	29.50	749.2	87.8	31.0	73	wsw.	29.0	13.0			4		w.	0	0	misty	
Deesa	28.94	735.0	29.38	746.3	105.5	40.8	29	wsw.	10.2	4.6			6		wsw.	0	0	d. clouds	
Bombay	29.57	751.0	29.60	752 0	77.3	25.2	95	w.	29.0	13.0			10		w.	10.63	270.0	raining	
Poona, Yarrowda	27.75	704.9	29.62	752.3	70.8	21.6	88	wsw.	17.0	7.6			10		wsw.	1.97	50.0	raining	
Trichinopoly	29.48	748.8	29.76	755.8	92.8	33.8	38	nw.	2.0	0.9			10			0	0	overcast	
Bellary	28.28	718.2	29.74	755 3	81.5	27.5	62	sw.	10.4	4.6			10			0	0	overcast	
Belgaum	27.19	690.5	29.74	755 4	69.9	21.1	89	wsw.	18.0	8.0			10			1.89	48.0	showery	
Lahore	28.62	726.9	29.31	744 4	109.2	42.9	16	n.	3.0	1.3			0			0	0	misty	
Roorkee	28.46	722.8	29.30	744.2	105.3	40.7	16	nw.	3.1	1.4			2			0	0		
Agra	28.82	731.9	29.34	745.2	110.1	43.4	14	nw.	4.1	1.8			0			0	0	blue sky	
Nagpur	28.51	724.1	29.52	749.7	92.2	33.4	44	sw.	11.4	5.1			9	nw.	sw.	0	0	d. clouds	
Jubbulpore	28.14	714.7	29.43	747.4	100.5	38.1	25	s.	4.1	1.8			3			0	0	d. clouds	
Lucknow	29.06	738.2	29.42	747.2	106.4	41.3	28	w.	2.3	1.0			0			0	0	blue sky	
Allahabad	29.07	738.4	29.37	745.9	101.6	38.7	25	sw.	4.6	2.1			9		sw.	0	0	d. clouds	
Patna	29.27	743.4	29.45	748.0	94.1	34.5	56	ene.	6.4	2.9			4	ene.	ene.	0	0	d. clouds	
Hazaribagh	27.49	698.2	29.40	746.6	99.8	37.7	20	nw.	12.1	5.4			10		n.	0	0	thunder	
Cuttack	29.41	747.1	29.49	749.0	98.1	36.7	38	ssw.	1.8	0.8			6			0	0	d. clouds	
Calcutta, Alipore	29.43	747.6	29.45	748.1	93.9	34.4	57	wsw.	1.0	0.4			2			0	0	d. clouds	
Dhubri	29.40	746.8	29.52	749.7	80.3	26.8	85	ne.	8.2	3.7			1			4.27	108.5	d. clouds	
Chittagong	29.51	749.5	29.60	751.8	85.2	29.6	88	s.	7.4	3.3			3			0	0	blue sky	
Sibsagar	29.23	742.4	29.56	750.9	80.4	26.9	88	ne.	1.0	0.4			10	sw.	sw.	0.54	13.7	d. clouds	
Jeypore	27.99	710.9	29.35	745.4	105.7	40.9	34	w.	6.5	2.9			5		w.	0	0	d. clouds	
Zanzibar, Africa	30.00	762.0			83.2	28.4	55	se.	7.0	3.1			8		sse.	0	0	d. clouds	
ITALIAN.																			
Udine	29.82	757.4	30.22	767.5	71.1	21.7	58	se.	3.8	1.7			10			0	0		Prof. Giovanni Clodig.
Milan	29.67	753.6	30.17	766.2	80.2	26.8	41	se.	7.4	3.3			8	w.		0	0		Prof. Schiaparelli.
Padua	30.09	764.3	30.20	767 0	77.0	25.0	44	ese.	6.9	3.1			9			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.28	743.7	30.15	765.8	73.8	23.2	49	n.	4 9	2.2			7	n.		0	0		Prof. P. F. Denza.
Genoa	29.92	760.0	30.11	764.7	81.9	27.7	52	n.	3.1	1.4			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.28	718.2	30.12	765.1	71.1	21.7	70	ne.			2		9			0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	30.11	764.8	30.16	766.0	73.0	22.8	57	e.	8.1	3.6			10			0	0		Prof. Luigi Guidi.
Florence	29.83	757.7	30.08	764.0	86.7	30.4	37	nw.			2		0			0	0		Prof. Costantino Pitter.
Leghorn	29.95	760.8	30.04	762.9	82.4	28.0	51	sw.	1.8	0.8			10			0	0		Prof. P. Monte.
Rome	29.91	759.8	30.08	764.1	87.8	31.0	38	sw.	8.7	3.9			6			0	0		Prof. P. S. Ferrari.
Lecce	29.89	759.3	30.14	765.5	74.8	23.8	24	n.	12.5	5.6			2			0	0		Prof. C. de Giorgi.
Cosenza	29.26	743.2	30.11	764.8	79.9	26.6	72	sse.	1.8	0.8			0			0	0		Prof. D. Conti.
Cagliari	29.80	757.0	29.99	761.7	84.0	28.9	43	se.			2		0			0	0		Prof. A. Pacinotti.
Palermo	29.86	758.4	30.10	764.6	87.8	31.0	22	ne.	6.9	3.1			0			0	0		Prof. G. Ciacciatore.
Syracuse	30.08	764.1	30.13	765.2	75 7	24.3	71	e.	2.5	1.1			0			0	0		Prof. Vincenzo Gulliano
Sub-series.																			
Naples, S. R	29.58	751.3	30.08	763.9	84.2	29.0	37	nne.	3.8	1.7			0			0	0		Prof. T. Brioschi.
Stelvio	22.43	569.6			51.4	10.8	66	sw.			2		10			0.126	3.2	misty	Prof. P. F. Denza.
Valdobbia	22 46	570.6			52.7	11.5	73	ne.			2		10			0	0	covered	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.84	757.9	29.87	758.7	58.7	14.8	78	n.	3.0	1.3			10 s			0.120	3.0	overcast	K. Ogawa.
Hakodate	29.88	758.9	29.89	759.2	53.0	11.7	93	ese.	10.6	4.7			10			0	0	covered	
Hiroshima, I. M. Obs'y	29.77	756.1	29.78	756.4	69.4	20.8	93	nnw.	0.9	0.4			10 n			0.475	12.1	light rain	I. Sogawa.
Kanazawa	29.82	757.4	29.92	759.9	64.7	18.2	83	ese.	8.5	3.8		ck	10ks;s			0.040	1.0	cloudy	S. Eudo.
Kioto	29.68	753.9	29.85	758.2	70.5	21.4	63	s.	0.9	0.4			10 n			0.457	11.6	light rain	M. Tojima.
Kochi	29.83	757.7	29.85	758.2	71.9	22.2	88	e.	6.2	2.8			10 s;ks		s.	1.815	46.1	cloudy	K. Kusunose.
Nagasaki, I. M. Obs'y	29.60	751.8	29.79	756.6	71.8	21.9	79	sse.	8.4	3.8			10 s			0.050	1.3	overcast	S. Takehayashi.
Nemuro	29.88	758.9	29 94	760.5	40.8	4.9	92	nne.	21.0	9.4		8	0	wsw.		0.040	1.0	cloudy	
Niigata	29.81	757.2	29.85	758.2	62.0	16.7	89	ne.	3.4	1.5		10 ck	0			0	0	cloudy	M. Morita.
Nobiru	29.81	757.2	29.83	757.7	61.8	16.6	90	sse.	12.9	5.8		ck	10 s			0.060	1.5	overcast	H. Midzushina.
Supporo					55.5	13.1	86	calm	0	0			8			0	0	overcast	
Tokei Obs'y, Yeddo	29.77	756.1	29.84	757.9	67.3	19.6	87	s.	9.2	4.1		2ck;cs	0	wnw.		0	0	fair	The Staff.
Wakayama	29.78	756.4	29.83	757.7	70.1	21.2	75	ene.	0.5	0.2		10 ck	0			0.136	3.4	cloudy	Y. Kuwamura.
MAURITIUS																			
Mauritius Observatory	29.89	759.2	30.08	764.0	76.6	24.8	65	se.	7.5	3.4		0	6 ks;n		sw;se	0.02	0.5	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.70	602.1	29.92	760.1	60.3	15.7	90	calm	0	0		4 ck	4 k	w.	w.	0.032	0.8	cloudy	Prof. Vicente Fernandez.
Leon	24.31	617.5	29.92	760.0	62.6	17.0	92	nw.			1	5 c	4 n	sw.		0.008	0.2	very cloudy	Prof. M. Leal.
Mazatlan	29.68	753.9	29.94	760.5	72.5	22.5	90	nnw.				1 cs	0			0	0	light haze	F. Quijano, C. E.
Mexico, Central Obs'y	23.13	587.4	30.15	765.8	54.9	12.7	94	calm	0	0		6 c	4 k			0.213	5.4	covered	The Staff.
Morelia	24.20	614.6	30.25	768.4	60.8	16.0	52	ne.			2	1	2			0.134	3.4		M. Tena, M. D.
Pabellon, Aguascalientes	23.97	608.9	29.89	759.1	63.0	17.2	93	n.			1					0	0		M. V. de Leon, M. E.
Puebla, Catholic Institute	23.38	593.9	30.05	763.4	58.3	14.6	90	calm	0	0			10		ese.	1.193?	28.5?	covered	Prof. P. Spina.
San Luis Potosi	24.21	615.0	30.10	764.5	63.5	17.5	57	w.				0	9			0.335	8.5	cloudy	G. Barroeta, M. D.
Zacatecas	22.63	574.9	30.23	767.9	54.8	13.0	80	ne.	4.8	2.1		0	8 n		w.	0.204	5.2	cloudy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.83	757.7	29.83	757.7	71.8	22.1		ese.			4					0	0		
Groningen	29.89	759.3	29.95	760.7	70.0	21.1		se.			5					0	0		
Helder	29.88	758.9	29.88	758.9	65.7	18.7		e.			4					0	0		
Hellevoetsluis	29.84	757.9	29.84	757.9	71.2	21.8	54	e.			1					0	0		
Utrecht	29.81	767.1	29.85	758.3	71.8	22.1	43	sse.			4		8			0	0	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	30.06	763.4	30.12	765.0	61.5	16.4	42	w.	4	2			0			0	0		
Brono	30.02	762.6	30.06	763.6	49.1	9.5	86	nw.	9	4			8			0.748	19.0		
Christiania	29.86	758.4	30.00	762.0	70.2	21.2	38	se.	11	5			1			0	0		
Glæsvær	29.65	753.1	29.67	753.7	45.5	7.5		sw.			7		10						
Lodingen	29.76	755.8	29.80	757.0	44.4	6.9	74	sw.			7		9			0.512	13.0		
PORTUGUESE.																			
Angra, Azores					62.2	16.8	68	w.	7.4	3.3			3			0	0		Dr. J. A. Sampaio.
Campo Major	29.01	736.8	29.99	761.8	66.6	19.2	60	sw.	8.1	3.6			8			0.110	2.8		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.11	764.7	30.19	766.9	66.2	19.0	64	sw.	3.8	1.7			10			blank	blank		Capt. D. A. de Cunha.
Lisbon, Observatory	29.70	754.4	30.06	763.5	63.3	17.4	80	sw.	20.6	9.2			8			0.291	7.4		The Staff.
Ponta Delgada, Azores	30.11	764.7	30.18	766.5	66.6	19.2	60	sw.	12.5	5.6			4			0	0		
Saint Paul de Loando	29.80	757.0	30.00	762.1	75.6	24.2	82	w.	0.7	0.3			5	s.		0	0		
Serra da Estrella	25.22	640.7	29.97	761.1	46.4	8.0	100	wnw.	5.6	2.5			10			0.669	17.0	rain & fog	
RUSSIAN.																			
Akmolinski	28.65	727.6	29.66	753.3	78.3	25.7	25	se.	9	4		4 cs	0			0	0		Major K. Lasarew.
Archangel	29.97	761.2	29.99	761.7	57.7	14.3	37	calm	0	0		0	0			0.118	3.0		Capt. Sseliwerstow.
Astrakhan	29.65	753.1	29.57	751.0	83.1	28.4	34	s.	9	4		0	2 s			0	0		Capt. Wisganow.
Barnaul	29.34	745.1	29.81	757.1	72.9	22.7	31	ne.	4	2			0			0	0		Meteorological Obs'y.
Dorpat	29.85	758.3	30.10	764.4	61.9	16.6	54	n.	2	1		0	4 k			0	0		Observatory.
Ekaterinburg	28.90	734.1	29.87	758.6	46.8	8.2	88	w.	7	3			10			0.630	16.0	raining	Meteorological Obs'y.
Kasan	29.47	748.5	29.74	755.3	54.1	12.3	83	nne.	11	5			10 n			0	0		Observatory.
Kertch	29.73	755.1	29.75	755.6	61.3	16.3	69	n.	18	8		0	6 ks			0.268	6.8		Lagorio & Sastyres.
Kieff	29.35	745.4	29.98	761.6	51.8	11.0	54	nnw.	11	5		c;cs	7 ks			0.028	0.7		Observatory.
Lugan	29.51	749.5	29.71	754.6	59.7	15.4	59	n.	18	8			10			0	0		Meteorological Obs'y
Moscow	29.34	745.3	29.82	757.4	49.8	9.9	75	n.	4	2			10 s						Meteorological Obs'y.
Nikolaiev	29.87	758.7	29.94	760.5	58.6	14.8	70	nne.	18	8			10 n			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.84	757.8	29.92	760.0	54.9	12.7	59	calm	0	0			2			0	0		Lieut. Iwanow.
Pekin, China	29.52	749.9	29.67	753.5	79.2	26.2	58	calm	0	0		0	2 k			0	0		Physical Observatory
St. Petersburg	30.06	763.4	30.07	763.8	55.8	13.2	38	wnw.	9	4		0	1 ks			0.004	0.1		Central Physical Obs'y.
Semipalatinsk	29.16	740.6	29.78	756.3	78.8	26.0	23	n.	9	4		4 c	0			0	0	light clouds	Major Lasarew.
Tashkend, Laboratory	28.15	715.0	29.62	752.4	81.3	27.4	39	nnw.	13	6			3						Teich, A. M.
Tiflis	28.21	716.4	29.54	750.4	76.5	24.7	41	w.	4	2		8 ck	0			0.067	1.7		Physical Observatory
Vladivostock	29.87	758.7			52.5	11.4	95	calm	0	0			10 n						
Warsaw	29.80	756.8	30.22	767.6	63.3	17.4	33	ne.	7	3			9 ks						Astronomical Obs'y
Wilna	29.74	755.5	30.16	766.1	60.1	15.6	39	nw.	4	2			0			0	0		Berg, Assistant.
SPANISH.																			
Barcelona, Met. Obs'y	29.85	758.2	29.95	760.8	70.5	21.4	79	se.	2.9	1.3			2			0	0	solar halo	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.85	758.3	29.91	759.8	80.6	27.0	48	nw.	2.0	0.9		3	4	sw.		0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.03	686.5	29.92	759.9	65.1	18.4	60	sw	5.6	2.5			3			0.047	1.2	clouds	Domingo Martin.
Madrid, Royal Obs'y	27.78	705.7	29.94	760.4	73.4	23.0	49	sw.	18.1	8.1		0	7			inap.	inap.	cloudy	The Staff.
Marcia, Met. Obs'y	29.82	757.4	29.97	761.1	76.6	24.8	63	ne.	0.9	0.4		5	5			0	0	foggy	Olayo Diaz, Director.
Santiago, Met. Obs'y	28.95	735.4	29.84	758.0	59.9	15.5	82	sw.	13.6	6.1			10			0.409	10.4	light rain	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	29.98	761.4	30.04	763.1	81.1	27.3	80	calm	0	0		2 c;ck	0	n.		0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.76	755.9	29.82	757.4	82.4	28.0	81	sw.	2.2	1.0		0	5 n		sw.	0	0	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.02	762.6	30.12	765.1	69.4	20.8	69	sw.	2.1	0.9		0	8		w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.99	761.8	30.08	764.1	81.3	27.4	85	e.	12.5	5.6		4 cs	5 km	e.	e.	0	0	cloudy	Manuel Maese.
Tuguegarao, Philippine Id's	29.69	754.1	29.82	757.4	78.8	26.0	87	nw.	5.6	2.5			9 km		nw.	0	0	covered	José L. Yrastorza.
SWEDISH																			
Haparanda	29.79	756.7	29.83	757.7	55.8	13.2	66	sw.			4		5			0	0		
Umea	29.91	759.6	29.96	760.9	59.0	15.0	66	n.			2		7			0	0		
Hernosand	29.94	760.5	29.99	761.8	62.6	17.0	48	wnw.			6		6			0	0		
Stockholm	29.91	759.7	30.09	764.2	66.2	19.0	46	sse.			4		10			0	0		
Wisby	30.06	763.6	30.12	765.1	62.2	16.8	59	w.			2		3			0	0		
Sub-series.																			
Upsala	29.98	761.4	30.06	763.6	64.4	18.0	54	ne.	3.8	1.7			9		w.	0.020	0.5		S. G. Fineman.
SWISS.																			
Geneva	28.59	726.2	29.97	761.3	70.7	21.5	64	n.			2					0	0		The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
SCOTTISH.																			
Monach Lt			29.86	758.4	58	14.4	93	sse.			3	5	5	e.		0	0	hazy	J. Youngclause.
TURKISH.																			
Constantinople			30.08	764.0	62.8	17.1	56	nnw.	19	8.5			4		nnw.	0	0		The Observatory.
Valona			30.20	767.1	77.2	25.1		nw.			2		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.87	758.6	80.1	26.7	65	sw.			3	0	0			0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.87	758.7	29.95	760.7	61.2	16.2	62	sw.	2	0.9			10 s			0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.19	741.4	29.84	757.9	44	6.7	76	e.	7	3.1			10 s			0	0	cloudy	Jas. J. Fitzgerald.
Atlanta, Georgia	28.82	732.0	29.98	761.5	68.0	20.0	93	sw.	6	2.7			10 s			0	0	cloudy	H. Hall.
Atlantic City, New Jersey	29.97	761.2	29.98	761.5	59.5	15.3	78	s.	11	4.9		0	0			0	0	clear	Jas. M. Watson.
Augusta, Georgia	29.84	757.9	30.03	762.7	72	22.2	84	sw.	2	0.9		10 k	0	sw.		0	0	cloudy	John Healy.
Baltimore, Maryland	29.92	760.0	29.97	761.2	62	16.7	84	s.	5	2.2			10 s		s.	0	0	cloudy	Robert Seybolh.
Barnegat, New Jersey	29.96	761.0	29.98	761.5	60.0	15.6	72	s.	12	5.4		0	0			0	0	clear	Chas. F. Merritt.
Behring Island, Behring Sea	29.90	759.4	29.92	760.0	38.4	3.6		s.	5	2.2			10 ks		sw.	0	0	cloudy	Dr. L. Steineger.
Bismarck, Dakota	28.36	720.3	30.12	765.0	41	5.0	82	calm	0	0		2 c	0			0	0	clear	Cyrus Cramer.
Boise City, Idaho	27.24	691.9	30.02	762.5	57	13.9	60	nw.	2	0.9		2 k	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.79	756.7	29.94	760.5	58.0	14.4	75	sw.	8	3.6		10 cs	0	sw.		0	0	cloudy	O. B. Cole.
Brownsville, Texas	28.88	733.5	29.92	760.0	75.0	23.9	90	s.	5	2.2		2 c	0	calm		0	0	clear	M. McCarty.
Buffalo, New York	29.12	739.0	29.86	758.4	56.6	13.7	73	e.	1	0.4			10 s;sk		sw.	0.01	0.3	cloudy	Wm. Finn.
Burlington, Vermont	29.62	752.3	29.91	759.7	55.0	12.8	69	calm	0	0		9 ck	0	w.		0.01	0.3	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.36	745.7	29.75	755.6	65.6	18.7	86	w.	18	8.0			10 ks		w.	0.07	1.8	threatening.	W. H. Ray.
Campo, California	27.40	695.9	29.88	758.9	44.5	6.9	68	s.	3	1.3		0	0			0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.15	689.0	29.78	756.4	68	20.0	32	w.			1	1 cs	1 k			0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	29.98	761.5	30.00	762.0	67	19.4	84	s.	12	5.4		0	1 s			0	0	clear	A. K. Alderson.
Cape May, New Jersey	29.94	760.5	29.98	761.5	61	16.1	84	s.	17	7.6		0	0			0	0	clear	W. Bolton.
Cedar Keys, Florida	30.01	762.2	30.03	762.7	79	26.1	88	s.	5	2.2		2 ck	0			1.20	30.5	clear	F. W. Mixer.
Champaign, Illinois	28.70	729.0	29.50	749.3	62.2	16.8	87	sw.	16	7.2			10 s		sw.	1.82	46.2	cloudy	L. A. Welsh.
Charleston, S. Carolina	29.96	761.0	30.01	762.2	79	26.1	82	sw.	6	2.7		6 ck	4 s	sw.	sw.	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.10	739.1	29.93	760.2	72.0	22.2	82	s.	4	1.8		0	hz.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.12	739.6	29.93	760.2	65.0	18.3	84	calm	0	0		9 k	sk.	sw.		0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.16	613.7	29.90	759.4	38.9	3.8	86	nw.	2	0.9		4 c	4 s	nw.	n.	0.06	1.5	cloudy	E. McGovern.
Chicago, Illinois	28.79	731.3	29.48	748.8	45.9	7.7	96	n.	15	6.7			10 n			1.92	48.8	light rain	J. Mitchell.
Chincoteague, Virginia	29.97	761.2	29.99	761.7	62	16.7	87	se.	9	4.0		0	0			0	0	clear	V. P. Temple.
Cincinnati, Ohio	29.09	738.9	29.74	755.4	66.8	19.3	68	s.	8	3.6			10 s		sw.	Inap.	Inap.	cloudy	R. B. Watkins.
Cleveland, Ohio	29.04	737.0	29.77	756.1	57.4	14.1	76	se.	15	6.7			10 n			0.32	8.1	light rain	J. B. Newlin.
Coleman City, Texas	28.25	717.5	30.00	762.0	60	15.6	72	n.	26	11.6		8 cs	0	n.		0.02	0.5	cloudy	L. Dorman.
Columbus, Ohio	28.91	734.3	29.75	755.6	63	17.2	78	s.	8	3.6			10 s		sw.	0.03	0.8	cloudy	D. Cuthbertson.
Concho, Texas	28.13	714.5	30.00	762.0	63	17.2	64	ne.	20	8.9		5 c	0	ne.		0	0	fair	W. W. McConihe.
Davenport, Iowa	29.08	738.6	29.72	754.9	46	7.8	93	n.	18	8.0			10 n		calm	1.24	31.5	light rain	R. R. Martin.
Dayton, Washington T'y	28.24	717.3	29.98	761.5	55	12.8	69	n.	5	2.2		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.51	647.9	29.94	760.5	42	5.6	92	n.	2	0.9			10 n		e.	0.59	15.0	light rain	G. W. Scott.
Decatur, Texas					42	5.6	51	n.	10	4.5		0	0			Inap.	Inap.	clear	D. J. Carr.
Delaware Breakwater, Del.	29.97	761.2	29.99	761.7	62.0	16.7	84	s.	16	7.2		0	0			0	0	clear	F. C. Pratz.
Denison, Texas	29.21	741.9	29.99	761.7	60.0	15.6	81	n.	8	3.6			10 s		w.	0	0	cloudy	J. McGlone.
Denver, Colorado	24.85	631.2	29.89	759.2	46.5	8.1	83	s.	4	1.8		1 k	2 s	calm	calm	1.29	32.6	clear	F. M. Neal.
Des Moines, Iowa	28.99	736.3	29.87	758.7	49	9.4	63	n.	8	3.6		0	5 s		n.	0.45	11.4	fair	F. W. Conrad.
Detroit, Michigan	28.96	735.0	29.65	753.1	57.0	13.9	86	se.	18	8.0			10 n		calm	0.54	13.7	heavy rain	C. F. R. Wappenhans.
Dodge City, Kansas	27.50	698.5	30.02	762.5	43	6.1	83	nw.	9	4.0		0	2 s			Inap.	Inap.	clear	E. A. Thomas.
Dubuque, Iowa	29.07	738.4	29.76	755.9	45.8	7.7	83	n.	10	4.5			10 n			0.65	16.5	light rain	J. Harvey Smith.
Duluth, Minnesota	29.29	744.0	29.98	761.5	50	10.0	71	nw.	8	3.6			10 s		calm	0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.12	739.6	29.91	759.7	70.2	21.2	90	ne.	7	3.1		10 cs	0	sw.		0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.35	643.9	29.94	760.5	40	4.4	62	n.	12	5.4		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.78	756.4	29.85	758.2	59	15.0	65	sw.	4	1.8		3 cs	0			0	0	clear	D. O. Murphy.
El Paso, Texas	26.31	668.3	29.90	759.4	59	15.0	50	e.	6	2.7		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.11	739.4	29.83	757.7	56	13.3	86	se.	8	3.6			10 n			0.14	3.6	heavy rain	Peter Wood.
Escanaba, Michigan	29.20	741.7	29.85	758.2	43	6.1	83	n.	15	6.7			10 s		n.	0	0	threatening.	C. Dill.
Fort Apache, Arizona	25.04	636.0	29.79	756.7	45	7.2	51	e.	3	1.3		0	0			0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.39	695.7	30.18	766.6	42	5.6	76	e.	4	1.8		0	0			0	0	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.62	726.9	30.16	766.1	43.0	6.1	93	n.	2	0.9		5 k	0	nw.		0	0	fair	A. Pritchard.
Fort Benton, Montana	27.39	695.7	30.16	766.1	43	6.1	83	calm	0	0		0	0			Inap.	Inap.	clear	G. W. Davis.
Fort Buford, Dakota	28.21	716.5	30.17	766.3	43	6.1	83	calm	0	0			fg.		calm	0	0	dense fog	A. H. Bell.
Fort Custer, Montana	27.03	686.5	30.09	764.3	48	8.9	93	nw.	3	1.3		0	8 s		calm	0.05	1.3	cloudy	V. Verge.
Fort Davis, Texas	25.19	639.8	29.80	756.9	56	13.3	60	n.	6	2.7		0	0			0	0	clear	J. Williams.
Fort Elliott, Texas	27.31	693.7	29.98	761.5	45	7.2	56	nw.	6	2.7		0	0			0	0	clear	W. J. Cundall.
Fort Grant, Arizona	25.24	641.1	29.78	756.4	74.9	23.8	10	nw.	10	4.5		3 c	0			0	0	clear	Robert C. Lord.
Fort Keogh, Montana	27.66	702.6	30.09	764.3	53	11.7	80	e.	3	1.3		10 cs	0	e.		0.18	4.6	cloudy	W. B. Stockman.
Fort Macon, North Carolina	30.00	762.0	30.00	762.0	73	22.8	97	sw.	7	3.1		0	4 ks		sw.	0	0	fair	W. W. Thomas.
Fort McKavett, Texas	27.81	706.4	30.01	762.2	65	18.3	58	e.	12	5.4		0	0			0	0	clear	J. E. Thatcher.
Fort Missoula, Montana	26.89	683.0	30.15	765.8	55	12.8	69	s.	2	0.9		0	0			0	0	clear	J. H. Jones.
Fort St. Michaels, Alaska	29.52	749.8	29.55	750.6	39	3.9	100	se.	3	1.3		0	5 s		se.	0.08	2.0	fair	A. P. Leavitt.
Fort Shaw, Montana	26.55	674.4	30.12	765.0	42	5.6	92	w.	6	2.7		0	0			0	0	clear	A. L. Mathews.
Fort Sill, Indian Territory	28.85	732.8	30.05	763.3	55	12.8	80	n.	7	3.1		3 ck	0	w.		0	0	clear	T. Cleary.
Fort Smith, Arkansas	29.47	748.5	29.93	760.2	58.0	14.4	70	nw.	12	5.4		0	6 ks		nw.	0.50	12.7	fair	J. B. Campbell.
Fort Stevenson, Dakota	28.35	720.1	30.15	765.8	42	5.6	83	ne.	1	0.4		0	0			0	0	clear	W. Burrows
Fort Verde, Arizona					70.9	21.6	51	se.			1		10 s		se.	0	0	cloudy	D. Brooks.
Fort Washakie, Wyoming	24.63	625.6	30.01	762.2	45.1	7.3	80	nw.	4	1.8			10 k		nw.	0.09	2.3	cloudy	T. M. Ambler.
Fredericksburg, Texas	28.22	716.8	29.90	759.4	65	18.3	78	n.	12	5.4		4 k	0	s.		0	0	fair	H. S. Miles.
Galveston, Texas	29.86	758.4	29.91	759.7	76	24.4	77	sw.	11	4.9		2 c	hz.	e.		0	0	clear	E. O'C. MacInerney.
Grand Haven, Michigan	28.92	734.6	29.57	751.1	51.0	10.6	96	ne.	17	7.6			10 n		ne.	0.98	24.9	heavy rain	W. A. Reid.
Hatteras, North Carolina	30.00	762.0	30.02	762.5	73	22.8	90	e.	6	2.7		hz.	3 ks		sw.	0	0	clear	R. M. Crawford.
Helena, Montana	25.97	659.6	30.09	764.3	50	10.0	66	w.	2	0.9		0	0			0	0	clear	S. Wheaton.
Henrietta, Texas	29.11	739.4	30.09	764.3	57.0	13.9	69	n.	10	4.5		0	7 s			0.19	4.8	fair	J. W. Byram
Huron, Dakota	28.70	729.0	30.04	763.0	40.8	4.9	67	nw.	8	3.6		7 k	0	nw.		0	0	fair	S. W. Glenn.
Indianapolis, Indiana	28.82	732.0	29.60	751.8	64	17.8	78	s.	11	4.9			10 n		sw.	0.09	2.3	light rain	O. Schutze
Indianola, Texas	29.88	758.9	29.91	759.7	75.2	24.0	90	s.	8	3.6		0	2 k		s.	0	0	clear	I. A. Reed.
Jacksboro, Texas	28.91	734.3	30.03	762.7	57	13.9	80	n.	6	2.7		0	7 ks		sw.	0.70	17.8	fair	J. P. Sherry.
Jacksonville, Florida	30.00	762.0	30.04	763.0	78	25.6	82	s.	4	1.8		3 ck	6 s		s.	0.28	7.1	cloudy	J. W. Smith.
Keokuk, Iowa	29.07	738.4	29.71	754.6	52.0	11.1	80	n.	14	6.3		9 k	0	n.		1.43	36.3	cloudy	F. Z. Gosewisch.
Key West, Florida	30.01	762.2	30.03	762.7	82.0	27.8	77	se.	11	4.9		6 cs	2 k		se.	0	0	cloudy	R. H. Paxton.
Kittyhawk, North Carolina	29.99	761.7	30.01	762.2	63	17.2	93	se.	8	3.6		1 c;hz	0			0	0	clear	E. A. Beals.
Knoxville, Tennessee	28.92	734.6	29.93	760.2	61.5	16.4	87	se.	3	1.3		4 k	0	sw.		0	0	fair	J. A. Cody.
La Crosse, Wisconsin	29.07	738.4	29.83	757.7	50	10.0	58	n.	8	3.6			10 s			0.14	3.6	cloudy	S. C. Emery.
La Mesilla, New Mexico	26.09	662.7	29.81	757.2	63.8	17.7	37	se.	6	2.7		1 c	0			0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.04	737.6	29.92	760.0	50	10.0	77	nw.	6	2.7		3 k	0	nw.		0.21	5.3	clear	A. W. Browne.
Lewiston, Idaho	29.18	741.2	30.00	762.0	57.2	14.0	64	calm	0	0		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.52	749.8	29.82	757.4	67	19.4	90	w.	6	2.7		0	9 s			0.55	14.0	cloudy	W. U. Simmons.
Los Angeles, California	29.58	751.3	29.97	761.2	58.2	14.6	93	ne.	4	1.8			fg.		calm	0	0	dense fog	E. F. Kubel.
Louisville, Kentucky	29.14	740.1	29.69	754.1	69	20.6	66	s.	12	5.4			10 s			0	0	threatening.	H. C. Smyth.
Lynchburg, Virginia	29.29	744.0	29.96	761.0	67.0	19.4	84	sw.	8	3.6			10 ks		sw.	0	0	cloudy	W. R. Bushby.
Madison, Wisconsin	28.73	729.7	29.72	754.9	42	5.6	93	n.	20	8.9			10 n			0.74	18.8	light rain	C. A. Shaw.
Marquette, Michigan	29.22	742.2	29.94	760.5	45	7.2	60	ne.	3	1.3			10 s		calm	0	0	cloudy	J. Gilligan.
Memphis, Tennessee	29.47	748.5	29.80	756.9	67	19.4	93	s.	8	3.6			10 n			0.36	9.1	light rain	D. T. Flannery.
Milwaukee, Wisconsin	28.87	733.3	29.61	752.1	43	6.1	93	n.	35	15.6			10 n			0.39	9.9	light rain	W. Line.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Mobile, Alabama	29.90	759.4	29.94	760.5	72	22.2	84	w.	2	0.9	.....	4 cs	3 k	sw.	.....	0	0	fair	J. D. Paxton.
Montgomery, Alabama	29.74	755.4	29.97	761.2	71	21.7	90	sw.	4	1.8	.....	.....	10s;fg	.....	s.	0	0	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	29.09	738.9	30.06	763.5	46	7.8	76	n.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	H. Bessant.
Morgantown, W. Virginia	28.87	733.3	29.87	758.7	68.0	20.0	78	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.63	600.2	29.75	755.6	31.0	— 0.6	92	nw.	63	28.2	.....	.....	fg.	.....	nw.	0.50	12.7	dense fog	J. G. Livsley
Nashville, Tennessee	29.26	743.2	29.78	756.4	69.0	20.6	70	s.	6	2.7	.....	10 cs	0	sw.	.....	0	0	cloudy	L. A. Jesunofsky.
New Haven, Connecticut	29.86	758.4	29.97	761.2	58	14.4	80	sw.	5	2.2	.....	6 cs	0	w.	.....	0	0	fair	J. H. Sherman.
New London, Connecticut	29.94	760.5	29.99	761.7	62	16.7	73	s.	7	3.1	.....	6 k	0	sw.	.....	0	0	fair	J. G. Lynch.
New Orleans, Louisiana	29.87	758.7	29.92	760.0	74.3	23.5	81	sw.	2	0.9	.....	0	5 s	.....	sw.	0	0	fair	L. Dunne.
Newport, Rhode Island	29.94	760.5	29.99	761.7	55.4	13.0	79	sw.	10	4.5	.....	5 k	3 ks	w.	sw.	0	0	cloudy	W. McGillivray.
New River, N. Carolina	.....	.....	.....	.....	76	24.4	82	sw.	.....	.....	1	2 ck	3 s	w.	.....	1.45*	36.8*	fair	C. C. Corbin.
New Shoreham, Rhode I'd.	29.96	761.0	29.99	761.7	61.5	16.4	55	sw.	12	5.4	.....	6 c	0	w.	.....	0	0	fair	W. Davis.
New York, New York	29.83	757.7	30.00	762.0	57	13.9	77	s.	4	1.8	.....	3 cs	0	sw.	.....	0	0	clear	J. B. Merrill.
Norfolk, Virginia	29.98	761.5	30.01	762.2	68	20.0	90	s.	8	3.6	.....	1 ck	hz.	sw.	.....	0	0	clear	J. T. Elker.
North Platte, Nebraska	27.18	690.4	29.98	761.5	45.6	7.6	83	nw.	7	3.1	.....	0	4 s	.....	.....	0.12	3.0	fair	E. F. Brady.
Olympia, Washington T'y	29.88	758.9	29.92	760.0	57.0	13.9	93	calm	0	0	.....	0	sk.	.....	calm	0	0	clear	J. Dascomb.
Omaha, Nebraska	28.82	732.0	29.96	761.0	49.8	9.9	77	n.	12	5.4	.....	.....	10 k	.....	n.	0.36	9.1	cloudy	A. Pollak.
Ogdaamie, Pt. Barrow, Alas.	29.62	752.3	29.64	752.8	27.0	— 2.8	100	n.	18	8.0	.....	.....	10 s	.....	.....	0	0	cloudy	P. H. Ray.
Oswego, New York	29.59	751.6	29.91	759.7	57.2	14.0	79	s.	1	0.4	.....	10 cs	0	w.	.....	inap.	inap.	cloudy	S. W. Beall.
Palestine, Texas	29.42	747.3	29.96	761.0	64.0	17.8	87	ne.	7	3.1	.....	.....	10 ks	.....	nw.	0	0	threatening	L. M. Pindell.
Pensacola, Florida	29.91	759.7	29.94	760.5	77.3	25.2	84	s.	8	3.6	.....	0	4 s	.....	s.	0	0	fair	M. McGauran.
Philadelphia, Pa.	29.89	759.2	29.99	761.7	61	16.1	72	s.	7	3.1	.....	2 ck	2 s	se.	n.	0	0	fair	T. F. Townsend.
Pike's Peak, Colorado	17.76	451.1	29.58	751.3	14.5	— 9.7	100	n.	32	14.3	.....	.....	fg.	.....	nw.	0.15	3.8	dense fog	L. M. Dey.
Ploche, Nevada	24.10	612.1	29.90	759.4	56.4	13.6	40	nw.	6	2.7	.....	10 c	0	n.	.....	0	0	cloudy	C. N. Kitchel.
Pittsburg, Pennsylvania	29.02	737.1	29.82	757.4	62.5	16.9	68	e.	4	1.8	.....	7 ck	0	sw.	.....	0	0	fair	J. H. Bryce.
Poplar River, Montana	28.07	713.0	.....	.....	.....	.....	.....	se.	.....	.....	1	0	0	.....	.....	0.07	1.8	clear	U. D. Maxwell.
Port Eads, Louisiana	29.94	760.5	29.95	760.7	76.6	24.8	90	s.	10	4.5	.....	0	1 k	.....	s.	0	0	clear	H. G. Christian.
Port Huron, Michigan	29.01	736.8	29.68	753.9	51.8	11.0	100	se.	7	3.1	.....	.....	10 n	.....	.....	0.71	18.0	light rain	W. O. Bailey.
Portland, Maine	29.84	757.9	29.88	758.9	57.0	13.9	64	w.	6	2.7	.....	.....	10s;hz	.....	.....	0	0	cloudy	W. W. Eichelberger.
Portland, Oregon	29.81	757.2	29.88	758.9	65.5	18.6	78	nw.	1	0.4	.....	0	1 s	.....	calm	0	0	clear	M. L. Hearne.
Portsmouth, N. Carolina	.....	.....	.....	.....	75	23.9	76	s.	8	3.6	.....	10 k	0	sw.	.....	0	0	cloudy	F. P. Chaffee.
Prescott, Arizona	24.77	629.1	29.79	756.7	68	20.0	35	s.	11	4.9	.....	0	0	.....	.....	0	0	clear	J. McN. Wright.
Provincetown, Mass.	29.93	760.2	29.96	761.0	59	15.0	75	sw.	8	3.6	.....	0	5 s	.....	.....	0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	30.02	762.5	30.04	763.0	80	26.7	80	se.	14	6.3	.....	10 cs	0	w.	.....	0	0	cloudy	W. J. Evans.
Red Bluff, California	29.52	749.8	29.88	758.9	67.0	19.4	51	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.59	751.6	29.82	757.4	75.8	24.3	82	se.	6	2.7	.....	0	1 s	.....	se.	0	0	clear	P. M. Wilson.
Rochester, New York	29.23	742.4	29.88	758.9	56	13.3	80	e.	4	1.8	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	E. W. McGann
Roseburg, Oregon	29.37	746.0	29.92	760.0	59	15.0	84	calm	0	0	.....	3 c	0	sw.	.....	0	0	clear	J. J. Nanry.
Sacramento, California	29.83	757.7	29.90	759.4	58.4	14.7	80	s.	11	4.9	.....	0	2 s	.....	s.	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.09	738.9	29.68	753.9	57.7	14.3	96	nw.	18	8.0	.....	.....	10 s	.....	nw.	0.52	13.2	threatening	J. H. Webber.
St. Paul, Minnesota	29.07	738.4	29.92	760.0	47.0	8.3	68	n.	13	5.8	.....	3 ck	0	n.	.....	0	0	clear	P. F. Lyons
St. Vincent, Minnesota	29.29	744.0	30.14	765.5	47	8.3	68	n.	9	4.0	.....	1 c	2 ks	calm	calm	0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.69	652.5	29.91	759.7	56	13.3	42	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.22	742.2	29.90	759.4	68	20.0	93	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	E. Lane.
San Diego, California	29.87	758.7	29.94	760.5	59.8	15.4	84	s.	3	1.3	.....	.....	10 s	.....	s.	0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.02	737.1	29.69	754.1	58	14.4	87	s.	12	5.4	.....	.....	10 s	.....	.....	0.65	16.5	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.96	761.0	30.00	762.0	59.0	15.0	70	sw.	4	1.8	.....	3 ck	0	sw.	.....	0	0	clear	B. A. Blundon.
San Francisco, California	29.93	760.2	30.00	762.0	53.5	11.9	90	w.	7	3.1	.....	.....	fg.	.....	w.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.29	591.6	29.80	756.9	48	8.9	52	s.	11	4.9	.....	1 ck	0	s.	.....	inap.	inap.	clear	H. U. Jones.
Savannah, Georgia	29.94	760.5	30.03	762.7	77	25.0	76	sw.	7	3.1	.....	1 ck	5 s	.....	.....	0	0	fair	H. W. Ford.
Shreveport, Louisiana	29.66	753.4	29.89	759.2	68	20.0	84	w.	9	4.0	.....	.....	10 s	.....	w.	0	0	threatening	E. N. Meekins.
Silver City, New Mexico	24.28	616.7	29.78	756.4	62	16.7	41	sw.	15	6.7	.....	0	0	.....	.....	0	0	clear	J. B. Wallace.
Sitka, Alaska	30.18	766.6	30.24	768.1	47.6	8.7	77	sw.	9	4.0	.....	.....	10 n	.....	sw.	0.59	15.0	light rain	J. J. McLean.
Smithville, North Carolina	29.99	761.7	30.03	762.7	75	23.9	84	w.	8	3.6	.....	1 k	1 s	nw.	.....	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.03	711.9	30.07	763.8	55	12.8	69	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	28.91	734.3	29.58	751.3	54	12.2	86	nw.	16	7.2	.....	.....	10 s	.....	nw.	3.79	96.3	cloudy	T. B. Jennings.
Springfield, Massachusetts	29.84	757.9	29.97	761.2	58.0	14.4	75	s.	4	1.8	.....	9 k	0	s.	.....	0	0	cloudy	T. S. Outram.
Springfield, Mo.	28.46	722.9	29.92	760.0	52.5	11.4	80	nw.	11	6.3	.....	.....	10 ks	.....	nw.	0.78	19.8	cloudy	J. B. Marbury.
Starkville, Miss.	29.46	748.3	29.93	760.2	68.9	20.5	84	s.	14	6.3	.....	3 cs	0	.....	.....	0	0	clear	M. J. Wright.
Stockton, Texas	27.06	687.3	29.98	761.5	64.0	17.8	58	n.	8	3.6	.....	.....	10 s	.....	n.	0	0	cloudy	J. O'Dowd.
Thatcher's Island, Mass.	29.89	759.2	29.94	760.5	55.0	12.8	80	w.	11	4.9	.....	.....	10s;hz	.....	.....	0	0	cloudy	G. Liebmann.
Toledo, Ohio	28.98	736.1	29.66	753.4	59	15.0	87	se.	5	2.2	.....	.....	10 n	.....	sw.	0.74	18.8	light rain	A. Buell.
Tucson, Arizona	27.52	699.0	29.82	757.4	68	20.0	40	e.	4	1.8	.....	1 c	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.60	751.8	29.96	761.0	59	15.0	65	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. Daly.
Uvalde, Texas	28.93	734.8	29.87	758.7	70	21.1	90	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	E. C. Imlay.
Vicksburg, Mississippi	29.68	753.9	29.93	760.2	68	20.0	90	s.	3	1.3	.....	4 c	2 k	.....	sw.	0	0	fair	H. P. Brisbane.
Visalia, California	29.51	749.5	29.88	758.9	66	18.9	54	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. L. Seward.
Washington, D. C.	29.86	758.4	29.97	761.2	61.5	16.4	88	s.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	B. M. Purssell.
West Las Animas, Colorado	26.17	664.7	29.95	760.7	48	8.9	86	calm	0	0	.....	0	8 s	.....	nw.	0.14	3.6	cloudy	F. W. Brandenburg.
Williamsport, Pa.	29.32	744.7	29.92	760.0	61	16.1	75	ne.	1	0.4	.....	.....	10 ks	.....	w.	0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	29.96	761.0	30.01	762.2	74	23.3	85	sw.	11	4.9	.....	1 cs	0	sw.	.....	0	0	clear	A. T. Sherwood.
Winnemucca, Nevada	25.64	651.2	29.90	759.4	57	13.9	49	ne.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Yankton, Dakota	28.75	730.2	30.03	762.7	42	5.6	74	n.	14	6.3	.....	0	0	.....	.....	0.12	3.0	clear	J. H. Atfield.
Yuma, Arizona	29.63	752.6	29.77	756.1	75.3	24.1	65	se.	3	1.3	.....	0	1 s	.....	se.	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.03	559.6	.....	.....	55.0	12.8	69	calm	0	0	.....	0	3 ks	.....	w.	0.02	0.5	fair	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.03	762.7	30.04	763.0	81	27.2	95	ne.	.....	.....	.....	.....	10 n	.....	.....	.....	.....	light rain	J. A. Racker.
Buenaventura, U. S. C.	29.96	761.0	29.99	761.7	74	23.3	100	calm	0	0	.....	.....	10 n	.....	.....	0.30	7.6	raining	J. I. Plume.
Havana, Cuba, W. I.	30.02	762.5	30.07	763.8	84	28.9	80	calm	0	0	.....	6 cs	0	.....	.....	0	0	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.03	762.7	30.04	763.0	80.2	26.8	73	calm	0	0	.....	3 cs	2 ks	.....	e.	0	0	.....	Robert Johnston.
Magua, San Domingo, W. I.	.....	.....	.....	.....	71	21.7	.....	calm	.....	.....	0	0	0	.....	.....	0	0	.....	S. M. Pike.
Paramaribo, S. A.	30.04	763.0	30.04	763.0	77	25.0	91	e.	.....	.....	2	5 ck	5 k	e.	e.	0.200	5.1	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.47	748.5	29.93	760.2	79	26.1	85	se.	.....	.....	2	0	8 ks	.....	se.	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	95	ne.	.....	.....	1	7 ck	0	se.	.....	0.42	10.7	.....	Earl Flint.
Santiago de Cuba, W. I.	30.01	762.2	30.04	763.0	80	26.7	82	calm	0	0	.....	2 c	0	.....	.....	0	0	fair	Robert Mason.
York Factory, B. A.	30.00	762.0	30.05	763.3	31.0	— 0.6		n.	9	4.0	.....	1 c	1 s	n.	n.	0	0	fair	Fortesque & Wood.

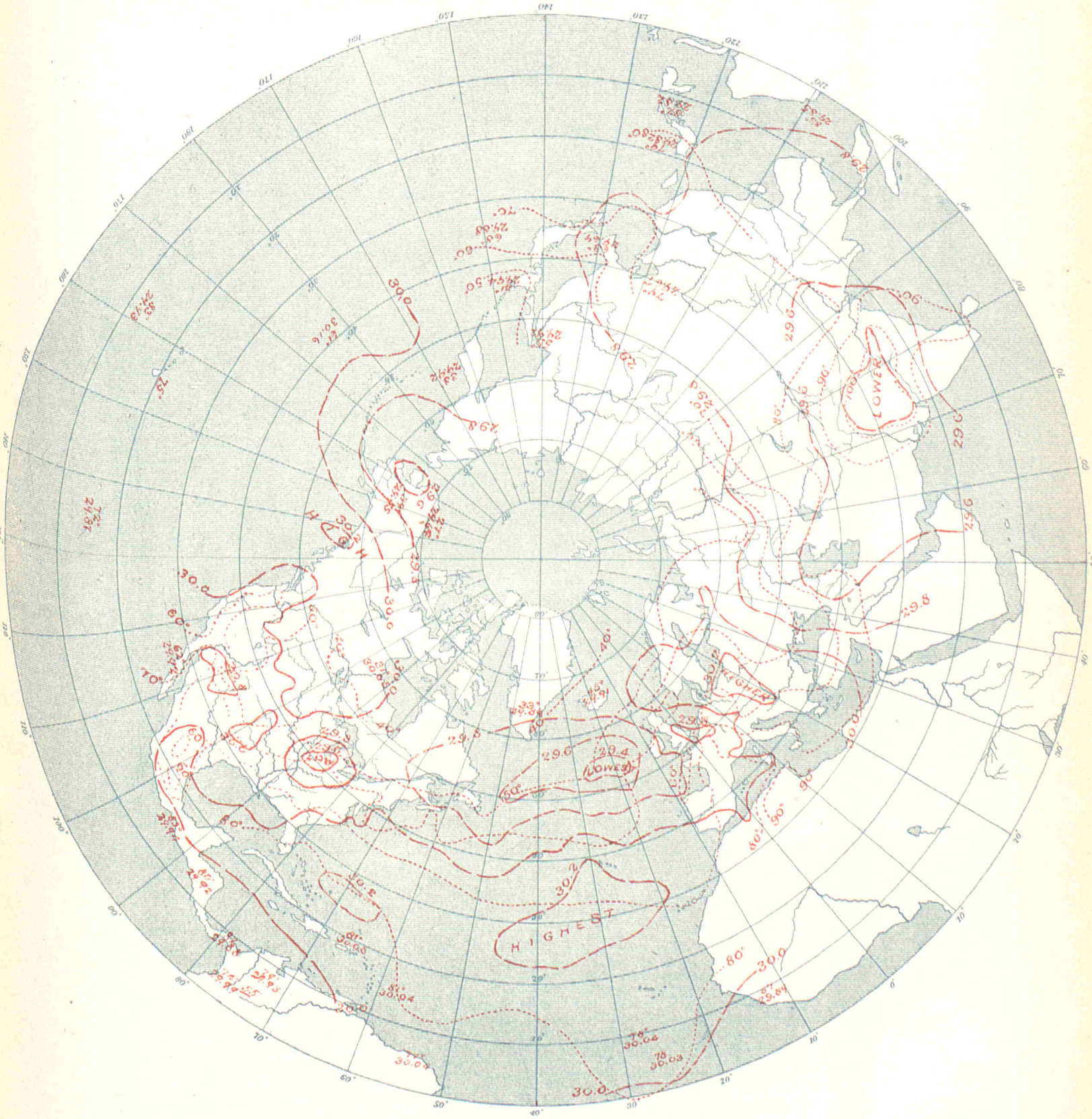
* Rainfall for last two days.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
British Naval.																		
H. M. S. Alert, S. 27° 34′ E. 35° 04′	30.04	763.0	73	22.8	73	ssw.			2		3							d. clouds.
H. M. S. Alexandra, Suda Bay, Turkey in Europe	30.07	763.8	74	23.3	68	ese.			3		2	e.						d. clouds.
H. M. S. Amethyst, S. 14° 14′, W. 33° 28′	30.04	763.0	80	26.7	98	e.			4-5		7	ese.				2	ese.	d. clouds.
H. M. S. Bacchante, N. 36° 52′, E. 21° 18′	30.02	762.5	75	23.9	81	nw.			3		1	wnw.				1	nw.	blue sky.
H. M. S. Boadica, Simon's Bay, Cape Colony	30.12	765.0	64	17.8		nnw.			1-2		2	nw.						d. clouds.
H. M. S. Champion, Honolulu, Sandwich Islands			75	23.9		ne.			2-4		4	calm						squally.
H. M. S. Cleopatra, N. 22° 22′, E. 115° 27′	29.69	754.1	79.5	26.4	90	se.			1		2	calm						d. clouds.
H. M. S. Cruiser, N. 36° 15′, E. 22° 00′	30.01	762.2	76	24.4		wsw.			1		3	ese.				1	ene.	d. clouds.
H. M. S. Diamond, S 22° 55′, E. 165° 45′	29.97	761.2	74	23.3	95	nw.			1		10					1	e.	raining.
H. M. S. Dido, N. 11° 10′, W. 60° 42′	30.02	762.5	81	27.2		e.			3-5		5	ene.				4	e.	squally.
H. M. Dock-Yard, Bermuda, W. I.	30.13	765.3	75	23.9	95	sw.			2-3		3	ssw.						d. clouds.
H. M. S. Druid, N. 18° 25′, W. 77° 09′	30.03	762.7	80.5	26.9	84	ese.			1		2	ese.				2	ese.	d. clouds.
H. M. S. Dwarf, S. 25° 16′, W. 57° 45′	29.78	756.4	59.5	15.3	94	calm			0		5							d. clouds.
H. M. S. Eclipse, S. 15° 00′, E. 40° 45′	30.04	763.0	79	26.1		sse.			1-2		1							blue sky.
H. M. S. Emerald, S. 54° 47′, W. 93° 35′	29.49	749.0	44	6.7	?	n.			5							4	n.	overcast.
H. M. S. Euryalus, Bombay, India.	29.60	751.8	80	26.7	91	w.			4		10	w.						raining.
H. M. S. Espiegle, S. 26° 31′ E. 174° 20′	29.95	760.7	71	21.7	85	n.			3		8					3	n.	d. clouds.
H. M. S. Fawn, S. 18° 29′, E. 59° 19′	30.02	762.5	77	25.0	70	ssw.			1		3	ssw.				1	s.	d. clouds.
H. M. S. Fantome, N. 11° 16′, W. 78° 45′	29.88	758.9	83	28.3		nne.			4-5		4	ne.				5	nne.	d. clouds.
H. M. S. Flying Fish, N. 37° 27′, E. 126° 33′	29.69	754.1	62.5	16.9	91	wsw.			1		10							raining.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.12	765.0	50	10.0	93	calm			0		10							foggy.
H. M. S. Inconstant, Saint Helena Island, Africa	30.22	767.6	70	21.1	79	ese.			3-4		8	ese.						squally.
H. M. S. Iron Duke, N 34° 41′ E. 135° 12′	29.79	756.7	72	22.2	95	calm			0		10							misty.
H. M. S. Kingfisher, Off Taboga Island, Panama Bay	29.88	758.9	82	27.8		n.			1		10							thnd'rstorm.
H. M. S. Lark, S. 9° 58′, E. 159° 15′	29.90	759.4	82.3	27.9		ese.			4		5					2	s.	d. clouds.
H. M. S. Magpie, N. 35° 26′, E. 139° 33′	29.83	757.7	69.6	20.9	84	ssw.			1-2		3	w.						d. clouds.
H. M. S. Minotaur, N. 45° 34′, W. 8° 24′	29.77	756.1	60	15.6	88	s.			4		3					3	s.	misty.
H. M. S. Nelson, S. 41° 17′, E. 174° 48′	29.64	752.8	56	13.3	93	calm			0		8							d. clouds.
H. M. S. Northampton, Halifax, Nova Scotia	29.78	756.4	59.5	15.3		sw.			2		3	wnw.						d. clouds.
H. M. S. Orontes, N. 39° 35′, W. 31° 05′	30.21	767.3	64.5	18.1	91	sw.			3		2	wsw.				3	wsw.	d. clouds.
H. M. S. Rambler, Landana, Lower Guinea	29.96	761.0	74	23.3	100	calm			0		10						ssw.	overcast.
H. M. S. Rocket, Esquimalt, Vancouver Island	29.89	759.2	58	14.4	93	calm			0		1							blue sky.
H. M. S. Sappho, S. 26° 06′, W. 80° 20′	30.30	769.6	62.5	16.9		se.			4		7	se.				2	se.	d. clouds.
H. M. S. Swiftsure, Maderia, Maderia Island, Africa	30.21	767.3	70.5	21.4	67	wnw.			2		6	wsw.				3	wsw.	d. clouds.
H. M. S. Sylvia, S. 5° 37′, W. 27° 53′	29.89	759.2	80.5	26.9	78	ese.			5-6		5	ese.				4	ene.	d. clouds.
H. M. S. Tenedos, N. 47° 34′ W. 52° 41′	29.62	752.3	48	8.9	85	wsw.			2		6							d. clouds.
H. M. S. Triumph, Coquimbo, Chili	30.10	764.5	50	10.0	93	calm			0		10	calm						foggy.
H. M. S. Woodlark, N. 22° 34′, E. 59° 51′	29.43	747.5	92.5	33.6	67	calm			0		0							misty.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verd Islands	30.08	763.9	79.3	26.3	83	nne.			1		1					1		blue sky.
Tamega, Macao, China	29.74	755.5	83.3	28.5	78	se.			3		2		sw.					d. clouds.
United States Naval.																		
Navy Yard, Pensacola, Fla.	29.90	759.4	79	26.1	82	s.	7	3.1			5		ssw.	0	0			fair.
N. Yard, Portsmouth, N. H.	29.91	759.7	56	13.3	81	sw.	2	0.9			10		sw.					sprinkling.
Naval Hospital, Yokohama, Japan*	29.69	754.1	67.5	19.7	92	s.			2		1		w.	0	0			clear.
Adams, Mare Island, Cal.	29.98	761.5	56	13.3	94	sw.			1		10							cloudy.
Alaska, Callao, Peru	29.97	761.2	60	15.6	94	nw.			1		10			0	0	sm'h		cloudy.
Alert, Kobe, Japan*	29.72	754.9	73	22.8	67	nnw.			1		10		calm			sm'h		raining.
Alliance, Hampton Roads, Va.	30.01	762.2	66	18.9	94	s.			1		10			0	0	sm'h		cloudy.
Ashuelot, Kobe, Japan	29.84	757.9	70	21.1	100	calm			0		10							raining.
Brooklyn, Rio de Janeiro, Brazil	30.10	764.5	74	23.3	90	calm	0	0			8		calm	0	0	sm'h		fair.
Colorado, New York, N. Y.	29.98	761.5	64	17.8	62	sw.	5	2.2			5		wsw.	0	0			
Enterprise, Norfolk, Va*	29.84	757.9	80	26.7	78	sw.			3		8		n.					cloudy.
Essex, Montevideo, Uruguay	30.00	762.0	53	11.7	73	sw.			5		10		sw.			r'gh	sw.	overcast.
Franklin, Norfolk, Va.	30.03	762.7	66	18.9	94	ssw.	6	2.7			2		ssw.	0	0			fair.
Galena, N. 37° 27′, E. 9° 25′	30.05	763.3	80	26.7	82	ene.			1		0					sm'h		clear.
Independence, Mare Island, Cal.	29.97	761.2	55	12.8	?	sw.			3		10		wsw.	0	0			misty.
Iroquois, San Francisco, Cal*†	29.98	761.5	53	11.7	93	sw.			3		10							misty.
Kearsarge, Hampton Roads, Va.	30.01	762.2	65	18.3	94	ssw.			3		10					sm'h		cloudy.
Lackawana, N. 5° 09′, W. 79° 52′*	29.85	758.2	80	26.7	78	s.			1		2		s.			sm'h	sw.	clear.
Lancaster, Lisbon, Portugal*	30.01	762.2	68	20.0	90	w.			4		5		w.			sm'h		fair.
Marion, S. 34° 54′, W. 56° 13′	29.91	759.7	52	11.1	100	sw.			5		10		sw.	0	0	mod.	sw.	threatening
Michigan, Erie, Pa.	29.76	755.9	56	13.3	87	sse.			1		10		se.					raining.
Minnesota, Newport, R. I.	30.03	762.7	56	13.3	87	ssw.	5	2.2			8		w.					cloudy.
Monocacy, Nagasaki, Japan	29.81	757.2	74	23.3	90	s.			1		10		calm					cloudy.
New Hampshire, Newport, R. I.	29.97	761.2	59	15.0	70	sw.			2		8		w.			sm'h		fair.
Nipsic, N. 36° 59′, E. 2° 32′	30.04	763.0	72	22.2	76	w.			1		0					sm'h		clear.
Onward, Callao, Peru†	30.13	765.3	60	15.6	94	wnw.			2		10		s.			long	w.	cloudy.
Palos, Kobe, Japan	29.84	757.9	72	22.2	76	calm			0		10		calm					rainy.
Passaic, Washington, D. C.	30.00	762.0	63	17.2	?	s.			1		10							cloudy.
Pensacola, Callao, Peru	30.03	762.7	61	16.1	94	nw.	7	3.1			10		nw.	0	0	sm'h		foggy.
Powhatan, Norfolk, Va.	30.01	762.2	69	20.6	90	s.			2		2							clear.
Portsmouth, Portsmouth, Eng*†	30.00	762.0	64	17.8	100	wsw.			1		10					sm'h		overcast.
Quinnebaug, N. 29° 09′, W. 14° 35′	30.15	765.8	69	20.6	85	nnw.			1		8		calm			sm'h		cloudy.
Ranger, N. 26° 47′, W. 113° 57′*	29.92	760.0	62	16.7	88	nw.			1		8		calm	0	0	sm'h		foggy.
Richmond, Kobe, Japan*	29.79	756.1	72	22.2	76	calm			0		10		nw.	0.15	3.8			raining.
Saratoga, Cowes, Eng.	29.79	756.1	64	17.8	78	n.			0-1		10		n.	light	light	sm'h		cloudy.
St. Louis, League Island, Pa.	30.21	767.3	60	15.6	100	sw.	4	1.8			0			0	0			clear.
Swatara, N. 32° 03′ E. 126° 37′	29.55	750.6	66	18.9	89	ssw.			3		5		sw.			sm'h		fair.
Tennessee, Fort Monroe, Va.	30.03	762.7	66	18.9	94	s.			6		10		sw.					overcast.
Vandalia, Norfolk, Va*†	30.23	767.8	66	18.9	94	sse.			1		5		sw.					fair.
Wabash, Boston, Mass.	29.95	760.7	64	17.8	78	wsw.	6	2.7			8		w.	0	0			hazy.
Wachusetts, Fort Wrangle, Alaska	30.06	763.5	47	8.3	92	ssw.			1		10					sm'h		cloudy.
Wyoming, Port Royal, S. C.	30.02	762.5	73	22.8	90	ssw.	6	2.7			10		w.	0	0			overcast.
Yantic, Hampton Roads, Va*	29.99	761.7	65	18.3	94	s.			1		10							overcast.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
Allan Line.																		
S. S. Circassian, N. 53° 00′, W. 28° 55′*	29.40	746.7	48	8.9	92	wsw.			6		7		wsw.	4 h'r	4 h'r	4	w.	d. clouds.
S. S. Prussian, N. 41° 49′, W. 65° 50′*	29.89	759.2	50	10.0		w.			2		1		nw.	0	0	light	s.	clear.
S. S. Scandinavian, N. 42° 41′, W. 47° 08′*	29.77	756.1	64	17.8		sw.			5		10		sw.	0	0	sm'h		overcast.
S. S. Waldensian, N. 55° 25′, W. 11° 13′*	29.65	753.1	55	12.8		se.			4		5		ese.	3 h'r	3 h'r	mod.	se.	fine.
American Steamship Company.																		
S. S. Illinois, Liverpool, Eng.	29.76	755.9	66	18.9	95	wnw.			3		10		nw.					overcast.
S. S. Indiana, Philadelphia, Pa.†	30.07	763.8	62	16.7	77	sw.			3		5		sw.					fair.
Anchor Line.																		
S. S. Devonia, N. 42° 36′, W. 49° 42′†	29.79	756.7	43	6.1		wsw.			3		10		wsw.			mod.	wsw.	dense fog.
S. S. India, Suez Canal, Egypt*	29.94	760.5	82	27.8	91	nw.			3		1							clear.
S. S. Utopia, Leghorn, Italy†	30.18	766.6	80	26.7	58	sw.			2		1		calm	0	0			clear.
Atlas Line.																		
S. S. Ailsa, N. 20° 29′, W. 73° 51′†	30.24	768.1	82	27.8	83	e.			3		2		se.	0	0	mod.	ese.	fair.
S. S. Alvena, Kingston, Jamaica, W. I.	29.84	757.9	82	27.8	91	calm			0		0			0	0			fine.
S. S. Alvo, N. 11° 00′, W. 75° 02′	30.08	764.0	103?	39.4?		s.			2		4?		w.	0	0			cloudy.?
S. S. Antillas, St. Marc Hayti, W. I.						ne.			1					0	0	sm'h	ne.	fine.
Boston and Halifax Line.																		
S. S. Carroll, Halifax, N. S.†	29.94	760.5	58	14.4		wsw.			2				sw.	0	0			clear.
British Meteorological Office.																		
Bk. Arran, S 40° 46′, E. 33° 40′	29.36	745.7	48.5	9.2	80	wsw.			6		9							d. clouds.
British Merchant, S. 3° 21′, W. 19° 30′	30.03	762.7	81.2	27.3	74	ene.			4		1							misty.
S. S. Cipero, N. 41° 38′, W. 28° 39′	30.07	763.8	59.6	15.3	88	w.			3		10							drizzling.
Bk Commewyne, N. 14° 28′, W. 42° 19′	30.07	763.8	81.4	22.4	70	ene.			4		8							d. clouds.
S. S. Gordon Castle, N. 21° 38′, E. 116° 34′	29.75	755.6	81	27.2	87	e.			2		2							blue sky.
Bkt. Hope, N. 44° 37′ W. 22° 37′	29.85	758.2	57.7	14.3	94	wnw.			5		10							overcast.
S. S. May Hulse, S. 47° 37′, W. 82° 39′	29.89	759.2	45.2	7.3	76	sw.			6		5							d. clouds.
S. S. Pole Star, S. 44° 40′ W. 45° 36′	29.40	746.7	48.6	9.2	92	nne.			4		8							threatening
Cromwell Line.																		
S. S. Hudson, N. 27° 58′, W. 87° 45′†	30.04	763.0	76	24.4		s.			4		6		s.	0	0	mod.	s	fair.
Cunard Line																		
S. S. Bothnia, N. 41° 18′, W. 54° 05′	29.96	761.0	63.3	17.4	100	n.			5		8?			12 h'r	12 h'r	mod.	w.	clear?
S. S Gallia, N. 41° 52′ W. 55° 24′	29.90	759.4	64	17.8	62	wnw.			5		0			0	0	mod.	w.	clear.
S. S. Scythia, Off Mine Head, Ireland	29.80	756.9	59.5	15.3	91	se.			2		9		se.	0	0	sm'h		overcast.
General Trans-Atlantic Company.																		
S. S. France, N. 42° 24′, W. 50° 17′†	29.87	758.7	46.4	8.0		wnw.			2	ck		w		0	0	sm'h	w.	clear.
S. S. Ville de Marseilles, N. 40° 28′, W. 65° 56′*†	29.95	760.7	63	17.2		w.			3		0			0	0	mod.	sse.	clear.
Guion Line.																		
S. S. Arizona, N. 41° 38′ W. 59° 48′	29.96	761.0	57	13.9		wnw.			5		2		nw.	1 h'r	1 h'r	mod.	wnw.	
Hamburg American Packet Company.																		
S. S. Herder, N. 40° 05′, W. 63° 05′*†	29.99	761.7	65	18.3		nne.			1		0			0	0	sm'h	sw.	clear.
S. S. Lessing, N. 49° 29′, W. 18° 36′	29.58	751.3	60	15.6		w.			1		10		w.	0	0	sm'h	w.	cloudy.
S. S. Wieland, Barfleur, France	29.84	757.9	59	15.0		nw.			1		10			4 h'r	4 h'r			raining.
Inman Line.																		
S. S. City of Berlin, N. 51° —′, W. 14° —′	29.62	752.3				s.			4		1		ssw.	0	0	long	wsw.	clear.
S. S. City of New York, N. 50° 44′, W. 21° 07′	29.58	751.3				wnw.			6		5		wnw.	0	0	r'gh	nw.	fair.
Johnston Line.																		
S. S. Thanemore, N. 44° 28′ W. 36° 56′	29.90	759.4				sw.			1		8		w.	0	0	sm'h		fair.
Lampert and Holt's Line.																		
S. S. Hevelius, N. 34° 00′ W 14° 00′*†	30.31	769.9	69	20.6		wnw.			2		2		nnw.	0	0	long	nw.	clear.
Mallory Line.																		
S. S. Colorado, Key West, Fla.†	30.03	762.7	85	29.4		e.			4		5		ne.	0	0			hazy.
Merchants' Express Line.																		
S. S. Freja, N. 33° 38′, W. 68° 43′†	30.18	766.6	76	24.4	95	sw.			4		5?		sw.	0	0	sm'h		overcast.?
Merchants' Steamship Company.																		
S. S. Glenfyne, N. 15° 21′, W. 53° 03′	29.63	752.6				ene.			5				e.	0	0	r'gh	e.	clear.
S. S. Glenapp, Santos River, Brazil*†	30.00	762.0				ese.			2		4		ene.					light rain.
National Line.																		
S. S. Canada, N. 48° 00′, W. 20° 41′†	29.73	755.1	54	12.2		nw.			3		10		n.	0	0	sli't	nw.	fine.
S. S. Denmark, New York, N. Y.	29.99	761.7	62	16.7		s.			3		8		s.	0	0			cloudy.
S. S. England, N. 40° 42′, W. 60° 04′	30.06	763.5				ne.			4		2		ne.	0	0	sm'h		clear
S. S. Holland, N. 40° 34′ W. 65° 24′	30.07	763.8	55	12.8		ssw.			2		1		sw.	0	0	mod.	sw.	clear.
New York and Cuba Mail Steamship Company.																		
S. S. Santiago, Cienfuegos, Cuba, W. I.†	30.07	763.8	82	27.8		calm.			0		1			0	0			fine.
S. S. Saratoga, Havana, Cuba, W. I.†	30.29	769.4	83	28.3	79	calm			0		0			0	0			
New York, Havana and Mexican Mail.																		
S. S. City of Alexandria, N. 32° 55′, W. 76° 20′*†	30.16	766.1	71	21.7	100	sse.			7		10		s.	4 h'r	4 h'r	mod.	se.	rainy.
S. S. City of Puebla, Havana, Cuba, W. I.†	29.98	761.5	81	27.2		e.			1		2		ne.					fair.
S. S. City of Washington, N. 18° 38′, W. 92° 47′*†	30.20	767.1	83	28.3		e.			1				e.	0	0	sm'h		clear.
New York Herald Weather Service.																		
S. S. Lone Star, N 27° 35′ W. 79° 50′*†	30.30	769.6	82	27.8		s.			1							sm'h		cloudy.
S. S. Mass, N. 40° 02′ W. 60° 00′*†	30.07	763.8	58	14.4		wnw.			1							high	sw.	
North German Lloyd																		
S. S. Elbe, N. 53° 30′ W. 5° 03′	29.89	759.1	60.8	16.0	89	se.			4		5?		se.	c	0	sm'h		cloudy ?
S. S. Graf Bismarck, N. 19° 20′, W 22° 40′	30.16	766.1	69.8	21.0		ne.			5–6		5		ne.			r'gh	ne.	hazy.
S. S. Hohenzollern, N. 46° 05′, W. 25° 59′*	29.85	758.2	60	15.6		nw.			4		8		nw.	0	0	2	nw.	fair.
S. S. Oder, N. 41° 54′, W. 55° 04′	29.96	761.0	52.7	11.5		n.			1		10		n.	6 h'r	6 h'r	sm'h	wnw.	foggy.
S. S. Ohio, N. 40° 01′ W. 68° 32′	30.09	764.3				ssw.			3		0			0	0	sm'h	sse.	clear.
S. S. Rhein, N. 47° 37′, W. 28° 22′	29.75	755.6				nw.			4		9		nw.	0	0	mod.	nw	cloudy.
S. S. Salier, Bremerhaven, Germany	29.95	761.5	58.1	14.5		se.			5		8		se.	0	0			cloudy.
Occidental and Oriental Steamship Company.																		
S. S. Arabic, N. 36° 22′ W. 178° 21′*†	30.16	766.1	61	16.1	100	w.			2		8		nw.	0	0	mod.	nw.	d. clouds.
S. S. Belgic, N 24° 37′, E. 119° 22′†	29.90	759.4	79	26.1	90	e.			2		5		se.	0	0	sm'h		fair.
S. S. Gaelic, Hong Kong, China†	29.70	754.4	83	28.3	59	e.			1		1		se.					clear.
Ocean Steamship Company.																		
S. S. City of Augusta, New York, N. Y†	29.95	760.7				sw.			2		3		nw.	0	0			clear.
S. S. City of Columbus, N. 32° 06′ W. 80° 32′†	30.00	762.0				ssw.			4		10		ssw.	0	0	sm'h	ssw.	rainy.
S. S. Seminole, Frying pan Light Ship, N. C.†	30.07	763.8	80	26.7	82	sw.			1				w.	0	0			
Oregon Improvement Company.																		
S. S. Willametta, Seattle, Wash. Ter.†	29.99	761.7	65	18.3	89	calm			0		0			0	0			hazy.
Oregon Railway and Navigation Company.																		
S. S. Oregon, San Francisco, Cal.†	29.99	761.7	51	10.6	86	calm			0									hazy.
Pacific Coast Steamship Company.																		
S. S. Ancon, San Francisco, Cal.†	29.92	760.0	53	11.7	93	w.			2		10		w.					foggy.
S. S. Dakota, Victoria, B. C.*†	30.01	762.2	57	13.9	81	calm			0							sm'h		clear.
S. S. Idaho, N. 44° 55′, W. 124° 09′†	30.16	766.1	56	13.3	87	nnw.			4		1		n.			mod.	nw.	cloudy.
S. S. Orizaba, N. 33° 42′, W. 118° 42′†	29.96	761.0	61	16.1	100	nw.			2				nw.	0	0	sm'h	nw.	overcast.
S. S. State of California, San Francisco, Cal.†	29.97	761.2	52	11.1	93	w.			2		10		w.					overcast.
S. S. Victoria, San Francisco, Cal.†	29.89	759.2	53	11.7	100	nw.			2		5					sm'h		foggy.
Pacific Mail Steamship Company.																		
S. S. City of New York, N. 11° 30′, W. 161° —′†	29.93	760.2	83	28.3	91	ne.			4		1		ne.	0	0	mod.	ne.	clear.
S. S. City of Pekin, N. 34° 40′ E. 144° 11′†	29.88	758.9	68	20.0	70	nne.			3		5		nw.	0	0	light	nw.	fair.
S. S. City of Rio de Janeiro, N. 14° 24′, W. 92° 44′*†	30.14	765.5	83	28.3	87	nne.			2		5		e.	0	0	mod.	sw.	fair.
S. S. City of Sydney, S. 33° 58′, E. 151° 58′†	29.81	757.2	62	16.7	72	sw.			3		10		w.	0	0	h'vy	sw.	threatening.
S. S. City of Tokio, N. 35° 31′, E. 141° 38′†	29.90	759.4	69	20.6	80	s.			1		2		sw.	0	0	mod.	ne.	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
PACIFIC MAIL STEAMSHIP COMPANY.—CONTINUED.																		
S. S. Clyde N. 16° 47′, W. 99° 48′†	30.01	762.2	86	30.0	88	calm			0		2		ne.	0	0	long	wnw.	clear.
S. S. Colima, N. 12° 13′, W. 87° 48′†	29.92	760.0	80	26.7	87	nw.			3		7		wnw.	0	0	mod.	e.	cloudy.
S. S. Colon, N. 26° 49′, W. 73° 58′†	30.21	767.3	81	27.2		sse.			4		3		s.	0	0	small	s.	fair.
S. S. South Carolina, Acajutla, San Salvador, C. A†	29.97	761.2	80	26.7	91	n.			2		1		var.	4 h'r	4 h'r	light	wsw.	
S. S. Zelandia, Sydney, N. S. W.	30.12	765.0	55	12.8	87	sw.			5		8		sw.			sm'h		squally.
QUEBEC S. S. COMPANY.																		
S. S. Muriel, Martinique, W. I.	29.93	760.2	81	27.2		ene.			5		2			light	light	sm'h		fair.
S. S. Bermuda, N. 20° 23′, W. 64° 45′†	30.20	767.1	82	27.8		ese.			4		3		se.	0	0	long	se.	
RED STAR LINE.																		
S. S. Nederland, N. 43° 21′, W. 36° 25′†	29.92	760.0	60	15.6		ssw.			1		8		ssw.	0	0	sm'h	wsw.	cloudy.
S. S. Rhynland, Jersey City, N. J.	30.06	763.5	62	16.7	77	sw.			2		3		sw.	0	0			clear.
S. S. Vaderland, Antwerp, Belgium	29.72	754 9	72	22.2	67	ese.			4		5		ese.	0	0			hazy.
ROTTERDAM LINE.																		
S. S. W. A Scholten, New York. N. Y.	29.96	761.0	67.6	19.8	86	w.			2		10			1 h'r	1 h'r			
STATE LINE.																		
S. S. State of Florida, Glasgow, Scotland	29.70	754.4	61	16.1		ne.			2		9		ne.	0	0			cloudy.
S. S. State of Georgia, N. 40° 26′, W. 64° 18′†	30.12	765.0	60	15.6		w.			3		0					slight	sw.	clear.
S. S. State of Indiana, N. 52° 16′, W. 19° 30′†	29.04	737.6	60	15.6		var.			3		5		var.	0	0	sm'h		
THINGVALLA LINE.																		
S. S. Thingvalla, N. 58° 20′, E. 1° 08′†	30.40	772.1	56.3	13.5	57	se.			2		2		se.	0	0	sm'h	se.	clear.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 40° 29′ W. 45° 30′	29.96	761.0									3		w.	3 h'r	3 h'r	sm'h		
WHITE STAR LINE.																		
S. S. Adriatic, N. 47° 31′. W. 33° 02′†	29.94	760.5	55	12.8	87	wnw.			6		10		wnw.	sh'rs	shr's	sl't	nnw.	d. clouds.
S. S. Britannic, N. 41° 04′, W. 68° 22′†	30.00	762.0	49	9.4	93	wsw.			4		2		w.	4 h'r	4 h'r	mod.	w.	blue sky.
S. S. Celtic, New York, N. Y†	30.01	762.2	63	17.2	83	s.			2		0			0	0			fine.
S. S. Republic, N. 51° 24′, W. 9° 36′†	29.91	759.7	59	15.0	94	se.			5		9		se.	0	0	sm'h		d. clouds.
WILSON LINE.																		
S. S. Romano, Off Start Point, Eng.	29.72	754.9	54	12.2										rain	rain	sm'h		cloudy.
MISCELLANEOUS.																		
Schr. Abbie Clifford, Orchilla Id., W I.*†	30.00	762.0	81	27.2		e.			5		7		e.	0	0	r'gh		fine.
Schr. Addie Fuller, Newport News, Va†	30.04	763.0	66	18.9	90	ssw.			3	0	1 s		sw.	0	0			clear.
Bk. Adelaide, N. 25° 25′, W. 66° 23′*†	30.23	767.8	82	27.8		se.			2		1		sse.	0	0	light	sse.	clear.
Schr. Ajax, Bl ckwater, Fla†	30.00	762.0				calm			0		1		sw.	0	0			clear.
Bk. Alpha, Guanatamo, Cuba, W. I†	30.00	762.0	80	26.7		n.			1		2		ne.	0	0			fair.
Schr. Annie Lewis, Mobile, Ala†	30.01	762.2	73	22.8		s.			1		8		s.	0	0			cloudy.
Bk. Anna Thormann, N. 0° 23′, W. 30° 07′	30.08	763.9	78.6	25.9	76	ese.			5		4 k		se.	0	0	short	se.	fair.
Antonio Lopez, Santander, Spain	29.89	759.2	64.5	18.1	75	nw.			4		2 k			0	0			clear.
Bk. Aureola. Rio de Janeiro, Brazil*†	30.24	768.1	79	26.1		calm			0		1		ne.	0	0			hazy.
Sch'r Annie M. Smull, N. 7° 20′ E. 108° 39′*†	29.90	759.4												2 h'r	2 h'r			cloudy.
Bk. Bergenseren, N. 42° 15′. W 32° 00′†	30.02	762.5	60	15.6		sw.			3				sw.	0	0	2	w.	fair.
Bk. Bremen, N. 44° 37′. W. 31° 04′						w.			5				w.	0	0	mod.	w.	fair.
Schr. C. R. Flint, N. 26° 13′, W. 89° 59′†	30.15	765.8	79	26.1		sse.			3		10		sse.	0	0	mod.	sse.	cloudy.
Schr. Edith R. Seward, Baltimore, Md*†	30.03	762.7				s.			1		3			0	0			clear.
Bk. E. J. Spicer, N. 49° 14′. W. 15° 15′†	29.72	754.9				ssw.			5		7		wsw.	6 h'r	6 h'r	mod.	se.	
S. S. Essex, N. 26° 50′ W. 37° 24′*†	30.27	768.8	74	23.3		ene.			4		6		ne.	1 h'r	1 h'r	long	ne.	cloudy.
S. Exporter, S. 39° 36′, E. 37° 30′*†	29.88	758.9				nnw.			6					24 h'r	24 h'r	cross		
Bk. Freya, N. 51° 25′, W. 22° 02′			58	14.4		w.			5		2		w.	0	0	mod.	ese.	hazy.
Bk. Godfrey, N. 44° 31′, W. 25° 25′	29.88	758.9	58.8	14.9	78	w.			5		4		w.	3 h'r	3 h'r	mod.	wsw.	fair.
S. Grecian, N. 3° 50′, E. 106° 55′*†	29.85	758.2	83	28.3		s.			3		2	nw.	ssw.	sq'ls	sq'ls	sm'h		fair.
S. Hedwig, N. 39° 34′, W. 72° 03′	30.06	763.6	52.3	11.3	95	s.			3		1		s.	0	0	long	sse.	clear.
Bk. Horace Scudder, Off Sandy Hook, N. J†.	29.91	759.7	64	17.8		sse.			1		5?		sw.	0	0			cloudy?
S. Ismir, S. 7° 20′, W. 34° 25′†	30.00	762.0				ese.			4		8		se.			r'gh		squally.
James Slater, N. 28° 22′, W. 45° 53′*†	30.50	774.7	78	25.6		sse.			2		0			0	0	mod	se.	fine.
Jennie N. Huddle, New York. N. Y.†	30.05	763.3	67	19.4	84	nw.			3		2		nw.	light	light			clear.
Schr. John L. Thomas, St. Andrew Id, W. I*†	29.98	761.5				ene.			6		10		e.	2 h'r	2 h'r			thnd'r storm.
Bkt. Josephine, N. 19° 50′ W. 74° 14′†	30.20	767.1	87	30.6	72	e.			1		0			½h'r	½h'r	long	ne.	hazy.
Bk. Julia H., Havana, Cuba, W. I.	30.04	763.0	78.2	25.7	88	calm			0		3							d. clouds
S S. Laurel, Off Cape St. George, Fla†	30.02	762.5	78	25.7		s.			2		10		s.	7 h'r	7 h'r	long	s.	
Bg. Medina, Annapolis, N. S†.	29.91	759.7				sw.			3		10		sw.					dull.
S. Minnie N. Gerow, N 40° 50′, W. 39° 15′*†	29.94	760.5				sw.			2		10		w.			sm'h	wsw.	hazy.
S. M. P. Grace, N. 33° 18′, W. 52° 05′*	30.13	765.3	70	21.1		w.			2				wsw.	0	0	sm'h	sw.	
S. S. Nebo, St. John's N. S.*†	30.14	765.5				se.			2		8		w.	0	0			very cloudy.
S. Paramita, S. 39° 47′ W. 47° 12′†	29.44	747.8	53	11.7		wsw.			6		7		w.	5 h'r	5 h'r	hv'y	cross	cloudy.
Bk. Pawashick, N. 44° 29′, W. 21° 03′*†	30.10	764 5	58	14.4	93	nnw.			6		10		nw.			cross	ne.	overcast
Bk. Peppina, Gironde River, France†	29.91	759 7	75	23.9	72	w.			2		5		w.	0	0			fair.
S. S. Ponca, S 3° 00′, W. 39° 10′†	29.91	759.7	86	30.0		se.			3		6		sse.	3 h'r	3 h'r	h'vy	e.	fair.
Bg. Potomac, N. 35° 35′, W. 69° 41′*†	30.00	762.0				s.			3				sw.	0	0	mod.	s.	cloudy.
Bk. Princessen, N. 49° 39′, W. 4° 42′	29.83	757.6	57	13.9		calm			0		10			0	0	sm'h		hazy.
Bk. Rosebud, N. 3° 16′ W. 25° 31′*†	30.03	762.7	78	25.6	100	sse.			3		fg.			shr's	sh'rs	sharp	s.	
S. Salisbury, S. 41° 03′, E. 54° 01′*.	29.76	755.8	54.5	12.5	94	sw.			0-1		3		ne	12 h'r	12 h'r	long	sse.	clear.
Bk. Stella, N. 14° 56′, W. 135° 41′*.	29.87	758.7	72.1	22.3	90	nne.			3		5		ne.	0	0	sm'h	ne.	
Bg. Teneriffe, N. 36° 20′, W. 74° 07′	30.00	762.0				se.			1		0			0	0	sm'h		clear.
Bk. Truro, Havre, France*†	29.81	757.2				nnw.			1		5		ssw.	1 h'r	1 h'r			foggy
U. S. F. C. S. Fish Hawk, Havre de Grace, Md†	30.12	765.0	63	17.2	100	ssw.			4		10		sw.	0	0			cloudy.
Yacht Vega, St. Thomas Id., W. I.*†	30.28	769.1	82	27.8		e.			3				ene	¾ h'r	¾ h'r		ene.	
S. S Victoria J. Peed, Salamanca Id, U. S. C*†	29.11	739.4				calm			0		8							threatening
Bk. Vincenzo Accame, N. 37° 50′, W. 56° —†.	30.20	767.0	75.2	24.0		nw.			4									
Schr. Viola Reppard. Brunswick, Ga†	29.88	758.9	77.5	25.3		s.			1		2		sw.	16 h'r	16 h'r			clear.
S. Warden Law, N. 40° 15′, W. 72° 20′						s.			4					0	0	sm'h		dense fog.
Bk. Wm. Wilcox, N. 8° 42′, W. 30° 00′*†	30.19	766 8	78	25.6		e.			1		10		calm	8 h'r	8 h'r	mod	e.	cloudy.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 4, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours			29.99	761.8	74.3	23.5	62	se.			2		4			0	0	cloudy	Moiroud
Algiers			30.04	762.9	78.4	25.8	46	wnw.			5		0			0	0	clear	Nicolas.
La Galle			30.02	762.5	82.4	28.0	57	nnw.			1		2			0	0	fair	Fonfrède.
Tunis			30.03	762.8															Jacques.
Saida			30.14	765.5	75.9	24.4	46	ese.			1		1			0	0	very fair	Peres.
Tebessa			30.13	765.2	88.5	31.4	13	sw.			3		0			0	0	clear	Derché.
Geriville					88.9	31.6	11	w.			1		1			0	0	very fair	Lonchamp.
Laghouat			30.13	765.3	95.7	35.4	32	ne.			4		1			0	0	very fair	Abraham.
Biskra			30.12	765.1	100.4	38.0	10	se.			2		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	30.28	769.1	30.37	771.4	44.2	6.8	91	ssw.	2	0.9			2			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.42	747.2	29.94	760.5	78.1	25.6	44	sw.			3		2			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.25	742.9	29.99	761.8	69.1	20.6	41	e.	7.4	3.3			7			0	0		Dr. Wierzbiski.
Eperies	29.14	740.1	29.99	761.7	69.4	20.8	45	calm			0	2 cs	0	w.		0	0		Julius Mikolik.
Gratz	28.76	730.5	29.97	761.2	69.1	20.6	77	s.			2		3			0	0		Andreas Rospini.
Hermannstadt	28.65	727.6	30.05	763.3	65.3	18.5	39	nw.			3		2			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.60	726.3	29.88	759.0	72.0	22.2	63	nw.			1		10			0.224	5.7	covered	The Staff.
Lemberg	29.08	738.5	30.04	763.1	63.1	17.3	39	se.			1		5			0	0		Dr. T. Stanecki.
Pola	29.92	759.9	30.02	762.6	78.1	25.6	46	sse.			2		9			0	0		I. R. Hydrographic Office.
Szathmar	29.65	753.1	30.10	764.6	69.4	20.8	32	ne.			2		0			0	0		Joseph Midlinszky, S. J.
Szegedin	29.75	755.6	30.02	762.6	64.0	17.8	58	s.			1		5			0	0		Karl Stancel.
Trieste	29.94	760.5	30.04	763.1	77.7	25.4	47	calm			0		10			0	0		Royal Academy.
Vienna	29.26	743.1	29.95	760.7	70.9	21.6	42	se.			4		9			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.32	744.7	29.41	747.0	61.7	16.5	59	sw.	15	6.7			9			0.005	0.1	overcast	W. Boswell
Armagh, Observatory	29.20	741.7	29.44	747.8	61.2	16.2	74	sse.	15	6.7									S. Call.
Bidston, Liverpool Obs'y			29.55	750.6	61.1	16.2	77	sse.	14	6.3			8					overcast	John Hartnup.
Bolton, Sharples	29.04	737.6	29.56	750.8	57.8	14.3	81	ssw.	12	5.4			10					overcast	Thomas Mackereth, A.S.
Bradford, Yorkshire																0.53	13.5		J. McLandsborough, F. R
Bridgetown, Barbadoes					82.0	27.8	76	ne.			3		3					d. clouds	Corpl. J. Surgenor, A. H. C.
Cardington			29.62	752.3	68.0	20.0	72	sw.			2.0		7						John McLaren.
Chatham, School M. E.	29.60	751.8	29.73	755.1	66.0	18.9	70	s.			2		6					d. clouds	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.47	748.5	29.69	754.1	60.2	15.7	76	sw.			5		9					overcast	The Staff.
Fort Napier, Natal	27.55	699.8	29.77	756.1	72.0	22.2	26	se.			1		0					blue sky	Pvt. Lane, A. H. C
Free Town, Sierra Leone	29.62	752.3	29.86	758.4	84.0	28.9	79	sw.			2		3					lightning	Sergt. John Robinson.
Gibraltar, Mediterranean	30.05	763.3	30.10	764.5	76.6	24.8	76	nw.			3		0					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.18	741.2	29.39	746.5	59.5	15.3	81	sw.			4		10 n					gloomy	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.54	750.3	29.70	754.4	64.6	18.1	63	ssw.			4		7					d. clouds	The Staff.
Guernsey	29.48	748.8	29.78	756.4	61.0	16.1	86	wsw.			3		6					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.67	753.6	29.71	754.6	63.2	17.3	75	ssw.	21	9.4			7					threatening	The Staff.
Leicester, Museum	29.36	745.7	29.61	752.1	62.4	16.9	69	sw.			1		8					d. clouds	J. C. Smith.
Malta, Mediterranean	30.00	762.0	30.08	764.0	81.4	27.4	32	e.			3		0					blue sky	I. H. Whysall.
Nassau, Bahamas	30.11	764.8	30.16	766.1	81.0	27.2	88	se.			1		4			blank	blank	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.10	739.1	29.60	751.8	61.1	16.2	73	s.			4		8					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.43	747.5	29.66	753.4	63.4	17.4	63	ssw.			5		5					squally	The Staff.
Plymouth	29.61	752.1	29.68	753.9	60.0	15.6	82	sw.			4		10					overcast	John Merrifield.
Sandwick Manse, Orkneys			29.37	746.0	55	12.8	73	sw.	20	8.9			10					raining	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.98	761.5	30.04	763.0	70.0	21.1	37	ne.			2		3					d. clouds	W. H. Lyne.
Sheffield	29.33	745.0	29.60	751.8	65.3	18.5	68	s.			1		10			0.30	7.6	overcast	W. F. Cooper.
Silloth Rectory	29.49	749.0	29.52	749.8	57.5	14.2	84	sw.			2		0			0.040	1.0	blue sky	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.58	751.3	61.0	16.1	70	s.	19	8.5			10			blank	blank	overcast	J. New.
Stratfield Turgiss	29.48	748.8	29.69	754.2	66.3	19.1	64	sw.			3		4					squally	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	29.67	753.6	29.68	753.9	63	17.2	67	sw.			7		5					d. clouds	W. Newcombe.
Valencia, Observatory	29.52	749.8	29.54	750.3	57.4	14.1	74	sw.	30	13.4			7			blank	blank	d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.02	762.5	30.06	763.5	46	7.8	83	ne.	3	1.3		0	2 s		se.	0.015	0.4	fair	H. J. Cundall, C. E.
Chatham, N. B*	30.01	762.2	30.07	763.8	47	8.3	86	e.	3	1.3			10 ks		e.	0.05	1.3	cloudy	G. A. Blair.
Father Point, Quebec*	29.96	761.0	29.99	761.7	44	6.7	89	ne.	14	6.3		8 c	2 s	calm	calm	inap.	inap.	cloudy	J. McWilliams.
Halifax, N. S*	29.92	760.0	30.05	763.3	57	13.9	69	e.	6	2.7		2 ck	0	w.		inap.	inap.	fair	A. Allison.
Kingston, Ontario*	29.27	743.4	29.60	751.8	53	11.7	90	nw	10	4.5			10 n			0.61	15.5	light rain	A. P. Knight, M. A.
Montreal, Quebec*	29.46	748.3	29.66	753.4	50	10.0	96	se.	16	7.2			10 n			0.51	13.0	light rain	C. H. McLeod, C. E.
Parry Sound, Ontario*	28.89	733.8	29.52	749.8	50	10.0	96	e.	10	4.5			10 n		se.	0.08	17.3	light rain	Rev. R. Mosley.
Port Dover, Ontario	28.96	735.6	29.65	753.1	48	8.9	85	sw.	18	8.0			10 n			0.64	16.3	threatening	H. Morgan.
Port Stanley, Ontario	28.99	736.3	29.63	752.6	48	8.9	80	sw.	32	14.3			10 n		sw.	0.57	14.5	cloudy	M. Payne.
Quebec, Quebec*	29.56	750.8	29.88	758.9	46	7.8	93	ne.			5		10 n		ne.	0.18	4.6	light rain	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.15	740.4	29.61	752.1	49	9.4	86	se.	8	3.6			10 s		se.	0.25	6.3	light rain	W. H. McIntyre.
Saugeen, Ontario*	28.81	731.8	29.51	749.5	49	9.4	89	s.	4	1.8			10 s			0.82	20.8	light rain	
St. Andrews, N. B	29.91	759.7	29.96	761.0	47	8.3	89	se.	5	2.2			10 n			0.02	0.5	light rain	
Sydney, C. B*	30.01	762.2	30.07	763.8	46	7.8	68	n.	9	4.0		2 c	0			0.03	0.8	clear	T. C. Hill, C. E
Toronto, Ontario*	29.24	742.7	29.62	752.3	49	9.4	83	sw.	20	8.9			10 ks		sw.	1.38	35.1	cloudy	Magnetic Observatory.
Yarmouth, N. S*	29.90	759.4	29.97	761.2	50	10.0	96	e.	2	0.9			10 k		e.	0	0	cloudy	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest																			Wm. Wylie.
St. Johns, Newfoundland	29.93	760.2	30.19	766.8	42	5.6	100	w.	2	0.9		5 k	5 s			0	0	cloudy	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	29.98	761.5	30.01	762.2	62.0	16.7	62	wsw.	18.2	8.1		0	8 s			0	0	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	30.21	767.3	30.25	768.3	62.5	16.9	59	wsw.	10	4.5		6	8			0.345	8.7		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
CHINESE (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai.	29.85	758.1	29.87	758.6	68.2	20.1	82	se.	7.2	3.2		9 ck	0	w.		0	0	covered	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.80	756.8	29.84	758.0	63.7	17.6	54	sse.	27	12			10						Oversergent Fischer.
Fanöe	29.73	755.1	29.75	755.6	57.7	14.3	100	wsw.			4		10						Overloerer Lauridsen.
Godthaab, Greenland	29.66	753.3	29.70	754.4	33.4	0.8	92	ne.			2		10			0	0		S. Kleinschmidt.
Stykkisholm, Iceland	29.56	750.7	29.60	751.8	41.0	5.0	84	e.			6		8						A. O. Thorlacius.
Thorshavn	29.52	749.9	29.56	750.8	48.9	9.4	95	ene.	16	7			10					raining	Overloerer Bergh.
Vestervig	29.63	752.7	29.72	755.0	59.7	15.4	90	calm			0		10					raining	Loerarer Oesterboi.
FRENCH.																			
Agen, Normal School	29.37	745.9	30.00	762.0	69.4	20.8	59	calm			0		n;kn		w.	0	0		M. Labroue, Director.
Alençon, Normal School	29.34	745.2	29.89	759.2	63.3	17.4	98	sw.			2		n	n.	n.	0.031	0.8		M. Nicot, Director.
Arras, Engineer School	29.55	750.5	29.80	756.8	64.0	17.8	75	sw.			4		kn		sw.	0	0		M. Fénéon, Command't.
Avignon, Normal School	29.85	758.3	29.93	760.3	78.8	26	66	sw.			1		10			0	0	covered	M. Giraud, Director.
Bar-sur-Seine	29.36	745.7	29.90	759.4	68.0	20.0	64	sw.			1		10		w.	0.532	13.5	covered	M. Saillard, Director.
Beauvais, Normal School	29.58	751.2	29.83	757.7	69.4	20.8	61	sw.			2		8		wsw.	0	0	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.01	736.9	29.83	757.6	71.8	22.1	80	sw.			1		10 n		ne.	0.031	0.8	raining	M. Gobin, Director.
Bordeaux, Observatory	29.76	755.9	30.02	762.5	62.1	16.7	75	w.			1		10		wsw.	0.224	5.7	covered	M. Rayet, Director.
Bourges, Normal School	29.40	746.8	29.94	760.5	64.8	18.2	71	nw.			1	ck	0	nw.		0.287	7.3		M. Postel, Director.
Brest, Naval Observatory	29.61	752.0	29.85	758.2	65.1	18.4	82	sw.			2		8		sw.	0.362	9.2		M. de Kermaree, Dir.
Caen, Normal School	29.67	753.7	29.75	755.6	59.7	15.4	85	ssw.			2		10			0.437	11.1	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.55	750.5	29.86	758.4	69.1	20.6	64	ssw.			2		5		w.	0.264	6.7	cloudy	M. Jadot, Director.
Charleville, Normal School	29.29	744.0	29.79	756.6	70.2	21.2	49	sw.			1		10			0.161	4.1	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.58	725.9	29.89	759.2	69.3	20.7	54	wsw.			2		10		sw.	0.004	0.1	covered	M. Alluard, Director.
Cluny, Normal School	29.08	738.7	29.90	759.4	66.2	19	80	nw.			4		8		s.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.06	738.0	29.89	759.3	68.5	20.3	68	sw.			1		kn	sw.	sw.	0.677	17.2		Dr. Coulet, Director.
Gap, Normal School	27.45	697.2	29.88	758.9	76.6	24.8	42	n.			1		2 k		w.	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.84	732.6	29.89	759.3	90.1	32.3	27	se.			2		9		se.	0	0		M. Kina, Director.
Grenoble, Normal School	29.10	739.0	29.83	757.6	74.5	23.6	59	nnw.			3		ks			0	0		M. Ablard, Director.
Guéret, Normal School	28.42	721.8	29.95	760.7	69.8	21	74	sw.			2		5		sw.	0	0	cloudy	M. Rivoire, Director.
Lamballe, Normal School	29.60	751.8	29.87	758.8	61.7	16.5	65	sw.			2		5		sw.	0.335	8.5	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.45	747.9	29.99	761.7	78.8	26	54	nw.			1		5			0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.78	756.3	29.88	758.9	60.8	16.0	79	sw.			6		10			0.047	1.2	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.87	733.2	29.91	759.6	79.5	26.4	60	nnw.			2		10		ssw.	0	0	covered	M. André, Director.
Mans, Normal School	29.54	750.3	29.84	757.9	64.6	18.1	71	ssw.			3		8		ssw.	0.059	1.5	very cloudy	M. Piboen, Director.
Marseille, Observatory	29.66	753.3	29.92	760.0	77.2	25.1	58	s.			2.3		10		sw.	0	0		M. Stephan, Director.
Montlouis	24.87	631.6	29.71	754.6	62.2	16.8	53	sw.	15.0	6.7			4		se.	0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.77	756.1	29.89	759.3	71.6	22	82	ese.			2		10					light rain	M. Galzin, Director.
Nancy, Normal School	29.09	738.8	29.85	758.3	65.8	18.8	83	s.			1		kn			0.378	9.6		M. Hasse, Director
Nantes, Observatory	29.79	756.6	29.95	760.7	63.9	17.7	60	wsw.			2–3		10 n		wsw.	0.319	8.1		M. Larocque, Director.
Perpignan, Observatory	29.84	757.9	29.94	760.5	77.5	25.3	48	nw.	11.2	5.0			6		s.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit.	21.27	540.2			41.0	5.0		sw.			1		10		sw.	0.008	0.2	covered	Gen'l de Nansouty, Dir.
Privas, Normal School	28.80	733.0	29.87	758.8	77.4	25.2	47	n.			1		2	sw.	sw.	0	0	slightly cl'dy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.11	637.8			49.1	9.5	100	w.			4		10			0.004	0.1	foggy	M. Alluard, Director.
Rochefort, Naval Obs'y	29.96	761.0	29.99	761.8	64.4	18.0	100	sw.			1		10		w.	0.12	3.	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.73	755.1	29.95	760.6	65.1	18.4	66	sw.			3		5	w.	sw.	0.110	2.8	cloudy	M. Moullot, Director.
Rodez, Normal School	27.85	707.3	29.95	760.8	63.0	17.2	80	w.			1		kn			0	0		M. Seger, Director.
Rouen, Normal School	29.74	755.5	29.79	756.7	65.8	18.8	64	ssw.			1		8	nne.		0.024	0.6	very cloudy	M. Brotier.
Saint Maur, Observatory	29.72	755.0	29.89	759.2	63.3	17.4	75	ssw.			1		10		sw.	0.012	0.3		M. Renou, Director.
Toulouse, Observatory	29.34	745.1	30.06	763.5	68.0	20.0	66	nw.			2		10					raining	M. Baillard, Director.
Tours	29.72	755.0	29.90	759.5	66.6	19.2	64	sw.			1		8 n		sw.	0.154	3.9	very cloudy	M. de Tastes.
Versailles, Observatory	29.39	740.6	29.89	759.1	65.1	18.4													Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.60	751.9	29.89	759.3	65.7	18.7	64	sw.			2		10		sw.	0.004	0.1		M. Marié Davy, Director
GERMAN.																			
Bamberg	29.05	737.8	29.90	759.4	72.0	22.2	73	se.			3	0	8 ks		s.	0.08	2.		Prof. Dr. Hoh.
Berlin	29.72	755.0	29.90	759.4	71.1	21.7	58	s.			3		6			0.008	0.2		Prof. Dr. Arndt.
Breslau	29.48	748.7	30.01	762.2	70.5	21.4	33	sse.			2		10			0	0		Royal University Obs'y.
Carlsruhe	29.46	748.3	29.89	759.1	70.2	21.2	73	wsw.			2		10	sw.		0.087	2.2	light rain	Albert Senz.
Cassel	29.08	738.7	29.80	759.8	75.0	23.9	63	sw.			1		10	sw.		0.457	11.6	thund'r st'm	Dr. H. Möhl.
Frankfort-on-the-Main	29.63	752.7	29.99	761.8	72.3	22.4	76	sw.			1		7			0.295	7.5		Physical Society.
Friedrichshafen	28.49	723.7	29.85	758.4	76.3	24.6	59	ssw.			1		3	sw.		1.850	47.0		Wilhelm, Chief Tel.
Hamburg	29.73	755.1	29.82	757.5	62.0	17.0	92	sw.			3		10			0.705	17.9		E. Preller.
Kiel	29.74	755.3	29.75	755.7	63.5	17.5	84	calm			0		10			0.134	3.4		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.42	747.3	29.83	757.6	71.6	22.8	66	s.			3		9	sw.		0	0		H. Leppig, Asst.
Magdeburg	29.61	752.1	29.79	756.7	71.4	21.9	70	s.			2	c	7 k		sw.	0.118	3.0		Dr. Assmann.
Memel	30.06	763.5	30.11	764.7	61.9	16.6	68	wnw.			2	3 c	0						Issermann.
Munich	28.15	715.0	30.01	762.3	75.0	23.9	46	calm			0		10	sw.		0	0		Central Station
Neufahrwasser	30.01	762.2	30.02	762.6	73.4	23.0	35	se.			2		2			0	0		A. Lothes.
Neustadt, Palatinate																0.118	3.0		Dickneither.
Stuttgart	28.91	734.3	29.76	755.9	75.2	24.0	57	e.			1		8	w.		0.287	7.3		Prof. Dr. Schoder.
Wustrow	29.80	756.8	29.82	757.5	72.1	22.3	88	se.			3		10s			0.157	4.0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.72	754.9			71.4	21.9		sw.			2.5		2			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.48	748.7	29.53	749.9	88.0	31.1	76	w.	35.0	15.6			4		w.	0	0	misty	
Deesa	28.94	735.2	29.39	746.5	105.3	41.3	37	ssw.	11.5	5.1			5	ene.	ene.	0	0	d. clouds	
Bombay	29.58	751.3	29.62	752.3	78.7	25.9	90	s.	35.0	15.6			10		s.	4.19	106.4	overcast	
Poona, Yarrowda	27.77	705.3	29.63	752.7	71.8	22.1	82	sw.	14.0	6.3			10		w.	0.44	11.2	drizzling	
Trichinopoly	29.48	748.7	29.75	755.7	90.3	32.4	43	w.	5.0	2.2			6			0	0	d. clouds	
Bellary	28.20	716.1	29.65	753.0	82.3	27.9	59	w.	11.5	5.1			8	w.		0	0	d. clouds	
Belgaum	27.15	689.5	29.70	754.3	70.1	21.2	93	wsw.	17.0	7.6			10		sw.	2.92	74.2	showery	
Lahore	28.65	727.7	29.35	745.4	104.3	40.2	18	calm	3.0	1.3			0			0	0	misty	
Roorkee	28.49	723.7	29.35	745.5	94.2	34.6	31	ne.	3.2	1.4			3			0	0	thunder	
Agra	28.72	729.5	29.25	742.9	105.1	40.6	15	nw.	4.7	2.1			0			0	0	blue sky	
Nagpur	28.48	723.4	29.52	749.7	78.2	25.7	87	e.	12.0	5.4			10		w.	0.19	4.8	overcast	
Jubbulpore	28.16	715.2	29.47	748.6	89.6	32.0	45	s.	6.9	3.1			9		se.	0	0	overcast	
Lucknow	29.04	737.6	29.40	746.6	105.4	40.8	28	ssw.	2.0	0.9			0			0	0	blue sky	
Allahabad	29.06	738.2	29.35	745.6	106.1	41.2	25	calm	4.0	1.8			1	nw.		0	0	d. clouds	
Patna	29.29	744.0	29.47	748.5	92.0	33.4	53	ene.	6.6	3.0			4	ene.	ene.	0	0	d. clouds	
Hazaribagh	27.53	699.3	29.52	749.8	78.3	25.7	63	nnw.	8.2	3.7			10			1.01	25.6	thund'r st'm	
Cuttack	29.40	746.7	29.48	748.7	92.7	33.7	43	ene.	1.3	0.6			7			0	0	d. clouds	
Calcutta, Alipore	29.46	748.4	29.48	748.9	92.7	33.7	64	sse.	5.0	2.2			6			0	0	d. clouds	
Dhubri	29.43	747.4	29.54	750.4	81.9	27.7	77	calm	5.2	2.3			0			0.09	2.3	blue sky	
Chittagong	29.46	748.2	29.55	750.4	78.7	25.9	83	calm	5.7	2.3			8			0	0	d. clouds	
Sibsagar	29.24	742.8	29.58	751.2	83.0	28.3	79	ne.	1.0	0.4			6	w.	w.	0	0	d. clouds	
Jeypore	28.02	711.7	29.39	746.6	98.6	37.0	26	ne.	5.1	2.3			9	ne.		0	0	d. clouds	
Zanzibar, Africa	29.99	761.7			82.1	27.8	65	s.	5.1	2.3			6		ese.	0	0	d. clouds	
ITALIAN.																			
Udine	29.63	752.7	30.03	762.8	77.0	25.0	70	w.	1.8	0.8			9			0	0		Prof. Giovanni Clodig.
Milan	29.49	749.1	29.99	761.7	81.1	27.3	41	se	3.1	1.4			8	wsw.		0	0		Prof. Schiaparelli.
Padua	29.89	759.3	30.00	762.0	77.5	25.3	46	ese.	7.4	3.3			6	w.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.08	738.5	29.95	760.6	79.2	26.2	50	se.	3.1	1.4			9			0	0		Prof. P. F. Denza.
Genoa	29.81	757.2	30.00	761.9	77.9	25.5	57	sw.	2.5	1.1			10	sw.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.11	714.1	29.95	761.0	76.8	24.9	48	nw.			2		4	sw.		0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Pesaro	29.95	760.6	29.99	761.8	75.6	24.2	62	se.	7.4	3.3			8			0	0		Prof. Luigi Guidi.
Florence	29.71	754.5	29.95	760.8	86.0	30.0	47	nw.			2		2			0	0		Prof. Costantino Pitter.
Leghorn	29.84	757.8	29.92	759.9	79.2	26.2	62	s.	1.8	0.8			10	wsw.		0	0		Prof. P. Monte.
Rome	29.83	757.6	30.00	761.9	88.0	31.1	20	sw.	18.1	8.1			2			0	0		Prof. P. S. Ferrari.
Lecce	29.83	757.7	30.08	763.9	83.1	28.4	18	sw.	12.5	5.6			0			0	0		Prof. C. de Giorgi.
Cosenza	29.21	741.8	30.06	763.4	84.2	29.0	74	sse.	1.3	0.6			0			0	0		Prof. D. Conti.
Cagliari	29.74	755.4	29.93	760.1	78.3	25.7	64	se.			4		0			0	0		Prof. A. Pacinotti.
Palermo	29.80	756.9	30.04	763.1	84.9	29.4	33	ene.	4.9	2.2			0			0	0		Prof. G. Ciacciatore.
Syracuse	30.00	761.9	30.00	762.0	79.7	26.5	70	s.	9.8	4.4			3	s.		0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.51	749.6	30.02	762.4	82.9	28.3	40	w.	5.6	2.5			0			0	0		Prof. T. Brioschi.
Stelvio	22.28	566.0			53.6	12.0	39	sw.			6		8			0.252	6.4	misty	Prof. P. F. Denza.
Valdobbia	22.34	567.4			49.8	9.9	71	n.			6		10			0.236	6.0	covered	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.89	759.2	29.92	759.9	50.0	10.0	91	e.	9.9	4.4			10 n		e.	0.373	9.5	light rain	K. Ogawa.
Hakodate	29.99	761.7	30.00	762.0	48.0	8.9	86	e.	18.0	8.0			10			0.140	3.5	covered	
Hiroshima, I. M. Obs'y	29.61	752.1	29.63	752.6	70.4	21.3	75	sw.	6.5	2.9		1 ck	0	s.		inap.	inap.	clear	I. Sogawa.
Kanazawa	29.80	756.9	29.91	759.7	61.1	16.2	94	nnw.	8.4	3.8			10 s			1.780	45.2	dull	S. Endo.
Kioto	29.48	748.8	29.64	752.8	68.1	20.1	93	sw.	1.5	0.7			10 n			0.208	5.3	light rain	M. Tojima.
Kochi	29.66	753.3	29.68	753.9	70.4	21.3	93	n.	3.0	1.3			10 s		se.	0.298	7.6	cloudy	K. Kusunose.
Nagasaki, I. M. Obs'y	29.59	751.6	29.79	756.6	64.6	18.1	86	n.	8.2	3.7		0	0			0	0	clear	S. Takehayashi.
Nemuro	30.04	763.0	30.11	764.8	42.0	5.6	89	calm	0	0		10	0	w.		0	0	overcast	
Niigata	29.60	751.8	29.63	752.6	61.0	16.1	96	e.	3.6	1.6			10 n			0.785	19.9	raining	M. Morita.
Nobiru	29.77	756.1	29.78	756.4	54.0	12.2	92	ne.	18.4	8.2			10 n			2.190	53.6	raining	H. Midzushina.
Supporo					48.9	9.4	86	se.	3.0	1.3			3			0	0	fair	
Tokei Obs'y, Yeddo	29.62	752.5	29.67	753.6	68.8	20.4	91	sse.	9.7	4.3			10 s			0	0	cloudy	The Staff.
Wakayama	29.61	752.1	29.66	753.3	69.9	21.1	82	ssw.	0.3	0.1		ck	10 n			0.194	4.9	cloudy	Y. Kuwamuea.
MAURITIUS																			
Mauritius Observatory	29.91	759.7	30.10	764.5	76.2	24.6	72	wnw.	7.0	3.1		0	6 k;ks		sw.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.71	602.2	29.93	760.2	60.1	15.6	81	n.				2 ck	0	sw.		0.709	18.0	clear	Prof. Vicente Fernandez.
Leon	24.31	617.5	29.94	760.5	60.8	16.0	90	nnw.			1	2 c	1 k	sw.		0.591	15.0	clear	Prof. M. Leal.
Mazatlan	29.67	753.6	29.92	760.1	76.0	24.4	91	n.	1.6	0.8		0	9 n		sw.	inap.	inap.	very cloudy	F. Quijano, C. E.
Mexico, Central Obs'y	23.12	587.3	30.13	765.4	56.1	13.4	87	w.				5 c	2 k	s.		0.055	1.4	clear	The Staff.
Morelia	24.23	615.3	30.30	769.5	59.0	15.0	60	e.			4	2	3	s.	s.	0	0	½ clouded	M. Tena, M. D.
Pabellon, Aguascalientes	23.93	607.8	29.84	757.8	63.7	17.6	95	n.			1					0.320	8.0		M. V. de Leon, M. E.
Puebla, Catholic Institute	23.41	594.7	30.14	765.6	53.6	12.0	88	calm	0	0		0	0			0.394	10.0	clear	Prof. P. Spina.
San Luis Potosi	24.21	614.9	30.15	765.7	64.6	18.1	79	se.					10		w.	0.079	2.0	covered	G. Barroeta, M. D.
Zacatecas	22.59	573.7	30.19	766.9	53.0	11.8	92	e.	4.5	2.0			10			0.432	11.0	gloomy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.81	757.2	29.81	757.2	68.5	20.3		sw.			3					0	0		
Groningen	29.74	755.3	29.79	756.7	67.5	19.7		w.			1					0	0		
Helder	29.78	756.5	29.78	756.5	61.9	16.6		sw.			4					0	0		
Hellevoetsluis	29.80	756.8	29.80	756.8	71.6	22.0	49	sw.			2					0	0		
Utrecht	29.76	756.0	29.81	757.2	70.3	21.3	57	wsw.			2		5			0.236	6.0	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.58	751.3	29.64	752.9	64.4	18.0	58	sse.	4	2			7			0.031	0.8	raining	
Brono	29.76	756.0	29.80	757.0	59.0	15.0	68	n.	18	8			2			0	0		
Christiania	29.69	754.2	29.84	757.8	65.8	18.8	49	sw.	11	5			10			0	0		
Gjesvær	29.82	757.3	29.84	757.9	39.2	4.0		nnw.			4		10						
Lodingen	29.97	761.2	30.02	762.4	45.9	7.7	68	w.			4		8			0.083	2.1		
PORTUGUESE.																			
Angra, Azores					64.0	17.8	92	w.	7.4	3.3			4			0	0		Dr. J. A. Sampaio.
Campo Major	29.18	741.2	30.17	766.2	69.8	21.0	46	nnw.	8.1	3.6			8			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.21	767.4	30.30	769.7	66.2	19.0	65	calm	0	0			10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.88	758.9	30.23	767.9	66.0	18.9	61	wsw.	7.4	3.3			9	nnw.		0.004	0.1		The Staff.
Ponta Delgada, Azores	30.13	765.4	30.21	767.2	65.5	18.6	94	wnw.	4.9	2.2			10			0.390	9.9	raining	
Saint Paul de Loando	29.76	755.9	29.96	761.0	75.7	24.3	83	wnw.	0.7	0.3			1	s.		0	0		
Serra da Estrella	25.40	645.1	30.16	766.1	47.5	8.6	64	wnw.	17.4	7.8			8			0.472	12.0		
RUSSIAN.																			
Akmolinski	28.62	727.0	29.63	752.6	80.8	27.1	24	se.	9	4		0	0			0	0		Major K. Lasarew.
Archangel	29.74	755.5	29.76	756.0	55.2	12.9	65	sw.	13	6			10			0.472	12.0		Capt. Sseliwerstow.
Astrakhan	29.64	752.9	29.56	750.8	73.0	22.8	53	wnw.	7	3			9 s			0	0		Capt. Wisganow.
Barnaul	29.35	745.5	29.82	757.4	77.5	25.3	28	calm	0	0			0			0	0		Meteorological Obs'y.
Dorpat	29.78	756.4	30.02	762.6	55.0	12.8	93	n.	9	4			10 n			0.189	4.8	raining	Observatory.
Ekaterinburg	28.95	735.3	29.92	759.9	46.0	7.8	92	ene.	9	4			10			0.024	0.6		Meteorological Obs'y.
Kazan	29.44	747.8	29.71	754.6	54.0	12.2	84	ne.	11	5			10 n			0.374	9.5		Observatory.
Kertch	29.68	753.8	29.70	754.3	62.6	17.0	54	nw.	22	10		5 ck	0			0	0		Lagorio & Sastyrez.
Kieff	29.29	744.0	29.92	759.9	59.4	15.2	39	n.	9	4		c	7 k;ks			0	0		Observatory.
Lugan	29.36	745.7	29.56	750.8	55.6	13.1	73	wnw.	31	14			10			0.437	11.1		Meteorological Obs'y
Moscow	29.34	745.1	29.80	756.8	62.4	16.9	43	ne.	7.8	3.5			6 ks						Meteorological Obs'y.
Nikolaiev	29.82	757.5	29.89	759.3	62.6	17.0	52	n.	22	10		0	8 kn			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor.	29.76	756.0	29.85	758.2	54.1	12.3	83	calm	0	0			2			0	0		Lieut. Iwanow.
Pekin, China	29.68	753.9	29.82	757.5	75.9	24.4	53	calm	0	0		3 cs	0			0	0		Physical Observatory
St. Petersburg	29.88	758.9	29.89	759.3	59.7	15.4	56	nw.	18	8		0	1 k			0	0		Central Physical Obs'y.
Semipalatinsk	29.15	740.3	29.76	755.8	82.0	27.8	18	n.	13	6		0	0			0	0		Major Lasarew.
Tashkend, Laboratory	28.05	712.4	29.50	749.4	85.3	29.6	50	calm	0	0			9						Teich, A. M.
Tiflis	28.13	714.5	29.48	748.8	71.8	22.1	62	n.	2	1			10			0.091	2.3		Physical Observatory
Vladivostock	29.90	759.4			55.0	12.8	100	calm	0	0			9 n						
Warsaw	29.64	752.8	30.05	763.2	69.1	20.6	38	sw.	4	2		0	4 k;ks						Astronomical Obs'y
Wilna	29.63	752.7	30.04	763.1	67.3	19.6	40	nnw.	4	2			4			0	0		Berg, Assistant.
SPANISH.																			
Barcelona, Met. Obs'y	29.81	757.2	29.91	759.7	72.3	22.4	70	e.	3.1	1.4			9			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	30.03	762.7	30.09	764.2	72.0	22.2	56	nw.	2.2	1.0		1	8	nw.		0.051	1.3	almost cov'd	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.13	689.2	30.06	763.6	61.3	16.3	59	w.	8.1	3.6			8			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.86	707.6	30.04	763.0	68.4	20.2	49	w.	11.9	5.3		0	4			0	0	cloudy	The Staff.
Murcia, Met. Obs'y	29.85	758.1	30.01	762.3	86.9	30.5	39	nnw.	1.6	0.7		1	3	se.		0	0	clouds	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.17	740.8	30.06	763.5	58.5	14.7	89	ssw.	8.1	3.6			10			0.280	7.1	light rain	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	30.00	762.1	30.07	763.7	82.5	28.1	76	calm	0	0		0	0			inap.	inap.	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.78	756.4	29.84	757.8	85.1	29.5	70	se.	1.5	0.7		0	2 ks		se.	0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.08	764.0	30.18	766.4	69.4	20.8	64	nw.	12.7	5.7		1	3	wnw.	wnw.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.06	763.5	30.15	765.8	82.4	28.0	79	e.	13.4	6.0		0	2 k		e.	0	0	clear	Manuel Maese.
Tuguegarao, Philippine Id's	29.70	754.4	29.83	757.7	84.0	28.9	78	ssw.	3.3	1.5		1 cs	5 k		sw.	0.09	2.3	cloudy	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.88	759.0	29.92	760.0	55.0	12.8	38	nw.			4		8			0	0		
Umea	29.91	759.8	29.97	761.1	59.0	15.0	43	sw.			4		6			0	0		
Hernosand	29.89	759.1	29.94	760.4	56.5	13.6	58	s.			4		0			0	0		
Stockholm	29.79	756.6	29.97	761.1	70.7	21.5	41	s.			2		1			0	0		
Wisby	29.95	760.6	30.00	762.1	61.5	16.4	61	nw.			2		5			0	0		
Sub-series.																			
Upsala	29.83	757.7	29.92	759.9	70.9	21.6	49	ssw.	9.8	4.4			5		w.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.47	723.2	29.83	757.7	79.2	26.2	40	ssw.			4					0.685	17.4	covered	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
SCOTTISH.																			
Monach Lt			29.40	746.7	59	15.0	93	w.			3	5	5	w.		0	0	hazy	J. Youngclause.
TURKISH.																			
Constantinople			30.09	764.3	63.5	17.5	37	nnw.	14	6.5			5		nnw.	0.016	0.4		The Observatory.
Valona			30.17	766.3	79.2	26.2		nw.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.80	756.9	77.0	25.0	58	w.			2	0	5 k		w.	0.06	1.5		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.57	751.1	29.65	753.1	65	18.3	90	sw.	3	1.3			10 s		sw.	0.25	6.3	cloudy	J. O. Barnes.
Alpena, Michigan	28.86	733.0	29.51	749.5	43	6.1	100	e.	14	6.3			10 s		e.	1.70	43.2	cloudy	Jas. J. Fitzgerald.
Atlanta, Georgia	28.80	731.5	29.95	760.7	65.0	18.3	73	nw.	9	4.0		9 k	0	w.		0	0	cloudy	H. Hall.
Atlantic City, New Jersey	29.70	754.4	29.70	754.4	61.3	16.3	100	sw.	10	4.5			fg.			0	0	dense fog	Jas. M. Watson.
Augusta, Georgia	29.76	755.9	29.95	760.7	76	24.4	71	sw.	7	3.1		8 k	0	sw.		0	0	cloudy	John Healy.
Baltimore, Maryland	29.68	753.9	29.72	754.9	71	21.7	82	w.	5	2.2			10 s		w.	0.01	0.3	cloudy	Robert Seybolt.
Barnegat, New Jersey	29.69	754.1	29.71	754.6	65.9	18.8	97	sw.	16	7.2			10 s			0.03	0.8	cloudy	Chas. F. Merritt.
Behring Island, Behring Sea	29.83	757.7	29.85	758.2	38.2	3.4		s.	13	5.8			10 s			0	0	cloudy	Dr. L. Steineger.
Bismarck, Dakota	28.40	721.3	30.15	765.8	41	5.0	82	nw.	3	1.3		1 k	0	s.		0	0	clear	Cyrus Cramer.
Boise City, Idaho	27.06	687.3	29.84	757.9	59.5	15.3	56	e.	2	0.9		2 k	0	calm		0	0	clear	B. E. Light.
Boston, Massachusetts	29.59	751.6	29.74	755.4	60.0	15.6	87	se.	7	3.1			10 s		se.	0	0	cloudy	O. B. Cole.
Brownsville, Texas	29.92	760.0	29.96	761.0	75.1	23.9	97	ne.	1	0.4			10 s		calm	0	0	cloudy	M. McCarty.
Buffalo, New York	28.92	734.6	29.66	753.4	49.7	9.8	72	sw.	30	13.4			10 s		sw.	0.15	3.8	cloudy	Wm. Finn.
Burlington, Vermont	29.34	745.2	29.63	752.6	56.0	13.3	93	calm	0	0			10 n		s.	0.84	21.3	light rain	G. C. Schaeffer.
Cairo, Illinois	29.63	752.6	30.02	762.5	61.6	16.4	68	nw.	8	3.6		0	0			0.01	0.3	clear	W. H. Clendenon.
Campo, California	27.40	695.9	29.88	758.9	38.2	3.4	73	s.	3	1.3		0	0			0	0	clear	W. H. Olendenon.
Camp Thomas, Arizona	27.15	689.6	29.78	756.4	63	17.2	45	se.			1	2 cs	0			0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	29.77	756.1	29.79	756.7	75	23.9	82	sw.	18	8.0		0	0			0	0	clear	A. K. Alderson.
Cape May, New Jersey	29.69	754.1	29.72	754.9	64	17.8	90	s.	16	7.2		5 ck	0	sw.		0.02	0.5	fair	W. Bolton.
Cedar Keys, Florida	30.00	762.0	30.02	762.5	79	26.1	91	sw.	12	5.4		6 ck	3 k	s.	sw.	0.11	2.8	cloudy	F. W. Mixer.
Champaign, Illinois	29.02	737.1	29.81	757.2	51.5	10.8	76	nw.	10	4.5		4 ck	0	nw.		0.01	0.3	fair	L. A. Welsh.
Charleston, S. Carolina	29.87	758.7	29.92	760.0	78	25.6	76	w.	10	4.5		5 c	0	sw.		0.14	3.6	fair	J. H. Smith.
Charlotte, N. Carolina	28.99	736.3	29.82	757.4	75.0	23.9	71	sw.	8	3.6		6 k	0	w.		0	0	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.20	741.7	30.01	762.2	59.0	15.0	75	nw.	2	0.9		2 ck	0	w.		0.58	14.7	clear	B. L. Goulding.
Cheyenne, Wyoming	24.17	613.9	29.91	759.7	40.2	4.6	92	s.	2	0.9		10 k	0	n.		0.06	1.5	cloudy	E. McGovern.
Chicago, Illinois	29.08	738.6	29.77	756.1	46.3	7.9	85	w.	9	4.0		9 k	0	nw.		0.11	2.8	cloudy	J. Mitchell.
Chincoteague, Virginia	29.73	755.1	29.75	755.6	68	20.0	93	s.	13	5.8		4 c	2 s		s.	0	0	fair	V. P. Temple.
Cincinnati, Ohio	29.26	743.2	29.91	759.7	53.5	11.9	75	sw.	7	3.1			10 s		w.	0.13	3.3	cloudy	R. B. Watkins.
Cleveland, Ohio	29.02	737.1	29.76	755.9	48.8	9.3	66	sw.	16	7.2			10 k		w.	0.17	4.3	cloudy	J. B. Newlin.
Coleman City, Texas	28.35	720.1	30.10	764.5	57	13.9	77	calm	0	0		2 ck	4 s	n.		0	0	fair	L. Dorman.
Columbus, Ohio	29.00	736.6	29.84	757.9	50	10.0	71	sw.	18	8.0			10 ks		w.	0.24	6.1	cloudy	D. Cuthbertson.
Concho, Texas	28.21	716.5	30.08	764.0	56	13.3	80	ne.	4	1.8		0	4 s			0	0	fair	W. W. McConihe.
Davenport, Iowa	29.24	742.4	29.87	758.7	51	10.6	86	nw.	7	3.1			10 ks		nw.	0.09	2.3	cloudy	R. R. Martin.
Dayton, Washington T'y	28.15	714.7	29.88	758.9	56.5	13.6	65	n.	4	1.8		3 c	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.52	648.2	29.95	760.7	43	6.1	86	w.	2	0.9		9 k	0	n.		0.04	1.0	cloudy	G. W. Scott.
Decatur, Texas					62	16.7	44	n.	2	0.9		0	0			0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	29.70	754.4	29.72	754.9	71	21.7	90	sw.	20	8.9		9 ck;k	0	sw.		0	0	cloudy	F. C. Pratz.
Denison, Texas	29.34	745.2	30.12	765.0	57.0	13.9	80	calm	0	0		10 ck	0	w.		0.02	0.5	cloudy	J. McGlone.
Denver, Colorado	24.76	628.9	29.80	756.9	47.0	8.3	80	e.	4	1.8		5 k	0	w.		0.16	4.1	fair	F. M. Neal.
Des Moines, Iowa	29.11	739.4	29.99	761.7	50	10.0	77	n.	8	3.6		10 ck	0	w.		0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.93	734.8	29.62	752.3	50.6	10.3	66	sw.	23	10.3			10 s		w.	0.41	10.4	cloudy	C. F. R. Wappenhaus.
Dodge City, Kansas	27.56	700.0	30.07	763.8	50	10.0	74	e.	8	3.6			10 s		sw	0	0	cloudy	E. A. Thomas.
Dubuque, Iowa	29.16	740.7	29.86	758.4	49	9.4	71	nw.	7	3.1			10 s		nw.	0.18	4.6	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.30	744.2	29.99	761.7	53	11.7	66	nw.	8	3.6		0	0			inap.	inap.	clear	N. B. Conger.
Eagle Pass, Texas	29.32	744.7	30.11	764.8	69.0	20.6	90	se.	9	4.0			10 s		se.	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.32	643.1	29.91	759.7	43	6.1	43	n.	4	1.8		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.91	759.7	29.98	761.5	45	7.2	88	ne.	12	5.4			10 n		e.	inap.	inap.	light rain	D. C. Murphy.
El Paso, Texas	26.22	666.0	29.81	757.2	67	19.4	16	ne.	4	1.8		6 k	0			0	0	fair	J. F. Marshall.
Erie, Pennsylvania	29.00	736.6	29.72	754.9	50	10.0	64	sw.	16	7.2			10 s		sw.	0.10	2.5	cloudy	Peter Wood.
Escanaba, Michigan	29.05	737.9	29.70	754.4	46	7.8	93	n.	25	11.2			10 n		n.	1.44	36.6	light rain	C. Dill.
Fort Apache, Arizona	25.05	636.3	29.80	756.9	45	7.2	33	ne.	2	0.9		0	5 s		calm	0	0	fair	W. O. Barnes.
Fort Assinnaboine, Montana	27.28	692.9	30.07	763.8	47	8.3	77	ne.	4	1.8		0	0			0	0	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.69	728.7	30.23	767.8	36	2.2	92	nw.	3	1.3		0	0			0	0	clear	A. Pritchard.
Fort Benton, Montana																			G. W. Davis.
Fort Buford, Dakota	28.23	717.0	30.19	766.8	45	7.2	71	ne.	2	0.9		0	0			0.02	0.5	clear	A. H. Bell.
Fort Custer, Montana	26.96	684.8	30.02	762.5	48	8.9	86	e.	2	0.9		0	0			0	0	clear	V. Verge.
Fort Davis, Texas	25.19	639.8	29.80	756.9	64	17.8	65	calm	0	0		0	8 ks		calm	0	0	cloudy	J. Williams.
Fort Elliott, Texas	27.34	694.4	30.01	762.2	57	13.9	77	sw.	8	3.6			10 s		sw.	0	0	cloudy	W. J. Cundall.
Fort Grant, Arizona	25.25	641.3	29.79	756.7	66.9	19.4	10	nw.	2	0.9		3 c	0			0	0	clear	Robert C. Lord.
Fort Keogh, Montana	27.64	702.0	30.07	763.8	45	7.2	76	e.	2	0.9		0	0			0.01	0.3	clear	W. B. Stockman.
Fort Macon, North Carolina	29.88	758.9	29.89	759.2	75	23.9	85	sw.	18	8.0		9 c	hz.	sw.	calm	0	0	cloudy	W. W. Thomas.
Fort McKavett, Texas	27.80	706.1	30.00	762.0	65	18.3	58	s.	4	1.8			10 s			0	0	cloudy	J. E. Thatcher.
Fort Missoula, Montana	26.72	678.7	29.98	761.5	51	10.0	66	w.	1	0.4		0	0			0	0	clear	J. H. Jones.
Fort St. Michaels, Alaska	29.79	756.7	29.82	757.4	40	4.4	100	e.	4	1.8			10 ks		ne.	0	0	cloudy	A. P. Leavitt.
Fort Shaw, Montana	26.43	671.3	30.00	762.0	40	4.4	92	w.	5	2.2		0	0			0	0	clear	A. L. Mathews.
Fort Sill, Indian Territory	28.92	734.0	30.12	765.0	58.3	14.6	76	calm	0	0			10 s		w.	0	0	cloudy	T. Cleary.
Fort Smith, Arkansas	29.66	753.4	30.12	765.0	52.0	11.1	86	sw.	2	0.9		6 cs	0	w.		0	0	fair	J. B. Campbell.
Fort Stevenson, Dakota	28.37	720.6	30.17	766.3	41	5.0	76	nw.	3	1.3		0	0			0	0	clear	W. Burrows
Fort Verde, Arizona					66.9	19.4	44	nw.			1	7 k	0			0	0	fair	D. Brooks.
Fort Washakie, Wyoming	24.57	624.1	29.95	760.7	42.0	5.6	92	calm	0	0		0	1 k			0	0	clear	T. M. Ambler.
Fredericksburg, Texas	28.38	720.8	30.06	763.5	61	16.1	72	ne.	4	1.8		6 k	0	s.		0	0	fair	H. S. Miles.
Galveston, Texas	30.00	762.0	30.05	763.3	71	21.7	71	ne.	25	11.2		5 c	hz.	s.		0	0	fair	E. O'C. MacInerney.
Grand Haven, Michigan	28.97	735.8	29.62	752.3	44.5	6.9	96	w.	32	14.3			10 n		w.	1.76	44.7	light rain	W. A. Reid.
Hatteras, North Carolina	29.85	758.2	29.87	758.7	76	24.4	82	sw.	28	12.5		3 c	sk.	sw.		0	0	clear	R. M. Crawford.
Helena, Montana	25.85	656.6	29.97	761.2	50	10.0	66	w.	2	0.9		0	0			0	0	clear	S. Wheaton.
Henrietta, Texas	29.17	740.9	30.15	765.8	59.0	15.0	81	calm	0	0		2 ck	4 s			0	0	fair	J. W. Byram.
Huron, Dakota	28.74	730.0	30.08	764.0	44.2	6.8	83	nw.	8	3.6		3 cs	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.05	737.9	29.83	757.7	51	10.6	77	sw.	5	2.2		8 ck;k	2 s	w.	sw.	0.21	5.3	cloudy	O. Schutze
Indianola, Texas	30.01	762.2	30.04	763.0	70.2	21.2	71	ne.	25	11.2		6 cs	0	w.		0	0	fair	I. A. Reed.
Jacksboro, Texas	28.98	736.1	30.10	764.5	60	15.6	87	ne.	2	0.9		6 k	0			0	0	fair	J. P. Sherry.
Jacksonville, Florida	29.97	761.2	30.01	762.2	77	25.0	82	sw.	8	3.6		2 cs	3 s		sw.	0.06	1.5	fair	J. W. Smith.
Keokuk, Iowa	29.26	743.2	29.90	759.4	54.0	12.2	74	w.	8	3.6		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.03	762.7	30.05	763.3	86.0	30.0	72	se.	2	0.9		1 cs	2 k		se.	0	0	clear	R. H. Paxton.
Kittyhawk, North Carolina	29.83	757.7	29.85	758.2	76	24.4	85	sw.	18	8.0		1 c	2 k	sw.	sw.	0	0	clear	E. A. Beals.
Knoxville, Tennessee	28.97	735.8	29.98	761.5	58.2	14.6	80	n.	4	1.8		0	0			0.58	14.7	clear	J. A. Cody.
La Crosse, Wisconsin	29.11	739.4	29.87	758.7	50	10.0	64	n.	16	7.2			10 n			inap.	inap.	light rain	S. C. Emery.
La Mesilla, New Mexico	26.06	661.9	29.78	756.4	62.0	16.7	48	se.	3	1.3		1 c	2 s			0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.23	742.4	30.10	764.5	49	9.4	71	nw.	3	1.3		0	0			0	0	clear	A. W. Browne.
Lewiston, Idaho	29.05	737.9	29.87	758.7	57.5	14.2	74	calm	0	0		2 cs	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.78	756.4	30.09	764.3	60	15.6	70	nw.	3	1.3		0	0			0	0	clear	W. U. Simmons.
Los Angeles, California	29.59	751.6	29.98	761.5	56.3	13.5	86	e.	1	0.4			10 s		calm	0	0	cloudy	E. F. Kubel.
Louisville, Kentucky	29.34	745.2	29.89	759.2	54	12.2	86	s.	9	4.0			10 n			0.08	2.0	light rain	H. C. Smyth.
Lynchburg, Virginia	29.11	739.4	29.78	756.4	71.0	21.7	66	sw.	4	1.8		5 ck	3 ks	w.	w.	0.01	0.3	cloudy	W. R. Bushby.
Madison, Wisconsin	28.81	731.8	29.80	756.9	45	7.2	93	nw.	16	7.2			10 s		nw.	0.53	13.5	cloudy	C. A. Shaw.
Marquette, Michigan	29.10	739.1	29.82	757.4	45	7.2	60	n.	18	8.0		5 ck	0	ne.		inap.	inap.	fair	J. Gilligan.
Memphis, Tennessee	29.74	755.4	30.07	763.8	57	13.9	80	w	4	1.8		0	0			0.03	0.8	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.00	736.6	29.74	755.4	45	7.2	100	w.	12	5.4			10 n			0.53	13.5	light rain	W. Line.

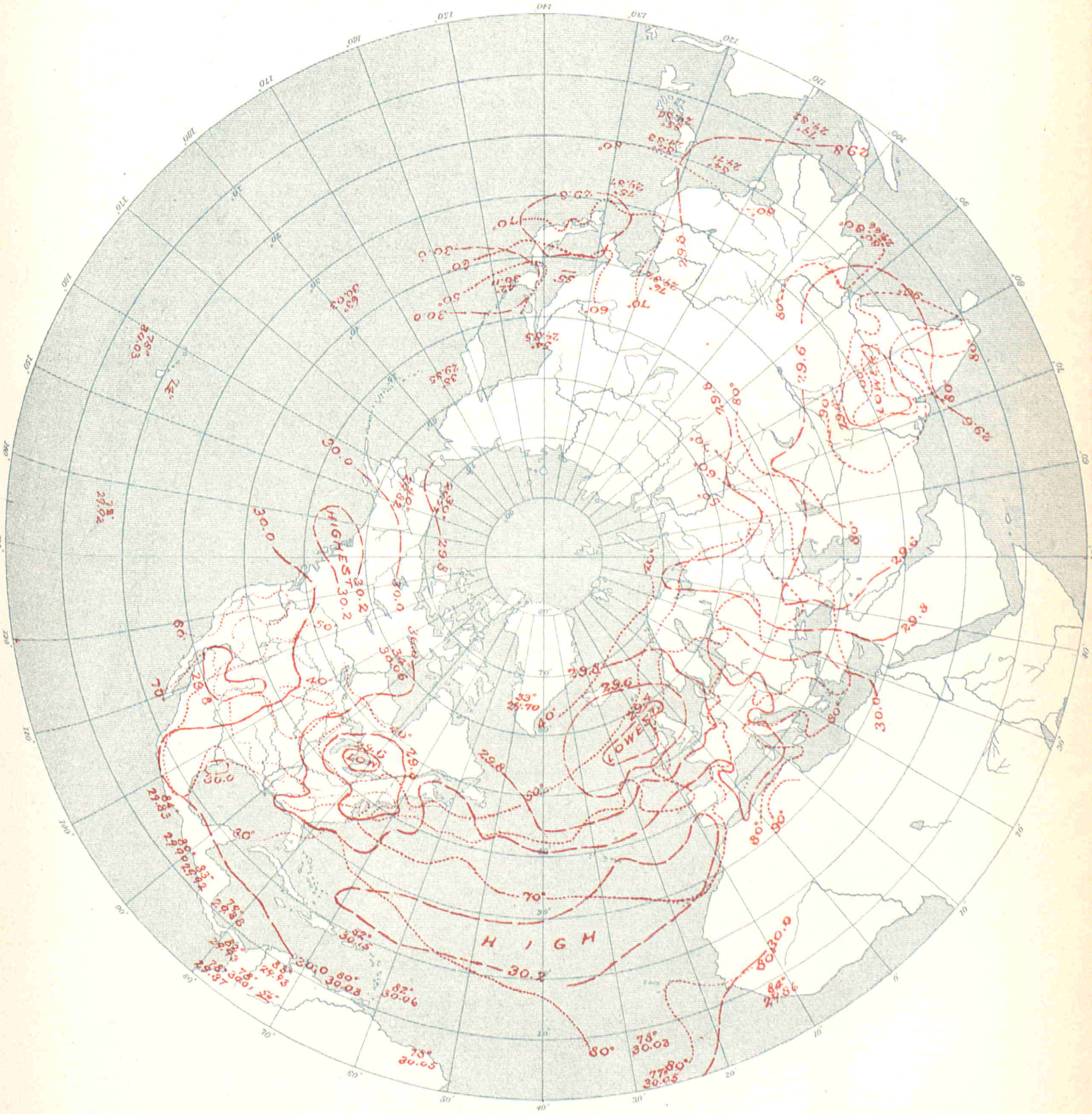
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Mobile, Alabama	29.96	761.0	30.00	762.0	72.2	22.3	82	n.	10	4.5	.....	1 c	0	.....	.....	0	0	clear	J. D. Paxton.
Montgomery, Alabama	29.77	756.1	30.00	762.0	68	20.0	70	nw.	5	2.2	.....	1 k;hz	8 s	w.	w.	0	0	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	29.18	741.2	30.15	765.8	38	3.3	82	n.	5	2.2	.....	0	0	.....	.....	inap	inap.	clear	H. Bessant.
Morgantown, W. Virginia	28.87	733 3	29.87	758.7	54.0	12.2	77	sw.	7	3.1	.....	.....	10 s	.....	sw.	0.16	4.1	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.67	601.2	29.79	756.7	39.5	4.2	95	s.	39	17.4	.....	.....	ton;fg	.....	s.	0.70	17.8	heavy rain	J. G. Livsley
Nashville, Tennessee	29.46	748.3	29.98	761.5	58.0	14.4	80	w.	1	0.4	.....	.....	10 ks	.....	w.	0.11	2.8	cloudy	L. A. Jesunofsky.
New Haven, Connecticut	29.60	751.8	29.71	754.6	60	15.6	100	s.	6	2.7	.....	.....	fg.	.....	.....	0.35	8.9	dense fog	J. H. Sherman.
New London, Connecticut	29.71	754.6	29.76	755.9	58	14.4	100	w.	3	1.3	.....	.....	10 n	.....	.....	0.03	0.8	light rain	J. G. Lynch.
New Orleans, Louisiana	29.96	761.0	30.01	762.2	75.5	24.2	70	n.	7	3.1	.....	3 c	0	sw.	.....	0	0	clear	L. Dunne.
Newport, Rhode Island	29.71	754.6	29.76	755.9	58.0	14.4	90	se.	14	6.3	.....	.....	fg.	.....	.....	0	0	dense fog	W. McGillivray.
New River, N. Carolina	.....	.....	.....	.....	79	26.1	77	sw.	.....	.....	4	2 c	hz.	w.	.....	inap.	inap.	clear	C. C. Corbin.
New Shoreham, Rhode I'd	29.72	754.9	29.75	755.6	58.0	14.4	100	se.	16	7.2	.....	.....	fg.	.....	.....	0	0	dense fog	W. Davis.
New York, New York	29.54	750.3	29.71	754.6	59	15.0	100	se.	3	1.3	.....	.....	fg.	.....	.....	0.01	0.3	dense fog	J. B. Merrill.
Norfolk, Virginia	29.76	755.9	29.79	756.7	76	24.4	74	sw.	13	5.8	.....	3 cs	3 ks	sw.	w.	0	0	fair	J. T. Elker.
North Platte, Nebraska	27.26	692.4	30.06	763.5	42.6	5.9	82	n.	4	1.8	.....	0	1 s	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y	29.84	757.9	29.88	758.9	57.0	13.9	86	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Dascomb.
Omaha, Nebraska	28.94	735.1	30.08	764.0	47.5	8.6	78	nw.	8	3.6	.....	10 cs	0	.....	.....	0	0	cloudy	A. Pollak.
Ogalaamie, Pt. Barrow, Alas.	29.76	755.9	29.77	756.1	30.0	— 1.1	100	e.	13	5.8	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	P. H. Ray.
Oswego, New York	29.32	744.7	29.64	752.8	51.3	10.7	84	w.	12	5.4	.....	.....	10 s	.....	nw.	1.23	31.2	cloudy	S. W. Beall.
Palestine, Texas	29.61	752.1	30.15	765.8	58.0	14.4	70	n.	7	3.1	.....	3 cs	0	.....	.....	inap.	inap.	clear	L. M. Pindell.
Pensacola, Florida	29.96	761.0	29.99	761.7	73.4	23.0	81	n.	10	4.5	.....	1 c	0	w.	.....	0	0	clear	M. McGauran.
Philadelphia, Pa	29.62	752.3	29.72	754.9	71.5	21.9	84	sw.	6	2.7	.....	.....	10 s	.....	sw.	0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.83	452.9	29.65	753.1	19	— 7.2	91	nw.	36	16.1	.....	0	2 s	.....	nw.	0.10	2.5	clear	L. M. Dey.
Pioche, Nevada	24.02	610.1	29.82	757.4	61	16.1	41	sw.	6	2.7	.....	3 k	6 ks	sw.	sw.	inap.	inap.	cloudy	C. N. Kitchel.
Pittsburg, Pennsylvania	29.02	737.1	29.81	757.2	51.8	11.0	80	s.	7	3.1	.....	.....	10 ks	.....	sw.	0.15	3.8	threatening	J. H. Bryce.
Poplar River, Montana	28.08	713.2	.....	.....	.....	.....	.....	s.	.....	.....	1	0	0	.....	.....	0.03	0.8	clear	U. D. Maxwell.
Port Eads, Louisiana	30.01	762.2	30.02	762.5	75.1	23.9	88	nw.	2	0.9	.....	0	4 k	.....	nw.	0	0	fair	H. G. Christian.
Port Huron, Michigan	28.90	734.0	29.57	751.1	46.6	8.1	80	sw.	22	9.8	.....	.....	10 ks	.....	sw.	0.52	13.2	cloudy	W. O. Bailey.
Portland, Maine	29.79	756.7	29.84	757.9	51.0	10.6	86	ne.	9	4.0	.....	.....	ton;fg	.....	ne.	0.51	13.0	heavy rain	W. W. Eichelberger.
Portland, Oregon	29.77	756.1	29.84	757.9	64.5	18.1	84	calm	0	0	.....	4 k	hz.	.....	.....	c	0	fair	M. L. Hearne.
Portsmouth, N. Carolina	.....	.....	.....	.....	76	24.4	85	sw.	21	9.4	.....	6 c	4 k	w	sw.	0	0	cloudy	F. P. Chaffee.
Prescott, Arizona	24.77	629.1	29.79	756.7	62	16.7	33	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. McN. Wright.
Provincetown, Mass	29.76	755.9	29.79	756.7	59	15.0	87	se.	16	7.2	.....	.....	10 s	.....	se.	0	0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.03	762.7	30.04	763.0	83	28.3	74	s.	9	4.0	.....	3 ck	5 k	calm	s.	0	0	cloudy	W. J. Evans.
Red Bluff, California	29.51	749.5	29.87	758.7	66.1	18.9	53	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.78	756.4	30.01	762.2	75	23.9	76	se.	12	5.4	.....	.....	10 s	.....	se.	0	0	cloudy	P. M. Wilson.
Rochester, New York	29.00	736.6	29.65	753.1	51	10.6	80	w.	18	8.0	.....	.....	10 k	.....	w.	0.14	3.6	cloudy	E. W. McGann.
Roseburg, Oregon	29.32	744.7	29.87	758.7	54.7	12.6	88	calm	0	0	.....	0	fg.	.....	.....	0.01	0.3	clear	J. J. Nanry.
Sacramento, California	29.80	756.9	29.87	758.7	57.0	13.9	80	s.	15	6.7	.....	0	6 s	.....	s.	0	0	fair	J. A. Barwick.
St. Louis, Missouri	29.38	746.2	29.97	761.2	51.0	10.6	93	w.	3	1.3	.....	hz	0	.....	.....	0.02	0.5	clear	J. H. Webber.
St. Paul, Minnesota	29.10	739.1	29.95	760.7	52.0	11.1	72	nw.	9	4.0	.....	5 k	0	n.	.....	0.04	1.0	fair	P. F. Lyons
St. Vincent, Minnesota	29.28	743.7	30.13	765.3	42	5.6	93	nw.	7	3.1	.....	0	0	.....	.....	0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.60	650.2	29.82	757.4	53	11.7	45	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.39	746.5	30.07	763.8	65	18.3	58	ne.	10	4.5	.....	0	7 ks	.....	ne.	0	0	fair	E. Lane.
San Diego, California	29.88	758.9	29.94	760.5	59.7	15.4	88	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.05	737.9	29.72	754.9	49.9	9.9	71	w.	28	12.5	.....	.....	10 s	.....	w.	0.23	5.8	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.66	753.4	29.70	754.4	61.0	16.1	100	se.	7	3.1	.....	.....	fg.	.....	calm	0.06	1.5	dense fog	B. A. Blundon.
San Francisco, California	29.87	758.7	29.94	760.5	55	12.8	86	sw.	6	2.7	.....	.....	fg.	.....	sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.27	591.0	29.78	756.4	50	10.0	44	e.	8	3.6	.....	6 c	0	s.	.....	0	0	fair	H. U. Jones.
Savannah, Georgia	29.86	758.4	29.94	760.5	78.5	25.8	74	sw.	7	3.1	.....	9 c	0	.....	.....	0.10	2.5	cloudy	H. W. Ford.
Shreveport, Louisiana	29.89	759.2	30.12	765.0	60	15.6	70	w.	3	1.3	.....	0	hz.	.....	.....	inap.	inap	clear	E. N. Meekins.
Silver City, New Mexico	24.27	616.4	29.77	756.1	54	12.2	40	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. B. Wallace.
Sitka, Alaska	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.32	8.1	.....	J. J. McLean.
Smithville, North Carolina	29.86	758.4	29.90	759.4	77	25.0	82	sw.	13	5 8	.....	1 c	5 k	w.	w.	0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.90	708.6	29.94	760.5	55	12.8	80	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.22	742.2	29.89	759.2	53	11.7	72	w.	9	4.0	.....	0	2 s	.....	w.	0	0	clear	T. B. Jennings.
Springfield, Massachusetts	29.58	751.3	29.71	754.6	61.2	16.2	93	e.	4	1.8	.....	.....	10 n	.....	.....	0.35	8.9	light rain	T. S. Outram.
Springfield, Mo	28.65	727.7	30.11	764.8	53	11.7	80	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. B. Marbury.
Starkville, Miss	29.63	752.6	30.10	764.5	65	18.3	78	nw.	8	3.6	.....	0	0	.....	.....	inap.	inap.	clear	M. J. Wright.
Stockton, Texas	27.03	686.5	29.95	760.7	63.0	17.2	68	se.	20	8.9	.....	0	7 s	.....	se.	0	0	fair	J. O'Dowd.
Thatcher's Island, Mass	29.68	753.9	29.73	755.1	51.0	10.6	100	s.	15	6.7	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	G. Liebmann.
Toledo, Ohio	29.02	737.1	29.70	754.4	49	9.4	71	sw.	24	10.7	.....	.....	10 s	.....	sw.	0.70	17.8	threatening	A. Buell.
Tucson, Arizona	27.48	698.0	29.78	756.4	71	21.7	43	s.	3	1.3	.....	3 c	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.49	749.0	29.85	758.2	63	17.2	68	se.	2	0.9	.....	3 ck	0	.....	.....	0	0	clear	J. Daly.
Uvalde, Texas	29.12	739.6	30.06	763.5	66	18.9	50	se.	6	2.7	.....	10 cs	0	sw.	.....	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.83	757.7	30.08	764.0	65	18.3	78	n.	1	0.4	.....	0	0	.....	.....	0.03	0.8	clear	H. P. Brisbane.
Visalia, California	29.48	748.8	29.85	758.2	64	17.8	68	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. L. Seward.
Washington, D. C.	29.63	752.6	29.74	755.4	68.7	20.4	91	w.	3	1.3	.....	.....	10 n	.....	w.	0.01	0.3	light rain	B. M. Purssell.
West Las Animas, Colorado	26.19	665.2	29.97	761.2	51.5	10.8	90	e.	4	1.8	.....	0	8 n	.....	e.	0.01	0.3	light rain	F. W. Brandenburg.
Williamsport, Pa	29.09	738.9	29.69	754.1	62.5	16.9	69	w.	16	7.2	.....	4 cs	3 ks	sw.	sw.	0.20	5.1	fair	B. F. Hough.
Wilmington, N. Carolina	29.83	757.7	29.88	758.9	76	24.4	82	sw.	12	5.4	.....	.....	10 s	.....	sw.	inap.	inap.	cloudy	A. T. Sherwood.
Winnemucca, Nevada	25.54	648.7	29.80	756.9	60	15.6	52	ne.	2	0.9	.....	0	8 ks	.....	sw.	inap.	inap.	cloudy	J. R. Williams.
Yankton, Dakota	28.82	732.0	30.10	764.5	47	8.3	68	nw.	5	2.2	.....	0	4 ks	.....	.....	inap.	inap.	fair	J. H. Atfield.
Yuma, Arizona	29.62	752.3	29.76	755.9	71.7	22.1	50	calm	0	0	.....	0	1 s	.....	.....	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8	.....	.....	56.0	13.3	72	w.	11	4.9	.....	0	6 s	.....	w.	0.01	0.3	fair	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.05	763.3	30.06	763.5	82	27.8	91	e.	.....	.....	.....	5 k	5 ks	ne.	ne.	0.84	21.3	fair	J. A. Racker.
Buenaventura, U. S. C.	29.98	761.5	30.01	762.2	78	25.6	86	calm	0	0	.....	4 c	2 k	s.	calm	0.10	2.5	fair	J. I. Plume.
Havana, Cuba, W. I.	30.03	762.7	30.08	764.0	84	28.9	74	calm	0	0	.....	0	0	.....	.....	0	0	clear	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.03	762.7	30.04	763.0	84.0	28.9	72	e.	10	4.5	.....	0	0	.....	.....	0	0	.....	Robert Johnston.
Magua, San Domingo, W. I	.....	.....	.....	.....	71	21.7	.....	calm	.....	.....	0	0	0	.....	.....	0	0	.....	S. M. Pike.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	78	25.6	86	e.	.....	.....	2	4 ck	5 k	e.	e.	0.010	0.3	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.47	748.5	29.93	760.2	83	28.3	76	e.	.....	.....	1	2 ck	5 k	calm	e.	0	0	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	96	se.	.....	.....	2	2 ck	0	se.	.....	0.04	1 0	fair	Earl Flint.
Santiago de Cuba, W. I.	30.01	762.2	30.03	762.7	79	26.1	82	calm	0	0	.....	1 ck	3 ks	.....	.....	0	0	fair	Robert Mason.
York Factory, B. A.	30.00	762.0	30.06	763.5	34.0	1.1	95	s.	12	5.4	.....	0	0	.....	.....	0	0	clear	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
British Naval.																		
H. M. S. Alert, S. 28° 45′, E. 33° 24′	29.92	760.0	74.2	23.4	74	n.			3–4		4							d. clouds.
H. M. S. Alexandra, Suda Bay, Turkey in Europe	30.15	765.8	70	21.1	58	ese.			2		1							blue sky.
H. M. S. Amethyst, S. 16° 44′, W. 35° 12′	30.13	765.3	79.8	26.6	79	ene.			4		2					1	ene.	d. clouds.
H. M. S. Bacchante, N. 38° 25′, E. 20° 28′	30.10	764.5	71	21.7	85	w.			2		0							blue sky.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.25	768.3	63	17.2		sw.			1–2		1	sw.						blue sky.
H. M. S. Champion, Honolulu, Sandwich Islands			74	23.3		ene.			1–4		8	ne.						misty.
H. M. S. Cleopatra, N. 22° 33′, E. 116° 34′	29.78	756.4	78.5	25.8	95	e.			1–2		6	calm						d. clouds.
H. M. S. Coquette, Port Said, Egypt	29.92	760.0	74	23.3		nw.			4		1	wnw.						squally.
H. M. S. Cruiser, N. 37° 38′ E. 20° 45′	30.11	764.8	71	21.7		s.			3		3	sse.				3	ese.	d. clouds.
H. M. S. Diamond, S. 22° 17′, E. 166° 27′	29.92	760.0	71	21.7	92	s.			2–4		10							raining.
H. M. S. Dido, N. 11° 10′, W. 60° 42′	30.05	763.3	81	27.2		e.			4		4	ene.				3	e.	d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	30.14	765.5	75	23.9	90	ssw.			1–2		7	ssw.						d. clouds.
H. M. S. Druid, N. 18° 25′, W. 77° 09′	30.04	763.0	81.5	27.5	80	e.			1		1	e.				2	ese.	blue sky.
H. M. S. Dwarf, S. 25° 16′, W. 57° 45′	29.78	756.4	61.5	16.4	88	calm			0		10							overcast.
H. M. S. Eclipse, S. 13° 45′, E. 42° 30′	30.00	762.0	79	26.1		se.			1		10					2	ese.	overcast.
H. M. S. Emerald, S. 55° 30′ W. 90° 10′	29.60	751.8	42	5.6	100	ne.			4–5							4	ne.	overcast.
H. M. S. Euryalus, Bombay, India	29.59	751.6	80	26.7	91	s.			4–0		10	s.				1	s.	squally.
H. M. S. Espiegle, S. 25° 24′ E. 176° 13′	29.86	758.4	72	22.2	95	nnw.			4		5					4	nnw.	d. clouds.
H. M. S. Fawn, S. 20° 09′ E. 57° 25′	30.03	762.7	76.5	24.7	72	sse.			2		2							d. clouds.
H. M. S. Fantome, N. 11° 12′, W. 80° 36′	29.88	758.9	79	26.1		e.			3–4		10	e.				3	e.	raining.
H. M. S. Flying Fish, N. 37° 27′, E. 126° 33′	29.84	757.9	61	16.1	82	ne.			3–4		7					1	ne	d. clouds.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.13	765.3	51	10.6	93	calm			0		2							foggy.
H. M. S. Garnet, Montevideo, Uruguay.	30.06	763.5	47	8.3	92	nnw.			2		7							d. clouds.
H. M. S. Inconstant, S. 13° 15′ W. 6° 30′	30.15	765.8	71	21.7	80	e.			4–6		8	ese.				4	ese.	squally.
H. M. S. Iron Duke, N. 34° 41′, E. 135° 12′	29.64	752.8	68	20.0	94	wsw.			1		7	w.						raining.
H. M. S. Kingfisher, Off Perin Island, Panama Bay	29.93	760.2	82	27.8		calm			0		7							d. clouds.
H. M. S. Lark, S. 10° 30′, E. 159° 46′	29.86	758.4	82.3	27.9		e.			5		6					3	s.	d. clouds.
H. M. S. Magpie, N. 35° 06′, E. 139° 43′	29.67	753.6	69.6	20.9	86	s.			3		10							misty.
H. M. S. Minotaur, N. 43° 42′, W. 9° 29′	30.05	763.3	59	15.0	81	sw.			3		7					3	ssw.	misty.
H. M. S. Nelson, S. 41° 17′, E. 174° 48′	29.75	755.6	55	12.8	100	ssw.			5–6		9							squally.
H. M. S. Northampton, Halifax, Nova Scotia	29.97	761.2	54	12.2	79	sse.			2		3	wnw.						d. clouds.
H. M. S. Orontes, N. 42° 15′ W. 26° 20′	29.94	760.5	64.5	18.1	96	sw.			3							3	sw.	foggy.
H. M. S. Rambler, Kabenda, Lower Guinea	29.95	760.7	73	22.8	100	calm			0		10							overcast.
H. M. S. Rocket, Esquimalt, Vancouver Island	29.85	758.2	57	13.9	81	calm			0		0							blue sky.
H. M. S. Sappho, S. 26° 00′, W. 82° 54′	30.32	770.1	63.5	17.5		se.			4		7	se.				2	se.	d. clouds.
H. M. S. Swiftsure, N. 30° 25′, W. 180° 06′	30.29	769.4	68.5	20.3	75	nne.			2		2	nnw.				2	nne.	d. clouds.
H. M. S. Sylvia, S. 8° 00′, W. 29° 35′	30.04	763.0	81	27.2	79	se.			3–4		5					5	ese.	d. clouds.
H. M. S. Tenedos, N. 47° 34′ W. 52° 41′	29.90	759.4	45	7.2	84	nw.			2		10							overcast.
H. M. S. Triumph, Coquimbo, Chili	30.11	764.8	51	10.6	93	calm			0		6	calm						misty.
H. M. S. Woodlark, N. 22° 34′, E. 59° 51′	29.41	747.0	98.5	36.9	54	s.			5–6		0							misty.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verde Islands	30.05	763.3	80.6	27.0	77	nne.			3		3					2		d. clouds.
Tamega, Macao, China	29.75	755.6	81.7	27.6	80	calm			0		6		ne.	½ h'r	½ h'r			d. clouds.
Swedish Naval.																		
Sago, N. 50° 37′, E. 0° 29′	29.73	755.2	58.1	14.5	92	ssw.			8		8							misty.
United States Naval.																		
Navy Yard, Pensacola, Fla	29.94	760.5	73	22.8	85	n.	4	1.8			2		n.	0	0			fair.
Navy Yard, Portsmouth, N. H.	29.80	756.9	51	10.6	79	e.	4	1.8			10		e.	0.1	3.			raining.
Naval Hospital, Yokohama, Japan*	29.60	751.8	68	20.0	97	s.			4		10		s.	0.03	0.8			light rain.
Adams, Mare Island, Cal	29.96	761.0	57	13.9	81	sw.			1		10		sw.					cloudy.
Alaska, Callao, Peru	29.97	761.2	59	15.0	88	calm			0		10			0	0	sm'h		cloudy.
Alert, Kobe, Japan*	29.58	751.3	71	21.7	85	calm			0		10		calm			sm'h		cloudy.
Alliance, Hampton Roads, Va	29.80	756.9	73	22.8	90	sw.			3		2			0	0	sm'h		clear.
Ashuelot, Kobe, Japan	29.64	752.8	69	20.6	95	ne.			1		10		ne.					raining.
Brooklyn, Rio de Janeiro, Brazil	30.15	765.8	75	23.9	95	ne.	3	1.3			5		calm	0	0	sm'h		fair.
Colorado, New York, N. Y.	29.69	754.1	59	15.0	94	se.	3	1.3			10		calm	0.05	1.3			misty.
Enterprise, Norfolk, Va*	29.79	756.7	75	23.9	90	sw.			2		5		sw.					fair.
Essex, Montevideo, Uruguay	30.05	763.3	52	11.1	79	nw.			4		10		nw.			sm'h		overcast.
Franklin, Norfolk, Va	29.81	757.2	76	24.4	82	sw.	16	7.2			5		sw.	0	0			fair.
Galena, N. 36° 53′, E. 12° 42′	30.09	764.3	75	23.9	93	se.			4		0					sm'h	se.	clear.
Independence, Navy Yard, Mare Island, Cal	29.95	760.7	54	12.2	100	sw.			3		10			0	0			cloudy.
Iroquois, San Francisco, Cal*†	29.94	760.5	54	12.2	80	sw.			2		10							misty.
Kearsarge, Hampton Roads, Va	29.81	757.2	63	17.2	89	sw.			3		0					sm'h		clear.
Lackawanna, N. 3° 12′ W. 79° 59′*	29.87	758.7	78	25.6	86	ssw.			3		8		s.			mod.	sw.	cloudy.
Lancaster, Lisbon, Portugal*	30.16	766.1	70	21.1	80	w.			4		8		w.			sm'h		fair.
Marion, S. 34° 54′, W. 56° 13′	30.04	763.0	47	8.3	100	nnw.			1–2		8		calm	0	0	sm'h		cloudy.
Michigan, Erie, Pa	29.65	753.1	49	9.4	100	ssw.			6		10		s.					cloudy.
Minnesota, Newport, R. I.	29.79	756.7	59	15.0	94	sse.	7	3.1			0							dense fog.
Monocacy, Nagasaki, Japan	29.78	756.4	67	19.4	95	nnw.			2		5		calm					fair.
New Hampshire, Newport, R. I.	29.74	755.4	59	15.0	100	s.			3		10					sm'h		foggy.
Nipsic, N. 37° 19′, E. 7° 21′	30.02	762.5	74	23.3	76	wnw.			3		0					sm'h		clear.
Onward, Callao, Peru†	30.13	765.3	58	14.4	94	se.			2		10		n.			long	w.	misty.
Palos, Kobe, Japan	29.67	753.6	68	20.0	100	calm			0		10		calm					cloudy.
Passaic, Washington, D. C.	29.74	755.4	73	22.8	100	w.			1		10							cloudy.
Pensacola, Callao, Peru	30.01	762.2	59	15.0	94	ese.	2	0.9			10			0	0	sm'h		cloudy.
Powhatan, Norfolk, Va	29.82	757.4	76	24.4	91	ssw.			2		2							fair.
Portsmouth, Portsmouth, Eng*†	29.94	760.5	63	17.2	94	sw.			3		8		sw.			sm'h		cloudy.
Quinnebaug, N. 29° 43′, W. 14° 43′	30.22	767.6	68	20.0	74	n.			3		5		calm			sm'h		hazy.
Ranger, N. 28° 50′, W. 115° 26′*	29.92	760.0	61	16.1	88	nw.			3		10		nw.	0	0	mod.	nw.	overcast.
Richmond, Kobe, Japan*	29.61	752.1	70	21.1	100	calm			0		10			0.55	14.0			cloudy.
Saratoga, Cowes, Eng	29.70	754.4	63	17.2	83	sw.			2		8		sw.	light	light	sm'h		fair.
St. Louis, League Island, Pa	29.95	760.7	72	22.2	90	s.	12	5.4			8		s.	0	0			cloudy.
Swatara, Nagasaki, Japan*	29.62	752.3	68	20.0	84	nnw.			3		2		n.			sm'h		fair.
Tennessee, Fort Monroe, Va	29.81	757.2	74	23.3	95	sw.	10	4.5			2			0	0			fair.
Vandalia, Norfolk Va*†	30.02	762.5	75	13.9	86	sw.			3		2		sw.					clear.
Wabash, Boston, Mass	29.76	755.9	62	16.7	94	sse.	2	0.9			10		s.	0	0			cloudy.
Wachusetts, Fort Wrangle, Alaska	30.24	768.1	44	6.7	92	calm			0		10			0	0			overcast.
Wyoming, Port Royal, S. C.	29.97	761.2	74	23.3	86	sw.	12	5.4			10		w.	0.01	0.3			overcast.
Yantic, Hampton Roads, Va*	29.76	755.9	72	22.2	95	ssw.			3		2		sw.					hazy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	Upper. From.	Lower. From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 54° 10′, W. 20° 36′*	29.35	745.5	55	12.8	68	calm			0		2		se.	1 h'r	1 h'r	1	s.	d. clouds.
S. S. Nova Scotian, Off Cape Magdalen, Canada	29.98	761.5	51	10.6		var.			1		0					sm'h		clear.
S. S. Prussian, Halifax, N. S*	29.83	757.7	48	8.9		n.			2		1?		ne.	0	0			cloudy.?
S. S. Scandinavian, N. 42° 38′, W. 51° 57′*	29.90	759.4	51	10.6		wsw.			3		1		sse.	0	0	light	wsw.	blue sky.
S. S. Waldensian, Glascow, Scotland*	30.02	762.5				var.			3		2		ese.	0	0			clear
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, Liverpool, Eng	29.64	752.8	56	13.3	94	sse.			4		10		se.					overcast.
S. S. Indiana, N. 38° 47′, W. 74° 20′†	29.89	759.2	60	15.6	94	sw.			4		10		sw.			mod.	sw.	foggy.
ANCHOR LINE.																		
S. S. Boliva, N. 40° 40′, W. 68° 04′†	29.76	755.9	51	10.6		ese.			2		fg.			0	0	sm'h		dense fog.
S. S. Devonia, N. 42° 25′, W. 56° 30′†	30.10	764.5	55	12.8		w.			1		1		w.			sli't	w.	clear.
S. S. Ethiopa, N. 55° 07′, W. 12° 56′	29.34	745.2	51	10.6	93	wsw.			2		8		w	3 h'r	3 h'r	sli't	wsw.	showery.
S. S. India, Suez Canal, Egypt*	29.96	761.0	81	27.2	91	nw.			3		1							clear.
S. S. Utopia, Leghorn, Italy†	30.18	766.6	80	26.7	58	sw.			3		10		sw.	0	0			cloudy.
ATLAS LINE.																		
S. S. Ailsa, N. 17° 58′ W. 74° 34′†	30.27	768.8	82	27.8	83	se.			6		1		se.	0	0	r'gh	se.	fair.
S. S. Alvena, Kingston, Jamaica†	29.90	759.4	84	28.9	68	ese.			3-4		0			0	0			fine.
S. S. Alvo, N. 11° 00′, W. 75° 02′	30.06	763.5	104?	40.0?		var.			1		4		w.	2 h'r	2 h'r			clear.
S. S. Antillas, Petit Goave, Hayti, W. I						ne.			1					0	0	sm'h	ne.	fine.
BOSTON AND HALIFAX.																		
S. S. Carroll, N. 43° 23′, W. 66° 01′†	29.93	760.2	57	13.9		se.			2		10			0	0		se.	foggy.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 39° 50′ E. 36° 20′	29.54	750.3	61.5	16.4	71	nnw.			6		10							overcast.
S. Baroda, N. 13° 33′, E. 91° 47′	29.66	753.4	79.7	26.5	91	sw.			3		10							d clouds.
British Merchant, S. 1° 36′, W. 21° 17′	30.05	763.3	76.5	24.7	86	ene.			3-4		5							misty.
S. S. Cipero, N. 39° 32′, W 31° 49′	30.05	763.3	65	18.3	92	wsw.			3		10							overcast.
Bk. Commewyne, N. 12° 47′, W. 44° 57′	30.08	764.0	81	27.2	66	ene.			4		8							misty.
S. S. Glencairn, S. 28° 30′, E. 14° 28′	30.31	769.9	60	15.6	94	ene.			2		9							d. clouds.
S. S. Gordon Castle, N. 18° 28′, E. 114° 17′	29.71	754.6	84	28.9	91	ese.			2-4		4							raining.
Bkt. Hope, N. 45° 54′, W. 19° 48′	29.90	759.4	60.5	15.8	91	wsw.			5		5							d. clouds.
Bkt. May Hulse, S. 49° 03′, W. 82° 25′	29.70	754.4	46	7.8	92	wnw.			4		10							drizzling.
Pole Star, S. 45° 23′, W. 43° 33′	29.42	747.3	46.9	8.3	92	n.			4		5							showery.
CUNARD LINE.																		
S. S. Bothnia, N. 42° 30′, W. 47° 01′	30.01	762.2	63	17.2	78	w.			6		5?			0	0	mod.	w.	clear ?
S. S. Gallia, N. 41° 15′, W. 63° 11′	30.07	763.8	61	16.1	82	calm			0		5		se.	0	0	sm'h		fine.
S. S. Marathon, N. 42° 28′, W. 66° 09′	29.99	761.7	45	7.2		se.			3		5		se.	1 h'r	1 h'r	sm'h		fine.
GENERAL TRANS-ATLANTIC COMPANY																		
S. S. France, N. 41° 44′, W. 56° 56′†	30.03	762.7	57.2	14.0		wnw.			3	c		w.		0	0	sm'h	w.	clear.
S. S. Ville de Marseilles, N. 40° 32′, W. 60° 27′ 8†	30.00	762.0	70	21.1		ese.			2		3		e.	0	0	sm'h		clear.
GUION LINE.																		
S. S. Arizona, N. 40° 38′, W. 68° 00′	29.86	758.4	49	9.4		s.			3		5		sw.	0	0	sm'h		dense fog.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S Bohemia, Gluckstadt, Germany *†	29.80	756.9				nw.			6		8		nw.	8 h'r	8 h'r			raining.
S. S. Cimbria, N. 40° 35′, W. 69° 40′	29.87	758.7	51	10.6		sse.			4		9		sse.	0	0	mod.	sse.	cloudy.
S. S. Herder, N. 40° 15′, W. 56° 11 *†	30.02	762.5	76	24.4		n.			2		0			0	0	sm'h	w.	clear.
S. S. Lessing, N. 49° 44′, W. 10° 45′	29.67	753.5	66	18.9		sw.			6		8		sw.	0	0	sm'h	sw.	cloudy.
S. S. Wieland, N. 49° 33′, W. 8° 18′	29.76	755.9	62	16.7		w.			4		2		w.	6 h'r	6 h'r	2	w.	fair.
INMAN LINE.																		
S. S. City of Berlin, N. 50° —′, W. 23° —′	29.52	749.8				sw.			5		10		wsw.	h'vy	h'vy	mod.	w.	overcast.
S. S. City of New York, N. 51° 13′, W 13° 28′	29.56	750.8				wsw.			0		8		wsw.	1 h'r	1 h'r	r'gh	wsw.	fair.
JOHNSTON LINE.																		
S. S. Thanemore, N. 46° 13′ W. 31° 15′	29.71	754.6				w.			5		2		w.	mist	mist	sli't	w.	fair.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, N. 38° 00′ W. 10° 00′.*†	30.39	771.9	68	20.0		n.			2		1		nne.	0	0	sm'h		clear.
MALLORY LINE.																		
S. S. Colorado, N. 28° 05′, W. 79° 53′†	30.06	763.5	82	27.8		sw.			3		3		sw.	0	0	small	sw.	fair.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 37° 30′, W. 69° 11′†	30.14	765.5	76	24.4	95	ssw.			4		1		sw.	4 h'r	4 h'r	sm'h		clear.
MERCHANT STEAMSHIP COMPANY.																		
S. S. Glenfyne, N. 12° 28′, W. 51° 49′	29.64	752.8				e.			5				e.	3 h'r	3 h'r		e.	cloudy.
S. S. Glenapp, Santos, Brazil*†	30.00	762.0				var.			2		8		var.	8 h'r	8 h'r			heavy rain
NATIONAL LINE.																		
S. S. Canada, N. 49° 03′, W. 13° 36′†	29.78	756.4	57	13.9		w.			3		6		wsw.	0	0	mod.		fine.
S. S. Denmark, New York, N. Y.	29.73	755.1	63	17.2		ene.			1		10		ssw.	sh's	sh's			foggy.
S. S. England, N. 40° 42′, W. 65° 54′	29.82	757.4				sw.			2		5?		w.	0	0	sm'h		clear.?
S. S. Holland, N. 41° 00′, W. 59° 38′	30.12	765.0	64	17.8		e.			2		1		sw.	0	0	sm'h	w.	clear.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, Cienfuegos, Cuba, W. I†	30.07	763.8	83	28.3		calm			0		1			0	0			fine.
S. S. Saratoga, Havana, Cuba, W. I.†	30.32	770.1	82	27.8	87	calm			0		0			0	0			
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, N. 28° 13′, W. 78° 55 *†	30.16	766.1	77	25.0	90	ssw.			6		6		w.	2 h'r	2 h'r	mod.	s.	clearing.
S. S. City of Puebla, N. 25° 30′ W. 79° 55′.†	29.99	761.7	89	31.7		ese.			1		1		ese.					fair.
S. S. City of Washington, N. 19° 09′, W. 95° 37′*†	30.10	764.5	83	28.3		var.			1				se.	0	0	sm'h		clear.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Lone Star, N. 32° 20′, W. 78° 05′*†	30.20	767.1	83	28.3		sw.			3								sw.	cloudy.
S. S. Maas, N. 40° 12′, W. 54° 53′*†	30.14	765.5	62	16.7		wnw.			1							light	sw.	
NORTH GERMAN LLOYD.																		
S. S. Elbe, Bremerhaven, Germany	29.86	758.4	63.5	17.5	85	nw.			4		10		nw.	0	0			overcast
S. S. Graf Bismark, N. 21° 35′, W. 21° 20′	30.22	767.6	75.2	24.0		ne.			5		4		ne.			r'gh	ne.	fair.
S. S. Hohenzollern, N. 47° 38′, W. 19° 04′*	29.78	756.4	62	16.7		wsw.			5		8		w.	0	0	3	w.	cloudy.
S. S. Oder, N. 42° 20′, W. 48° 02′	30.04	763.0	57.2	14.0		wsw.			3		2		w.	0	0	sm'h	w.	clear.
S. S. Ohio, N. 40° 03′ W. 62° 40′	30.13	765.3				ssw.			1		8		wsw.	0	0	sm'h	wnw.	fair.
S. S. Rhein, N. 48° 58′, W. 20° 10′	29.62	752.3				w.			6		10		w.	sh'rs	sh'rs	long	w.	cloudy.
S. S. Salier, Bremerhaven, Germany.	29.83	757.7	57.2	14.0		s.			4		10		sw.	6 h'r	6 h'r			raining.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 36° 15′, E. 175° 34′*†	30.03	762.7	63	17.2	89	sw.			4		8		wsw.	shr's	shr's	mod.	wnw.	showery.
S. S. Belgic, N. 26° 19′, E. 123° 37′†	29.97	761.2	75	23.9	81	ene.			4		3		ne.	0	0	light	ne.	cloudy.
S. S. Gaelic, Hong Kong, China†	29.72	754.9	79	26.1	86	ese.			4		3		se.					clear.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, N. 37° 20′ W. 74° 45′†	29.81	757.2				ssw.			6		3		sw.				s.	dense fog.
S. S. City of Columbus, Savannah, Ga.†	30.00	762.0				sw.			3		9		w.	1 h'r	1 h'r			cloudy.
S. S. Seminole, N. 36° 22′, W. 74° 30′†	29.92	760.0	70	21.1	70	ssw.			1		2		sw.	0	0	mod.	ssw.	clear.
OREGON IMPROVEMENT COMPANY.																		
S. S. Willametta, Seattle, Wash. Ter †	29.91	759.7	65	18.3	89	calm			0		0			0	0			hazy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, N. 40° 33′ W. 124° 37′†	29.93	760.2	51	10.6	93	calm			0		10					high	nw.	misty.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal.†	29.88	758.9	54	12.2	87	w.			2		10		w.					cloudy.
S. S. Dakota, Port Townsend, W. T.*†	30.00	762.0	57	13.9	94	sw.			2		2		s.			sm'h		clear.
S. S. Idaho, Columbia River, Oregon†	30.13	765.3	65	18.3	73	nw.			2		5?		n.			sm'h		cloudy.?
S. S. Orizaba, N 34° 27′ W. 120° 25′†	29.96	761.0	54	12.2	100	wsw.			3		fg		sw.	0	0	long	sw.	foggy.
S. S. State of California, San Francisco, Cal.†	29.91	759.7	53	11.7	93	sw.			2		10		sw.					cloudy.
S. S. Victoria, San Francisco, Cal. †	29.82	757.5	50	10.0	100	calm			0		8					sm'h		hazy.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. City of New York, N. 16° —′, W. 159° —′†	30.05	763.3	78	25.6	86	ene.			4		8		ne.	rain	rain	mod.	ne.	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
PACIFIC MAIL STEAMSHIP COMPANY.—Continued.																		
S. S. City of Pekin, Yokohama, Japan†	29.71	754.6	70	21.1	85	s.			3		10		s.	0	0	sm'h		cloudy.
S. S. City of Rio de Janeiro, N. 13° 29°, W. 89° 30′*†	30.12	765.0	83	28.3	75	nne.			2		7		e.	0	0	mod.	sw.	fair.
S. S. City of Sydney, Sydney, N. S. W.†	30.13	765.3	61	16.1	82	se.			8		10		se.	½ h'r	½ h'r	h'vy	se.	heavy rain.
S. S. City of Tokio, N. 37° 37′, E. 146° 12′†	29.95	761.5	61	16.1	88	se.			6		10		se.	0	0	mod	se.	cloudy.
S. S. Clyde, N. 15° 44′, W. 98° 02′†	29.83	757.7	84	28.9	79	s.			1		5?		sse.	0	0	long	ssw.	clear.?
S. S. Colima, N. 13° 52′ W. 90° 44′†	29.90	759.4	80	26.7	91	nw.			4		10		w.	0	0	small	con.	overcast.
S. S. Colon, N. 23° 00′, W. 74° 15′†	30.17	766.3	84	28.9		ese.			4		3		se.	0	0	small	se.	fair.
S. S. Grenada, N. 36° 18′ W. 122° 19′.†...	29.92	760.0	56	13.3	94	calm			0		10			0	0	mod.	w.	hazy.
S. S. South Carolina, Acajutla, Mexico†	29.93	760.2	84	28.9	83	n.			2		10		var.	3 h'r	3 h'r	light	wsw.	cloudy.
S. S. Zealandia, Sydney, N. S. W.	30.33	770.4	54	12.2	87	sw.			2		8		sw.			sm'h		squally.
QUEBEC STEAMSHIP CO.																		
S. S. Muriel, Guadaloupe, W. I.	30.09	764.3	82	27.8		ene.			5		0			0	0	sm'h		clear.
S. S. Bermuda, N. 17° 34′, W. 63° 12′†	30.15	765.8	81	27.2		e.			6		8		ene.	h'vy	h'vy	hv'y	ene.	cloudy.
RED STAR LINE.																		
S. S. Nederland, N. 44° 53′, W. 30° 24′†	29.83	757.7	62	16.7		wsw.			4		10		w.	driz.	driz.	sm'h	wsw.	cloudy.
S. S. Rhynland, Jersey City, N. J.	29.71	754.6	62	16.7	88	ese.			1		0			0	0			foggy.
S. S. Vaderland, N. 50° 33′, W. 0° 30′	29.65	753.1	60	15.6	88	ssw.			4		5?		sw.	0	0	sm'h		clear.?
ROTTERDAM LINE.																		
S. S. W. A. Scholten, New York, N. Y.	29.59	751.6				w.			2		8		w.	2 h'r	2 h'r			
STATE LINE.																		
S. S. State of Florida, Glasgow, Scotland	29.82	744.7	63	17.2		s.			2		9		s.	1 h'r	1 h'r			cloudy.
S. S. State of Georgia, N. 40° 29′ W. 58° 04′†	30.19	766.8	64	17.8		w.			2		0					sli't	sw.	clear.
S. S State of Indiana, N. 53° 50′, W. 12° 03′†	28.99	736.3	59	15.0		w.			3		3		wsw.	8 h'r	8 h'r	sm'h		misty.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 58° 32′, W. 7° 12′†	29.68	753.9	53.4	11.9	67	se.			2		10		se.	4 h'r	4 h'r	sm'h	se.	covered.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 40° 07′. W. 50° 33′	30.17	766.3									2		w.			4	w.	
WHITE STAR LINE.																		
S. S. Adriatic, N. 44° 59′, W. 40° 12′†	29.88	758.9	56	13.3	94	wnw.			6		2		w.	0	0	sl't	w.	d. clouds.
S. S. Baltic, N. 40° 50′ W. 67° 03′†	30.03	762.7	53	11.7	93	sse.			1		9		sse.	0	0	sm'h		foggy.
S. S. Celtic, N. 40° 26′, W. 69° 58′†	29.85	758.2	59	15.0	82	s.			4		5		s.	0	0	sm'h		fair.
WILSON LINE.																		
S. S. Romano, N. 49° 29′, W. 9° 33′	29.60	751.8	58	14.4		wsw.					3			4 h'r	4 h'r	mod.	w.	clear.
MISCELLANEOUS.																		
Schr. Abbe Clifford, Orchilla Id., Carribbean Sea*†	30.03	762.7	80	26.7		ene.			4		3		ene.	0	0	r'gh		fair.
Sch. Addie Fuller, Newport News, Va†	29.80	758.4	76	24.4	76	wsw.			4	0	7 k		wsw.	0	0			cloudy.
Bk. Adelaide, N. 26° 28′, W. 67° 16′*†	30.24	768.1	82	27.8		sse.			1		0			0	0	light	s.	hazy.
Schr. Ajax, Blackwater, Fla†	30.02	762.5				nw.			1		1		n.	0	0			clear.
Bk. Alpha, Guanatamo, Cuba, W. I†	30.00	762.0	82	27.8		n.			1		0			0	0			clear.
Schr Annie Lewis, obile, Ala†	30.15	765.8	75	23.9		nnw.			2		0			0	0			clear.
Bk. Anna Thormann, S. 1° 53′ W. 31° 11′	30.07	763 8	79.2	26.2	85	ese.			5		3 k		se.	0	0	mod	se.	fair.
S. S. Antonio Lopez, Santander, Spain	30.05	763.3	67.5	19.7	82	ne.			1	8 cs				0	0			cloudy.
Schr. Asa Eldridge, Havana, Cuba, W.I.†	30.00	762.0				s.			2		1			0	0			fair.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.30	769.6	81	27.2		calm			0		2		ene.	0	0			clear.
Schr. Annie M. Smull, N. 10° 10′. E. 110° 09′*†	29.90	759.4				s.							s.	2 h'r	2 h'r			
Bk. Bergenseren, N. 43° 05′, W. 34° 00′†	29.84	758.0	60	15.6		w.			3				w.	0	0	2	w.	foggy.
Bk. Bremen, N. 45° 23′, W. 26° 48′						ssw.			6		10		sw;s.	spkl	spkl	mod.	wsw.	foggy.
Schr. Edith R. Seward, Baltimore, Md*†	29.89	759.2				sw.			1		2			0	0			clear.
S. E. J. Spicer, N. 48° 19′, W. 16° 24′†	29.87	758.7				wnw.			5		5		wnw.	4 h'r	4 h'r	mod.	nw.	
S. Essex, N. 23° 48′ W. 36° 55′*†	30.29	769.4	78	25.6		e.			5		6		ene.	½ h'r	½ h'r	long	e.	cloudy.
S. Exporter, S. 39° 30′, E. 40° 30′*†	29.80	756.9				n. to w.			6		3		w.	6 h'r	6 h'r			
Bk. Freya, N. 49° 44′ W. 21° 42′			55	12.8		sw.			6		5		sw.	2 h'r	2 h'r	mod.	vsw.	squally.
Bk. Godfrey, N. 46° 04′, W. 22° 31′	29.79	756.7	59.5	15.3	89	ssw			5-6		5		ssw.			mod		sprinkling.
S. Grecian, N. 5° 30′ E. 107° 35′*†	29.82	757.4	79	26.1		ssw.			3		9?		s.	0	0	mod.	nw.	clear.?
Schr. Hattie G. McFarland, Cowbay, Cape Breton*†	30.05	763.3	40	4.4		n.			3		3		nw.	0	0			fair.
S. Hedwig, N. 39° 51′, W. 69° 46′	29.89	759.2	61.9	16.6	98	sse.			4		6		ssw.	0	0	long	sse.	cloudy.
Bk. Horace Scudder, Sandy Hook, N. J†	29.63	752.6	67	19.4		s.			1		10			1 h'r	1 h'r			dense fog.
S. Ismir, S. 9° 25′, W. 34° 56′†	30.00	762.0				se.			3		9		se			rg'h		dull.
Schr. James Slater, N. 27° 48′ W. 46° 09′*†	30.52	775.2	79	26.1		se.			3		2		sse.	0	0	mod.	se.	fine.
Schr. Jennie N. Huddle, New York, N. Y.†	29.91	759.7	68	20.0	79	sw.			1		8							drizzling.
Schr. John L. Thomas, St. Andrew Id, W. I*†	30.00	762.0				ene.			6		8		e.	5 h'r	5 h'r			squally.
Bkt. Josephine, N. 19° 57′ W. 74° 12′†	30.21	767.3	87	30.6	79	e.			2		0			0	0	long	ne	hazy.
Bk. Julia H., Havana, Cuba, W. I.	30.07	763.8	80.8	27.1	82	calm			0		0							blue sky
Light House Tender, Laurel, Cedar Keys, Florida†	30.06	763.5	80	26.7		sw.			3		9		sw.	0	0	mod	s.	threatening
S. Minnie N. Gerow, N. 41° 00′, W. 39° 56′*†	30.00	762.0				wnw.			2		10		w.			sm'h	wsw.	sprinkling.
S. M. P. Grace, N. 32° 43′, W. 49° 08′*	30.17	766.3	72	22.2		sw.			4				sw.	0	0	sm'h	sw.	fine.
S. S. Nebo, St. John's, N. B*†	30.08	764.0				n.			5		10		n.	0	0			foggy.
S. Paramita, S. 41° 38′ W. 47° 02′†	29.41	747.0	52	11.1		wsw.			9		7?		sw.	9 h'r	9 h'r	hv'y	wsw.	clear.?
Bk. Pawashick, N. 45° 12′, W. 18° 08′*†	30.15	765.8	58	14.4	87	wnw.			5		5		wnw.			mod	wnw.	fine
Bk. Peppina, Verdon Roads, France†	29.99	761.7	72	22.2	75	wsw.			5		8		w.	0	0			cloudy.
S. S. Ponca, S. 4° 28′ W. 36° 30′†.	29.99	761.7	84	28.9		sse.			3		10		se.	4 h'r	4 h'r	h'vy	e.	cloudy.
rg. Potomac, N. 34° 56′, W. 66° 50′*†	30.05	763.3				sw.			3				wsw.	0	0	sm'h		hazy.
Bk. Princessen, N. 50° 16′, W. 1° 33′†	29.75	755.6	58	14.4		s.			4		8			1 h'r	1 h'r	sm'h		sprinkling.
Schr. Rosebud, N. 0° 47′, W. 27° 17*†	30.08	763.3	77	25.0	86	sse.			5		0			0	0	sm'h		fine.
S. Salisbury, S. 41° 06′ E. 54° 03′*	29.68	753.8	52.7	11.5	94	e.			2		fg			0	0	long	e.	clear.
Bk. Stella, N. 15° 44′, W. 138° 20′*	29.92	760.0	71.8	22.1	97	nne.			4		4		ne.	0	0	sm'h	ne.	
Bg. Teneriffe, N. 35° 10′, W. 73° 30′	29.83	757.7				sw.			5		8		sw.	0	0	sm'h		
Bk. Truro, Havre, France*†	29.82	757.4				wnw.			3		10		wnw.	2 h'r	2 h'r			rainy.
U.S.F.C.S.S. Fish Hawk, Havre de Grace, Md†	29.96	761.0	73	22.8	100	sw.			3		9		sw.	0.01	0.3			rainy.
Yacht Vega, St. Thomas Id, W. I*†	30.30	769.6	80	26.7		e.			3				e.	0	0			
S. S. Victoria J Peed, Barranquilla, U. S. C*†	29.11?	739.4?				calm			0		6							
Bk. Vincenzo Accame N. 37° 40′, W. 55° 36′†	30.55	776.0	73.4	23.0		nw.			1									
Schr Viola Reppard, Brunswick, Ga†	29.86	758.4	78	25.6		wsw.			1		9		wsw.	1 h'r	1 h'r			cloudy.
S. Warden Law, N. 39° 52′ W 68° 20′*	29.74	755.4				w.			2		1		sw.	0	0	mod	sw.	fair.
Bk. Wm. Wilcox, N. 7° 50′ W. 29° 10′*†	30.18	766.6	79	26.1		ene.			2		10		ene.	6 h'r	6 h'r	mod.	e.	squally.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 5, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.04	763.0	74.1	23.4	65	se.			1		2			0	0	fair	Moiroud.
Algiers			30.08	764.1	73.4	23.0	68	nne.			3		1			0	0	very fair	Nicolas.
La Calle			30.03	762.8	77.7	25.4	73	nnw.			1		2			0	0	fair	Fonfrède.
Tunis			30.01	762.3															Jacques.
Saida			30.16	766.0	77.0	25.0	43	se.			2		1			0	0	very fair	Perès.
Tebessa			30.14	765.5	70.5	21.4	39	sw.			3		0			0	0	clear	Derché.
Geriville					81.7	27.6	12	ne.			4		0			0	0	clear	Lonchamp.
Laghouat			30.15	765.8	96.1	35.6	30	n.			1		0			0	0	clear	Abraham.
Biskra			30.14	765.6	100.8	38.2	10	se.			6		2			0	0	fair	Malau.
Australian.																			
Melbourne, Victoria	30.13	765.3	30.22	767.6	46.5	8.1	97	e.	5	2.2			2			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.26	743.2	29.78	756.4	79.9	26.6	37	sw.			4		3			0.366	9.3		Prof. Ivan Stozir.
Cracow, I. R. Observatory	29.09	738.9	29.82	757.5	74.8	23.8	47	e.	8.7	3.9			5			0.035	0.9		Dr. Wierzbiski.
Eperies	29.00	736.6	29.86	758.5	72.9	22.7	48	s.			3		9 s			0	0		Julius Mikolik.
Gratz	28.55	725.1	29.74	755.3	73.8	23.2	80	w.			1		3			0	0		Andreas Rospini.
Hermannstadt	28.55	725.2	29.93	760.2	72.5	22.5	41	se.			1		10			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.58	725.8	29.89	759.2	61.2	16.2	83	wnw.			5		10			0.327	8.3	gloomy	The Staff.
Lemberg	28.95	735.4	29.91	759.6	68.5	20.3	42	se.			3		2			0	0		Dr. T. Stanecki.
Pola	29.78	756.3	29.88	759.0	74.8	23.8	70	sse.			5		8			0	0	thunder	I. R. Hydrographic Office.
Szathmar	29.43	747.5	29.88	758.9	75.9	24.4	30	s.			2		3			0.012	0.3		Joseph Midliuszky, S. J.
Szegedin	29.58	751.4	29.85	758.2	76.3	24.6	43	sw.			3		8			0	0	thunder	Karl Stancel.
Trieste	29.77	756.2	29.87	758.8	79.5	26.4	55	s.			1		10			0.673	17.1		Royal Academy.
Vienna	29.15	740.4	29.84	758.0	67.3	19.6	72	w.			3		10			0.047	1.2		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.31	744.5	29.41	747.0	55.5	13.1	73	s.	18	8.0			6			0.060	1.5	d. clouds	W. Boswell
Armagh, Observatory	29.19	741.4	29.43	747.5	56.4	13.6	83	sse.	12	5.4			10					overcast	S. Call.
Bidston, Liverpool Obs'y			29.54	750.3	55.8	13.2	90	se.	14	6.3			10					overcast	John Hartnup.
Bolton, Sharples	29.03	737.3	29.56	750.8	52.9	11.6	96	ssw.	6	2.7			10					raining	Thomas Mackereth, A.S.
Bradford, Yorkshire	29.16	740.7	29.56	750.8	53.7	12.1	90	sw.			2		10			0.21	5.3	raining	J. McLandsborough, F. R
Bridgetown, Barbadoes					77.0	25.0	86	ne.			2		8					overcast	Corpl. J. Surgenor, A. H.O.
Cardington																			John McLaren.
Chatham, School M. E.	29.71	754.6	29.84	757.9	61.7	16.5	70	sw.			3		8			blank	blank	d clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.56	750.8	29.78	756.4	57.7	14.3	90	ssw.			6		10					foggy	The Staff.
Fort Napier, Natal	27.78	705.6	30.00	762.0	67.0	19.4	60	se.			1		0					blue sky	Pvt. Lane, A.H.O.
Free Town, Sierra Leone	29.61	752.1	29.84	757.9	81.0	27.2	78	nw.			1		5					d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	30.04	763.0	30.09	764.3	76.9	24.9	76	ne.			3		3					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.24	742.7	29.45	748.0	59.8	15.4	48	ssw.			5	3 c	0					d clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.64	752.8	29.80	756.9	62.2	16.8	66	sw.			5		10					showery	The Staff.
Guernsey	29.63	752.6	29.92	760.0	62.0	16.7	77	sw.			3		6			blank	blank	d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.77	756.1	29.81	757.2	61.0	16.1	69	sw.	30	13.4			10					threatening	The Staff.
Leicester, Museum	29.42	747.3	29.67	753.6	57.8	14.3	83	sw.			3		10					raining	J. C. Smith.
Malta, Mediterranean	29.94	760.5	30.02	762.5	84.0	28.9	51	se.			2		0					blue sky	I. H. Whysall.
Nassau, Bahamas	30.16	766.1	30.20	767.1	85.5	29.7	77	s.			2		5					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.13	739.9	29.65	753.1	55.3	12.9	95	ssw.			6		10					raining	Warren Middleton.
Oxford, Radcliffe Obs'y	29.52	749.8	29.75	755.6	58.4	14.7	79	s.			6		10					squally	The Staff.
Plymouth	29.72	754.9	29.80	756.9	57.7	14.3	90	sw.			5		10					drizzling	John Merrifield.
Sandwick Manse, Orkneys			29.36	745.7	50	10.0	93	sw.	4	1.8			10					raining	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	30.02	762.5	30.08	764.0	74.4	23.6	56	ssw.			1		2					blue sky	W. H. Lyne.
Sheffield	29.31	744.5	29.58	751.3	60.9	16.1	87	sw.			2		10			0.54	13.7	raining	W. F. Cooper.
Silloth Rectory	29.46	748.3	29.49	749.0	60.5	15.8	69	wsw.			3		3			0.050	1.3	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.58	751.3	53.7	12.1	90	ssw.	13	5.8			10					overcast	J. New.
Stratfield Turgiss	29.60	751.8	29.81	757.2	58.8	14.9	78	sw.			3-4		10					squally	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.76	755.9	29.78	756.4	60	15.6	87	sw.			7		10					raining	W. Newcombe.
Valencia, Observatory	29.49	749.0	29.52	749.8	59.0	15.0	78	sw.	28	12.5			10			blank	blank	d clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.50	749.3	29.55	750.6	52	11.1	98	sw.	4	1.8			10 n		calm	0.565	14.4	clearing	H. J. Cundall, C. E.
Chatham, N. B*	29.55	750.6	29.61	752.1	44	6.7	96	nw.	9	4.0			10 n		nw.	1.00	25.4	cloudy	G. A. Blair.
Father Point, Quebec*	29.63	752.6	29.66	753.4	41	5.0	92	ne.	20	8.9		fg	fg.			0.57	14.5	light rain	J. McWilliams.
Halifax, N. S*	29.46	748.3	29.59	751.6	49	9.4	100	e.	3	1.3			fg			1.480	37.6	foggy	A. Allison.
Kingston, Ontario*	29.31	744.5	29.64	752.8	51	10.6	83	nw.	8	3.6			10 k		sw.	0.01	0.3	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.39	746.5	29.60	751.8	49	9.4	93	w.	10	4.5			10 n			0.20	5.1	light rain	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.06	738.1	29.75	755.6	51	10.6	83	n.	8	3.6		o	o			0.11	2.8	clear	Rev. R. Mosley.
Port Dover, Ontario	29.08	738.6	29.77	756.1	48	8.9	85	nw	8	3.6		10 k	o	nw.		0.07	1.8	cloudy	H. Morgan.
Port Stanley, Ontario	29.16	740.7	29.80	756.9	47.0	8.3	93	nw.	14	6.3			10 n		nw.	0.17	4.3	cloudy	M. Payne.
Quebec, Quebec*	29.30	744.2	29.62	752.3	45	7.2	93	e.			3		10 n		e.	0.37	9.4	light rain	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.22	742.2	29.67	753.6	50	10.0	80	nw.	5	2.2			8 ks		n.	0.19	4.8		W. H. McIntyre.
Sangeen, Ontario*	29.09	738.9	29.80	756.9	45	7.2	83	nw.	12	5.4		2 cs	o			0.05	1.3	clear	
St. Andrews, N. B	29.52	749.8	29.57	751.1	50	10.0	93	n.	1	0.4			10 n			0.76	19.3	cloudy	
Sydney, C. B*	29.54	750.3	29.59	751.6	42	5.6	96	n.	2	0.9			10 n			0.80	20.3	cloudy	T. C. Hill, C. E
Toronto, Ontario*	29.35	745.5	29.73	755.1	49	9.4	89	nw.	14	6.3			10 ks		n.	0.01	0.3	cloudy	Magnetic Observatory.
Yarmouth, N. S*	29.50	749.3	29.57	751.1	47	8.3	96	sw.	1	0.4		fg.	fg.			1.11	28.2	dense fog	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest																			Wm. Wylie.
St. Johns, Newfoundland	29.92	760.0	30.18	766.5	37	2.8	100	se.	3	1.3			10 n			0.08	2.0	raining	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.11	764.8	30.14	765.8	61.0	16.1	77	wsw.	16.6	7.4		o	o			0.060	1.5	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	30.19	766.8	30.23	767.8	58.0	14.4	76	nw.	17	7.6		8	9			o	o		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Chinese (Sub-series).																			
Hankow	29.70	754.4	29.96	761.0	79.7	26.5	70	e.			2		10			0	0	covered	N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.95	760.6	29.97	761.2	67.8	19.9	85	ese.	10.5	4.7		7 ck	0			0	0	very cloudy	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.74	755.4	29.79	756.6	65.1	18.4	68	sw.	16	7			9						Oversergent Fischer.
Fanöe	29.79	756.6	29.85	758.1	59.5	15.3	88	wsw.			4		3						Overloerer Lauridsen.
Godthaab, Greenland	29.67	753.5	29.71	754.6	35.4	1.9	84	ene.			2		10			0	0		S. Kleinschmidt.
Stykkisholm, Iceland	29.48	748.7	29.52	749.8	41.7	5.4	87	e.			2		8						A. O. Thorlacius.
Thorshavn	29.24	742.8	29.28	743.7	53.8	12.1	82	sw.	9	4			4						Overloerer Bergh.
Vestervig	29.63	752.6	29.72	754.9	58.5	14.7	86	sw.			6		2						Loearer Oesterbol.
French.																			
Agen, Normal School	29.55	750.6	30.19	766.8	68.0	20	50	wsw.			2		kn			0	0		M. Labroue, Director.
Alençon, Normal School	29.56	750.7	30.08	764.1	65.1	18.4	96	sw.			4		n			0.126	3.2		M. Nicot, Director.
Arras, Engineer School	29.72	754.9	29.97	761.3	61.2	16.2	71	sw.			4		kn			0.004	0.1		M. Fénéon, Command't.
Avignon, Normal School	30.00	762.1	30.08	764.1	68.7	20.4	69	n.			3		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.57	751.0	30.11	764.8	67.3	19.6	58	s.			2		6			0.039	1.0	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.78	756.3	30.03	762.7	68.0	20	55	wsw.			3		8		w.	0.35	9.	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.08	738.6	30.03	762.7	64.6	18.1	62	sw.			1		10 cn		ne.	0.764	19.4	raining	M. Gobin, Director.
Bordeaux, Observatory	29.90	759.5	30.16	766.0	67.5	19.7	58	w.			1		8			0.024	0.6	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.56	750.9	30.11	764.7	64.4	18	53	sw.			1		k		sw.	0.024	0.6		M. Postel, Director.
Brest, Naval Observatory	29.72	754.8	29.96	761.0	61.5	16.4	81	sw.			3		10		sw.	0.059	1.5		M. de Kermarec, Dir.
Caen, Normal School	29.89	759.2	29.97	761.1	65.1	18.4	52	sw.			2		5		sw.	0.169	4.3	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.70	754.4	30.02	762.4	66.2	19.0	54	ssw.			4		2		sw.	0.165	4.2	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.49	749.1	29.99	761.8	67.6	19.8	40	sw.			1		8		e.	0.08	2.	¾ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.80	731.6	30.13	765.3	66.2	19.0	53	w.			2		8		wnw.	0.055	1.4	¾ covered	M. Alluard, Director.
Cluny, Normal School	29.31	744.5	30.20	767.0	64.9	18.3	53	nw.			3		5		w.	0.437	11.1		M. de Villemontée, Dir.
Commercy, Normal School	29.22	742.3	30.07	763.8	63.1	17.3	56	w.			3	ck		w.	w.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.53	699.2	29.99	761.8	69.4	20.8	46	nw.			2	0	1 s		s.	0.12	3.		M. Jeangirard, Director.
Grénoble, Normal School	28.90	734.0	29.99	761.8	69.8	21.0	28	nw.			6		1		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.35	745.4	30.10	764.6	62.6	17	59	nw.			4		kn			0.713	18.1		M. Ablard, Director.
Guéret, Normal School	28.40	721.4	29.96	761.0	60.8	16	83	sw.			1		10		sw.	0.724	18.4	covered	M. Rivoire, Director.
Lamballe, Normal School	29.79	756.7	30.07	763.7	65.1	18.4	50	sw.			4		5		sw.	0.04	1.	cloudy	M. Olitrault, Director.
Lescar, Normal School	29.60	751.9	30.10	766.0	69.4	20.8	50	nw.			1		5			0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.95	760.8	30.06	763.4	62.6	17.0	80	sw.			6		10	s.	w.	0.039	1.0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.12	739.6	30.17	766.2	62.6	17.0	52	n.			1		5n; k	nw.	wnw.	1.272	32.3	cloudy	M. André, Director.
Mans, Normal School	29.81	757.2	30.11	764.9	64.2	17.9	65	w.			4		5		w.	0.106	2.7	cloudy	M. Piboen, Director.
Marseille, Observatory	29.75	755.6	30.01	762.3	72.9	22.7	35	nw.			6		2		nw.	0	0		M. Stephan, Director.
Montlouis	25.00	634.9	29.84	757.9	61.7	16.5	49	e.	9.4	4.2			3		e.	0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.96	761.0	30.09	764.2	71.2	21.8	48	nw.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.27	743.5	30.04	763.0	62.6	17.0	66	wsw.			2		k		w.	0.16	4.		M. Hasse, Director
Nantes, Observatory	29.97	761.2	30.13	765.3	66.7	19.3	57	wsw.			2–3		8 k; kn		sw.	0.134	3.4		M. Larocque, Director.
Perpignan, Observatory	30.03	762.7	30.13	765.3	74.5	23.6	39	e.	15.0	6.7		1	1	nw.	nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.40	543.6			46.4	8.0		sw.			1		5		sw.	0.004	0.1	cloudy	Gen'l de Nansouty, Dir.
Privas, Normal School	29.07	738.4	30.11	764.9	66.4	19.1	46	ne.			3		2	se.	ne.	0.165	4.2	slightly cl'dy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.27	641.8			41.9	5.5	92	wnw.			4		8		w.	0.386	9.8	¾ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	30.12	765.0	30.15	765.8	65.7	18.7	100	sw.			2		8		ssw.		0	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.88	759.0	30.10	764.5	63.3	17.4	72	sw.			4		5	sw.	sw.	0.098	2.5	cloudy	M. Mouillot, Director.
Rodez, Normal School	28.05	712.5	30.18	766.5	61.9	16.6	66	nw.			2		kn		nw.	0.071	1.8		M. Seger, Director.
Rouen, Normal School	29.96	761.0	30.01	762.2	65.5	18.6	69	ssw.			1		10	ssw.		0.138	3.5	covered	M. Brotier.
Saint Maur, Observatory	29.89	759.3	30.06	763.5	65.5	18.6	52	wsw.			2		7	nw.	sw.	0.165	4.2		M. Renou, Director.
Toulouse, Observatory	29.52	749.9	30.25	768.4	72.0	22.2	44	nw.			1		2	nw.		0.079	2.0	slightly cl'dy	M. Baillard, Director.
Tours	29.93	760.2	30.10	764.6	68.0	20.0	55	sw.			1		5	sw.	sw.	0.035	0.9	cloudy	M. de Tastes.
Versailles, Observatory	29.57	751.1	30.06	763.6	65.5	18.6	54	w.			2					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.78	756.3	30.07	763.7	65.3	18.5	54	wsw.			2		7	sw.	sw.	0.055	1.4		M. Marié Davy, Director
German.																			
Bamberg	29.13	739.8	29.98	761.5	63.7	17.6	70	s.			2	0	8 k		w.	0.20	5.		Prof. Dr. Hoh.
Berlin	29.78	756.3	29.95	760.8	59.0	15.0	100	nw.			2		10			0.693	17.6		Prof. Dr. Arndt.
Breslau	29.30	744.3	29.83	757.7	74.5	23.6	35	ssw.			4		5			0	0		Royal University Obs'y.
Carlsruhe	29.62	752.4	30.06	763.4	62.6	17.0	76	w.			2		9	sw.		0	0		Albert Senz.
Cassel	29.23	742.5	29.95	760.6	70.3	21.3	55	w.			4		8	w.		1.378	35.0		Dr. H. Mohl.
Frankfort-on-the-Main	29.61	752.2	29.97	761.2	67.5	19.7	68	w.			1		9			0.020	0.5		Physical Society.
Friedrichshafen	28.65	727.7	30.06	763.6	63.3	17.4	72	w.			3		10	w.		0.228	5.8		Wilhelm, Chief Tel.
Hamburg	29.84	757.8	29.93	760.2	64.0	17.8	61	wsw.			4		9			0.071	1.8		E. Preller.
Kiel	29.83	757.7	29.85	758.1	64.0	17.8	58	w.			5		10			0.390	9.9		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.48	748.7	29.89	759.3	60.4	15.8	81	nw.			3		10			1.614	41.0	sprinkling	H. Leppig, Asst.
Magdeburg	29.71	754.5	29.89	759.1	65.3	18.5	63	wnw.			3		10 ks		wnw.	0.150	3.8		Dr. Assmann.
Memel	29.89	759.3	29.94	760.5	72.7	22.6	40	s.			2	3 ck	0						Issermann.
Munich	28.25	717.6	30.12	765.0	55.4	13.0	70	w.			3		10	sw.		1.701	43.2	raining	Central Station.
Neufahrwasser	29.83	757.6	29.84	758.0	72.7	22.6	44	sse.			3		10			0	0		A. Lothes.
Neustadt, Palatinate	29.48	748.7	30.00	762.1	63.0	17.2	69	w.			2		8	w.		0	0		Dickmethier.
Stuttgart	29.08	738.7	29.96	761.0	63.5	17.5	64	nw.			3		7	w.		0.083	2.1		Prof. Dr. Schoder.
Wustrow	29.84	757.9	29.86	758.5	61.2	16.2	88	ssw.			3		10 s			0.083	2.1		Profs. Brandes & Reimer
Greek.																			
Athens	29.73	755.1			72.5	22.5		sw.			4.0	1 c	0			0	0	clear	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.51	749.6	29.56	750.9	89.0	31.7	76	wsw.	32.0	14.3			1			0	0	misty	
Deesa	28.95	735.3	29.39	746.6	105.1	40.6	36	w.	17.3	7.7			0			0	0	blue sky	
Bombay	29.57	751.1	29.61	752.0	84.2	29.0	83	w.	8.0	3.6			10		wnw.	0.54	13.7	overcast	
Poona, Yarrowda	27.74	704.5	29.57	751.0	81.3	27.4	69	wsw.	23.0	10.3			9		wnw.	0.02	0.5	d. clouds	
Trichinopoly	29.45	748.0	29.73	755.0	81.9	27.7	63	w.	4.0	1.8			10			0	0	overcast	
Bellary	28.16	715.2	29.61	752.0	82.0	27.8	62	w.	15.3	6.8			9	w.		0	0	gloomy	
Belgaum	27.12	688.8	29.67	753.6	69.6	20.9	93	wsw.	11.0	4.9			10			1.60	40.6	drizzling	
Lahore	28.58	726.0	29.27	743.5	108.3	42.4	14	nw.	1.9	0.8			0			0	0	blue sky	
Roorkee	28.46	723.0	29.31	744.5	102.3	39.1	26	s.	2.0	0.9			2			0	0		
Agra	28.78	731.0	29.31	744.4	106.1	41.2	19	n.	4.1	1.8			0			0	0	blue sky	
Nagpur	28.42	722.0	29.46	748.2	80.0	26.7	82	sw.	3.9	1.7			9		sw.	0.06	1.5	gloomy	
Jubbulpore	28.13	714.6	29.45	748.0	88.6	31.4	37	se.	3.6	1.6			8		se.	0	0	gloomy	
Lucknow	29.02	737.2	29.38	746.3	100.1	37.8	41	ese.	4.2	1.9			0			0.13	3.3	blue sky	
Allahabad	29.12	739.7	29.42	747.3	95.0	35.0	39	ese.	3.5	1.6			7			0	0	d. clouds	
Patna	29.36	745.8	29.55	750.4	83.8	28.8	64	e.	9.2	4.1			10	e.	e.	0	0	overcast	
Hazaribagh	27.53	699.2	29.51	749.6	79.8	26.6	76	n.	8.6	3.8			10			1.54	39.1	thund'r st'm	
Cuttack	29.39	746.6	29.47	748.6	89.1	31.7	58	s.	0.8	0.4			8			0.53	13.5	d. clouds	
Calcutta, Alipore	29.56	750.7	29.58	751.3	75.7	24.3	91	ene.	19.0	8.5			9		n.	0.71	18.0	d. clouds	
Dhubri	29.42	747.1	29.53	750.1	79.1	26.2	87	ene.	4.6	2.1			8	w.		0.13	3.3	d. clouds	
Chittagong	29.48	748.7	29.56	750.9	87.2	30.7	79	w.	2.5	1.1			4			0	0	blue sky	
Sibsagar	29.24	742.7	29.57	751.0	85.1	29.5	75	sw.	1.6	0.7			8	sw.	sw.	0	0	d. clouds	
Jeypore	27.97	710.4	29.33	744.9	105.2	40.7	27	nw.	6.7	3.0			4		nw.	0	0	d. clouds	
Zanzibar, Africa	30.01	762.2			81.5	27.5	66	sw.	5.2	2.3			6		se.	0	0	d. clouds	
Italian.																			
Udine	29.47	748.4	29.86	758.5	72.9	22.7	80	sw.	4.3	1.9			10			0	0		Prof. Giovanni Clodig.
Milan	29.35	745.5	29.83	758.1	77.9	25.5	44	e.	3.8	1.7			5	nnw.		0	0		Prof. Schiaparelli.
Padua	29.72	754.9	29.83	757.6	79.9	26.6	47	w.	4.9	2.2			8	w.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.96	735.6	29.83	757.7	77.7	25.4	44	nw.	3.1	1.4			3	e.		0	0		Prof. P. F. Denza.
Genoa	29.70	754.4	29.89	759.1	71.6	22.0	63	se.	9.8	4.4			8	se.		0	0		Prof. G. M. Garibaldi.
Mondovi	27.97	710.4	29.82	757.3	73.8	23.2	49	nw.			6		3	nw.		0	0		Prof. D. O. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
ITALIAN.—Continued.																			
Pesaro	29.80	756.9	29.85	758.1	81.7	27.6	48	w.	9.8	4.4			10			0	0		Prof. Luigi Guidi.
Florence	29.66	753 3	29.91	759.6	78.4	25.8	53	w.			4		7			0	0		Prof. Costantino Pitter.
Leghorn	29.81	757.1	29.89	759.2	74.3	23.5	56	w.	9.4	4.2			4			0	0		Prof. P. Monte.
Rome	29.82	757.4	29.99	761.7	75.6	24.2	69	sw.	16.8	7.5			10			0	0		Prof. P. S. Ferrari.
Lecce	29.74	755.3	29.98	761.5	79.7	26.5	59	sse.	24.2	10.6			3	s.		0	0		Prof. C. de Giorgi.
Cosenza	29.11	739.4	29.96	761.0	89.6	32.0	75	se.	1.8	0.8			5	s.		0	0		Prof. D. Conti.
Cagliari	29.76	755.8	29.94	760.5	80.2	26.8	48	nw.			6		8	w.		0	0		Prof. A. Pacinotti.
Palermo	29.77	756.1	30.01	762.3	80.2	26.8	52	ne.	8.7	3.9			1			0	0		Prof. G. Ciacciatore.
Syracuse	29.93	760.3	29.98	761.4	82.6	28.1	59	s.	13.0	5.8			0			0	0		Prof. Vincenzo Gulliano
Sub-series.																			
Naples, S. R	29.46	748.2	29.96	761.0	79.9	26.6	60	sw.	8.1	3.6			8			0	0		Prof. T. Brioschi.
Stelvio	22.20	563.8			40.3	4.6	66	n.			2		10			0.504	12.8	covered	Prof. P. F. Denza.
Valdobbia	22.22	564 4			44.6	7.0	65	ne.			6		8			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.76	755.9	29.79	756.6	50.0	10.0	79	ne.	11.5	5.1		0	9 k;ks			0.334	8.5	cloudy	K. Ogawa.
Hakodate	29.84	757.9	29.85	758.2	47.5	8.6	93	e.	18.0	8.0			10			0.725	18.4	raining	
Hiroshima, I. M. Obs'y	29.87	758.7	29.88	758.9	58.2	14.6	67	nne.	7.1	3.2		0	0			0	0	clear	I. Sogawa.
Kanazawa	29.81	757.2	29.92	759.9	53.7	12.1	89	wnw.	14.9	6.6		ck	9 ks;s			0.825	21.0	overcast	S. Endo.
Kioto	29.63	752.6	29.80	756.9	57.1	13.9	66	wnw.	1.7	0.8		0	0			0	0	clear	M. Tojima.
Kochi	29.82	757.4	29.84	757.9	61.0	16.1	73	nw.	4.1	1.8		0	0			0	0	clear	K. Kusunose.
Nagasaki, I. M. Obs'y	29.74	755.4	29.95	760.7	58.1	14.5	69	nne.	6.0	2.7		0	0			0	0	clear	S. Takehayashi.
Nemuro	29.97	761.2	30.03	762.7	41.8	5.4	96	calm	0	0		10	0					rainy	
Niigata	29.68	753.9	29.71	754.6	56.7	13.7	81	sw.	6.6	2.9			10 n		sw.	0.265	6.7	light rain	M. Morita.
Nobiru	29.61	752.1	29.63	752.6	55.7	13.2	90	n.	12.8	5.7			10 n			0.240	6.1	light rain	H. Midzushina.
Sapporo					51.0	10.6	89	e.	2.4	1.1			10			0	0	covered	
Tokei Obs'y, Yeddo	29.49	749.0	29.56	750.8	61.3	16.3	89	nw.	9.7	4.3		0	9 s			0.037	0.9	cloudy	The Staff.
Wakayama	29.77	756.1	29.83	757.7	60.7	15.9	68	n.	2.8	1.3		0	1 ks		nnw.	inap.	inap.	fair	Y. Kuwamuea.
MAURITIUS																			
Mauritius Observatory	29.91	759.7	30.10	764.5	75.2	24.0	68	ese.	6.5	2.9		0	6 ks;n		wsw.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.72	602.5	29.94	760.5	63.5	17.5	80	calm	0	0			10ks;n		w.	0.308	7.8	cloudy	Prof. Vicente Fernandez.
Leon	24.35	618.5	29.95	760.7	64.9	18.3	83	ene.			1	8 c	1 s	w.		0.047	1.2	cloudy	Prof. M. Leal.
Mazatlan	29.70	754.3	29.96	760.9	76.5	24.7	91	nw.	1.6	0.8		4 ck	0	sw.		0	0	light haze	F. Quijano, C. E.
Mexico, Central Obs'y	23.15	588.0	30.19	766.8	56.1	13.4	85	calm	0	0		6 c	4 kn			0.114	2.9	covered	The Staff.
Morelia	24.26	616.1	30.33	770.3	60.8	16.0	63	ne.			1	1	1	s.	s.	0.248	6.3		M. Tena, M. D.
Pabellon, Aguascalientes	23.93	607.8	29.90	759.4	62.4	16.9	92	ssw.			1					1.260	32.0		M. V. de Leon, M. E.
Puebla, Catholic Institute	23.45	595.6	30.20	767.1	54.9	12.7	90	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
San Luis Potosi	24.29	617.0	30.28	768.9	59.4	15.2	76	se.					10		w.	0.140	3.7	covered	G. Barroeta, M. D.
Zacatecas	22.62	574.5	30.23	767.7	54.0	12.2	87						10			0.892	22.7	foggy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.94	760.4	29.94	760.4	64.4	18.0		sw.			5					0.126	3.2		
Groningen	29.80	756.9	29.85	758.3	65 3	18.5		w.			5					0.213	5.4		
Helder	29.82	757.5	29.82	757.5	61.2	16.2		sw.			6					0.008	0.2		
Hellevoetsluis	29.90	759.5	29.90	759.5	62.6	17.0	67	wsw.			4					0	0		
Utrecht	29.87	758.7	29.92	759.9	66.0	18.9	57	sw.			4		5			0	0	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.47	748.6	29.54	750.2	58.3	14.6	87	s.	9	4			10					raining	
Brono	29.59	751.5	29.63	752.5	66.9	19.4	43	sse.	9	4			8			0	0		
Christiania	29.51	749.6	29.66	753.3	56.7	13.7	94	sse.	0	0			10			0.035	0.9	raining	
Gjesvær	29.78	756.5	29.81	757.1	42.1	5.6		ne.			4		10						
Lodingen	29.63	752.6	29.68	753.8	58.6	14.8	37	ne.			2		4			0	0		
PORTUGUESE.																			
Angra, Azores					65.7	18.7	84	w.	11.2	5.0			3			0.138	3.5		Dr. J. A. Sampaio.
Campo Major	29.15	740.3	30.11	764.9	77.4	25.2	32	ese.	1.8	0.8			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.17	766.3	30.26	768.5	66.9	19.4	60	sw.	6.3	2.8			8			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.84	757.9	30.19	766.9	70.3	21.3	49	ese.	6.3	2.8			0			0	0		The Staff.
Ponta Delgada, Azores	30.10	764.4	30.17	766.2	69.1	20.6	76	wnw.	11.2	5.0			3			0.142	3.6		
Saint Paul de Loando	29.81	757.1	30.01	762.2	76.6	24.8	84	n.	0.7	0.3			3	sse.		0	0		
Serra da Estrella	25.44	646.2	30.10	764.5	58.1	14.5	42	e.	8.7	3.9			1			0	0		
RUSSIAN.																			
Akmolinski	28.58	726.0	29.59	751.5	81.7	27.6	28	se.	13	6		3 ck	0			0	0		Major K. Lasarew.
Archangel	29.93	760.1	29.95	760.6	45.1	7.3	73	nnw.	13	6			10			0	0		Capt. Sseliwerstow.
Astrakhan	29.47	748.5	29.39	746.4	56.1	13.4	94	w.	31	14			10 n			1.508	38.3		Capt. Wisganow.
Barnaul	29.38	746.2	29.85	758.3	71.1	21.7	40	ne.	18	8			0			0	0		Meteorological Obs'y.
Dorpat	29.72	755.0	29.96	760.9	69.3	20.7	58	ne.	7	3		0	4 k			blank	blank		Observatory.
Ekaterinburg	28.72	729.6	29.66	753.4	58.3	14.6	77	ene.	9	4			9			0.161	4.1		Meteorological Obs'y.
Kasan	29.22	742.2	29.48	748.8	62.2	16.8	83	n.	4	2			10 n			0	0		Observatory.
Kertich	29.69	754.0	29.71	754.5	59.2	15.1	58	nw.	45	20		c	6 ks			0	0		Lagorio & Sastyrex.
Kieff	29.21	742.0	29.82	757.5	68.0	20.0	33	nnw.	18	8		ck;cs	4 ks			0	0		Observatory.
Lugan	29.24	742.7	29.44	747.7	63.9	17.7	74	nnw.	18	8			10			blank	blank		Meteorological Obs'y
Moscow	29.24	742.6	29.69	754.1	67.1	19.5	38	n.	10.1	4.5			7 ks						Meteorological Obs'y.
Nikolajev	29.81	757.2	29.88	759.0	70.2	21.2	43	n.	9	4		0	8 kn			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.67	753.7	29.76	755.9	56.3	13.5	85	e.	11	5			1			0	0		Lieut. Iwanow.
Pekin, China	29.76	756.0	29.91	759.6	72.9	22.7	57	se.	7	3		0	5 ks			0	0		Physical Observatory
St. Petersburg	29.97	761 1	29.98	761.5	60.8	16.0	43	wnw.	9	4		ck	1 k			0	0		Central Physical Obs'y.
Semipalatinsk	29.04	737.6	29.65	753.1	82.0	27.8	21	nne.	18	8		1 c	0			0	0		Major Lasarew.
Tashkend, Laboratory	28.06	712.6	29.49	749.0	91.4	33.0	40	calm	0	0			0						Telch, A. M.
Tiflis	28.24	717.4	29.63	752.6	59.9	15.5	55	nw.	18	8		0	7 n			0.669	17.0		Physical Observatory
Vladivostock	29.81	757.2			51.8	11.0	86	calm	0	0		0	0						
Warsaw	29.46	748.2	29.86	758.4	76.3	24.6	28	s.	13	6		8 ck	0			0	0		Astronomical Obs'y
Wilna	29.54	750.3	29.95	760.6	69.8	21.0	38	calm	0	0			1						Berg, Assistant.
SPANISH.																			
Barcelona, Met. Obs'y	30.00	762.0	30.10	764.6	70.9	21.6	65	s.	4.3	1.9		c	1 k			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.11	764.9	30.17	760.4	76.1	24.5	52	nw.	1.3	0.6		3	1	s.		0.016	0.4	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.22	691.3	30.13	765.2	65.1	18.4	59	sw.	6.3	2.8			0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.95	710.0	30.11	764.7	75.2	24.0	42	ne.	4.0	1.8		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.95	760.7	30.08	763.9	80.2	26.8	57	ene.	6.9	3.1		0	2			0	0	almost clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.22	742.2	30.10	764.6	63.9	17.7	78	sw.	16.1	7.2			6			0.079	2.0	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	30.07	763.8	30.14	765.4	81.6	27.6	82	calm	0	0		0	0			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.79	756.7	29.85	758.2	81.5	27.5	85	nw.	0.2	0.0		4 c	3 ks		e.	0	0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.01	762.2	30.11	764.7	73.6	23.1	63	wnw.	8.6	3.9		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.04	762.9	30.13	765.2	82.0	27.8	78	e.	10.7	4.8		3 c	2 k	e.	e.	0	0		Manuel Maese.
Tuguegarao, Philippine Id's	29.74	755.4	29.88	758.9	78.7	25.9	88	nnw.	1.1	0.5		0	4 ks		nne.	0.10	2.5	slightly cl'dy	José L. Ynastorza.
SWEDISH																			
Haparanda	29.97	761.1	30.00	762.1	53.6	12.0	52	s.			4		0			0	0		
Umea	29.93	760.1	29.98	761.4	58.3	14.6	33	sw.			4		6			0	0		
Hernosand	29.85	758.2	29.90	759.5	59.7	15.4	85	ese.			4		5			0.008	0.2		
Stockholm	29.63	752.7	29.81	757.2	61.2	16.2	62	se.			6		10			0	0		
Wisby	29.76	755.9	29.82	757.4	70.5	21.4	53	ssw.			4		3			0	0		
Sub-series.																			
Upsala	29.68	753.8	29.76	756.0	60.8	16.0	64	se.	10.1	4.5			10		se.	0.016	0.4		S. G. Fineman.
SWISS.																			
Geneva	28.74	729.9	30.14	765.6	60.8	16.0	51	n.			1					0.319	8.1	covered	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
SCOTTISH.																			
Monach Lt			29.28	743.7	57	13.9	93	sse.			3	3	3	s.		0.2	5.		J. Youngclause.
TURKISH.																			
Constantinople			30.12	765.1	68.9	20.5	55	sw.	10.1	4.5			4		nnw.	0	0		The Observatory.
Valona			30.13	765.2	81.5	27.5		w.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.98	761.4	71.1	21.7	52	nw.			1	0	7 ks		nw.	0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.62	752.3	29.70	754.4	58	14.4	69	s.	3	1.3			10 s		sw.	0.55	14.0	cloudy	J. O. Barnes.
Alpena, Michigan	29.25	742.9	29.90	759.4	50	10.0	64	nw.	11	4.9		0	1 k		n.	0.37	9.4	clear	Jas. J. Fitzgerald.
Atlanta, Georgia	28.98	736.1	30.13	765.3	62.0	16.7	58	nw.	7	3.1		1 c	0			0	0	clear	H. Hall.
Atlantic City, New Jersey	29.78	756.4	29.79	756.7	60	15.6	65	w.	6	2.7			10 s		w.	0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.96	761.0	30.14	765.5	66	18.9	58	nw.	3	1.3		7 c	0	sw.		0	0	fair	John Henly.
Baltimore, Maryland	29.79	756.7	29.84	757.9	62	16.7	56	w.	10	4.5		2 k	0	w.		0.04	1.0	clear	Robert Seybolt.
Barnegat, New Jersey	29.76	755.9	29.78	756.4	60.3	15.7	64	w.	13	5.8			10 k;s		sw.	0	0	cloudy	Chas. F. Merritt.
Behring Island, Behring Sea	29.44	747.8	29.46	748.3	37.8	3.2		ne.	24	10.7			10 s			0.06	1.5	light rain	Dr. L. Steineger.
Bismarck, Dakota	28.42	721.9	30.17	766.3	48	8.9	80	w.	2	0.9		1 c	0			0	0	clear	Cyrus Cramer.
Boise City, Idaho	27.08	687.8	29.86	758.4	63	17.2	40	w.	4	1.8			10 s		calm	0	0	cloudy	B. E. Light.
Boston, Massachusetts	29.56	750.8	29.71	754.6	57.0	13.9	67	w.	4	1.8		7 cs	0	w.		0.14	3.6	fair	O. B. Cole.
Brownsville, Texas	30.00	762.0	30.04	763.0	71.0	21.7	94	n.	1	0.4			10 s		calm	1.31	33.3	cloudy	M. McCarty.
Buffalo, New York	28.99	736.3	29.73	755.1	48	8.9	88	w.	10	4.5			10 s		nw.	0.04	1.0	cloudy	Wm. Finn.
Burlington, Vermont	29.35	745.5	29.64	752.8	53.0	11.7	72	s.	1	0.4			10 s		w.	0.01	0.3	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.83	757.7	30.22	767.6	61.6	16.4	68	nw.	4	1.8		0	0			0	0	clear	W. H. Ray.
Campo, California	27.41	696.2	29.89	759.2	33.5	0.8	81	s.	3	1.3		0	0			0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.21	691.1	29.84	757.9	59	15.0	58	se.			1	3 cs	4 ks	w.	w.	inap.	inap.	fair	J. T. Fitzgerald.
Cape Henry, Virginia	29.88	758.9	29.90	759.4	65	18.3	58	w.	14	6.3		0	0			0.30	7.6	clear	A. K. Alderson.
Cape May, New Jersey	29.78	756.4	29.81	757.2	62	16.7	67	w.	10	4.5			10 ks		sw.	0.02	0.5	cloudy	W. Bolton.
Cedar Keys, Florida	30.12	765.0	30.14	765.5	77	25.0	82	w.	6	2.7			10 ks		n.	0.03	0.8	cloudy	F. W. Mixer.
Champaign, Illinois	29.29	744.0	30.08	764.0	55.0	12.8	77	w.	8	3.6		6 ck	0	nw.		0.06	1.5	fair	L. A. Welsh.
Charleston, S. Carolina	30.02	762.5	30.07	763.8	69	20.6	57	w.	8	3.6		0	8 s		w.	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.17	740.9	30.00	762.0	66.0	18.9	49	nw.	2	0.9		0	0			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.37	746.0	30.18	766.6	59.0	15.0	65	w.	4	1.8		1 cs	0			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.24	615.7	29.98	761.5	44.4	6.9	93	s.	8	3.6			10 s		s.	0.04	1.0	cloudy	E. McGovern.
Chicago, Illinois	29.35	745.5	30.04	763.0	50.4	10.2	82	w.	8	3.6		0	0			0.14	3.6	clear	J. Mitchell.
Chincoteague, Virginia	29.82	757.4	29.84	757.9	64	17.8	84	nw.	13	5.8		2 c	0	w.		0.07	1.8	clear	V. P. Temple.
Cincinnati, Ohio	29.39	746.5	30.04	763.0	54.7	12.6	70	w.	10	4.5		7 k	0	nw.		0.14	3.6	fair	R. B. Watkins.
Cleveland, Ohio	29.15	740.4	29.88	758.9	49	9.4	82	nw.	16	7.2			10 s		nw.	0.25	6.3	cloudy	J. B. Newlin.
Coleman City, Texas	28.38	720.8	30.13	765.3	62	16.7	72	e.	5	2.2			10 s			0	0	threatening	L. Dorman.
Columbus, Ohio	29.10	739.1	29.94	760.5	50	10.0	77	w.	10	4.5			10 ks		sw.	inap.	inap.	threatening	D. Cuthbertson.
Concho, Texas	28.25	717.5	30.12	765.0	60	15.6	100	ne.	6	2.7			10 n		n.	0.10	2.5	light rain	W. W. McConihe.
Davenport, Iowa	29.45	748.0	30.09	764.3	53	11.7	72	w.	2	0.9		0	hz.		calm	0.02	0.5	clear	R. R. Martin.
Dayton, Washington T'y	28.04	712.2	29.78	756.4	58	14.4	69	n.	4	1.8		2 c	0	sw.		0	0	clear	H. Clifford.
Deadwood, Dakota	25.59	650.0	30.02	762.5	43	6.1	86	sw.	6	2.7		2 k	0	w.		0	0	clear	G. W. Scott.
Decatur, Texas																			D. J. Carr.
Delaware Breakwater, Del.	29.81	757.2	29.83	757.7	60	15.6	70	sw.	11	4.9			9 s		sw.	0.14	3.6	cloudy	F. C. Pratz.
Denison, Texas	29.44	747.8	30.22	767.6	61.4	16.3	78	ne.	4	1.8		10 ck	0	w.		0	0	cloudy	J. McGlone.
Denver, Colorado	24.91	632.7	29.95	760.7	51.0	10.6	72	se.	2	0.9		0	6 s		calm	0.11	2.8	fair	F. M. Neal.
Des Moines, Iowa	29.30	744.2	30.18	766.6	48	8.9	77	n.	2	0.9		0	0			0.01	0.3	clear	F. W. Conrad.
Detroit, Michigan	29.21	741.9	29.90	759.4	52.2	11.2	80	nw.	13	5.8		0	0			0.08	2.0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.69	703.3	30.20	767.1	52	11.1	93	sw.	3	1.3			10 s			0	0	cloudy	E. A. Thomas.
Dubuque, Iowa	29.39	746.5	30.08	764.0	48.8	9.3	68	se.	1	0.4		0	0			inap.	inap.	clear	J. Harvey Smith.
Duluth, Minnesota	29.37	746.0	30.06	763.5	58	14.4	42	nw.	19	8.5		3 cs	hz.	calm		0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.33	745.0	30.12	765.0	67.1	19.5	90	se.	1	0.4			10 s		se.	0.17	4.3	cloudy	F. Belford.
Eagle Rock, Idaho	25.27	641.8	29.86	758.4	48	8.9	48	w.	4	1.8		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.51	749.5	29.58	751.3	49.5	9.7	93	nw.	4	1.8			10 s		nw.	1.06	26.9	cloudy	D. O. Murphy.
El Paso, Texas	26.30	668.0	29.89	759.2	64	17.8	65	ne.	1	0.4		4 k	0	e.		0.02	0.5	fair	J. F. Marshall.
Erie, Pennsylvania	29.09	738.9	29.81	757.2	49	9.4	93	nw.	15	6.7			10 s		nw.	0.77	19.6	cloudy	Peter Wood.
Escanaba, Michigan	29.35	745.5	30.00	762.0	53	11.7	48	nw.	5	2.2		2 c	0			0.07	1.8	clear	C. Dil'.
Fort Apache, Arizona	25.02	635.5	29.78	756.4	47	8.3	54	ne.	3	1.3			10 s		calm	0	0	cloudy	W. O. Barnes.
Fort Assinnaboine, Montana	27.29	693.2	30.08	764.0	54	12.2	51	ne.	2	0.9		0	0			0	0	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.75	730.2	30.29	769.4	45	7.2	86	nw.	1	0.4		0	0			0	0	clear	A. Pritchard.
Fort Benton, Montana																			G. W. Davis.
Fort Buford, Dakota	28.21	716.5	30.17	766.3	49	9.4	80	ne.	2	0.9		0	0			0	0	clear	A. H. Bell.
Fort Custer, Montana	26.99	685.5	30.05	763.3	50	10.0	93	e.	2	0.9		0	0			0	0	clear	V. Verge.
Fort Davis, Texas	25.24	641.1	29.85	758.2	59	15.0	84	calm	0	0			10 s		calm	1.03	26.2	cloudy	J. Williams.
Fort Elliott, Texas	27.47	697.7	30.14	765.5	52	11.1	74	ne.	4	1.8			10 s		ne.	0	0	cloudy	W. J. Cundall.
Fort Grant, Arizona	25.29	642.4	29.83	757.7	64.9	18.3	30	ne.	2	0.9			10 s			0	0	cloudy	Robert C. Lord.
Fort Keogh, Montana	27.66	702.6	30.09	764.3	50	10.0	74	e.	4	1.8		0	0			0	0	clear	W. B. Stockman.
Fort Macon, North Carolina	29.96	761.0	29.97	761.2	67	19.4	50	n.	20	8.9		9 c	0	sw.		0	0	cloudy	W. W. Thomas.
Fort McKavett, Texas	27.90	708.6	30.10	764.5	63	17.2	78	ne.	2	0.9			10 s			0	0	cloudy	J. E. Thatcher.
Fort Missoula, Montana	26.72	678.7	29.98	761.5	56	13.3	60	sw.	4	1.8		5 c	0	sw.		0	0	fair	J. H. Jones.
Fort St. Michaels, Alaska	30.01	762.2	30.04	763.0	35	1.7	100	w.	7	3.1			10 s		w.	0	0	cloudy	A. P. Leavitt.
Fort Shaw, Montana	26.46	672.1	30.03	762.7	41	5.0	82	w.	7	3.1		0	0			0	0	clear	A. L. Mathews.
Fort Sill, Indian Territory	29.03	737.3	30.23	767.8	58.8	14.9	76	n.	8	3.6		10 ck	0	sw.		0	0	cloudy	T. Cleary.
Fort Smith, Arkansas	29.79	756.7	30.25	768.3	55.0	12.8	86	calm	0	0			10 s		n.	0	0	cloudy	J. B. Campbell.
Fort Stevenson, Dakota	28.38	720.8	30.18	766.6	46	7.8	86	calm	0	0		0	0			0	0	clear	W. Burrows
Fort Verde, Arizona					66.2	19.0	51	nw.			1	4 k	0	sw.		0	0	fair	D. Brooks.
Fort Washakie, Wyoming	24.64	625.8	30.02	762.5	42.8	6.0	90	calm	0	0		0	1 k			0	0	clear	T. M. Ambler.
Fredericksburg, Texas	28.42	721.9	30.10	764.5	65	18.3	65	e	4	1.8		8 cs	0	sw.		0	0	cloudy	H. S. Miles.
Galveston, Texas	30.11	764.8	30.16	766.1	72	22.2	76	ne.	18	8.0		10 c	hz	e.		0	0	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.32	744.7	29.97	761.2	48.0	8.9	77	nw.	12	5.4		4 k	0	nw.		0.26	6.6	fair	W. A. Reid.
Hatteras, North Carolina	29.91	759.7	29.93	760.2	68	20.0	55	nw.	20	8.9		7 c	sk.	w.		0	0	fair	R. M. Crawford.
Helena, Montana	25.89	657.6	30.01	762.2	49	9.4	66	w.	4	1.8		0	0			0	0	clear	S. Wheaton.
Henrietta, Texas	29.28	743.7	30.26	768.6	63.0	17.2	78	n.	8	3.6			10 s			0	0	cloudy	J. W. Byram.
Huron, Dakota	28.85	732.8	30.19	766.8	43.3	6.3	76	nw.	4	1.8		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.28	743.7	30.06	763.5	55	12.8	62	nw.	6	2.7		5 ck;k	2 s	nw.	nw.	0.29	7.4	fair	O. Schutze
Indianola, Texas	30.09	764.3	30.12	765.0	74.0	23.3	76	ne.	24	10.7			10 s		s.	0	0	cloudy	I. A. Reed.
Jacksboro, Texas	29.07	738.4	30.18	766.6	63	17.2	78	e.	4	1.8			10 s		w.	0	0	cloudy	J. P. Sherry.
Jacksonville, Florida	30.08	764.0	30.12	765.0	76	24.4	69	sw.	1	0.4			10 s		sw.	0.04	1.0	cloudy	J. W. Smith.
Keokuk, Iowa	29.45	748.0	30.09	764.3	54.5	12.5	74	w.	4	1.8		0	0			inap.	inap.	clear	F. Z. Gosewisch.
Key West, Florida	30.10	764.5	30.12	765.0	85.4	29.7	65	e.	6	2.7		0	3 k		e.	0	0	clear	R. H. Paxton.
Kittyhawk, North Carolina	29.91	759.7	29.93	760.2	65.5	18.6	56	nw.	16	7.2		3 c	0	w.		0.42	10.7	clear	E. A. Beals.
Knoxville, Tennessee	29.12	739.6	30.12	765.0	55	12.8	71	w.	9	4.0		0	0			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.34	745.2	30.10	764.5	52.4	11.3	52	s.	8	3.6		0	0			0.02	0.5	clear	S. C. Emery.
La Mesilla, New Mexico	26.14	663.9	29.86	758.4	61.3	16.3	76	calm	0	0		4 c	4 s			0.10	2.5	cloudy	N. D. Lane.
Leavenworth, Kansas	29.35	745.5	30.22	767.6	52	11.1	59	nw.	4	1.8		0	0			0	0	clear	A. W. Browne.
Lewiston, Idaho	28.95	735.3	29.77	756.1	61	16.1	72	calm	0	0		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.94	760.5	30.25	768.3	61	16.1	78	nw.	1	0.4		0	0			0	0	clear	W. U. Simmons.
Los Angeles, California	29.63	752.6	30.02	762.5	59.3	15.2	75	s.	5	2.2			10 s		calm	0	0	cloudy	E. F. Kubel.
Louisville, Kentucky	29.51	749.5	30.06	763.5	55	12.8	74	w.	12	5.4		5 k	0	w.		0.02	0.5	fair	H. C. Smyth.
Lynchburg, Virginia	29.25	742.9	29.92	760.0	60.5	15.8	47	w	4	1.8		0	8 ks		w.	0	0	cloudy	W. R. Bushby.
Madison, Wisconsin	29.04	737.6	30.03	762.7	47	8.3	77	w.	8	3.6		0	0			0.04	1.0	clear	C. A. Shaw.
Marquette, Michigan	29.30	744.2	30.02	762.5	55	12.8	44	nw.	6	2.7		0	0			0	0	clear	J. Gilligan.
Memphis, Tennessee	29.90	759.4	30.23	767.8	60	15.6	75	nw.	1	0.4		0	0			0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.29	744.0	30.03	762.7	50	10.0	77	w.	15	6.7		0	0			0.20	5.1	clear	W. Line.

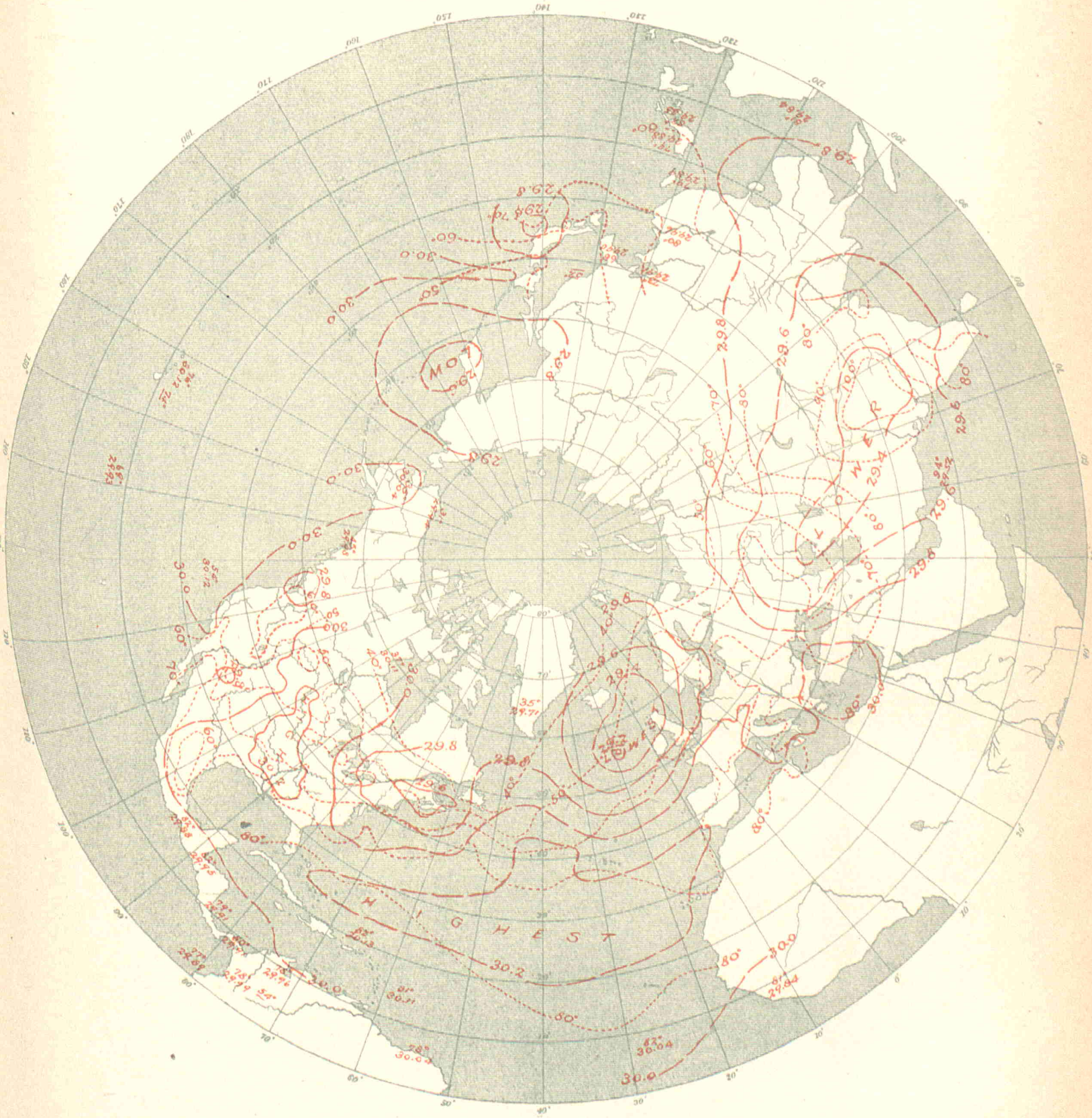
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Mobile, Alabama	30.15	765.8	30.19	766.8	68.8	20.4	66	ne.	6	2.7	.....	10 cs	0	w.	.....	0	0	cloudy	J. D. Paxton.
Montgomery, Alabama	29.97	761.2	30.20	767.1	65	18.3	68	nw.	1	0.4	.....	8 cs	0	w.	.....	0	0	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	29.19	741.4	30.16	766.1	52	11.1	66	calm	0	0	.....	5 c	0	nw.	.....	0	0	fair	H. Bessant.
Morgantown, W. Virginia	28.90	734.0	29.90	759.4	54.0	12.2	90	sw.	20	8.9	.....	.....	10 s	.....	sw.	0.07	1.8	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.41	594.6	29.53	750.0	29.0	— 1.7	92	nw.	49	21.9	.....	.....	fg.	.....	nw.	0.65	16.5	dense fog	J. G. Linsley
Nashville, Tennessee	29.65	753.1	30.17	766.3	57.0	13.9	72	w.	5	2.2	.....	0	fg.	.....	.....	0	0	clear	L. A. Jesunofsky.
New Haven, Connecticut	29.62	752.3	29.73	755.1	56	13.3	72	w.	2	0.9	.....	5 cs	hz.	w.	.....	0.15	3.8	fair	J. H. Sherman.
New London, Connecticut	29.71	754.6	29.76	755.9	59	15.0	81	s.	6	2.7	.....	9 k	0	sw.	.....	0.31	7.9	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.10	764.5	30.16	766.1	71.7	22.1	57	ne.	10	4.5	.....	.....	10 s	.....	ne.	0	0	cloudy	L. Dunne.
Newport, Rhode Island	29.70	754.4	29.75	755.6	59.3	15.2	74	sw.	4	1.8	.....	3 ck	1 ks	nw.	sw.	0.65	16.5	fair	W. McGillivray.
New River, N. Carolina	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. C. Corbin.
New Shoreham, Rhode I'd.	29.72	754.9	29.75	755.6	58.0	14.4	74	sw.	8	3.6	.....	4 ck	0	sw.	.....	0.57	14.5	fair	W. Davis.
New York, New York	29.60	751.8	29.77	756.1	57	13.9	77	sw.	5	2.2	.....	4 cs	0	sw.	.....	0.02	0.5	fair	J. B. Merrill.
Norfolk, Virginia	29.88	758.9	29.91	759.7	68	20.0	55	w.	8	3.6	.....	0	0	.....	.....	0.32	8.1	clear	J. T. Elker.
North Platte, Nebraska	27.37	695.2	30.17	766.3	48.6	9.2	77	calm	0	0	.....	0	5 s	.....	.....	0	0	fair	E. F. Brady.
Olympia, Washington T'y	29.74	755.4	29.78	756.4	60.0	15.6	81	n.	1	0.4	.....	0	0	.....	.....	inap.	inap.	clear	J. Dascomb.
Omaha, Nebraska	29.08	738.6	30.22	767.6	53.0	11.7	61	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	29.92	760.0	29.94	760.5	30.7	— 0.7	100	wsw.	14	6.3	.....	.....	10 s	.....	wsw.	0.16	4.1	cloudy	P. H. Ray.
Oswego, New York	29.34	745.2	29.66	753.4	53.0	11.7	80	sw.	3	1.3	.....	.....	10 s	.....	w.	0.03	0.8	threatening.	S. W. Beall.
Palestine, Texas	29.69	754.1	30.23	757.8	60.0	15.6	81	e.	8	3.6	.....	10 cs	0	w.	.....	0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.14	765.5	30.17	766.3	70.3	21.3	50	n.	9	4.0	.....	.....	10 s	.....	w.	0	0	cloudy	M. McGauran.
Philadelphia, Pa.	29.70	754.4	29.80	756.9	62	16.7	56	sw.	9	4.0	.....	3 c	0	nw.	.....	0.04	1.0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.93	455.4	29.75	755.6	22	— 5.6	80	nw.	26	11.6	.....	0	0	.....	.....	0.02	0.5	clear	L. M. Dey.
Pioche, Nevada	24.06	611.1	29.86	758.4	55.3	12.9	55	s.	5	2.2	.....	0	0	.....	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.04	737.6	29.83	757.7	51.7	10.9	72	w.	12	5.4	.....	.....	10 s	.....	w.	inap.	inap.	cloudy	J. H. Bryce.
Poplar River, Montana	28.08	713.2	.....	.....	.....	.....	.....	sw.	.....	.....	1	0	0	.....	.....	0	0	clear	U. D. Maxwell.
Port Eads, Louisiana	30.13	765.3	30.14	765.5	74.1	23.4	98	nw.	4	1.8	.....	.....	10 s	.....	.....	0.18	4.6	cloudy	H. G. Christian.
Port Huron, Michigan	29.21	741.9	29.88	758.9	52.0	11.1	77	n.	8	3.6	.....	0	0	.....	.....	0.14	3.6	clear	W. O. Bailey.
Portland, Maine	29.60	751.8	29.64	752.8	58.0	14.4	74	s.	3	1.3	.....	3 k	0	w.	.....	1.29	32.8	clear	W. W. Eichelberger.
Portland, Oregon	29.78	756.4	29.85	758.2	58.8	14.9	74	s.	10	4.5	.....	3 ck	5 s	se.	s.	0.02	0.5	cloudy	M. L. Hearne.
Portsmouth, N. Carolina	.....	.....	.....	.....	70	21.1	76	nw.	22	9.8	.....	3 c	2 k	n.	nw.	0	0	fair	F. P. Chaffee.
Prescott, Arizona	24.81	630.2	29.83	757.7	61	16.1	50	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. McN. Wright.
Provincetown, Mass.	29.68	753.9	29.71	754.6	56	13.3	80	sw.	8	3.6	.....	0	2 s	.....	.....	0.59	15.0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.11	764.8	30.12	765.0	81	27.2	69	e.	5	2.2	.....	1 c	0	calm	.....	0	0	clear	W. J. Evans.
Red Bluff, California	29.53	750.0	29.89	759.2	57.1	13.9	80	s.	3	1.3	.....	0	1 s	.....	s.	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.84	757.9	30.07	763.8	70.8	21.6	90	nw	3	1.3	.....	.....	10 s	.....	nw.	0.46	11.7	cloudy	P. M. Wilson.
Rochester, New York	29.02	737.1	29.67	753.6	49	9.4	86	w.	9	4.0	.....	.....	10 k	.....	w.	0.01	0.3	cloudy	E. W. McGann.
Roseburg, Oregon	29.34	745.2	29.89	759.2	54.5	12.5	86	calm	0	0	.....	9 c	0	w.	.....	0	0	cloudy	J. J. Nanry.
Sacramento, California	29.83	757.7	29.90	759.4	56.2	13.4	80	s.	15	6.7	.....	0	2 s	.....	se.	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.57	751.1	30.16	766.1	51.2	10.7	94	w.	13	5.8	.....	0	3 s	.....	n.	inap.	inap.	clear	J. H. Webber.
St. Paul, Minnesota	29.24	742.7	30.09	764.3	50.0	10.0	77	sw.	5	2.2	.....	1 cs	hz.	.....	.....	0	0	clear	P. F. Lyons
St. Vincent, Minnesota	29.25	742.9	30.10	764.5	54	12.2	67	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.62	650.7	29.84	757.9	63	17.2	48	calm	0	0	.....	4 k	0	w.	.....	0	0	fair	J. Craig.
San Antonio, Texas	29.45	748.0	30.13	765.3	68	20.0	70	ne.	6	2.7	.....	.....	10 s	.....	calm	0	0	cloudy	E. Lane.
San Diego, California	29.92	760.0	29.99	761.7	60.2	15.7	75	ne.	2	0.9	.....	.....	10 s	.....	sw.	0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.25	742.9	29.92	760.0	50.1	10.1	72	nw.	25	11.2	.....	.....	10 s	.....	w.	0.05	1.3	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.74	755.4	29.78	756.4	60.0	15.6	75	sw.	15	6.7	.....	8 ck	0	sw.	.....	0.16	4.1	cloudy	B. A. Blundon.
San Francisco, California	29.91	759.7	29.98	761.5	54	12.2	90	sw.	6	2.7	.....	.....	10 s	.....	sw.	0	0	cloudy	N. Gorom.
Santa Fé, New Mexico	23.34	592.8	29.85	758.2	52	11.1	69	se.	7	3.1	.....	7 c	0	sw.	.....	0	0	fair	H. U. Jones.
Savannah, Georgia	30.03	762.7	30.12	765.0	70	21.1	50	nw.	7	3.1	.....	8 ck	2 ks	sw.	sw.	0	0	cloudy	H. W. Ford.
Shreveport, Louisiana	30.00	762.0	30.23	767.8	64	17.8	63	ne.	5	2.2	.....	8 k	0	ne.	.....	0	0	cloudy	E. N. Meekins.
Silver City, New Mexico	24.32	617.7	29.82	757.4	52	11.1	64	calm	0	0	.....	0	7 s	.....	calm	0	0	fair	J. B. Wallace.
Sitka, Alaska	29.92	760.0	29.98	761.5	45.2	7.3	79	se.	2	0.9	.....	6 k	0	se.	.....	0	0	fair	J. J. McLean.
Smithville, North Carolina	29.97	761.2	30.01	762.2	65	18.3	63	nw.	6	2.7	.....	6 cs	0	w.	.....	0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.83	706.9	29.87	758.7	64	17.8	65	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.46	748.3	30.13	765.3	56.5	13.6	74	w.	4	1.8	.....	1 ck	0	n.	.....	0.02	0.5	clear	T. B. Jennings.
Springfield, Massachusetts	29.58	751.3	29.71	754.6	59.2	15.1	70	s.	4	1.8	.....	7 k	0	w.	.....	2.03	51.6	fair	T. S. Outram.
Springfield, Mo.	28.81	731.8	30.27	768.8	55	12.8	80	w.	3	1.3	.....	7 c	0	w.	.....	0	0	fair	J. B. Marbury.
Starkville, Miss.	29.78	756.4	30.25	768.3	65	18.3	68	nw.	4	1.8	.....	3 cs	0	.....	.....	0	0	clear	M. J. Wright.
Stockton, Texas	27.08	687.8	30.00	762.0	62.0	16.7	84	se.	16	7.2	.....	.....	10 s	.....	se.	0	0	cloudy	J. O'Dowd.
Thatcher's Island, Mass.	29.64	752.8	29.69	754.1	54.0	12.2	86	w.	9	4.0	.....	5 ck	0	nw.	.....	0.65	16.5	fair	G. Liebmann.
Toledo, Ohio	29.24	742.7	29.92	760.0	51	10.6	80	nw.	6	2.7	.....	0	6 k	.....	n.	0.01	0.3	fair	A. Buell.
Tucson, Arizona	27.52	699.0	29.82	757.4	72	22.2	64	se.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	J. L. Whiteside.
Umatilla, Oregon	29.39	746.5	29.75	755.6	62	16.7	73	e	1	0.4	.....	3 c	1 ks	.....	.....	inap.	inap.	fair	J. Daly.
Uvalde, Texas	29.16	740.7	30.10	764.5	68	20.0	78	e.	6	2.7	.....	.....	10 s	.....	se.	0.02	0.5	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.97	761.2	30.22	767.6	66	18.9	63	calm	0	0	.....	5 c	0	.....	.....	0	0	fair	H. P. Brisbane.
Visalia, California	29.54	750.3	29.91	759.7	61	16.1	72	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. L. Seward.
Washington, D. C.	29.75	755.6	29.86	758.4	61.5	16.4	56	sw.	8	3.6	.....	6 k	0	w.	.....	0.02	0.5	fair	B. M. Purssell.
West Las Animas, Colorado	26.29	667.8	30.07	763.8	51	10.6	93	se.	5	2.2	.....	.....	10 s	.....	se.	0.54	13.7	cloudy	F. W. Brandenburg.
Williamsport, Pa.	29.15	740.4	29.75	755.6	54	12.2	66	w.	10	4.5	.....	.....	10 ks	.....	w.	0.03	0.8	threatening.	B. F. Hough.
Wilmington, N. Carolina	29.94	760.5	29.99	761.7	67	19.4	59	nw.	7	3.1	.....	5 cs	0	w.	.....	0.86	21.8	fair	A. T. Sherwood.
Winnemucca, Nevada	25.52	648.2	29.78	756.4	59	15.0	56	ne.	7	3.1	.....	5 ok	0	ne.	.....	0	0	fair	J. R. Williams.
Yankton, Dakota	28.95	735.3	30.23	757.8	51	10.6	72	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. H. Atfield.
Yuma, Arizona	29.67	753.6	29.81	757.2	68.8	20.4	68	calm	0	0	.....	0	1 s	.....	.....	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.07	560.6	.....	.....	54.0	12.2	79	ne.	1	0.4	.....	.....	8 s	.....	w.	0	0	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.10	764.5	30.11	764.8	81	27.2	95	ne.	.....	.....	.....	.....	10 n	.....	.....	1.80	45.7	light rain	J. A. Racker.
Buenaventura, U. S. C.	29.96	761.0	29.99	761.7	78	25.6	86	calm	0	0	.....	4 c	3 ks	s.	calm	0.05	1.3	fair	J. I. Plume.
Havana, Cuba, W. I.	30.09	764.3	30.14	765.5	84	28.9	84	calm	0	0	.....	1 cs	0	.....	.....	inap.	inap.	clear	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.08	764.0	30.09	764.3	82.3	27.9	64	n.	1	0.4	.....	0	0	.....	.....	0	0	fine	Robert Johnston.
Magua, San Domingo, W. I	.....	.....	.....	.....	70	21.1	.....	e.	.....	.....	1.5	0	2 ck	.....	e.	0	0	.....	S. M. Pike.
Paramaribo, S. A.	30.04	763.0	30.04	763.0	78	25.6	86	e.	.....	.....	2	5c k	5 k	e.	.....	0.510	13.0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.50	749.3	29.96	761.0	78	25.6	84	calm	.....	.....	0	.....	10 s	.....	calm	0	0	foggy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	99	ne.	.....	.....	1	8 ck	0	ne.	.....	0.37	9.4	cloudy	Earl Flint.
Santiago de Cuba, W. I.	30.07	763.8	30.09	764.3	82	27.8	74	n.	2.4	1.1	.....	0	0	.....	.....	0	0	clear	Robert Mason.
York Factory, B. A.	30.05	763.3	30.11	764.8	37.0	2.8	95	se.	15	6.7	.....	1 c	2 s	se.	se.	0	0	fair	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
British Naval.																		
H. M. S Alert, S. 29° 32′, E. 32° 22′	30.20	767.1	68.5	20.3	57	ssw.			2		3							d. clouds.
H. M. S. Alexandra, Suda Bay, Turkey in Europe	30.17	766.3	71.5	20.9	60	ene.			2									d. clouds.
H. M. S. Amethyst, S. 18° 22′ W. 36° 33′	30.15	765.8	78.2	25.7	84	e.			3		4	ese.				2	ne.	d. clouds.
H. M. S. Bacchante, Corfu, Ionian Island	30.10	764.5	70	21.1	90	ese.			2		4	ese.						d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.19	766.8	61	16.1		nw.			1-2		0							blue sky.
H. M. S. Champion, Honolulu, Sandwich Islands			74	23.3		ne.			1-2		7	ne.						d. clouds.
H. M. S. Cleopatra, N. 22° 49′, E. 116° 50′	29.89	759 2	78.5	25.8	95	e.			2-3		8							d. clouds.
H. M. S. Coquette, Port Said, Egypt	29.99	761.7	73	22.8		wsw.			2		1	wnw.						blue sky.
H. M. S. Cruiser, N. 38° 47′, E. 20° 15′	30.09	764.3	70	21.1		s.			2		3	sse.				2	se.	d. clouds.
H. M. S. Diamond, S. 22° 17′, E. 166° 27′	29.90	759.4	72.5	22.5	80	calm			0		2							d. clouds.
H. M. S. Dido, N. 10° 39′, W. 61° 30′						e.			2		5	ne.						d. clouds.
H. M. Dock Yard, Bermuda, W. I.	30.13	765.3	76	24.4	92	ssw.			2-3		9	ssw.						d. clouds.
H. M. S. Druid, N. 18° 25′, W. 77° 09′	30.09	764.3	80.5	26.9	84	e.			1		0					2	ese.	misty.
H. M. S. Dwarf, S. 25° 16′, W. 57° 45′	29.75	755.6	68.5	20.3	90	calm			0		10							overcast.
H M. S. Eclipse, S 12° 11′, E. 44° 25′	30.01	762.2	81	27.2		sse.			1		10							raining.
H. M. S. Emerald, S. 55° 50′, W. 86° 25′	29.79	756.7	41	5.0	91	nnw.			4							4	nnw.	overcast.
H. M. S. Euryalus, Bombay, India	29.60	751.8	83	28.3	87	wsw.			1-2		8	calm						d. clouds.
H. M. S. Espiegle, S. 23° 42′, E. 177° 18′	29.89	759.2	70	21.1	100	nnw.			1		7	sw.				2	wnw.	d. clouds.
H. M. S. Fawn, S. 20° 09′, E. 57° 32′	30.03	762.7	75.5	24.2	72	nw.			1		5	se.						d clouds.
H. M. S. Fantome, N. 10° 58′ W. 81° 29′	29.91	759.7	79	26.1		se.			1-2		10	se.				2	se.	raining.
H. M. S. Flying Fish, N. 37° 27′, E. 125° 33′	29.90	759.4	66	18.9	68	ne.			1		0							blue sky.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.13	765.3	55	12.8	76	calm			0		1							blue sky.
H. M. S. Garnet, Montevideo Uruguay	30.11	764.8	49	9.4	85	nnw.			1		4							d. clouds.
H. M. S. Inconstant, N. 10° 15′ W. 7° 20′	30.13	765.3	76	24.4	86	ese.			4-5		7	ese.				3	ese.	squally.
H. M. S. Iron Duke, N. 34° 41′, E. 135° 12′	29.82	757.4	64	17.8	94	n.			1		4	n.						d. clouds.
H. M. S. Kingfisher, Off Perin Island, Panama Bay	29.91	759.7	80	26.7		n.			1		4							d. clouds.
H. M. S. Lark, S. 10° 16′, E. 160° 31′	29.89	759.2	82.3	27.9		se.			2		7					2	e.	d. clouds.
H. M. S. Magpie, N. 34° 56′, E. 140° 23′	29.54	750.3	70.5	21.4	77	ssw.			3		0					4	ssw.	blue sky.
H. M. S. Minotaur, N. 40° 58′, W. 9° 44′	30.19	766.8	63	17.2	78	ssw.			1		2					2	w.	d. clouds.
H. M. S. Nelson, S. 41° 17′ E. 174° 48′	29.98	761.5	52	11.1	86	s.			4		7							showery.
H. M. S. Northampton, Halifax, Nova Scotia	29.57	751.1	48	8.9	?	calm			0									foggy.
H. M. S. Orontes, N. 44° 50′, W. 21° 28′	29.85	758.2	60.5	15.8	90	w.			4		10					3	wsw.	overcast.
H. M. S. Rambler, Kabenda, Lower Guinea	29.96	761.0	75	23.9	95	ssw.			1		8					2	sw.	d. clouds.
H. M. S. Rocket, Esquimalt, Vancouver Island	29.70	754.4	60	15.6	94	sse.			2		8							thnd'r storm.
H M. S. Sappho, S. 25° 57′, W. 85° 00′	30.31	769.9	62.5	16.9		se.			4		9	se.				3	se.	d. clouds.
H. M. S. Swiftsure, N. 27° 38′, W. 19° 36	30.24	768.1	71.5	21.9	67	nne.			3		0	nnw.				3	nne.	d. clouds.
H. M. S. Sylvia, S. 10° 20′, W. 30° 52′	30.08	764.0	82.5	28.1	71	se.			5		4					4	ese.	d. clouds.
H. M. S. Tenedos, N. 47° 34′ W. 52° 41′	30.05	763.3	39.5	4.2	91	sse.			3		10							foggy.
H. M. S. Triumph, Coquimbo, Chili	30.11	764.8	55	12.8	93	calm			0		4	calm						d. clouds.
H. M. S. Woodlark, N. 22° 36′, E. 58° 42′	29.42	747.3	93.5	34.2	77	ssw.			1-2		2	se.						misty.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verd Island	30.07	763.7	81.3	27.4	74	nne.			3		0					2		blue sky.
Tamega, Macao, China	29.78	756.4	82.4	28.0	85	e.			2		8			1 h'r	1 h'r			d. clouds.
Swedish Naval.																		
Saga, N. 50° 30′, W. 0° 54′	29.82	757.5	58.3	14.6	86	ssw.			5		9							misty.
United States Naval.																		
Navy Yard, Pensacola, Fla	30.12	765.0	71	21.7	52	ne.	7	3.1			8		ne.	0	0			fair.
Navy Yard, Portsmouth, N. H.	29.91	759.7	56	13.3	75	sw.	4	1.8			2		sw.	0.8	20.			fair.
Naval Hospital, Yokohama, Japan*	29.44	747.8	63.5	17.5	86	n.			2		2		w.	0.15	3.8			clear.
Adams, Mare Island, Cal	29.97	761.2	56	13.3	94	wsw.			1-2		8							cloudy.
Alaska, Callao, Peru	29.95	760.7	58	14.4	94	calm			0		10			0	0	sm'h		cloudy.
Alert, Kobe, Japan*	29.69	754.1	63	17.2	57	n.			1		0			0	0	sm'h		clear.
Alliance, Hampton Roads, Va	29.91	759.7	64	17.8	68	wnw.			3		2			h'vy	hv'y	sm'h		clear.
Ashuelot, Kobe, Japan	29.79	756.7	67	19.4	95	n.			1		2		calm					clear.
Brooklyn, Rio de Janeiro, Brazil	30.12	765.0	74	23.3	90	n.	1	0.4			10		n.	0	0	sm'h		cloudy.
Colorado, New York, N. Y	29.76	755.9	61	16.1	71	sw.	9	4.0			8		sw.	0.05	1.3			cloudy.
Enterprise, Norfolk, Va*	29.88	758.9	62	16.7	83	wnw.			2		2							clear.
Essex, Montevideo, Uruguay	30.07	763.8	55	12.8	74	nw.			1		2					sm'h		hazy.
Franklin, Norfolk, Va	29.92	760.0	65	18.3	63	w.	12	5.4			0			0.08	2.0			clear.
Galena, Malta, Mediterranean	30.07	763.8	82	27.8	75	sse.			1		0					sm'h		clear.
Independence, Mare Island, Cal	30.02	762.5	59	15.0	70	sw.			4		10		sw.	0	0			cloudy.
Iroquois, San Francisco, Cal*†	29.93	760.2	57	13.9	87	sw.			3		10							cloudy.
Kearsage, Hampton Roads, Va	29.90	759.4	65	18.3	73	wnw.			3		2					sm'h		fair.
Lackawanna, N. 1° 10′ W. 80° 35′*	29.89	759.2	77	25.0	82	sw.			4		8		sw.			mod.	sw.	cloudy.
Lancaster, Lisbon, Portugal*	30.12	765.0	76	24.4	68	ese.			1		0			0	0	sm'h		clear.
Marion, S. 34° 54′, W. 56° 13′	30.07	763.8	50	10.0	100	nne.			1		8		calm	0	0	sm'h		hazy.
Michigan, Erie, Pa	30.02	762.5	50	10.0	100	ne.			4		10		s					cloudy.
Minnesota, Newport, R. I	29.79	756.7	58	14.4	94	sw.	4	1.8			5		w.					
Monocacy, Nagasaki, Japan	29.94	760.5	63	17.2	83	nne.			2		1		calm					clear.
New Hampshire, Newport, R. I	29.70	754.4	60	15.6	65	sw.			2		5		sw.			sm'h		fair.
Nipsic, N. 38° 08′ W. 11° 50′	30.03	762.7	74	23.3	76	w.			2		0					sm'h		clear.
Onward. Callao, Peru†	30.11	764.8	59	15.0	94	calm			0		10					long	w.	cloudy.
Palos, Kobe, Japan	29.84	757.9	62	16.7	61	n.			1		0							clear.
Passaic, Washington, D. C	29.75	755.6	65	18.3	78	w.			2		8		w.					cloudy.
Pensacola, Callao, Peru	29.99	761.7	59	15.0	94	n.	3	1.3			10		n.	0	0	sm'h		cloudy.
Powhatan, Norfolk, Va	29.92	760.0	64	17.8	62	w.			2		2							clear.
Portsmouth, Portsmouth, Eng*†	30.06	763.5	59	15.0	100	sw.			5		10		sw.			sm'h		cloudy.
Quinnebaug, N. 29° 43′ W. 13° 39′	30.13	765.3	68	20.0	74	n.			5		5		calm			mod.	n.	squally.
Ranger, N. 31° 00′ W. 116° 38′*	29.95	760.7	60	15.6	82	nw.			4		10		nw.	0	0	mod.	nw.	overcast
Richmond, Kobe, Japan*	29.77	756.1	68	20.0	79	ne.			1		0			0	0			clear.
Saratoga, Cowes, Eng	29.82	757.4	60	15.6	82	s.			6		10		s.	0	0	mod.	sw.	overcast.
St. Louis, League Island, Pa	30.00	762.0	63	17.2	62	wsw.	12	5.4			2		nw.	0	0			clear.
Swatara, Nagasaki, Japan*	29.79	756.7	62	16.7	72	nne.			2		0					sm'h		clear.
Tennessee, Fort Monroe, Va	29.92	760.0	66	18.9	74	wnw.	17.5	7.8			0			0.45	11.4			clear.
Vandalia, Norfolk, Va*†	30.10	764.5	64	17.8	73	wnw.			1		2		wnw.					fair.
Wabash, Boston, Mass	29.72	754.9	59	15.0	76	wsw.	3	1.3			5		sw.	0.28	7.1			fair.
Wachusetts, Fort Wrangle, Alaska	29.92	760.0	44	6.7	92	nnw.			1		0			0	0	sm'h		clear.
Wyoming, Port Royal, S. C	30.08	764.0	67	19.4	55	nw.	10	4.5			8		nw.	0	0			cloudy.
Yantic, Hampton Roads, Va*	29.86	758.4	66	18.9	68	nw.			3-4		2							fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 54° 55′, W. 12° 45′*	29.30	744.2	56	13.3	81	ese.			4		9		e.	½ h'r	½ h'r	3	wsw.	raining.
S. S. Nova Scotian, N. 47° 30′, W. 59° 47′	29.61	752.1	40	4.4		ese.			4		10		ese.			mod.	se.	cloudy.
S. S. Prussian, Halifax, N. S.	29.47	748.5	50	10.0		ne.			2		4?		sw.	12 h'r	12 h'r			cloudy.?
S. S. Scandinavian, N. 42° 35′, W. 57° 12′*	29.79	756.7	56	13.3		sse.			6		10		w.	rain	rain	mod.	ssw.	foggy.
S. S. Waldensian, Glasgow, Scotland*	30.07	763.8				var.			3		5		ese.	0	0			fine.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, Liverpool, Eng	29.52	749.8	54	12.2	93	ssw.			7		10		sw					overcast.
S. S. Indiana, N. 39° 04′, W. 68° 39′†	29.96	761.0	63	17.2	72	nw.			4		5		w.			mod.	w.	fair.
ANCHOR LINE.																		
S. S. Bolivia, N. 40° 57′, W. 62° 18′†	29.60	751.8	63	17.2		wnw.			1					9 h'r	9 h'r	light	sw.	raining.
S. S. Devonia, N. 41° 52′, W. 62° 50′†	29.73	755.1	59	15.0		sw.			3		9		sw.			mod.	ssw.	foggy.
S. S. Ethiopa, N. 54° 00′, W. 19° 03′	29.17	740.9	34	1.1	100	s.			2		10			8 h'r	8 h'r	sl'gt	wsw.	drizzling.
S. S. India, N. 32° 33′, E. 29° 55′*	30.01	762.2	69	20.6	90	nw.			3		1					mod.	n.	clear.
S. S. Utopia, N. 41° 09′, E. 12° 30′†	30.19	766.8	72	22.2	87	s.			3		6		s.	0	0	mod.	sw.	fair.
ATLAS LINE.																		
S. S. Ailsa, N. 13° 48′, W. 75° 06′†	29.92	760.0	81	27.2	83	e.			6		5		e.	0	0	h'vy	e.	hazy.
S. S. Alvena, Kingston, Jamaica, W. I.†	29.86	758.4	79	26.1	66	calm			0		0			0	0			fine.
S. S. Alvo, N. 11° 00′, W. 75° 02′	30.00	762.0	107?	41.7?					1		3		w.	0	0			clear.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 39° 04′, E. 40° 00′	29.70	754.4	49.5	9.7	78	wnw.			7		7							d. clouds.
S. Baroda, N. 11° 47′, E. 91° 40′	29.70	754.4	81.5	27.5	79	wsw.			5		10							d. clouds.
British Merchant, S. 0° 08′ W 22° 33′	30.06	763.5	76	24.4	84	ese.			3		6							d. clouds.
S. S. Cipero, N. 37° 22′ W. 34° 21′	30.17	766.3	69.5	20.8	87	wsw.			2		3							d. clouds.
Bk. Commewyne, N. 11° 27′, W. 47° 28′	30.08	764.0	82	27.8	75	ne.			4		7							d. clouds.
Glencairn, S. 27° 12′, E. 12° 00′	30.27	768.8	64	17.8	83	sse.			5		6							d. clouds.
S. S Gordon Castle, N. 15° 49′, E. 113° 09′	29.75	755.6	84	28.9	87	s.			2		6							raining.
May Hulse, S. 50° 09′, W. 83° 12′	30.06	763.5	40.7	4.8	73	s.			3		5							showery.
CUNARD LINE.																		
S. S. Bothnia, N. 45° 05′, W 39° 44′	30.12	765.0	56	13.3	81	nnw.			6		10			0	0	con.		cloudy.
S. S. Gallia, N. 40° 37′, W. 70° 54′	29.73	755.1	55	12.8	93	sw.			5		5		s.	0	0	sm'h		fair.
S. S. Marathon, N. 42° 19′, W. 60° 05′	29.78	756.4	58	14.4		sse.			4		10			8 h'r	8 h'r	r'gh	s.	raining.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. France, N. 41° 13′, W. 63° 20′†	29.67	753.7	69.8	21.0		s.			4		n		sw.	rain	rain		sw.	hailing.
S. S. Ville de Marseilles, N. 40° 46′, W. 54° 48′*†	30.15	765.8	72	22.2		ssw.			5		3		sw.	0	0	mod.	sw.	clear.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 52° 10′, E. 3° 15′*†	29.87	758.7				sw.			6		3		wsw.	0	0	h'vy	sw.	fine.
S. S. Cimbria, N. 41° 08′, W. 63° 06′	29.72	754.9	62	16.7		w.			6		10		w.	8 h'r	8 h'r	mod.	sw.	cloudy.
S. S. Herder, N. 40° 05′, W. 50° 30′*†	30.12	765.0	75	23.9		s.			3		1		s.	0	0	sm'h	sw.	fair.
S. S. Lessing, Plymouth, England	29.80	757.0	60	15.6		s.			6		10		s.	rain	rain			misty.
S. S. Wieland, N. 49° 22′, W. 14° 26′	29.67	753.6	59	15.0		sw.			5–6		8		sw.	0	0	5	sw.	stormy.
INMAN LINE.																		
S. S. City of Berlin, N. 48° —′ W. 30° —′	29.70	754.4				wnw.			6		8		wsw.	shr's	shr's	r'gh	w.	cloudy.
S. S. City of New York, N. 52° 07′, W. 6° 30′	29.60	751.8				wsw.			6		9		wsw.	12 h'r	12 h'r	r'gh	wsw.	hazy.
JOHNSTON LINE.																		
S. S. Thanemore, N. 47° 35′, W. 25° 04′	29.65	753.1				wsw.			6		2		w.	mist	mist	mod.	w.	fair.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, Lisbon, Portugal*†	30.35	770.9	70	21.1		calm			0		0			0	0			clear.
MALLORY LINE.																		
S. S. Colorado, N. 32° 56′, W. 77° 56′†	29.98	761.5	73	22.8		nw.			5		2		nw.	0	0	mod.	nw.	clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 41° 03′, W. 68° 47′†	29.80	756.9	56	13.3	87	nnw.			4		0			0	0	sm'h		clear.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, N. 10° 10′, W. 49° 28′	29.66	753.4				e.			6				e.	8 h'r	8 h'r	mod.	e.	cloudy.
S. S. Glenapp, Santos, Brazil*†	30.00	762.0				var.			2		9		var.	6 h'r	6 h'r			heavy rain.
NATIONAL LINE.																		
S. S. Canada, N 49° 37′, W. 6° 03′†	29.83	757.7	52	11.1		wsw.			3		10		sw.	mist	mist	mod.	sw.	
S. S. Denmark, New York, N. Y.	29.73	755.1	60	15.6		sw.			4		5		sw.	0	0			fine.
S. S. England, N. 40° 31′, W. 70° 47′	29.79	756.7				sw.			5		8		wsw.	3 h'r	3 h'r	mod.	w.	cloudy.
S. S. Holland, N. 41° 30′, W. 53° 47′	30.08	764.0	65	18.3		s.			4		2		s.	0	0	mod.	s.	fair.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, N. 19° 40′, W 77° 25′†	30.14	765.5	80	26.7		e.			3		2		ne.	0	0	long	e.	hazy.
S. S. Saratoga, Havana, Cuba, W. I†	30.25	768.3	82	27.8	87	calm			0		0			0	0			
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, N. 24° 47′, W. 80° 37′*†	30.24	768.1	83	28.3	87	e.			3		3		sse.	0	0	mod.	ese.	clear.
S. S. City of Puebla, N. 31° 34′, W. 77° 57′†	29.99	761.7	79	26.1		nw.			3		5?		nw.			light	sw.	cloudy ?
S. S. City of Washington, Vera Cruz, Mexico *†	30.10	764.5	82	27.8		calm			0		0			0	0			clear.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Lone Star, N. 36° 25′, W. 74° 15′*†	30.05	763.3	60	15.6		wsw.			1								sw.	clear.
S. S. Maas, N. 40° 37′, W. 49° 28′*†	30.06	763.5	66	18.9		se.										sm'h		
NORTH GERMAN LLOYD.																		
S. S. Elbe, Bremerhaven, Germany	30.04	762.9	65.3	18.5	95	w.			3		5?		w.	0	0			covered?
S. S. Graf Bismarck, N. 23° 50′, W. 19° 40′	30.21	767.3	74.3	23.5		nne.			5		3		nne.			r'gh	nne.	fair.
S. S. Hohenzollern, N. 48° 58′, W. 11° 45′*	29.69	754.1	62	16.7		wsw.			5		9		sw.	light	light	4	w.	cloudy.
S. S. Oder, N. 44° 06′, W. 41° 02′	30.17	766.3	53.6	12.0		nnw.			5		10		n.	0	0	mod.	n.	cloudy.
S. S. Ohio, N. 39° 57′, W. 56° 20′	30.08	764.0				ssw.			6		4		sw.	0	0	mod	ssw.	fair.
S. S. Rhein, N. 49° 26′, W. 11° 30′	29.63	752.6				w.			5		8		w.	shr's	shr's	long	w.	cloudy.
S. S. Saller, Bremerhaven, Germany	29.93	760.2	58.1	14.5		w.			4		8		w.	1 h'r	1 h'r			cloudy.
OCCIPENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 36° 05′, E. 170° 53′*†	30.02	762.5	64	17.8	94	wsw.			3		2		w.	mist	mist	mod.	w.	misty.
S. S. Belgic, N. 28° 22′, E. 127° 07′†	30.02	762.5	74	23.3	63	ne.			4		5		ne.	0	0	light	ne.	fair.
S. S. Gaelic, Hong Kong, China†	29.69	754.1	87	30.6	88	se.			3		2?		sse					overcast.?
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, N. 33° 36′, W. 77° 35′†	30.03	762.7				nw.			4		8?		w.			long	w.	clear.?
S. S. City of Columbus, Savannah, Ga †	30.03	762.7				nnw.			5		2		nnw.	½ h'r	½ h'r			clear.
S. S. Seminole, N. 39° 35′, W 73° 04′†	29.82	757.4	66	18.9	64	sw.			1		2		nw.	rain	rain	mod.	s.	clear.
OREGON IMPROVEMENT COMPANY.																		
S. S. Willametta, Seattle, Wash. Ter.†	29.86	758.4	66	18.9	89	calm			0		4		ssw.	0.08	2.0			hazy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, N. 44° 54′, W. 124° 17′†	29.91	759.7	54	12.2	93	nne.			1		10					high	nw.	misty.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal.†	29.92	760.0	53	11.7	93	wsw.			2		10		w.					cloudy.
S. S. Dakota, New Tacoma, Wash. Ter.*†	29.99	761.7	56	13.3	81	calm			0		5?		sw.			sm'h		clear ?
S. S. Idaho, Portland, Oregon.†	30.14	765.5	63	17.2	83	nw.			3		5?		n.			sm'h		cloudy ?
S. S. Orizaba, N. 37° 12′, W. 122° 25′†	29.95	760.7	56	13.3	94	calm			0		fg		nnw.	0	0	mod.	wsw.	foggy.
S. S. State of California, San Francisco, Cal.†	29.96	761.0	52	11.1	93	w.			2		10		w.					cloudy.
S. S. Victoria, San Francisco, Cal †	29.84	758.0	54	12.2	100	calm			0		10					sm'h		drizzling.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. City of Australia, N. 35° 38′, W. 128° 12′	30.12	765.0	54	12.2	67	nnw.			2		5			1 h'r	1 h'r			hazy.
S. S. City of New York, N. 21° 19′, W. 157° 52′†	30.12	765.0	76	24.4	86	ne.			2		1		ne.	0	0	sm'h	ne.	clear.
S. S. City of Pekin, Yokohama, Japan†	29.51	749.5	72	22.2	90	s.			4		5		s.	0	0	sm'h		fair.
S. S. City of Rio de Janeiro, N 10° 50′, W. 87° 06′ *†	30.12	765.0	80	26.7	82	e.			4		8		e.	0	0	mod.	cross	threatening.
S. S. City of Sydney, Sydney N. S. W.†	30.30	769.6	57	13.9	81	sse.			6		10		se.	½ h'r	½ h'r	sm'h		heavy rain.
S. S. Clyde, N. 39° 09′, E. 150° 27′†	29.91	759.7	58	14.4	88	se.			6		10		se.	4 h'r	4 h'r	mod.	se.	raining.
S. S. Colima, N. 14° 55′, W. 94° 30′†	29.88	758.9	82	27.8	83	ne.			6		8		ne.	0	0	mod.	ssw.	cloudy.
S. S. Colima, N. 14° 55′, W. 94° 30′†	29.88	758.9	79	26.1	91	sw.			4		10		sw.	0.70	17.8	mod.	con.	thund'r st'm

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	Upper. 0-10	Lower. 0-10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
Pacific Mail Steamship Company.—Continued.																		
S. S. Colon, N. 19° 05′ W. 74° 06′†	30.15	765.8	86	30.0		calm			0		0			0	0	sm'h	sse.	clear.
S. S. Granada, N. 33° 22′, W. 121° 01′†	29.99	761.7	58	14.4	94	n.			1		8?		nnw.	0	0	light	nw.	clear?
S. S. South Carolina, Acajutla, Mexico†	30.05	763.3	82	27.8	91	ne.			1		2		nne.	hv'y	h'vy	sm'h		
S. S. Zelandia, Sydney, N. S. W.	30.30	769.6	53	11.7	80	sw.			3		8		sw.			sm'h		squally.
Quebec Steamship Company.																		
S. S. Muriel, Antiqua, W. I.	30.01	762.2	82	27.8		ene.			4		0			0	0	sm'h		clear.
S. S. Bermuda, St. Kitts, W. I†	30.17	766.3	80	26.7		ene.					9		ne.	5 h'r	5 h'r	hv'y	se.	cloudy.
Red Star Line.																		
S. S. Nederland, N. 46° 08′, W. 24° 30′†	29.84	757.9	62	16.7		wsw.			3		5		wsw.	0	0	mod.	wsw.	fair.
S. S. Rhynland, Jersey City, N. J.	29.76	755.9	62	16.7	77	wsw.			3		5		wsw.	0	0			fair.
S. S. Vaderland, N. 49° 46′, W. 6° 15′	29.69	754.1	58	14.4	94	ssw.			6		10			4 h'r	4 h'r	r'gh	sw.	rainy.
Rotterdam Line.																		
S. S. W. A. Scholten, New York, N. Y.	29.86	758.4	65.0	18.3	69	calm			0		7		w.	0	0			
State Line.																		
S. S. State of Florida, Glasgow, Scotland	29.29	744.0	61	16.1		ssw.			3		5		sw.	0	0			fair.
S. S. State of Georgia, N. 40° 40′, W. 52° 04′†	30.25	768.3	64	17.8		s.			3		0					sm'h		clear.
Thingvalla Line.																		
S. S. Thingvalla, N. 57° 41′ W. 14° 53′†	29.58	751.3	56.3	13.5	63	w.			2		7?		w.	1 h'r	1 h'r	sm'h	w.	clear.?
White Cross Line.																		
S. S. Plantyn, N. 40° 27′, W 55° 50′	29.96	761.0									7		ssw.	0	0	sm'h		
White Star Line.																		
S. S. Adriatic, N. 42° 17′ W. 46° 52′†	30.36	771.1	50.5	10.3	93	w.			2		5		wsw.	0	0	sm'h		d. clouds.
S. S. Baltic, N. 40° 38′ W. 59° 23′†	29.98	761.5	68	20.0	95	sw.			3		9		sw.	5 h'r	5 h'r	mod.	sw.	raining.
S. S. Celtic, N. 41° 11′, W. 62° 52′†	29.75	755.6	66	18.9	79	ssw.			3		10		sw.	10 h'r	10 h'r	mod.	s.	cloudy.
Wilson Line.																		
S. S. Romano, N. 49° 08′, W. 13° 49′	29.57	751.2	58	14.4		wsw.					10					r'gh	w.	dull.
Miscellaneous.																		
Schr. Addie Fuller, Newport News, Va†	29.96	761.0	64	17.8	57	w.			3	0	0			0.04	1.0			clear.
Bk. Adelaide, N. 27° 46′, W. 68° 07′*†	30.26	768.6	82	27.8		s.			4		1		ssw.	0	0	light	s.	clear.
Schr. Ajax, Blackwater, Fla†	30.23	767.8				ne.			1		8		ne.	0	0			cloudy.
Bk. Alpha, Guantanamo, Cuba, W. I.†	30.04	763.0	82	27.8		n.			1		0			0	0			clear.
Sch'r Annie R. Lewis, Mobile, Ala†	30.30	769.6	71	21.7		n.			2		5?		n.	0	0			cloudy.?
Bk. Annie Thorman, S. 4° 00′, W. 32° 00′	30.06	763.6	81.0	27.2	80	ese.			5		9 k;n		se.	0	0	short	se.	cloudy.
S. S. Antonio Lopez, Santander, Spain	30.14	765.5	66	18.9	64	ne.			3		0			0	0			clear.
Schr. Asa Eldridge, Key West, Florida†	30.03	762.7							3					0	0		e.	fair.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.27	768.8	81	27.2		calm			0		0			0	0			clear.
Ship Annie M. Smull, N. 12° 39′, E. 112° 34′*†	29.90	759.4												3 h'r	3 h'r			
Bk. Bergenseren, N. 41° 20′ W. 35° 30′†	30.15	765.8	60	15.6		nw.			3				nnw.	0	0	3	nw.	clear.
Bk. Bremen, N. 46° 17′ W. 22° 34′						wsw.			5		5		w.	spkl	spkl	r'gh	w.	clearing.
Schr. Edith R. Seward, Baltimore, Md*†	29.92	760.0				w.			3		2			0	0			clear.
S. E. J. Spicer, N. 49° 52′, W. 18° 35′†	29.67	753.6				wnw.			6		8		wnw.	sq 'lls	sq 'lls	mod.	wnw.	
Bk. Essex, N. 20° 59, W. 36° 09′*†	30.25	768.3	77	25.0		e.			4		5?		e.	½ hr	½ hr	long	ene.	cloudy.?
S. Exporter, S 39° 40′, E. 45° 00′*†	29.80	756.9				w.			6				w.	1 h'r	1 h'r	long	w.	fine.
Bk. Freya, N. 49° 33′, W. 21° 32′			55	12.8		sw.			6		5		sw.	3 h'r	3 h'r	high	wsw.	squally.
Bk. Godfrey, N. 47° 42′ W. 19° 00′	29.65	753.1	57.9	14.4	84	sw.			6		8		w.	0	0	long	wsw.	cloudy.
S. Grecian, N. 6° 44′, E. 108° 28′*†	29.84	757.9	81	27.2		wsw.			6		9	wnw.	sw.	0	0	mod	w.	squally.
Bk Hattie G. McFarland, Cowbay, Cape Breron*†	29.63	752.6	38	3.3		e.			3					9 h'r	9 h'r			foggy.
S. Hedwig, N. 38° 58′, W. 67° 30′	29.84	757.8	63.1	17.3	89	w.			2		8		ssw.	7 h'r	7 h'r	cross	s.	fair.
Bk. Horace Scudder, N. 38° 20′ W. 73° 56′.†	29.63	752.6	57	13.9		w.			1		8		w.	0	0	light	sw.	cloudy.
S. Ismir, S. 11° 35′ W 35° 06′†	30.12	765.0				ese.			3							r'gh		fine.
Schr. James Slater, N. 26° 22′, W. 46° 24′*†	30.54	775.7	79	26.1		ese.			3		5		ese.	0	0	mod.	ese	squally.
Schr. Jennie N. Huddle, New York, N. Y†	29.95	760.7	64	17.8	83	w.			3		2			0	0			fair.
Schr. John L. Thomas, St. Andrew, Id., Carribean Sea*†	30.02	762.5				ne.			6		7		e.	3 h'r	3 h'r			squally.
Bkt. Josephine, N. 20° 05′, W. 74° 12′†	30.25	768.3	85	29.4	79	e.			5		2			0	0	r'gh	e.	hazy.
Bk. Julia H., Havana, Cuba, W. I.	30.14	765.5	79.8	26.6	86	calm			0		1							misty.
Light House Tender, Laurel, Egmont Key, Fla†	30.18	766.6	81	27.2		e.			1		9		sw.	0	0	sm'h	s	cloudy.
S. Minnie N. Gerow, N. 40° 05′, W. 40° 43′*†	30.21	767.3				nnw.			2		3		w.			sm'h	wnw.	fine.
S. M. P. Grace, N. 32° 10′, W. 46° 55′*	30.22	767.6	74	23.3		sse.			3				ssw.	0	0	sm'h	se.	
S. S. Nebo, St. John's N. S*†	30.11	764.8				nnw.			4		5?		nnw.	17 h'r	17 h'r			clear.?
S. Paramita, S. 43° 05′, W. 48° —′†	29.64	752.8	49	9.4		w.			6		5?		wsw.	5 h'r	5 h'r	h'vy	wsw.	clear.?
Bk. Pawashick, N. 46° 07′ W. 14° 09′*†	30.05	763.3	64	17.8	89	wsw.			5		10		w.			cross	wsw.	misty.
Bk. Peppina, Verdon Roads, France†	30.13	765.3	70	21.1	75	w.			3		2		w.	0	0			fair.
S. S. Ponca, S. 6° 20′, W. 34° 44′†	30.00	762.0	84	28.9		se.			3		6		se.	6 h'r	6 h'r	hv'y	se.	fair.
Bg. Potomac, N. 34° 12′, W. 63° 05′*†	30.05	763.3				sw.			3				w.	0	0	sm'h		hazy.
Bk. Princessen, N. 51° 38′ E. 2° 04′†	29.89	759.3	60	15.6		ssw.			6		10			0	0	sm'h		misty.
Bk. Rosebud, S. 1° 23′, W. 27° 41*†	30.05	763.3	77	25.0	90	se.			4		0			0	0	sm'h		very fine.
S. Salisbury, S. 41° 02′, E. 55° 01′*	29.60	751.8	53.8	12.1	93	s.			1-2		fg.			2 h'r	2 h'r	mod.	e.	cloudy.
Bk. Stella, N. 16° 40′, W. 141° 17′*	29.93	760.2	69.4	20.8	89	nne.			3		4		ne.	0	0	sm'h	ne.	
Bg. Teneriffe, N. 34° 40′, W. 71° 41′	29.82	757.4				sw.			6				w.	rain	rain	mod.		
Bk. Truro, Havre, France*†	29.90	759.4				wsw.			4		5		wsw.	2 h'r	2 h'r			fair.
U. S. F. C. S. S. FishHawk, Havre de Grace, Md†	30.03	762.7	66	18.9	90	wsw.			3		4		calm	0	0			clear.
Yacht Vega, St. Thomas Id, W. I.*†	30.30	769.6	81	27.2		ene.			3				ene.	0	0			
S. S. Victoria J. Peed, Salamanca Id, U. S. C.*†	29.11?	739.4?				e.			2		2							
Bk. Vincenzo Accame, N. 37° 45′ W. 54° —′†	30.39	772.0	75.2	24.0		s.			5									
Schr. Viola Reppard, Brunswick, Ga†	29.93	760.2	79	26.1		nnw.			2		10		wnw.	0	0			cloudy.
Bk. Warden Law, N. 39° 34′, W. 66° 02′*	29.96	761.0				w.			4		1		wsw.	0	0	sm'h	sw.	fair.
Bk. Wm. Wilcox, N. 7° 00′, W. 28° 44′*†	30.19	766.8	82	27.8		ese.			2		2		ese.	4 h'r	4 h'r	mod.	ese.	fair.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 6, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.04	763.0	73.4	23.0	90	nw.	.....	.....	4	.....	3	.....	.....	0.157	4.0	pretty fair...	Moiroud
Algiers	.....	.....	30.07	763.7	76.6	24.8	62	ne.	.....	.....	4	.....	0	.....	.....	0	0	clear.....	Nicolas.
La Galle	.....	.....	30.05	763.3	73.0	22.8	68	ne.	.....	.....	4	.....	2	.....	.....	0	0	fair.....	Foufrède.
Tunis	.....	.....	30.04	762.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.12	765.1	85.3	29.6	31	ne.	.....	.....	3	.....	0	.....	.....	0	0	clear.....	Perès.
Tebessa	.....	.....	30.14	765.6	91.0	32.8	12	ssw.	.....	.....	4	.....	1	.....	.....	0	0	very fair.....	Derché.
Geriville	.....	.....	.....	.....	83.8	28.8	12	ne.	.....	.....	3	.....	0	.....	.....	0	0	clear.....	Lonchamp.
Laghouat	.....	.....	30.11	764.9	95.0	35.0	13	e.	.....	.....	3	.....	0	.....	.....	0	0	clear.....	Abraham.
Biskra	.....	.....	30.13	765.3	101.5	38.6	12	se.	.....	.....	5	.....	0	.....	.....	0	0	clear.....	Malau.
Australian.																			
Melbourne, Victoria	29.98	761.5	30.07	763.8	44.4	6.9	89	ne.	1	0.4	.....	.....	1	.....	.....	0	0	fine.....	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.47	748.5	30.00	762.0	70.9	21.6	45	ne.	.....	.....	3	.....	10	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.26	743.1	30.01	762.3	60.1	15.6	83	w.	7.4	3.3	.....	.....	10	.....	.....	0.035	0.9	.....	Dr. Wierzbiski.
Eperies	29.08	738.6	29.93	760.2	69.8	21.0	69	nw.	.....	.....	2	0	8 s	.....	.....	0.205	5.2	.....	Julius Mikolik.
Gratz	28.81	731.7	30.02	762.5	68.0	20.0	79	nw.	.....	.....	4	.....	3	.....	.....	0.492	12.5	.....	Andreas Rospini.
Hermannstadt	28.51	724.2	29.89	759.2	71.6	22.0	61	se.	.....	.....	3	.....	10	.....	.....	0.055	1.4	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.72	729.6	30.03	762.8	65.8	18.8	68	sw.	.....	.....	1	.....	3	.....	.....	0	0	clearing.....	The Staff.
Lemberg	28.95	735.2	29 89	759.2	72.7	22.6	44	sw.	.....	.....	2	.....	3	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	29.92	760.0	30.03	762.8	73.0	22.8	49	ese.	.....	.....	3	.....	3	.....	.....	0.693	17.6	thnd'r storm	I. R. Hydrographic Office.
Szathmar	29.45	748.1	29.90	759 5	74.5	23.6	46	ne.	.....	.....	1	.....	9	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.65	753.0	29.92	759.9	67.6	19 8	75	w.	.....	.....	1	.....	10	.....	.....	0.205	5.2	.....	Karl Stancel.
Trieste	29.95	760.6	30.05	763.2	77.4	25.2	36	ne.	.....	.....	2	.....	5	.....	.....	0	0	.....	Royal Academy.
Vienna	29.35	745.6	30.05	763.3	67.3	19.6	63	w.	.....	.....	3	.....	3	.....	.....	0.016	0.4	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.28	743.7	29.38	746.2	58.6	14.8	73	s.	20	8.9	.....	.....	4	.....	.....	0.040	1.0	squally.....	W. Boswell
Armagh, Observatory	29.15	740.4	29.39	746.5	58.5	14.7	69	ssw.	17	7.6	.....	.....	7	.....	.....	.....	.....	d. clouds.....	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.54	750.3	62.1	16.7	55	sw.	30	13.4	.....	.....	3	.....	.....	.....	.....	d. clouds.....	John Hartnup.
Bolton, Sharples	29.02	737.1	29.54	750 3	60.6	15.9	66	sw.	12	5.4	.....	.....	7	.....	.....	.....	.....	d. clouds.....	Thomas Mackereth, A.S.
Bradford, Yorkshire	29.15	740.4	29.54	750.3	59.0	15.0	74	sw.	.....	.....	1	.....	5	.....	.....	0.02	0.5	d. clouds.....	J. McLandsborough, F. R
Bridgetown, Barbadoes	.....	.....	.....	.....	82.0	27.8	74	ne.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds.....	Corpl. J. Surgenor, A. H.C.
Cardington	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	John McLaren.
Chatham, School M. E.	29.63	752.6	29.76	755.9	57.1	13.9	93	sw.	.....	.....	2	.....	10	.....	.....	.....	.....	raining.....	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.50	749.3	29.72	754.9	60.0	15.6	82	sw.	.....	.....	4	.....	7	.....	.....	.....	.....	showery.....	The Staff.
Fort Napier, Natal	27.80	706.1	30.01	762.2	71.4	21.9	40	n.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky.....	Pvt. Lane, A. H.C
Free Town, Sierra Leone	29.68	753.9	29.92	760.0	82.0	27.8	78	nw.	.....	.....	1	.....	9	.....	.....	.....	.....	d. clouds.....	Sergt. John Robinson.
Gibraltar, Mediterranean	29.98	761.5	30.03	762.7	76.5	24.7	75	e.	.....	.....	2	.....	6	.....	.....	.....	.....	d. clouds.....	Cpl. O. Baldwin.
Glasgow, Observatory	29.19	741.4	29.40	746.7	61.2	16.2	55	wsw.	.....	.....	5	.....	7 n; k	.....	.....	.....	.....	d. clouds.....	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.55	750.6	29.72	754.9	56.9	13.8	99	ssw.	.....	.....	1	.....	10	.....	.....	.....	.....	raining.....	The Staff.
Guernsey	29.51	749.5	29.80	756.9	57.0	13.9	98	sw.	.....	.....	2	.....	10	.....	.....	.....	.....	raining.....	A. Collenette, F. M. S.
Kew, Observatory	29.70	754.4	29.74	755.4	59.7	15.4	81	sw.	10	4.5	.....	.....	10	.....	.....	.....	.....	raining.....	The Staff.
Leicester, Museum	29.39	746.5	29.64	752.8	60.2	15.7	76	sw.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast.....	J. O. Smith.
Malta, Mediterranean	29.92	760.0	29.99	761.7	84.4	29.1	42	sw.	.....	.....	2	.....	4	.....	.....	.....	.....	d. clouds.....	I. H. Whysall.
Nassau, Bahamas	30.18	766.6	30.23	767.8	85.0	29.4	71	s.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds.	C. S. Duncombe.
Oscott, St. Mary's College	29.11	739.4	29.63	752.6	58.1	14.5	79	s.	.....	.....	6	.....	9	.....	.....	.....	.....	threatening.	Warren Middleton.
Oxford, Radcliffe Obs'y	29.48	748.8	29.70	754.4	58.2	14.6	81	ssw.	.....	.....	4	.....	10	.....	.....	.....	.....	threatening.	The Staff.
Plymouth	29.65	753 1	29.72	754.9	61.8	16.6	85	sw.	.....	.....	3	.....	10	.....	.....	.....	.....	overcast.....	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.32	744.7	58.1	14.5	84	se.	10	4.5	.....	.....	8	.....	.....	.....	.....	d. clouds.....	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.95	760.7	30.01	762.2	68.8	20.4	60	s.	.....	.....	1	.....	10	.....	.....	.....	.....	showery.....	W. H. Lyne.
Sheffield	29.32	744.7	29.59	751.6	56.8	13.8	83	sw.	.....	.....	3	.....	10	.....	.....	0.05	1.3	overcast.....	W. F. Cooper.
Silloth Rectory	29.44	747.8	29.47	748.5	60.5	15.8	75	sw.	.....	.....	5	.....	3	.....	.....	0.035	0.9	d. clouds.....	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.57	751.1	58.9	14.9	76	w.	19	8.5	.....	.....	5	.....	.....	blank	blank	d. clouds.....	J. New.
Stratfield Turgiss	29.54	750.3	29.76	755.9	58.9	14.9	83	sw.	.....	.....	2-4	.....	0	.....	.....	.....	.....	showery.....	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.70	754.4	29.71	754.6	64	17.8	67	sw.	.....	.....	6	.....	6	.....	.....	.....	.....	d. clouds.....	W. Newcombe.
Valencia, Observatory	29.50	749.3	29.53	750.0	57.6	14.2	77	sw.	33	14.8	.....	.....	7	.....	.....	.....	.....	d. clouds.....	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.67	753.6	29.71	754.6	47	8.3	87	sw.	6	2.7	.....	.....	10 s	.....	sw.	0	0	cloudy.	H. J. Cundall, C. E.
Chatham, N. B*	29.65	753.1	29.71	754.6	46	7.8	93	sw.	6	2.7	.....	0	0	.....	.....	0.05	1.3	clear.....	G. A. Blair.
Father Point, Quebec*	29.65	753.1	29.68	753.9	45	7.2	86	w.	16	7.2	.....	8 ck	2 k	n.	calm	0	0	cloudy.....	J. McWilliams.
Halifax, N. S*	29.62	752.3	29.75	755.6	49	9.4	86	n.	2	0.9	.....	10 k	0	nw.	.....	inap.	inap.	cloudy.....	A. Allison.
Kingston, Ontario*	29.59	751.6	29.92	760.0	53	11.7	83	n.	5	2.2	.....	2 c	2 k	.....	n.	0	0	fair.....	A. P. Knight, M. A.
Montreal, Quebec*	29.63	752.6	29.84	757.9	55	12.8	69	s.	.....	.....	.....	2 c	0	.....	.....	0.51	13.0	clear.....	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.29	744.0	29.93	760.2	50	10.0	71	s.	6	2.7	.....	2 cs	0	s	.....	0	0	fair.....	Rev. R. Mosley.
Port Dover, Ontario	29.31	744.5	30.01	762.2	50	10.0	79	w.	4	1.8	.....	5 c	0	n.	.....	0	0	fair.....	H. Morgan.
Port Stanley, Ontario	29.36	745.7	30.00	762.0	52	11.1	80	n.	1	0.4	.....	2 ck	0	w.	.....	0	0	clear.....	M. Payne.
Quebec, Quebec*	29.50	749.3	29.83	757.7	46	7.8	86	w.	.....	.....	1	0	4 s	.....	w.	0.03	0.8	fair.....	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.38	746.2	29.84	757.9	46	7.8	76	nw.	4	1.8	.....	5 c	0	n.	.....	0	0	fair.....	W. H. McIntyre.
Saugeen, Ontario*	29.25	742.9	29.96	761.0	51	10.6	72	sw.	8	3.6	.....	2 cs	0	.....	.....	0	0	clear.....	
St. Andrews, N .B	29.71	754.6	29.77	756.1	46	7.8	95	nnw.	3	1.3	.....	hz.	3 n	.....	.....	0.01	0.3	fair.....	
Sydney, C. B*	29.65	753.1	29.70	754.4	46	7.8	74	w.	11	4.9	.....	0	8 ks	.....	nw.	0	0	cloudy	T. C. Hill, C. E
Toronto, Ontario*	29.56	750.8	29.94	760.5	56	13.3	44	nw.	16	7.2	.....	2 cs	0	nw.	.....	0	0	clear.....	Magnetic Observatory.
Yarmouth, N. S*	29.66	753.4	29.73	755.1	52	11.1	86	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear.....	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Wm. Wylie.
St. Johns, Newfoundland	29.91?	759.7?	30.16?	766.1?	47	8.3	100	sw.	4	1.8	.....	5 k	5 s	.....	.....	0.28	7.1	.....	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.06	763.5	30.09	764.3	65.0	18.3	83	ne.	7.5	3.4	.....	0	1 s	.....	.....	0	0	hazy.....	John Duthie.
Cape Town, C. G. H. Obs'y	30.07	763.8	30.11	764.8	61.0	16.1	82	nnw.	21	9.4	.....	2	4	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow	29.61	752.1	29.88	758.9	76.8	24.9	86	sse.			3		10			0	0	covered	N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.82	757.4	29.84	758.0	67.8	19.9	86	ese.	19.5	8.7		ck	10 n			0.012	0.3	raining	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.81	757.2	29.86	758.4	67.8	19.9	56	ssw.	28.0	12.5			4						Oversergent Fischer.
Fanöe	29.74	755.5	29.76	756.0	64.0	17.8	82	sw.			4		8						Overloerer Lauridsen.
Godthaab, Greenland	29.84	757.9	29.88	759.0	36.3	2.4	94	ssw.			2		10			0.020	0.5		S. Kleinschmidt.
Stykkisholm, Iceland	29.59	751.6	29.63	752.7	34.9	1.6	78	ne.			8		10					snowing	A. O. Thorlacius.
Thorshavn	29.28	743.8	29.32	744.7	52.9	11.6	87	ne.	7	3			9						Overloerer Bergh.
Vestervig	29.59	751.5	29.68	753.8	60.1	15.6	83	ssw.			7		8						Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.39	746.4	30.00	762.0	83.1	28.4	27	calm			0		8		w.	0.980	24.9	clearing	M. Labroue, Director.
Alençon, Normal School	29.35	745.5	29.90	759.5	69.1	20.6	76	sw.			1		kn	n.	n.	0	0		M. Nicot, Director.
Arras, Engineer School	29.58	751.2	29.82	757.5	71.6	22.0	48	ssw.			4		kn		ssw.	0	0		M. Fénéon, Command't.
Avignon, Normal School	29.92	760.0	30.00	762.0	83.8	28.8	40	n.			2		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.41	747.1	29.95	760.6	75.6	24.2	44	s.			1		0			0	0	clear	M. Saillard, Director.
Beauvais, Normal School	29.61	752.2	29.87	758.6	75.4	24.1	46	s.			3		8		sw.	0	0	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.12	739.7	29.98	761.5	73.0	22.8	53	sw.			1		0			0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.65	753.0	29.90	759.4	80.1	26.7	32	sw.			2		5		sse.	0	0	cloudy	M. Rayet, Director.
Bourges, Normal School	29.35	745.5	29.87	758.8	77.0	25	40	ssw.			1		1		ssw.	0	0	clear	M. Postel, Director.
Brest, Naval Observatory	29.60	751.7	29.84	758.0	62.2	16.8	85	sw.			1		10		sw.	0.276	7.0	raining	M. de Kermaree, Dir.
Caen, Normal School	29.72	754.8	29.79	756.7	64.4	18	60	ssw.			2		10			0.020	0.5	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.60	751.8	29.91	759.7	72.7	22.6	42	sse.			3		2		sw.	0	0	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.48	748.9	29.94	760.5	62.6	17	61	sw.			1		10			0	0	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.61	726.7	29.89	759.1	79.5	26.4	40	e.			1		2 ck	0		0	0	slightly cl'dy	M. Alluard, Director.
Cluny, Normal School	29.15	740.5	29.97	761.3	72.1	22.3	46	s.			2			0		0	0	clear	M. de Villemontée, Dir.
Commercy, Normal School	29.12	739.7	29.96	761.0	72.9	22.7	42	sw.			1		ck		sw.	sw.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.52	699.1	29.94	760.5	78.8	26	26	sw.			2		1 c	0	ne.		0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.90	734.1	29.97	761.2	82.8	28.2	22	sw.			3		1		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.17	741.0	29.91	759.8	72.0	22.2	56	wnw.			1		c	0		0	0		M. Ablard, Director.
Guéret, Normal School	28.43	722.1	29.93	760.3	73.4	23	48	ssw.			1			0		0	0	clear	M. Rivoire, Director.
Lamballe, Normal School	29.61	752.2	29.89	759.2	60.1	15.6	91	ssw.			2		10		ssw.	0	0	covered	M. Ollitrault, Director.
Lescar, Normal School	29.38	746.3	29.92	759.9	83.5	28.6	42	n.			1		2			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	29.74	755.4	29.84	758.0	60.8	16.0	71	ssw.			6		10			0.008	0.2	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.95	735.3	29.97	761.2	72.5	22.5	55	s.			1		0			0	0	clear	M. André, Director.
Mans, Normal School	29.63	752.6	29.93	760.2	73.2	22.9	45	sw.			4		2		sw.	0	0	slightly cl'dy	M. Piboen, Director.
Marseille, Observatory	29.76	755.8	30.02	762.6	74.5	23.6	36	wsw.			1.2		1			0	0		M. Stephan, Director.
Montlouis	24.90	632.4	29.74	755.4	64.0	17.8	46	se.	7.4	3.3			8		ne.	0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.87	758.7	30.00	761.9	76.1	24.5	61	s.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.19	741.5	29.95	760.7	74.1	23.4	43	nne.			1					0.031	0.8		M. Hasse, Director
Nantes, Observatory	29.77	756.1	29.93	760.2	69.3	20.7	60	wnw.			1–2		0	9 n; kn		0	0		M. Larocque, Director.
Perpignan, Observatory	29.90	759.4	30.00	762.1	72.5	22.5	48	s.	9.4	4.2			7	w.	wnw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.37	542.8			45.3	7.4		sw.			1		5		sw.	0	0	cloudy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.96	735.5	29.93	760.2	79.2	26.2	40	ne.			1		0			0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.21	640.2			55.4	13.0	55	wsw.			2		0			0.016	0.4	clear	M. Alluard, Director.
Rochefort, Naval Obs'y	29.88	759.0	29.91	759.8	77.0	25.0	100	w.			2		2		w.	0	0	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.68	753.8	29.88	759.0	71.6	22	61	sw.			1		5		s.	0	0	cloudy	M. Mouillot, Director.
Rodez, Normal School	27.84	707.1	29.89	759.1	79.2	26.2	41	nw.			1		s		nw.	0	0		M. Seger, Director.
Rouen, Normal School	29.78	756.5	29.82	757.5	72.7	22.6	51	s.			3		8	s.		0	0	very cloudy	M. Brotier.
Saint Maur, Observatory	29.74	755.3	29.90	759.5	74.5	23.6	42	ssw.			2		1	sw.	sw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.32	744.6	30.04	763.0	83.5	28.6	31	s.			1		5	w.		0	0	cloudy	M. Baillaud, Director.
Tours	29.72	755.0	29.90	759.5	72.3	22.4	52	sw.			1		c		ssw.	sw.	0	0	clear	M. de Tastes.
Versailles, Observatory	29.41	747.0	29.90	759.5	74.8	23.8	40	sw.			3					0.067	1.7		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.62	752.3	29.91	759.7	75.0	23.9	35	ssw.			3		3		ssw.	0	0		M. Marié Davy, Director
GERMAN.																			
Bamberg	29.20	741.6	30.05	763.3	70.3	21.3	40	se.			2		2 c	0	se.	0	0		Prof. Dr. Hoh.
Berlin	29.89	759.3	30.07	763.7	73.6	23.1	42	se.			2			6		0.102	2.6		Prof. Dr. Arndt.
Breslau	29.54	750.4	30.08	763.9	68.4	20.2	48	nnw.			2			5		0.370	9.4		Royal University Obs'y.
Carlsruhe	29.54	750.4	29.97	761.2	73.8	23.2	45	ne.			1			0		0	0		Albert Senz.
Cassel	29.22	742.2	29.93	760.3	76.3	24.6	47	sw.			6			2	sw.	0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.62	752.3	29.97	761.2	73.2	22.9	43	s.			1			0		0.157	4.0		Physical Society.
Friedrichshafen	28.59	726.1	30.00	762.1	66.6	19.2	71	sw.			3			0		0	0		Wilhelm, Chief Tel.
Hamburg	29.83	757.7	29.93	760.1	70.9	21.6	55	ssw.			5			3		0	0		E. Preller.
Kiel	29.82	757.5	29.84	757.9	70.3	21.3	56	sw.			2			6		0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.60	751.8	30.00	762.1	72.5	22.5	48	ssw.			3			5	sw.	0.287	7.3		H. Leppig, Asst.
Magdeburg	29.78	756.4	29.96	761.0	75.7	24.3	42	s.			3		0	3 k		sw.	0	0		Dr. Assmann.
Memel	29.95	760.6	29.99	761.8	59.2	15.1	77	nnw.			3		0	6 ks					Issermann.
Munich	28.24	717.4	30.11	764.8	66.7	19.3	44	ne.			2			1	ne.	0.008	0.2		Central Station.
Neufahrwasser	30.00	762.0	30.02	762.4	66.2	19.0	52	e.			1			5		0	0		A. Lothes.
Neustadt, Palatinate	29.43	747.6	29.96	760.9	73.4	23.0	47	s.			3					0	0		Dicknether.
Stuttgart	29.05	737.9	29.95	760.7	72.5	22.5	43	s.			1			c		0	0		Prof. Dr. Schoder.
Wustrow	29.91	759.7	29.93	760.3	72.7	22.6	89	s.			5		0	5 k		0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.65	753.1			75.7	24.3		sw.			1.5		7 c	0		0	0	misty	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.42	747.3	29.47	748.6	89.1	31.7	82	wsw.	33.0	14.8			6		w.	0	0	misty	
Deesa	28.94	735.1	29.39	746.5	99.8	37.7	52	sw.	18.6	8.3			8	ssw.	ssw.	0	0	misty	
Bombay	29.53	750.1	29.57	751.0	84.3	29.1	89	w.	11.0	4.9			10		wnw.	0.82	20.8	overcast	
Poona, Yarrowda	27.72	704.0	29.55	750.4	81.0	27.2	72	wsw.	23.0	10.3			9	wnw.	wnw.	0	0	d. clouds	
Trichinopoly	29.38	746.4	29.66	753.4	85.3	29.6	54	wnw.	5.0	2.2			10			0	0	overcast	
Bellary	28.11	713.9	29.55	750.4	85.2	29.6	54	w.	15.9	7.1			9	w.		0	0	gloomy	
Belgaum	27.09	688.0	29.61	752.2	73.6	23.1	85	wsw.	8.0	3.6			7	w.	sw.	0.63	16.0	showery	
Lahore	28.65	727.6	29.34	745.3	104.3	40.2	21	e.	4.8	2.2			8			0	0	misty	
Roorkee	28.59	726.3	29.46	748.4	89.2	31.8	41	se.	6.0	2.7			4			0	0	thunder	
Agra	28.90	734.0	29.44	747.8	93.6	34.2	39	s.	8.4	3.8			0			0	0	blue sky	
Nagpur	28.37	720.6	29.38	746.1	92.7	33.7	44	se.	4.6	2.1			8		se.	0.11	2.8	d. clouds	
Jubbulpore	28.10	713.9	29.41	746.9	94.2	34.6	37	e.	5.6	2.5			5		se.	0	0	d. clouds	
Lucknow	29.11	739.5	29.48	748.8	87.1	30.6	67	calm	5.4	2.4			10			0.30	7.6	overcast	
Allahabad	29.15	740.5	29.45	748.1	92.7	33.7	42	e.	4.9	2.2			6		s.	0	0	d. clouds	
Patna	29.33	744.9	29.51	749.5	88.2	31.2	62	ne.	5.9	2.6			4	ne.	ne.	0.03	0.8	d. clouds	
Hazaribagh	27.52	699.1	29.49	749.0	84.8	29.3	53	se.	5.7	2.6			2			0.17	4.5		
Cuttack	29.36	745.8	29.44	747.8	90.9	32.7	53	sse.	2.5	1.1			4			0	0	d. clouds	
Calcutta, Alipore	29.46	748.2	29.48	748.7	85.8	29.9	83	sse.	4.0	1.8			8	e.	e.	0	0	d. clouds	
Dhubri	29.36	745.8	29.48	748.7	85.8	29.9	74	calm	3.5	1.6			0			0	0	blue sky	
Chittagong	29.45	748.0	29.54	750.2	83.7	28.7	86	s.	3.2	1.4			9			0	0	d. clouds	
Sibsagar	29.16	740.7	29.49	749.0	87.0	30.6	74	s.	2.3	1.0			0			0	0	blue sky	
Jeypore	27.97	710.5	29.34	745.2	101.5	38.6	35	ese.	6.0	2.7			7	ese.		0	0	d. clouds	
Zanzibar, Africa	30.00	762.0			83.2	28.4	63	se.	5.3	2.4			8		sse.	0	0	misty	
ITALIAN.																			
Udine	29.65	753.2	30.05	763.3	76.5	24.7	69	sw.	1.8	0.8			1			0.165	4.2		Prof. Giovanni Cloelia.
Milan	29.54	750.4	30.04	763.0	79.7	26.5	38	se.	5.6	2.5			4	ene.		0	0		Prof. Schiaparelli.
Padua	29.95	760.6	30.05	763.3	76.1	24.5	37	sse.	8.1	3.6			1			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.13	740.0	30.00	762.1	79.0	26.1	35	nw.	1.8	0.8			4	ne.		0	0		Prof. P. F. Denza.
Genoa	29.87	758.8	30.06	763.5	72.0	22.2	69	sw.	4.3	1.9			2	sw.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.15	714.9	29.99	761.8	72.5	22.5	37	w.			2		0			0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	30.02	762.4	30.06	763.6	70.3	21.3	55	n.	4.3	1.9			0			0	0		Prof. Luigi Guidi.
Florence	29.78	756.3	30.02	762.6	79.2	26.2	28	ne			2		0			0	0		Prof. Costantino Pitter.
Leghorn	29.89	759.2	29.97	761.3	75.7	24.3	61	wnw.	5.6	2.5			2			0	0		Prof. P. Monte.
Rome	29.82	757.5	29.99	761.8	82.4	28.0	21	n.	11.9	5.3			0			0	0		Prof. P. S. Ferrari.
Lecce	29.70	754.3	29.94	760.5	79.3	26.3	51	nnw.	11.2	5.0			6			0.295	7.5		Prof. C. de Giorgi.
Cosenza	29.13	739.9	29.98	761.5	79.9	26.6	72	sse.	2.5	1.1			6	se.		0	0		Prof. D. Conti.
Cagliari	29.81	757.2	30.00	761.9	75.9	24.4	58	se.			4		0			0	0		Prof. A. Pacinotti.
Palermo	29.80	756.8	30.04	763.0	75.7	24.3	44	ne.	7.4	3.3			2			0	0		Prof. G. Ciacciatore.
Syracuse	29.91	759.6	29.95	760.7	83.3	28.5	63	nne.	15.4	6.9			9	sw.		0	0		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.46	748.3	29.97	761.2	78.1	25.6	60	sw.	2.5	1.1			3	w.		0	0		Prof. T. Brioschi.
Stelvio	22.30	566.5			48.0	8.9	43	sw.			2		0			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.35	567.7			49.3	9.6	66	e.			1		2			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.69	754.1	29.72	754.9	52.8	11.6	94	w.	3.1	1.3			10 n			0.223	5.7	raining	K. Ogawa.
Hakodate	29.69	754.1	29.70	754.4	52.0	11.1	92	calm	0	0			10			0.555	14.1	raining	
Hiroshima, I. M. Obs'y	29.85	758.2	29.87	758.7	61.8	16.6	84	nne.	5.6	2.5		0	0			0	0	clear	I. Sogawa.
Kanazawa	29.82	757.4	29.92	759.9	55.5	13.1	95	w.	4.8	2.1		ck	10ks;s			0.230	5.8	overcast	S. Endo.
Kioto	29.72	754.9	29.90	759.4	58.2	14.6	68	nw.	3.7	1.6		2 ck	0			0	0	clear	M. Tojima.
Kochi	29.87	758.7	29.89	759.2	65.8	18.8	64	nw.	3.5	1.6		0	3 s			0	0	clear	K. Kusunose.
Nagasaki, I. M. Obs'y	29.73	755.1	29.93	760.2	65.6	18.7	78	w.	0.7	0.3		0	6 s			0	0	gloomy	S. Takehayashi.
Nemuro	29.73	755.1	29.80	756.9	43.0	6.1	93	nne.	18.0	8.0		10	0	wsw.				rainy	
Niigata	29.76	755.9	29.80	756.9	55.8	13.2	96	n.	3.5	1.6			10 n			0.210	5.3	light rain	M. Morita.
Nobiru	29.70	754.6	29.71	754.6	54.7	12.6	80	ne.	4.7	2.1			10 s			0.050	1.3	covered	H. Midzushina.
Sapporo					55.0	12.8	89	calm	0	0			10			0.155	3.9	covered	
Tokei Obs'y, Yeddo	29.68	753.9	29.75	755.6	60.3	15.7	87	s.	3.3	1.5		1 cs	1 s			0	0	clear	The Staff.
Wakayama	29.83	757.7	29.88	758.9	63.0	17.2	64	e.	1.0	0.4		0	0			0	0	clear	Y. Kuwamuea.
MAURITIUS																			
Mauritius Observatory	29.90	759.4	30.09	764.3	75.9	24.4	67	w.	3.0	1.3		0	7 ks;n		wsw.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.74	603.0	29.96	761.0	60.6	15.9	83	ne.				3 cp	7 k	ne.	ne.	0	0	cloudy	Prof. Vicente Fernández.
Leon	24.34	618.2	29.96	761.0	63.3	17.4	78	nne.			1	8 c	1 k	s.		0	0	cloudy	Prof. M. Leal.
Mazatlan	29.72	755.0	29.98	761.5	76.0	24.4	95	e.	0.9	0.4		0	9 n		w.	0	0	very cloudy	F. Quijano, C. E.
Mexico, Central Obs'y	23.15	588.0	30.16	766.2	57.2	14.0	83	nw.					10 kn			c	0	covered	The Staff.
Morelia	24.17	614.0	30.22	767.6	61.2	16.2	62	ne.			* 3	2	0	e.		0.087	2.2		M. Tena, M. D.
Rabellon, Aguascallentes	23.94	608.1	29.91	759.7	59.9	15.5	93				2					0	0		M. V. de Leon, M. E.
Puebla, Catholic Institute	23.43	595.2	30.15	765.9	56.7	13.7	92	calm	0	0		0	0			0.087	2.2	clear	Prof. P. Spina.
San Luis Potosi	24.30	617.1	30.15	765.7	58.0	14.4	65	ene.				0	7		w.	0	0	cloudy	G. Barroeta, M. D.
Zacatecas	22.65	575.2	30.29	769.4	50.9	10.5	94	n.	6.0	2.7		0	9 k			0	0	cloudy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.84	758.0	29.84	758.0	66.7	19.3		ssw.			5					0	0		
Groningen	29.75	755.6	29.80	757.0	70.0	21.1		sw.			5					0	0		
Helder	29.78	756.5	29.78	756.5	62.2	16.8		ssw.			5					0.244	6.2		
Hellevoetsluis	29.82	757.5	29.82	757.5	66.0	18.9	73	sw.			3					0	0		
Utrecht	29.78	756.5	29.83	757.7	72.1	22.3	50	ssw.			5		5			0.028	0.7	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.39	746.6	29.46	748.2	55.0	12.8	87	sse.	18	8			10			2.106	53.5	raining	
Brono	29.13	740.0	29.17	741.0	49.6	9.8	89	sw.	27	12			10			0.012	0.3	raining	
Christiania	29.49	749.0	29.63	752.7	55.0	12.8	86	sw.	0	0			10			0.008	0.2		
Gjæsvær	29.61	752.0	29.63	752.6	37.2	2.9		ne.			6		10						
Lodingen	29.30	744.3	29.35	745.5	46.8	8.2	91	nne.			4		10			0.138	3.5	raining	
PORTUGUESE.																			
Angra, Azores					63.1	17.3	63	n.	14.3	6.4			3			0	0		Dr. J. A. Sampaio.
Campo Major	29.04	737.5	29.99	761.7	82.4	28.0	29	sw.	1.3	0.6			4			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.10	764.5	30.19	766.8	68.4	20.2	62	sw.	7.4	3.3			7			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.73	755.2	30.09	764.2	70.3	21.3	48	ne.	7.4	3.3			4	sw.		0	0		The Staff.
Ponta Delgada, Azores	30.24	768.0	30.31	769.8	66.6	19.2	63	nne.	13.0	5.8			4			0	0		
Saint Paul de Lomdo	29.79	756.6	29.99	761.7	75.0	23.9	86	wnw.	0.7	0.3			0			0	0		
Serra da Estrella	25.33	643.3	29.94	760.5	59.9	15.5	36	wnw.	11.9	5.3			6			0	0		
RUSSIAN.																			
Akmolinski	28.56	725.3	29.55	750.6	85.3	29.6	28	ese.	11	5		2 cs	0			0	0		Major K. Lasarew.
Archangel	29.84	757.8	29.85	758.3	57.4	14.1	46	calm	0	0		2 cs	0			0	0		Capt. Sseliwerstow.
Astrakhan	29.44	747.8	29.36	745.7	65.8	18.8	70	wnw.	18	8			10 ks			blank	blank		Capt. Wisganow.
Barnaul	29.32	744.7	29.79	756.7	72.9	22.7	31	ne.	18	8			0			0	0		Meteorological Obs'y.
Dorpat	29.58	751.4	29.81	757.2	77.4	25.2	48	wsw.	11	5		10 ck	0			0	0		Observatory.
Ekaterinburg	28.52	724.3	29.42	747.3	74.7	23.7	56	sse.	9	4			10			0.429	10.9	solar corona	Meteorological Obs'y.
Kasan	29.03	737.4	29.29	744.0	57.6	14.2	79	nnw.	13	6			10 s			0.150	3.8		Observatory.
Kertch	29.87	758.7	29.89	759.2	69.6	20.9	49	wnw.	22	10		5 ck	0			0.291	7.4		Lagorio & Saetyrea.
Kieff	29.24	742.8	29.85	758.1	74.3	23.5	27	nw.	7	3		ck	5 ks			0	0		Observatory.
Lugan	29.46	748.3	29.66	753.4	68.7	20.4	29	wnw.	34	15			7			0	0		Meteorological Obs'y
Moscow	29.20	741.7	29.66	753.3	62.1	16.7	29	n.	10.1	4.5			0						Meteorological Obs'y.
Nikolaiev	29.89	759.3	29.97	761.1	76.6	24.8	42	calm	0	0		0	8 kn			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.60	751.7	29.68	753.9	61.0	16.1	69	ne.	2	1			10			0	0		Lieut. Iwanow.
Pekin, China	29.58	751.4	29.72	755.0	71.2	21.8	72	calm	0	0			9 n			0	0		Physical Observatory
St. Petersburg	29.82	757.4	29.84	757.8	68.7	20.4	31	sse.	7	3		0	7 ks;n			0	0		Central Physical Obs'y.
Semipalatinsk	29.04	737.6	29.65	753.1	81.3	27.4	42	nne.	11	5		2 c	0			0	0		Major Lasarew.
Tashkend, Laboratory	28.02	711.8	29.46	748.2	93.2	34.0	41	calm	0	0			0						Teich, A. M.
Tiflis	28.53	724.7	29.95	760.7	54.9	12.7	50	nw.	45	20			10			0	0		Physical Observatory
Vladivostock	29.73	755.2			53.2	11.8	83	se.	18	8		0	3 k						
Warsaw	29.54	750.2	29.95	760.6	67.5	19.7	70	n.	4	2			10 ks						Astronomical Obs'y
Wilna	29.50	749.3	29.90	759.4	75.6	24.2	28	ssw.	4	2			4			0	0		Berg, Assistant.
SPANISH.																			
Barcelona, Met. Obs'y	29.89	759.2	29.99	761.8	75.7	24.3	60	sw.	4.9	2.2			0			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.90	759.4	29.96	760.9	76.5	24.7	64	nw.	2.7	1.2		2	3	w.		0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.08	687.7	29.91	759.8	74.5	23.6	53	sw.	4.9	2.2			2			0	0	light clouds	Domingo Martin.
Madrid, Royal Obs'y	27.82	706.6	29.93	760.3	82.4	28.0	47	s.	9.8	4.4		1	0	wsw.		0	0	light clouds	The Staff.
Murcia, Met. Obs'y	29.89	759.1	30.09	764.2	81.0	27.2	48	e.	3.4	1.5		0	0			0	0	clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.05	737.9	29.95	760.6	58.5	14.7	94	s.	8.7	3.9			10			0.012	0.3	rainy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.08	764.0	30.14	765.6	80.9	27.2	80	e.	5.4	2.4		0	0			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.76	755.9	29.82	757.4	83.6	28.7	81	nw.	2.2	1.0		0	1 ks			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.92	760.1	30.02	762.5	80.4	26.9	44	e.	9.6	4.3		0	2		ese.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.05	763.3	30.13	765.4	82.4	28.0	85	e.	9.4	4.2		1 s	2 k	e.	e.	0	0	clear	Manuel Maese.
Tuguegarao, Philippine Id's	29.70	754.4	29.83	757.7	83.3	28.5	78	n.	1.8	0.8		3 cs	6 k	e.		0	0	dull	José L. Yrastorza.
SWEDISH																			
Haparanda	29.54	750.3	29.58	751.3	51.4	10.8	81	s.			4		10			0	0		
Umea	29.50	749.2	29.55	750.5	59.7	15.4	59	sw.			6		3			0.276	7.0		
Hernosand	29.49	749.1	29.54	750.4	69.8	21.0	35	sw.			6		5			0.012	0.3		
Stockholm	29.58	751.3	29.76	755.8	68.4	20.2	55	sw.			6		9			0.228	5.8		
Wisby	29.80	756.8	29.85	758.3		18.0	67	sw.			4		3			0.256	6.5		
Sub-series.					64.4														
Upsala	29.63	752.5	29.71	754.7	64.8	18.2	62	ssw.	15.2	6.8			10		sw.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.62	726.9	30.01	762.2	66.6	19.2	46	n.			2					0	0	clear	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
SCOTTISH.																			
Monach Lt			29.31	744.5	59	15.0	93	sw.			4	5	5	sw.		0.2	5.		J. Youngclause.
TURKISH.																			
Constantinople			30.06	763.5	69.6	20.9	45	s.	5.6	2.5			10		sw.	0	0		The Observatory.
Valona			30.06	763.5	77.4	25.2		s.			2		5			0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.10	764.5	72.0	22.2	63	nw.			2	0	0			0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.79	756.7	29.87	758.7	58.2	14.6	69	nw.	6	2.7		0	8 ks		nw.	0.15	3.8	cloudy	J. O. Barnes.
Alpena, Michigan	29.31	744.5	29.96	761.0	55	12.8	55	w.	3	1.3		0	0			0	0	clear	Jas. J. Fitzgerald.
Atlanta, Georgia	29.09	738.9	30.24	768.1	59.0	15.0	65	nw.	5	2.2		2 c	0			0	0	clear	H. Hall.
Atlantic City, New Jersey	29.90	759.4	29.91	759.7	59.8	15.4	62	nw.	8	3.6		0	0			0	0	clear	Jas. M. Watson.
Augusta, Georgia	30.10	764.5	30.29	769.4	61	16.1	75	nw.	4	1.8		3 c	0	sw.		0	0	clear	John Healy.
Baltimore, Maryland	29.97	761.2	30.02	762.5	61	16.1	56	nw.	12	5.4		1 c	0	w.		0	0	clear	Robert Seyboth.
Barnegat, New Jersey	29.88	758.9	29.90	759.4	59.5	15.3	61	nw.	17	7.6		4 cs	0	w.		0	0	fair	Chas. F. Merritt.
Behring Island, Behring Sea	29.65	753.1	29.67	753.6	39.0	3.9		n.	23	10.3			10 ks		n.	0.10	2.5	cloudy	Dr. L. Steineger.
Bismarck, Dakota	28.21	716.5	29.96	761.0	56	13.3	64	se.	3	1.3		0	0			0	0	clear	Cyrus Cramer.
Boise City, Idaho	27.09	688.1	29.87	758.7	51	10.6	61	ne.	2	0.9		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.64	752.8	29.80	756.9	57.0	13.9	74	nw.	5	2.2			10 s		nw.	0.05	1.3	cloudy	O. B. Cole.
Brownsville, Texas	30.00	762.0	30.04	763.0	72.4	22.4	97	calm	0	0		0	8 s		calm	0.06	1.5	cloudy	M. McCarty.
Buffalo, New York	29.24	742.7	29.98	761.5	52.8	11.6	68	sw.	15	6.7		1 cs	0	w.		inap.	inap.	clear	Wm. Finn.
Burlington, Vermont	29.57	751.1	29.86	758.4	53.0	11.7	72	calm	0	0		7 ck	2 s	w.	n.	0.06	1.5	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.90	759.4	30.29	769.4	62.6	17.0	70	nw.	1	0.4		0	0			0	0	clear	W. H. Ray.
Campo, California	27.45	697.2	29.93	760.2	37.5	3.1	82	sw.	2	0.9		6 c	0	sw.		0	0	fair	W. H. Clendenon.
Camp Thomas, Arizona	27.29	693.2	29.92	760.0	69	20.6	66	se.			1	1 cs	2 ks			inap.	inap.	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.05	763.3	30.07	763.8	62	16.7	60	w.	16	7.2		1 cs	0			0	0	clear	A. K. Alderson.
Cape May, New Jersey	29.93	760.2	29.96	761.0	59	15.0	70	w.	31	13.9		0	0			0	0	clear	W. Bolton.
Cedar Keys, Florida	30.20	767.1	30.22	767.6	71	21.7	62	n.	8	3.6			10 s		nw.	0.07	1.8	cloudy	F. W. Mixer.
Champaign, Illinois	29.35	745.5	30.14	765.5	57.3	14.1	55	w.	12	5.4		0	0			0	0	clear	L. A. Welsh.
Charleston, S. Carolina	30.16	766.1	30.21	767.3	67	19.4	51	n.	5	2.2		3 c	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.31	744.5	30.14	765.5	66.0	18.9	45	nw.	6	2.7		0	0			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.45	748.0	30.26	768.6	58.0	14.4	69	w.	6	2.7		1 k	0			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.18	614.2	29.92	760.0	44.2	6.8	86	w.	2	0.9		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.37	746.0	30.06	763.5	58.3	14.6	57	w.	10	4.5		0	0			0	0	clear	J. Mitchell.
Chincoteague, Virginia	29.99	761.7	30.01	762.2	62	16.7	93	nw.	18	8.0		0	0			0	0	clear	V. P. Temple.
Cincinnati, Ohio	29.51	749.5	30.16	766.1	59	15.0	65	w.	4	1.8		0	0			inap.	inap.	clear	R. B. Watkins.
Cleveland, Ohio	29.34	745.2	30.07	763.8	52.7	11.5	64	sw.	6	2.7		0	0			inap.	inap.	clear	J. B. Newlin.
Coleman City, Texas	28.42	721.9	30.17	766.3	61	16.1	90	ne.	6	2.7		10 cs	0			0.31	7.9	cloudy	L. Dorman.
Columbus, Ohio	29.26	743.2	30.10	764.5	53	11.7	61	w.	3	1.3		0	0			inap.	inap.	clear	D. Cuthbertson.
Concho, Texas	28.27	718.0	30.14	765.5	62	16.7	84	ne.	6	2.7		4 ck	4 s	se.		0.12	3.0	cloudy	W. W. McConihe.
Davenport, Iowa	29.51	749.5	30.15	765.8	58	14.4	69	w.	4	1.8		0	0			0	0	clear	R. R. Martin.
Dayton, Washington T'y	28.10	713.7	29.84	757.9	60.6	15.9	85	sw.	5	2.2		2 c	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.44	646.2	29.87	758.7	53	11.7	59	sw.	10	4.5		0	0			0	0	clear	G. W. Scott.
Decatur, Texas																			D. J. Carr.
Delaware Breakwater, Del.	29.96	761.0	29.98	761.5	59	15.0	70	nw.	22	9.8		1 ck	0			0	0	clear	F. C. Pratz.
Denison, Texas	29.47	748.5	30.25	768.3	59.0	15.0	70	ne.	2	0.9		0	0			inap.	inap.	clear	J. McGlone.
Denver, Colorado	24.88	631.9	29.92	760.0	50.0	10.0	80	s.	4	1.8		0	hz.		calm	0.01	0.3	clear	F. M. Neal.
Des Moines, Iowa	29.31	744.5	30.19	766.8	52	11.1	86	calm	0	0		0	fg.			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.34	745.2	30.03	762.7	55.0	12.8	55	w.	5	2.2		0	0			0	0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.66	702.6	30.17	766.3	54	12.2	100	sw.	4	1.8			10 n			0.02	0.5	light rain	E. A. Thomas.
Dubuque, Iowa	29.42	747.3	30.11	764.8	56.8	13.8	62	w.	2	0.9		0	0			0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.30	744.2	29.99	761.7	64	17.8	45	w.	16	7.2		0	hz.			0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.38	746.2	30.16	766.1	67.0	19.4	84	se.	5	2.2			10 s		se.	0.40	10.2	cloudy	F. Belford.
Eagle Rock, Idaho	25.27	641.8	29.86	758.4	48	8.9	54	sw.	10	4.5		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.70	754.4	29.77	756.1	47.5	8.6	89	n.	8	3.6		2 k	3 s	n.	nw.	0.21	5.3	fair	D. C. Murphy.
El Paso, Texas	26.39	670.3	29.98	761.5	61	16.1	84	e.	2	0.9			10 ks		se.	0.05	1.3	cloudy	J. F. Marshall.
Erie, Pennsylvania	29.29	744.0	30.01	762.2	56	13.3	74	sw.	3	1.3		0	0			0	0	clear	Peter Wood.
Escanaba, Michigan	29.28	743.7	29.93	760.2	59	15.0	60	calm	0	0		7 k	0	w.		0	0	fair	C. Dill.
Fort Apache, Arizona	25.11	637.8	29.86	758.4	49	9.4	86	e.	1	0.4		0	5 s		calm	0.44	11.2	fair	W. G. Barnes.
Fort Assinnaboine, Montana	27.12	688.8	29.91	759.7	51	10.6	74	sw.	6	2.7		0	0			0	0	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.55	725.2	30.09	764.3	51	10.6	80	w.	1	0.4		0	0			0	0	clear	A. Pritchard.
Fort Benton, Montana																			G. W. Davis.
Fort Buford, Dakota	28.02	711.7	29.98	761.5	53	11.7	69	calm	0	0		0	0			0	0	clear	A. H. Bell.
Fort Custer, Montana	26.79	680.5	29.85	758.2	52	11.1	80	se.	8	3.6		0	0			0	0	clear	V. Verge.
Fort Davis, Texas	25.26	641.6	29.87	758.7	57	13.9	100	e.	4	1.8			10 s		calm	0.37	9.4	cloudy	J. Williams.
Fort Elliott, Texas	27.46	697.5	30.13	765.3	54	12.2	80	se.	4	1.8			10 n		se.	0.04	1.0	light rain	W. J. Cundall.
Fort Grant, Arizona	25.33	643.4	29.87	758.7	63.9	17.7	20	sw.	2	0.9		0	3 ks			0	0	clear	Robert C. Lord.
Fort Keogh, Montana	27.43	696.7	29.86	758.4	53	11.7	69	se.	3	1.3		0	0			0	0	clear	W. B. Stockman.
Fort Macon, North Carolina	30.12	765.0	30.13	765.3	62	16.7	60	n.	14	6.3		hz.	0	calm		0	0	clear	W. W. Thomas.
Fort McKavett, Texas	27.92	709.2	30.12	765.0	64	17.8	70	e.	2	0.9		5 ck	0			1.12	28.4	fair	J. E. Thatcher.
Fort Missoula, Montana	26.63	676.4	29.89	759.2	55	12.8	74	s.	2	0.9		4 c	0	n.		0	0	fair	J. H. Jones.
Fort St. Michaels, Alaska	30.01	762.2	30.04	763.0	35	1.7	100	nw.	7	3.1		0	8 s		w.	0	0	fair	A. P. Leavitt.
Fort Shaw, Montana	26.31	668.3	29.88	758.9	47	8.3	86	w.	7	3.1		3 c	0			0	0	clear	A. L. Mathews.
Fort Sill, Indian Territory	29.05	737.9	30.25	768.3	59	15.0	75	e.	3	1.3		10 cs	0			0	0	cloudy	T. Cleary.
Fort Smith, Arkansas	29.81	757.2	30.27	768.8	53.0	11.7	93	calm	0	0		10 cs	0	w.		0	0	cloudy	J. B. Campbell.
Fort Stevenson, Dakota	28.16	715.3	29.96	761.0	57	13.9	69	e.	3	1.3		0	0			0	0	clear	W. Burrows
Fort Verde, Arizona					71.1	21.7	32	se.			2	0	0			0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.56	623.8	29.94	760.5	43.5	6.4	87	sw.	3	1.3		1 k	0			0	0	clear	T. M. Ambler.
Fredericksburg, Texas	28.44	722.4	30.12	765.0	63	17.2	84	calm	0	0		4 cs	0			0	0	fair	H. S. Miles.
Galveston, Texas	30.09	764.3	30.14	765.5	72	22.2	85	ne.	19	8.5			10 n		e.	0.01	0.3	heavy rain	E. O'C. MacInerney.
Grand Haven, Michigan	29.36	745.7	30.01	762.2	55.0	12.8	74	s.	3	1.3		0	0			0	0	clear	W. A. Reid.
Hatteras, North Carolina	30.07	763.8	30.09	764.3	63	17.2	63	nw.	16	7.2		hz.	0			0	0	clear	R. M. Crawford.
Helena, Montana	25.76	654.3	29.88	758.9	57	13.9	53	sw.	4	1.8		6 k	0			0	0	fair	S. Wheaton.
Henrietta, Texas	29.31	744.5	30.29	769.4	61.0	16.1	78	ne.	3	1.3			10 s			0.04	1.0	cloudy	J. W. Byram.
Huron, Dakota	28.70	729.0	30.04	763.0	48.2	9.0	83	s.	7	3.1		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.34	745.2	30.12	765.0	60	15.6	60	sw.	2	0.9		0	hz.		calm	0	0	clear	O. Schutze
Indianola, Texas	30.07	763.8	30.10	764.5	72.4	22.4	90	ne.	25	11.2		5 ck	3 ks	ne.	ne.	0.01	0.3	cloudy	I. A. Reed.
Jacksboro, Texas	29.09	738.9	30.21	767.3	62	16.7	78	e.	6	2.7			10 s			inap.	inap.	cloudy	J. P. Sherry.
Jacksonville, Florida	30.18	766.6	30.22	767.6	69	20.6	51	n.	8	3.6			10 s			0	0	cloudy	J. W. Smith.
Keokuk, Iowa	29.53	750.0	30.17	766.3	60.5	15.8	65	sw.	4	1.8		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.11	764.8	30.13	765.3	84.0	28.9	67	e.	7	3.1		0	2 k		e.	0	0	clear	R. H. Paxton.
Kittyhawk, North Carolina	30.08	764.0	30.10	764.5	62	16.7	60	nw.	20	8.9		hz.	0			0	0	dense haze	E. A. Beals.
Knoxville, Tennessee	29.23	742.4	30.24	768.1	53.8	12.1	84	sw.	4	1.8		0	4 s		w.	0	0	fair	J. A. Cody.
La Crosse, Wisconsin	29.33	745.0	30.09	764.3	62	16.7	46	s.	4	1.8		0	0			0	0	clear	S. C. Emery.
La Mesilla, New Mexico	26.23	666.2	29.95	760.7	60.2	15.7	84	calm	0	0			10 s			0.02	0.5	cloudy	N. D. Lane.
Leavenworth, Kansas	29.38	746.2	30.25	768.3	55	12.8	69	calm	0	0		2 cs	hz.			0	0	clear	A. W. Browne.
Lewiston, Idaho	28.91	734.3	29.73	755.1	69.0	20.6	47	e.	4	1.8		2 c	0	s.		0	0	clear	W. Bell.
Little Rock, Arkansas	29.97	761.2	30.28	769.1	62	16.7	87	nw.	3	1.3		0	3 s			0	0	clear	W. U. Simmons.
Los Angeles, California	29.67	753.6	30.06	763.5	58.3	14.6	80	e.	3	1.3			10 s		calm	0	0	cloudy	E. F. Kubel.
Louisville, Kentucky	29.62	752.3	30.17	766.3	62	16.7	67	sw.	4	1.8		0	sk.			0.01	0.3	clear	H. C. Smyth.
Lynchburg, Virginia	29.42	747.3	30.09	764.3	62.0	16.7	56	sw.	4	1.8		2 c	1 k	w.	nw.	0	0	clear	W. R. Bushby.
Madison, Wisconsin	29.06	738.1	30.06	763.5	55	12.8	69	w.	7	3.1		0	0			0	0	clear	C. A. Shaw.
Marquette, Michigan	29.20	741.7	29.92	760.0	68	20.0	38	w.	8	3.6		4 k	0	w.		0	0	fair	J. Gilligan.
Memphis, Tennessee	29.95	760.7	30.28	769.1	66	18.9	68	nw.	2	0.9		3 cs	0	w.		0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.29	744.0	30.03	762.7	58	14.4	58	w.	12	5.4		5 c	0			0	0	fair	W. Line.

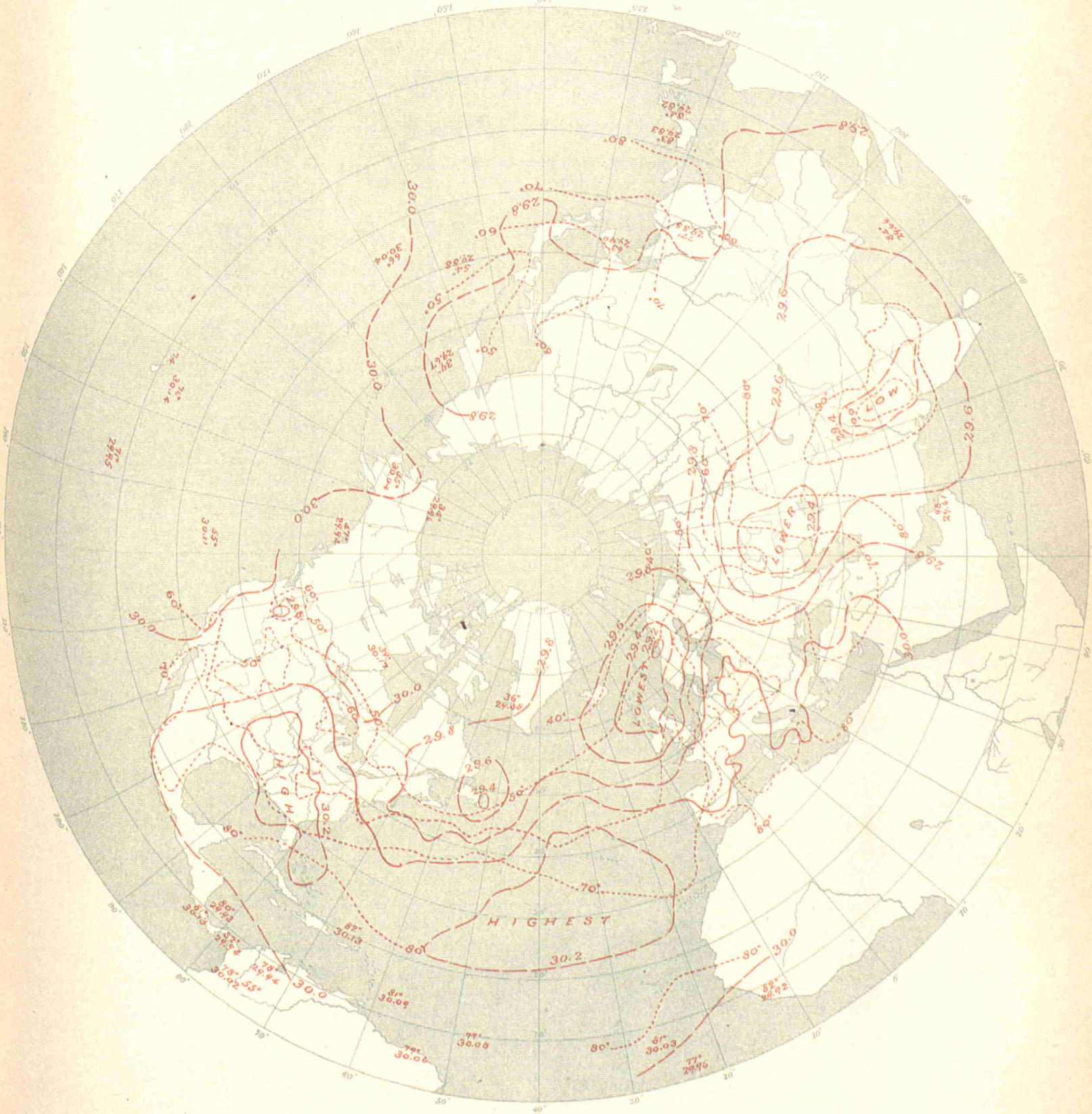
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Mobile, Alabama	30.22	767.6	30.26	768.6	69	20.6	66	ne.	4	1.8	.....	.....	10 s	.....	w.	0	0	cloudy	J. D. Paxton.
Montgomery, Alabama	30.03	762.7	30.26	768.6	63.8	17.7	70	n.	4	1.8	.....	8ck;cs	0	w.	.....	0	0	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	29.04	737.6	30.01	762.2	58	14.4	64	w.	10	4.5	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.09	738.9	30.09	764.3	58.5	14.7	74	sw.	3	1.3	.....	0	0	.....	.....	0.01	0.3	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.57	598.7	29.69	754.1	30.0	— 1.1	92	nw.	34	15.2	.....	.....	fk.	.....	nw.	0.04	1.0	dense fog	J. G. Linsley.
Nashville, Tennessee	29.72	754.9	30.24	768.1	59.0	15.0	72	w.	2	0.9	.....	0	fg.	.....	.....	inap.	inap.	clear	L. A. Jesunofsky.
New Haven, Connecticut	29.74	755.4	29.85	758.2	55.5	13.1	76	n.	6	2.7	.....	0	8 k	.....	n.	0.05	1.3	cloudy	J. H. Sherman.
New London, Connecticut	29.78	756.4	29.82	757.4	55	12.8	93	w.	8	3.6	.....	.....	10 n	.....	w.	0.05	1.3	light rain	J. G. Lynch.
New Orleans, Louisiana	30.14	765.5	30.19	766.8	72.0	22.2	68	e.	11	4.9	.....	.....	10 s	.....	e.	0	0	cloudy	L. Dunne.
Newport, Rhode Island	29.76	755.9	29.81	757.2	57.8	14.3	75	nw.	7	3.1	.....	.....	10 s	.....	nw.	inap.	inap.	cloudy	W. McGillivray.
New River, N. Carolina	.....	.....	.....	.....	61	16.1	61	nw.	.....	.....	1	0	0	.....	.....	0.15	3.8	clear	C. C. Corbin.
New Shoreham, Rhode I'd.	29.78	756.4	29.81	757.2	55.4	13.0	77	nw.	5	2.2	.....	6 ck	0	ne.	.....	0	0	fair	W. Davis.
New York, New York	29.72	754.9	29.89	759.2	57	13.9	69	w.	8	3.6	.....	3 cs	0	nw.	.....	inap.	inap.	clear	J. B. Merrill.
Norfolk, Virginia	30.06	763.5	30.08	764.0	63	17.2	63	nw.	10	4.5	.....	3 cs	0	w.	.....	0	0	clear	J. T. Elker.
North Platte, Nebraska	27.29	693.2	30.09	764.3	53.6	12.0	84	calm	0	0	.....	0	0	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y	29.91	759.7	29.95	760.7	57.0	13.9	86	s.	5	2.2	.....	.....	10 s	.....	s.	0.24	6.1	cloudy	J. Dascomb.
Omaha, Nebraska	29.08	738.6	30.22	767.6	58.0	14.4	64	calm	0	0	.....	0	0	.....	.....	0	0	clear	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	29.95	760.7	29.96	761.0	33.8	1.0	99	se.	11	4.9	.....	1 c	1 s	.....	se.	0	0	clear	P. H. Ray.
Oswego, New York	29.57	751.1	29.89	759.2	51.0	10.6	75	w.	10	4.5	.....	1 ck	0	n.	.....	0.04	1.0	clear	S. W. Beall.
Palestine, Texas	29.87	753.6	30.21	767.3	66.0	18.9	63	ne.	6	2.7	.....	3 cs	0	w.	.....	0	0	clear	L. M. Pindell.
Pensacola, Florida	30.21	767.3	30.24	768.1	68.3	20.2	63	ne.	9	4.0	.....	.....	10 s	.....	w.	0	0	cloudy	M. McGauran.
Philadelphia, Pa	29.85	758.2	29.95	760.7	60	15.6	60	nw.	9	4.0	.....	8 ck	0	nw.	.....	inap.	inap.	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.94	455.7	29.76	755.9	22	— 5.6	80	nw.	20	8.9	.....	0	0	.....	.....	0.30	7.6	clear	L. M. Dey.
Pioche, Nevada	24.08	611.6	29.88	758.9	58.6	14.8	39	s.	3	1.3	.....	7 k	0	s.	.....	0	0	fair	C. N. Kitchel.
Pittsburg, Pennsylvania	29.25	742.9	30.04	763.0	55.0	12.8	67	w.	5	2.2	.....	0	0	.....	.....	0.03	0.8	clear	J. H. Bryce.
Poplar River, Montana	27.88	708.1	.....	.....	.....	.....	.....	se.	.....	.....	1	0	0	.....	.....	0	0	clear	U. D. Maxwell.
Port Eads, Louisiana	30.20	767.1	30.20	767.1	73.1	22.8	87	e.	12	5.4	.....	.....	10 s	.....	e.	0.42	10.7	cloudy	H. G. Christian.
Port Huron, Michigan	29.33	745.0	30.00	762.0	55.4	13.0	62	w.	2	0.9	.....	3 c	0	.....	.....	0	0	clear	W. O. Bailey.
Portland, Maine	29.75	755.6	29.80	756.9	56.0	13.3	74	ne.	5	2.2	.....	4 ck	0	w.	.....	0.09	2.3	fair	W. W. Eichelberger.
Portland, Oregon	29.92	760.0	29.99	761.7	55.1	12.8	93	s.	3	1.3	.....	.....	10 n	.....	s.	0.41	10.4	heavy rain	M. L. Hearne.
Portsmouth, N. Carolina	.....	.....	.....	.....	66	18.9	68	nw.	18	8.0	.....	0	0	.....	.....	0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.86	631.4	29.88	758.9	58	14.4	39	s.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. McN. Wright.
Provincetown, Mass	29.74	755.4	29.77	756.1	54	12.2	86	nw.	7	3.1	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.14	765.5	30.16	766.1	79	26.1	74	n.	7	3.1	.....	3 c	0	w.	.....	0	0	clear	W. J. Evans.
Red Bluff, California	29.66	753.4	30.02	762.5	56.8	13.8	83	s.	4	1.8	.....	0	1 s	.....	s.	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.88	758.9	30.11	764.8	74	23.3	84	e.	4	1.8	.....	.....	8 s	.....	e.	0	0	cloudy	P. M. Wilson.
Rochester, New York	29.27	743.4	29.92	760.0	54	12.2	62	w.	9	4.0	.....	5 k	0	n.	.....	inap.	inap.	fair	E. W. McGann.
Roseburg, Oregon	29.48	748.8	30.03	762.7	55	12.8	90	nw.	2	0.9	.....	.....	10 n	.....	sw.	0.27	6.9	light rain	J. J. Nanry.
Sacramento, California	29.98	761.5	30.06	763.5	57.2	14.0	80	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.65	753.1	30.24	768.1	56.0	13.3	74	w.	13	5.8	.....	0	0	.....	.....	0	0	clear	J. H. Webber.
St. Paul, Minnesota	29.21	741.9	30.06	763.5	55.0	12.8	80	sw.	8	3.6	.....	0	hz.	.....	.....	0	0	clear	P. F. Lyons
St. Vincent, Minnesota	29.06	738.1	29.92	760.0	58	14.4	65	sw.	8	3.6	.....	2 c	0	calm	.....	0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.62	650.7	29.84	757.9	62	16.7	38	se.	3	1.3	.....	4 k	0	w.	.....	0	0	fair	J. Craig.
San Antonio, Texas	29.45	748.0	30.13	765.3	68	20.0	70	ne.	6	2.7	.....	0	5 ks	.....	ne.	0	0	fair	E. Lane.
San Diego, California	29.98	761.5	30.05	763.3	60.4	15.8	74	n.	3	1.3	.....	.....	10 s	.....	w.	0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.38	746.2	30.05	763.3	55	12.8	55	sw.	9	4.0	.....	0	0	.....	.....	0	0	clear	M. H. Perry.
Sandy Hook, New Jersey	29.86	758.4	29.90	759.4	57.0	13.9	80	w.	14	6.3	.....	3 ck	0	w.	.....	inap.	inap.	clear	B. A. Blundon.
San Francisco, California	30.00	762.0	30.07	763.8	59	15.0	84	s.	3	1.3	.....	.....	10 s	.....	sw.	inap.	inap.	cloudy	N. Gorom.
Santa Fé, New Mexico	23.40	594.3	29.90	759.4	48	8.9	86	calm	0	0	.....	0	fg.	.....	.....	0.86	21.8	light fog	H. U. Jones.
Savannah, Georgia	30.15	765.8	30.24	768.1	65	18.3	64	n.	4	1.8	.....	6 cs	0	.....	.....	0	0	fair	H. W. Ford.
Shreveport, Louisiana	30.01	762.2	30.24	768.1	64	17.8	68	n.	3	1.3	.....	2 ck	3 s	n.	.....	0	0	fair	E. N. Meekins.
Silver City, New Mexico	24.40	619.7	29.90	759.4	50	10.0	80	calm	0	0	.....	0	6 k	.....	calm	0.58	14.7	fair	J. B. Wallace.
Sitka, Alaska	29.88	758.9	29.94	760.5	46.6	8.1	93	calm	0	0	.....	.....	10 n	.....	nw.	inap.	inap.	light rain	J. J. McLean.
Smithville, North Carolina	30.13	765.3	30.17	766.3	62	16.7	56	n.	9	4.0	.....	1 cs	0	.....	.....	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.76	705.1	29.80	756.9	66	18.9	56	e.	5	2.2	.....	6 k	0	se.	.....	0	0	fair	D. Moore.
Springfield, Illinois	29.53	750.0	30.20	767.1	61.5	16.4	50	w.	7	3.1	.....	0	0	.....	.....	0	0	clear	T. B. Jennings.
Springfield, Massachusetts	29.71	754.6	29.84	757.9	57.6	14.2	74	w.	4	1.8	.....	.....	10 n	.....	w.	0.04	1.0	light rain	T. S. Outram.
Springfield, Mo	28.85	732.8	30.31	769.9	56	13.3	90	sw.	2	0.9	.....	2 cs	fg.	w.	.....	0	0	clear	J. B. Marbury.
Starkville, Miss	29.83	757.7	30.30	769.6	65	18.3	78	calm	0	0	.....	8 cs	0	.....	.....	0	0	cloudy	M. J. Wright.
Stockton, Texas	27.13	689.1	30.05	763.3	61	16.1	100	n.	4	1.8	.....	.....	10 s	.....	n.	2.02	51.3	cloudy	J. O'Dowd.
Thatcher's Island, Mass	29.76	755.9	29.81	757.2	53.0	11.7	93	n.	12	5.4	.....	7 ck	0	n.	.....	0	0	fair	G. Liebmann
Toledo, Ohio	29.35	745.5	30.03	762.7	56	13.3	57	w.	5	2.2	.....	2 c	0	.....	.....	0	0	clear	A. Buell.
Tucson, Arizona	27.59	700.8	29.89	759.2	70	21.1	55	se.	3	1.3	.....	2 c	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.50	749.3	29.86	758.4	63	17.2	86	w.	30	13.4	.....	6 ck	3 s	s.	w.	inap.	inap.	cloudy	J. Daly.
Uvalde, Texas	29.19	741.4	30.13	765.3	65	18.3	84	se.	4	1.8	.....	.....	10 s	.....	se.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	30.01	762.2	30.26	768.6	67	19.4	55	calm	0	0	.....	8 ck	0	.....	.....	0	0	cloudy	H. P. Brisbane.
Visalia, California	29.66	753.4	30.03	762.7	60	15.6	70	nw.	2	0.9	.....	6 cs	0	nw.	.....	0	0	fair	W. L. Seward.
Washington, D. C.	29.94	760.5	30.05	763.3	59.4	15.2	63	w.	8	3.6	.....	1 k	0	nw.	.....	inap.	inap.	clear	B. M. Purssell.
West Las Animas, Colorado	26.22	666.0	30.00	762.0	49	9.4	93	e.	5	2.2	.....	0	0	.....	.....	0	0	clear	F. W. Brandenburg.
Williamsport, Pa	29.37	746.0	29.97	761.2	54	12.2	66	nw.	12	5.4	.....	4 k	0	nw.	.....	inap.	inap.	fair	B. F. Hough.
Wilmington, N. Carolina	30.10	764.5	30.15	765.8	62	16.7	56	nw.	5	2.2	.....	1 cs	0	.....	.....	0	0	clear	A. T. Sherwood.
Winnemucca, Nevada	25.61	650.5	29.87	758.7	52	11.1	38	sw.	9	4.0	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Yankton, Dakota	28.88	733.5	30.16	766.1	58	14.4	70	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. H. Atfield.
Yuma, Arizona	29.73	755.1	29.87	758.7	68.2	20.1	49	se.	3	1.3	.....	9 cs	0	.....	.....	0	0	cloudy	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.06	560.3	.....	.....	55.0	12.8	77	e.	1	0.4	.....	.....	9 s	.....	w.	0.01	0.3	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.08	764.0	30.09	764.3	81	27.2	95	e.	.....	.....	.....	5 k	5 ks	e	e.	0.60	15.2	cloudy	J. A. Racker.
Buenaventura, U. S. C.	29.99	761.7	30.02	762.5	78	25.6	95	s.	4	1.8	.....	.....	10 n	.....	s.	0.85	21.6	raining	J. I. Plume.
Havana, Cuba, W. I.	30.11	764.8	30.16	766.1	82	27.8	82	e.	2.4	1.1	.....	0	1 ks	.....	.....	0	0	clear	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.10	764.5	30.11	764.8	82.7	28.2	65	n.	1	0.4	.....	0	0	.....	.....	0	0	fine	Robert Johnston.
Magua, San Domingo, W. I.	.....	.....	.....	.....	70	21.1	.....	e.	.....	.....	3	0	3 k	.....	e.	0	0	.....	S. M. Pike.
Paramaribo, S. A.	30.06	763.5	30.06	763.5	79	26.1	87	e.	.....	.....	3	5 k	8 ps	e.	e.	1.670	42.4	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.48	748.8	29.94	760.5	78	25.6	89	calm	.....	.....	0	.....	10 s	.....	calm	0	0	foggy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	97	ne.	.....	.....	2	2 ck	8 ks	se.	ne.	0	0	cloudy	Earl Flint.
Santiago de Cuba, W. I.	30.08	764.0	30.11	764.8	80	26.7	78	calm	0	0	.....	0	0	.....	.....	0	0	clear	Robert Mason.
York Factory, B. A.	30.11	764.8	30.17	766.3	39.0	3.9	95	ne.	10	4.5	.....	.....	10 s	.....	ne.	0	0	cloudy	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
British Naval.																		
H. M. S. Alert, S. 30° 22′ E. 31° 35′	30.18	766.6	75	23.9	56	sw.			1		0							blue sky.
H. M. S. Alexandra, Suda Bay, Turkey in Europe	30.12	765.0	73	22.8	67	ene.			2		2							d. clouds.
H. M. S. Amethyst, S. 19° 53′, W. 37° 39′	30.11	764.8	78.5	25.8	84	nne.			3–4		5	ssw.				2	ene.	d. clouds.
H. M. S. Bacchante, Corfu, Ionian Island	29.99	761.7	70	21.1	75	se.			2–3		9	ese.						d. clouds.
H. M. S. Boadica, Simon's Bay, Cape Colony	30.05	763.3	61	16.1		nw.			2–3		3	nw.						raining.
H. M. S. Champion, Honolulu, Sandwich Islands			74	23.3		calm			0		9	calm						d. clouds.
H. M. S. Cleopatra, N. 22° 55′, E. 117° 22′	29.83	757.7	77.5	25.3	100	ene.			2–3		9							d. clouds.
H. M. S. Coquette, Port Said, Egypt	30.08	764.0	72	22.2		nne.			2		0							blue sky.
H. M. S. Cruiser, Corfu, Ionian Island	29.95	760.7	74	23.3		ese.			3		4	ese.				2	ese.	d. clouds.
H. M. S. Diamond, S 22° 17′, E. 166° 27′	29.94	760.5	69.5	20.8	75	s.			1–2		1	s.						blue sky.
H. M. S. Dido, N. 10° 39′, W. 61° 30′						ene.			1									showery.
H. M. Dock-Yard, Bermuda, W. I.	30.01	762.2	74	23.3	95	wsw.			1–2		6	wsw.						d. clouds.
H. M. S. Druid, N. 18° 25′, W. 77° 09′	30.12	765.0	78.5	25.8	86	calm			0		8	e.				2	ese.	d. clouds.
H. M. S. Dwarf, S. 25° 16′, W. 57° 45′	29.52	749.8	66.5	19.2	100	calm			0		10							raining.
H. M. S. Eclipse, S. 11° 52′, E. 44° 38′	30.01	762.2	81	27.2		se.			4		7					2	ese.	d. clouds.
H. M. S. Emerald, S. 55° 55′, W. 82° 25′	29.72	754.9	42	5.6	100	wnw.			3							3	nnw.	drizzling.
H. M. S. Euryalus, Bombay, India	29.56	750.8	84	28.9	91	w.			1		5	calm						d. clouds.
H. M. S. Espiegle, S. 21° 42′ E. 177° 51′	29.89	759.2	73	22.8	81	nne.			2		9					2	nne.	showery.
H. M. S. Fantome, N. 10° 40′, W. 82° 13′	29.93	760.2	80	26.7		var.			1–2		10	se.				2	se.	raining.
H. M. S. Flying Fish, N. 37° 27′, E. 126° 33′	29.90	759.4	63	17.2	87	w.			1		6							misty.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.16	766.1	52.5	11.4	93	calm			0		10							foggy.
H. M. S. Garnet, Montevideo, Uruguay	29.75	755.6	48	8.9	92	var.			1		10							raining.
H. M. S. Inconstant, S. 7° 20′, W. 8° 10′	30.06	763.5	77	25.0	90	ese.			4		7	ese.				4	ese.	d. clouds.
H. M. S. Iron Duke, N. 34° 41′ E. 135° 12′	29.81	757.2	65	18.3	94	nw.			1		0							blue sky.
H. M. S. Kingfisher, Off Perin Island, Panama Bay	29.94	760.5	82	27.8		calm			0		8							d. clouds.
H. M. S. Lark, S. 10° 10′, E. 161° 11′	29.86	758.4	82.3	27.9		ese.			2		3					1	e.	d. clouds.
H. M. S. Magpie, N. 34° 56′, E. 139° 52′	29.72	754.9	64.5	18.1	89	calm			0		6	nnw.				1	nw.	misty.
H. M. S. Minotaur, N. 37° 52′, W. 9° 32′	30.10	764.5	65.5	18.6	78	nw.			2		1					1	nw.	blue sky.
H. M. S. Nelson, S. 41° 17′, E. 174° 48′	30.13	765.3	51	10.6	86	se.			2–5		7							showery.
H. M. S. Northampton, Halifax, Nova Scotia	29.66	753.4	49.5	9.7	81	calm			0		9	nw.						d. clouds.
H. M. S. Orontes, N. 47° 12′, W. 15° 30′	29.84	757.9	56.5	13.6	89	wnw			6		5	wnw.				5	wnw.	squally.
H. M. S. Rambler, Kabenda, Lower Guinea	29.98	761.5	75	23.9	95	ssw.			2		6					3	sw.	d. clouds.
H. M. S. Rocket, Esquimalt, Vancouver Island	29.85	758.2	59	15.0	94	wsw.			4		3							squally.
H. M. S. Sappho, S. 25° 41′, W. 87° 45′	30.34	770.6	66.5	19.2		e.			4		8	ese.				3	e.	d. clouds.
H. M. S. Swiftsure, N. 25° 30′, W. 20° 55′	30.21	767.3	70.5	21.4	71	nne.			4		6	nne.				3	nne.	d. clouds.
H. M. S. Sylvia, S. 12° 30′, W. 32° 33′	30.11	764.8	80.5	26.9	74	e.			3–4		4					3	ese.	d. clouds.
H. M. S. Tenedos, N. 47° 34′ W. 52° 41′	29.37	746.0	48.5	9.2	85	sw.			3–6		9							squally.
H. M. S. Triumph, Coquimbo, Chili	30.08	764.0	51	10.6	93	calm			0		fg.	calm						foggy.
H. M. S. Woodlark, Muscat, Arabia	29.51	749.5	97.5	36.4	59	nw.			1–2		0					3	nw.	blue sky.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verd Islands	30.04	763.1	79.5	26.4	77	ne.			1		4					1		d. clouds.
Tamega, Macao, China	29.78	756.4	84.2	29.0	85	sse.			3		8			1 h'r	1 h'r			overcast.
Swedish Naval.																		
Sago, N. 50° 29′, W. 1° 21′	29.71	754.6	55.4	13.0	98	sw.			2		10							raining.
United States Naval.																		
Navy Yard, Pensacola, Fla.	30.17	766.3	71	21.7	71	ne.	10	4.5			10			0	0			cloudy.
N. Yard, Portsmouth, N. H.	29.80	756.9	58	14.4	70	ne.	16	7.2			5		ne.	0	0			fair.
Naval Hospital, Yokohama, Japan*	29.58	751.3	64	17.8	83	calm			0		5		w.	0	0			fair.
Adams, Mare Island, Cal.	30.07	763.8	60	15.6	100	calm			0		10			sli't	sli't			cloudy.
Alaska, Callao, Peru	29.99	761.7	58	14.4	94	n.			1		5			0	0	sm'h		fair.
Alert, Kobe, Japan*	29.75	755.6	67	19.4	55	calm			0		0			0	0	sm'h		clear.
Alliance, Hampton Roads, Va.	30.08	764.0	61	16.1	77	wnw.			3		5			0	0	sm'h		fair.
Ashuelot, Kobe, Japan	29.83	757.7	65	18.3	58	se.			1		2		calm					clear.
Brooklyn, Rio de Janeiro, Brazil	29.99	761.7	75	23.9	95	nw.	2	0.9			8		calm	0	0	sm'h		fair.
Colorado, New York, N. Y.	29.87	758.7	59	15.0	65	wnw.	11	4.9			6		wnw.	0	0			light haze.
Enterprise, Norfolk, Va*	30.07	763.8	60	15.6	71	w.			3		5?		nw.					clear ?
Essex, Montevideo, Uruguay	30.03	762.7	51	10.6	86	nnw.			1		10		nw.			sm'h		overcast.
Franklin, Norfolk, Va.	30.08	764.0	60	15.6	71	w.	9	4.0			0			0	0			clear.
Galena, N. 35° 17′, E. 17° 36′	30.09	764.3	75	23.9	95	ssw.			3		0					sm'h		clear.
Independence, Mare Island, Cal.	30.09	764.3	60	15.6	100	sw.			2		8		sw.	0.01	0.3			clearing.
Iroquois, San Francisco, Cal*†	29.98	761.5	63	17.2	78	calm			0		8							cloudy.
Kearsarge, Hampton Roads, Va.	30.07	763.8	61	16.1	82	wnw.			4		8					sm'h		fair.
Lackawana, S. 0° 28′, W. 81° 04′*	29.95	760.7	73	22.8	90	ssw.			2		10		ssw.			mod.	sw.	cloudy.
Lancaster, N. 38° 10′, W. 9° 20′*	30.05	763.3	67	19.4	89	nnw.			3		2		calm			sm'h		fair.
Marion, S. 34° 54′, W. 56° 13′	29.70	754.4	48	8.9	100	n.			2		10		w.	mod.	mod.	sm'h		cloudy.
Michigan, Erie, Pa.	29.98	761.5	56	13.3	100	ssw.			1		0							clear.
Minnesota, Newport, R. I.	29.84	757.9	59	15.0	76	nnw.	4	1.8			10							cloudy.
Monocacy, Nagasaki, Japan	29.93	760.2	68	20.0	95	ese.			1		2		calm					fair.
New Hampshire, Newport, R. I.	29.81	757.2	57	13.9	87	nw.			2		10					sm'h		light rain.
Nipsic, Messima, Sicily	30.02	762.5	76	24.4	73	nne.			3		8		nne.			sm'h		cloudy.
Onward, Callao, Peru†	30.11	764.8	60	15.6	88	n.			2		10		s.			long	w.	cloudy.
Palos, Kobe, Japan	29.89	759.2	64	17.8	58	calm			0		0							clear.
Passaic, Washington, D. C.	30.06	763.5	60	15.6	94	w.			3		0							clear.
Pensacola, Callao, Peru	30.03	762.7	60	15.6	94	nnw.	8	3.6			10			0	0	sm'h		cloudy.
Powhatan, Norfolk, Va.	30.08	764.0	61	16.1	71	w.			2		0							clear.
Portsmouth, Portsmouth, Eng*†	29.96	761.0	57	13.9	100	sw.			2		10		sw.			sm'h		rainy.
Quinnebaug, N. 30° 21′, W. 15° 48′	30.16	766.1	68	20.0	70	n.			4		2		ne.			sm'h		fair.
Ranger, N. 33° 19′, W. 117° 50′*	30.01	762.2	62	16.7	83	wnw.			2		10		calm	0	0	sm'h		cloudy.
Richmond, Kobe, Japan*	29.82	757.4	67	19.4	55	calm			0		0			0	0			clear.
Saratoga, Cowes, Eng.	29.73	755.1	59	15.0	94	sw.			1–2		10		sw.	h'vy	h'vy	sm'h	sw.	overcast.
St. Louis, League Island, Pa.	30.16	766.1	61	16.1	61	wnw.	4	1.8			2			0	0			clear.
Swatara, Nagasaki, Japan	29.78	756.4	70	21.1	75	calm			0		5		calm			sm'h		fair.
Tennessee, Fort Monroe, Va.	30.09	764.3	62	16.7	83	wnw.	18	8.0			5		w.	sh's	sh's			fair.
Vandalia, Norfolk, Va*†	30.29	769.4	60	15.6	71	wnw.			2		5		nw.					fair.
Wabash, Boston, Mass.	29.80	756.9	59	15.0	88	nnw.	3	1.3			8		nw.	0.05	1.3			cloudy.
Wachusetts, Fort Wrangle, Alaska	29.82	757.4	45	7.2	92	e.			1		0					sm'h		clear.
Wyoming, Port Royal, S. C.	30.25	768.3	65	18.3	53	n.	10	4.5			8		w.	0	0			cloudy.
Yantic, Hampton Roads, Va*	30.05	763.3	61	16.1	82	w.			3–4		8							cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 54° 33′, W. 5° 13′*	29.38	746.2	53	11.7	93	ssw.			6		8		sw.	1 h'r	1 h'r	3	ssw.	raining.
S. S. Nova Scotian, N. 46° 46′, W. 54° 00′	29.47	748.5	39	3.9		wsw.			5		10		w.			mod.	wsw.	misty.
S. S. Prussian, N. 45° 06′, W. 59° 07′*	29.61	752.1	44	6.7		wsw.			2		3		w.	0	0	mod.	sw.	clear.
S. S. Scandinavian, N. 42° 39′, W. 61° 45′*	29.68	753.9	47	8.3		sw.			2		3		calm	0	0	mod.	sw.	d. clouds.
S. S. Waldensian, Glasgow, Scotland*	29.58	751.3				var.			4		5		ese.	0	0			fine.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, Liverpool, Eng.	29.52	749.8	59	15.0	94	ssw.			7		2		sw.					clear.
S. S. Indiana, N. 39° 30′, W. 61° 53′†	29.89	759.2	65	18.3	89	n.			3		8		n.			sm'h	ne.	fair.
ANCHOR LINE.																		
S. S. Bolivia, N. 40° 47′, W. 56° 42′†	29.73	755.1	62	16.7		e.			6		10		ene.	5 h'r	5 h'r	mod.	e.	cloudy.
S. S. Devonia, N. 40° 35′, W. 69° 00′†	29.73	755.1	50	10.0		wsw.			1		8		wsw.			short	wsw.	cloudy.
S. S. Ethiopia, N. 51° 45′ W. 26° 43′	29.76	755.9	51	10.6	86	nw.			6		8		nw.	4 h'r	4 h'r	h'vy	nw.	cloudy.
S. S. India, N. 34° 00′, E. 28° 01′*	30.13	765.3	74	23.3	90	w.			1		1					sm'h		clear.
S. S. Utopia, N. 39° 59′ E. 13° 57′†	30.26	768.6	81	27.2	58	nw.			2		4		nw.	0	0	sm'h	nw.	fair.
ATLAS LINE.																		
S. S. Ailsa, N. 10° 26′, W. 75° 37′†	29.97	761.2	84	28.9	91	e.			2		2		e.	0	0	sm'h	e.	fair.
S. S. Alvena, Kingston, Jamaica, W. I†	29.99	761.7	78	25.6	69	calm			0		0			0	0			fine.
S. S. Alvo, N. 11° 00′, W. 75° 02′	30.00	762.0	107?	41.7?					2		1		w.	0	0			clear
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S 39° 11′, E. 44° 02′	29.66	753.4	58.3	14.6	81	wsw.			7		6							showery.
S. Baroda, N. 11° 06′ E. 91° 37′	29.66	753.4	83.5	28.6	83	sw.			5		10							d. clouds.
British Merchant, N. 1° 07′, W. 24° 02′	30.06	763.5	76.7	24.8	77	se.			3		4							d. clouds.
S. S. Cipero, N. 34° 49′, W. 37° 07′	30.38	771.6	71	21.7	71	s.			1		8							d. clouds.
Bk. Commewyne, N. 9° 49′, W. 49° 34′	30.08	764.0	77	25.0	88	ese.			4		10							showery.
S. S. Glencairn, S. 25° 52′, E. 9° 04′	30.26	768.6	65	18.3	84	sw.			4–5		7							d. clouds.
S. S. Gordon Castle, N. 11° 13′, E. 111° 53′	29.72	754.9	82.5	28.1	89	sse.			5		10							raining.
Bkt. Hope, N. 47° 55′ W. 14° 10′	29.76	755.9	56.2	13.4	81	wnw.			6		3							d. clouds.
S. S. May Hulse, S. 52° 07′, W. 83° 32′	30.04	763.0	43.7	6.5	96	w.			5		10							drizzling.
CUNARD LINE.																		
S. S. Bothnia, N. 47° 32′, W. 32° 35′	30.11	764.8	59	15.0	76	w.			5		10			0	0		nw.	cloudy.
S. S. Marathon, N. 41° 57′, W. 54° 06′	29.81	757.2	58	14.4		w.			1		5?		w.	0	0	r'gh	sw.	cloudy.?
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. France, N. 40° 40′, W. 69° 48′†	29.75	755.7	51.8	11.0		w.			3	ck		wsw.		0	0	sm'h	sw.	cloudy.
S. S. Ville de Marseilles, N. 41° 17′, W. 48° 55′*†	29.85	758.2	64	17.8		wsw.			6		10		w.	sh'rs	sh'rs	long	sw.	cloudy.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 50° 18′, W. 2° 23′*†	29.85	758.2				w.			5		5		nw.	1 h'r	1 h'r	cross	sw.	fine.
S. S. Cimbria, N. 41° 29′ W. 56° 31′	29.81	757.2	65	18.3		ne.			3		7			0	0	mod.	sw.	fair.
S. S. Herder, N. 40° 22′, W. 43° 33′*†	30.01	762.2	78	25.6		ssw.			3		3		sw.	1 h'r	1 h'r	sm'h	sw.	fair.
S. S. Lessing, N. 51° 49′, E. 2° 38′	29.77	756.1	58	14.4		ssw.			6		10		sw.	rain	rain	sm'h	sw.	misty.
S. S. Wieland, N. 48° 53′, W. 20° 10′	29.86	758.4	56.5	13.6		w.			6		8		w.	4 h'r	4 h'r	5	w.	stormy.
INMAN LINE.																		
S. S. City of Berlin, N. 46° —′, W. 37° —′	30.15	765.8				sw.			4		8		wsw.	0	0	mod.	sw.	cloudy.
JOHNSTON LINE.																		
S. S. Thanemore, N. 48° 56′ W. 18° 50′	29.77	756.1				w.			6		8		w.			mod.	w.	fair.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, N. 42° 00′ W 9° 40′*†	30.19	766.8	68	20.0		wnw.			2		9			2 h'r	2 h'r	long	nw.	drizzling.
MALLORY LINE.																		
S. S. Colorado, N 37° 42′, W. 74° 45′†	29.98	761.5	61	16.1		wnw.			5		0			0	0	small	nw.	clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, Off Boston Light, Mass†	29.76	755.9	53	11.7	93	nw.			3		0			0	0	sm'h		clear.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, N. 6° 55′, W. 47° 46′	29.59	751.6				e.			6				e.	4 h'r	4 h'r	mod.	e.	cloudy.
S. S. Glenapp, Santos River, Brazil*†	30.00	762.0				se.			2		9		var.	2 h'r	2 h'r			showery.
NATIONAL LINE.																		
S. S. Denmark, New York, N. Y.	29.88	758.9	58	14.4		w.			3		2		nw.	0	0			clear.
S. S. England, Staten Island, N. Y.	29.83	757.7				nw.			0		2		nw.	0	0			clear.
S. S. Holland, N. 42° 09′ W. 47° 28′	29.92	760.0	64	17.8		ssw.			5		8		sw.	0	0	mod.	ssw.	cloudy.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, St. Jago, Cuba, W. I.†	30.12	765.0	83	28.3		ene.			1		1			0	0			fine.
S. S. Saratoga, Havana, Cuba, W. I.†	30.34	770.6	79	26.1	90	ne.			3		0			0	0			
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, Havana, Cuba, W. I.*†	30.22	767.6	80	26.7	91	se.			2		3		calm	0	0			clear.
S. S. City of Puebla, N. 36° 15′, W. 74° 22′†	29.99	761.7	60	15.6		nw.			4		1		nw.			mod.	nw.	fair.
S. S. City of Washington, Vera Cruz, Mexico*†	30.08	764.0	83	28.3		se.			1		hz.			0	0	sm'h		hazy.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Maas, N. 42° 25′ W. 44° 36′*†	30.05	763.3	62	16.7		sw.											sw.	
NORTH GERMAN LLOYD																		
S. S. Elbe, Bremerhaven, Germany	29.96	760.9	57.2	14.0	90	sw.			4		5?		sw.	0	0			cloudy ?
S. S. Graf Bismarck, N. 26° 08′, W 17° 55′	30.19	766.8	75.2	24.0		ne.			4		5		ne.			r'gh	nne.	fair.
S. S. Hohenzollern, N. 50° 02′, W. 4° 33′*	29.70	754.4	60	15.6		sw.			4		5		sw.	0	0	3	wsw.	fair.
S. S. Oder, N. 46° 05′, W. 34° 07′	30.23	767.8	59.0	15.0		sw.			4		7		w.	0	0	mod.	nnw.	cloudy.
S. S. Ohio, N. 40° 01′ W. 50° 05′	29.90	761.0				ssw.			6		10		sw.	0	0	mod.	ssw.	cloudy.
S. S. Rhein, N. 50° 10′, W. 3° 40′	29.71	754.6				sw.			4		7		sw.	0	0	mod.	sw.	fair.
S. S. Saller, Bremerhaven, Germany	29.93	760.2	58.1	14.5		wsw.			6		5?		wsw.	0	0			cloudy.?
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 35° 45′ E. 165° 17′*†	30.04	763.0	66	18.9	94	sw.			2		8		w.	sh'rs	sh'rs	sm'h		d. clouds.
S. S. Belgic, N. 30° 29′, E. 131° 40′†	30.03	762.7	74	23.3	68	ene.			2		2		ne.	0	0	light	n.	clear.
S. S. Gaelic, Hong Kong, China†	29.72	754.9	84	28.9	83	s.			2		3?		sw.					cloudy.?
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga.†	30.22	767.6				nw.			1		4		w.	0	0			clear.
S. S. City of Columbus, Savannah, Ga.†	30.13	765.3				n.			2		2		n.	0	0			clear.
S. S. Seminole, Vineyard Sound, Mass†	29.77	756.1	57	13.9	58	wnw.			1		8		nw.	0	0	sm'h		cloudy.
OREGON IMPROVEMENT COMPANY.																		
S. S. Willametta, Seattle, Wash. Ter.†	29.99	761.7	62	16.7	83	s.			2		5		s.	0.05	1.3			foggy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Columbia, Columbia River, Oregon†	29.99	761.7	56	13.3	97	s.			4		10		ssw.			sm'h	ssw.	rainy.
S. S. Oregon, Portland, Oregon†	29.97	761.2	57	13.9	87	sw.			2		10							raining.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 35° 24′ W. 121° 04′†	30.03	762.7	55	12.8	93	se.			1		2		sw.			sm'h		fair.
S. S. Dakota, Olympia, Wash. Ter.*†	30.00	762.0	57	13.9	81	calm			0		5?		w.			sm'h		clear ?
S. S. Idaho, Portland, Oregon†	30.16	766.1	55	12.8	87	ne.			1		0?					sm'h		cloudy.?
S. S. State of California, San Francisco, Cal.†	30.07	763.8	55	12.8	93	sw.			2		10		sw.					cloudy.
S. S. Victoria, San Francisco, Cal.†	29.90	759.5	59	15.0	100	calm			0		8							hazy.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, N. 34° 39′, W. 130° 36′	30.11	764.8	55	12.8	68	nnw.			3		10			0	0	long	nw.	misty.
S. S. City of New York, N. 23° —′, W. 154° 20′†	30.14	765.5	76	24.4	95	e.			4		1		e.	0	0	mod.	e.	clear.
S. S. City of Pekin, Yokahama, Japan†	29.72	754.9	67	19.4	79	s.			1		10		s.	0	0	sm'h		cloudy.
S. S. City of Rio de Janeiro, N. 8° 10′, W. 83° 20′*†	30.13	765.3	81	27.2	85	sw.			3		6		sw.	0	0	long	sw.	clearing.
S. S. City of Sydney, Sydney, N. S. W.†	30.17	766.3	60	15.6	76	sw.			4		8		w.	¼ h'r	¼ h'r	sm'h		light rain.
S. S. City of Tokio, N. 40° 23′, E. 154° 52′†	29.88	758.9	54	12.2	87	se.			7		10		se.	24 h'r	24 h'r	mod.	se.	raining.
S. S. Clyde N. 14° 48′, W. 92° 30′†	29.99	761.7	80	26.7	82	ne.			1		5		ne.	4 h'r	4 h'r	light	ssw.	clear.
S. S. Colima, N. 15° 56′, W. 98° 33′†	29.98	761.5	81	27.2	74	s.			2		10		se.	2.85	72.4	small	se.	raining.
S. S. Colon, N. 15° 17′, W. 75° 57′†	30.07	763.8	82	27.8		une.			5		6		ene.	0	0	mod.	ene.	fair.
S. S. Grenada, N. 30° 52′, W. 118° 56′†	30.07	763.8	61	16.1	88	n.			3		10		n.	0	0	light	nnw.	cloudy.
S. S. Zelandia, Sydney, N. S. W.	30.19	766.8	53	11.7	80	sw.			1		0					sm'h		clear.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
Quebec S. S. Company.																		
S. S. Muriel, Antiqua, W. I.	29.97	761.2	84	28.9	.....	ene.	.....	.....	3	.....	5	.....	.....	0	0	sm'h	.....	fair.
S. S. Bermuda, St. John's, Antiqua, W. I†	30.17	766.3	81	27.2	.....	ene.	.....	.....	.....	.....	5	.....	.....	rain	rain	h'vy	ne.	cloudy.
Red Star Line.																		
S. S. Nederland, N. 47° 42′, W. 17° 59′†	29.96	761.0	59	15.0	.....	w.	.....	.....	5	.....	8	.....	w.	1 h'r	1 h'r	mod.	w.	cloudy.
S. S. Rhynland, Jersey City, N. J.	29.85	758.2	60	15.6	76	nw.	.....	.....	2	.....	2	.....	nw.	0	0	.....	.....	clear.
S. S. Vaderland, N. 49° 15′, W. 11° 30′	29.60	751.8	59	15.0	76	wsw.	.....	.....	6	.....	5	.....	w.	0	0	r'gh	wsw.	clear.
Rotterdam Line.																		
S. S. W. A. Scholten, New York, N. Y.	29.73	755.1	69.1	20.6	89	nw.	.....	.....	3	.....	6	.....	nw.	0	0	.....	.....	
State Line.																		
S. S. State of Florida, Glasgow, Scotland	29.29	744.0	64	17.8	.....	ssw.	.....	.....	4	.....	3	.....	ssw.	0	0	.....	.....	clear.
S. S. State of Georgia, N. 41° 31′, W. 45° 35′†	30.11	764.8	64	17.8	.....	ssw.	.....	.....	5	.....	5	.....	sw.	.....	.....	sm'h	.....	fine.
Thingvalla Line.																		
S. S. Thingvalla, N. 56° 13′, W. 21° 57′†	29.76	755.9	63.2	17.3	26	nw.	.....	.....	3	.....	4	.....	nw.	0	0	mod.	wnw.	clear.
White Cross Line.																		
S. S. Plantyn, N. 40° 18′ W. 60° 34′	29.77	756.1	.....	.....	.....	.....	.....	.....	.....	.....	6	.....	nw.	9 h'r	9 h'r	4	wsw.	
White Star Line.																		
S. S. Adriatic, N. 41° 42′, W. 53° 16′†	29.92	760.0	52	11.1	93	nw.	.....	.....	4	.....	10	.....	wsw.	h'vy	hv'y	mod.	wsw.	foggy
S. S. Baltic, N. 40° 58′ W. 51° 15′†	29.94	760.5	65	18.3	89	sw.	.....	.....	4	.....	10	.....	sw.	14 h'r	14 h'r	mod.	sw.	raining.
S. S. Celtic, N. 41° 28′ W. 55° 40′†	29.86	758.4	59	15.0	88	nne.	.....	.....	2	.....	5	.....	n.	0	0	sm'h	.....	fair.
Wilson Line.																		
S. S. Romano, N. 48° 39′ W. 17° 45′	29.65	753.1	56	13.3	.....	wsw.	.....	.....	.....	.....	5?	.....	.....	sh'rs	shr's	mod.	w.	clear.?
Miscellaneous.																		
Bg. Abbie Clifford, Orchilla Id., Carribbean Sea*†	30.10	764.5	81	27.2	.....	ese.	.....	.....	4	.....	2	.....	ese.	0	0	mod.	.....	fine.
Schr. Addie Fuller, Newport News, Va†	30.15	765.8	59	15.0	67	wnw.	.....	.....	3	6 ck	0	.....	.....	0	0	.....	.....	fair.
Bk. Adelaide, N. 30° 16′, W. 69° 51′*†	30.17	766.3	77	25.0	.....	nw.	.....	.....	4	.....	8	.....	sw.	40 mi	nutes	light	nw.	cloudy.
Schr. Ajax, Blackwater, Fla†	30.30	769.6	.....	.....	.....	calm	.....	.....	0	.....	10	.....	se.	0	0	.....	.....	clearing.
Bk. Alpha, Guantanamo, Cuba, W. I†	30.06	763.5	82	27.8	.....	n.	.....	.....	1	.....	1	.....	ne.	0	0	.....	.....	fair.
Schr. Annie Lewis, Mobile, Ala†	30.33	770.4	70	21.1	.....	n.	.....	.....	1	.....	8	.....	n.	2 h'r	2 h'r	.....	.....	cloudy.
Bk. Anna Thormann, S. 5° 39′, W. 32° 59′	30.09	764.3	81.0	27.2	75	ese.	.....	.....	6	.....	1 k	.....	se.	8 h'r	8 h'r	r'gh	se.	fine.
S. S. Antonio Lopez, Santander, Spain	29.93	760.2	65.5	18.6	83	ne.	.....	.....	1	2 c	.....	.....	.....	0	0	.....	.....	clear.
Bk. Aureola. Rio de Janeiro, Brazil*†	30.15	765.8	85	29.4	.....	ne.	.....	.....	1	.....	8	.....	nw.	0	0	.....	.....	hazy.
S. Annie M. Smull, N. 13° 07′ E. 103° 57′*†	29.90	759.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	.....	.....	clear.
Bk. Bergenseren, N. 40° 45′, W. 37° 00′†	30.30	769.5	60	15.6	.....	ssw.	.....	.....	3	.....	.....	.....	sw.	0	0	3	nnw.	clear.
Bk. Bremen, N. 47° 22′. W. 18° 10′	.....	.....	.....	.....	.....	wnw.	.....	.....	6	.....	2	.....	wnw.	shr's	sh'rs	rg'h	nw.	squally.
Schr. C. R. Flint, N. 23° 32′, W. 94° 57′†	30.23	767.8	82	27.8	.....	ene.	.....	.....	3	.....	10	.....	e.	driz	driz	long	e.	cloudy.
Schr. Edith R. Seward, Baltimore, Md*†	30.08	764.0	62	16.7	.....	wnw.	.....	.....	4	.....	2	.....	.....	0	0	.....	.....	clear.
S. E. J. Spicer, N. 48° 36′. W. 20° 10′†	29.92	760.0	.....	.....	.....	nnw.	.....	.....	6	.....	7	.....	nnw.	sq'ls	sq'ls	high	nw.	
Bk. Essex, N. 17° 36′ W. 34° 59′*†	30.16	766.1	77	25.0	.....	e.	.....	.....	5	.....	5?	.....	e.	0	0	long	e.	cloudy?
Bk. Freya, N. 48° 03′, W. 22° 40′	.....	.....	55	12.8	.....	wnw.	.....	.....	7	.....	8	.....	w.	2 h'r	2 h'r	high	w.	squally.
Bk. Godfrey, N. 49° 14′, W. 15° 28′	29.68	753.9	55.4	13.0	79	w.	.....	.....	6	.....	5	.....	w.	sq'lls	sq'lls	long	wsw.	squally.
S. Grecian, N. 7° 40′, E. 108° 50′*†	29.81	757.2	83	28.3	.....	nnw.	.....	.....	2	.....	9?	.....	nw.	0	0	sm'h	.....	clear.?
Bk. Hattie G. McFarland, Cowbay, Cape Breton*†	29.60	751.8	40	4.4	.....	nw.	.....	.....	3	.....	5?	.....	n.	3 h'r	3 h'r	long	se.	clear.?
S. Hedwig, N. 38° 55′, W. 65° 37′	29.87	758.6	66.7	19.3	75	w.	.....	.....	4	.....	7	.....	w.	0	0	long	s.	fair.
Bk. Horace Scudder, N. 37° 35′, W. 74° 34′†	29.93	760.2	59	15.0	.....	w.	.....	.....	1	.....	0	.....	.....	0	0	light	sw.	clear.
S. Ismir, S. 13° 25′, W. 35° 54′†	30.12	765.0	.....	.....	.....	se.	.....	.....	3	.....	5	.....	se.	.....	.....	r'gh	se.	squally.
Schr. James Slater, N. 24° 57′, W. 46° 44′*†	30.55	776.0	80	26.7	.....	ese.	.....	.....	3	.....	2	.....	se.	0	0	mod.	se.	
Schr. Jennie N. Huddle, New York. N. Y.†	30.05	763.3	61	16.1	77	nw.	.....	.....	3	.....	2	.....	nw.	0	0	.....	.....	fair.
Schr. John L. Thomas, St. Andrew Id, W. I*†	30.02	762.5	.....	.....	.....	ne.	.....	.....	6	.....	5	.....	e.	1 h'r	1 h'r	.....	.....	clearing.
Bkt. Josephine, N. 20° 09′ W. 73° 38′†	30.27	768.8	84	28.9	79	ene.	.....	.....	5	.....	2	.....	ene	0	0	long	ene.	fair.
Bk. Julia H., Havana, Cuba, W. I.	30.14	765.5	79.0	26.1	86	ene.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	misty.
S. S. Laurel, Off Key West, Florida†	30.20	767.1	85	29.4	.....	e.	.....	.....	2	.....	7	.....	e.	0	0	sm'h	s.	cloudy.
S. Minnie N. Gerow, N 40° 21′, W. 42° 42′*†	30.18	766.6	.....	.....	.....	ssw.	.....	.....	4	.....	3	.....	wsw.	.....	.....	sm'h	wsw.	fine.
S. M. P. Grace, N. 31° 47′, W. 45° 45′*	30.26	768.6	76	24.4	.....	sse.	.....	.....	2	.....	.....	.....	sse.	0	0	sm'h	se.	
S. S. Nebo, st John, N. S.*†	30.15	765.8	.....	.....	.....	s.	.....	.....	4	.....	2	.....	nw.	5 h'r	5 h'r	.....	.....	clear.
S. Paramita, S. 44° 26′ W. 49° —†...	29.82	757.4	48	8.9	...	wsw.	.....	.....	4	.....	3	.....	wsw.	1 h'r	1 h'r	cross	sw.	clear.
Bk. Pawashick, N. 46° 31′, W. 11° 25′*†	30.00	762.0	64	17.8	89	wsw.	.....	.....	4	.....	5?	.....	w.	.....	.....	mod	w.	cloudy.?
Bk. Peppina, N. 45° 31′, W. 1° 25′†	29.95	760.7	70	21.1	71	sw.	.....	.....	2	.....	1	.....	se.	0	0	long	nw.	clear.
S. S. Ponca, Pernambuco, Brazil†	30.03	762.7	86	30.0	.....	se.	.....	.....	1	.....	2	.....	ssw.	0	0	mod.	se.	clear.
Bg. Potomac, N. 33° 20′, W. 61° 50′*†	30.00	762.0	.....	.....	.....	wsw.	.....	.....	7	.....	.....	.....	w.	0	0	hv'y	.....	squally.
Bk. Princessen, N. 54° 22′, E. 3° 43′†	29.69	754.1	60	15.6	.....	ssw.	.....	.....	6	.....	10	.....	.....	3 h'r	3 h'r	mod	.....	drizzling.
Bk. Rosebud, S. 4° 00′ W. 28° 10′*†	30.60	777.2	80	26.7	78	se.	.....	.....	5	.....	.....	.....	se.	sh'rs	sh'rs	short	se.	clear.
S. Salisbury, S. 40° 05′, E. 56° 00′*.	29.50	749.4	57.2	14.2	92	ese.	.....	.....	6	.....	10	.....	e.	4 h'r	4 h'r	r'gh	ese.	cloudy.
Bk. Stella, N. 17° 30′, W. 143° 53′*	29.95	760.7	71.4	21.9	90	nne.	.....	.....	5	.....	7	.....	ne.	sq'ls	sq'ls	mod.	ne.	
Bg. Teneriffe, N. 33° 00′, W. 71° 12′	29.90	761.0	.....	.....	.....	w.	.....	.....	2	.....	5	.....	w.	0	0	mod.	.....	
Bk. Truro, Havre, France*†	29.83	757.7	.....	.....	.....	wsw.	.....	.....	4	.....	10	.....	wsw.	1 h'r	1 h'r	.....	.....	drizzling
U. S. F. C. S. Fish Hawk, Havre de Grace, Md†	30.19	766.8	65	18.3	83	w.	.....	.....	3	.....	4	.....	w.	0	0	.....	.....	clear.
Yacht Vega, St. Thomas Id., W. I.*†	30.38?	771.6?	81	27.2	.....	ene.	.....	.....	1	.....	.....	.....	ene.	0	0	.....	.....	
S. S. Victoria J. Peed, Salamanca Id, U. S. C*†	29.11	739.4	.....	.....	.....	ne.	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	clear.
Bk. Vincenzo Accame, N. 37° 45′, W. 50° 40′†	30.24	768.0	75.2	24.0	.....	s.	.....	.....	5	.....	.....	.....	.....	.....	.....	.....	.....	
Schr. Viola Reppard, Brunswick, Ga†	30.03	762.7	73.5	23.1	.....	nnw.	.....	.....	1	.....	2	.....	nnw.	0	0	.....	.....	clear.
S. Warden Law, N. 39° 50′, W. 62° 47′*	29.97	761.2	.....	.....	.....	nnw.	.....	.....	4	.....	2	.....	n.	2 h'r	2 h'r	sm'h	wsw.	fair.
Bk. Wm. Wilcox, N. 6° 20′, W. 27° 02′*†	30.18	766.6	81	27.2	.....	e.	.....	.....	3	.....	5	.....	sse.	2 h'r	2 h'r	mod.	sse.	fair.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 7, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.95	760.8	73.8	23.2	70	e.			1		1			0	0	very fair	Moiroud.
Algiers			29.97	761.1	73.4	23.0	70	nw.			4		8			0	0	very cloudy.	Nicolas.
La Calle			29.96	760.9	78.4	25.8	70	nw.			4		2			inap.	inap.	fair	Fonfréde.
Tunis			29.99	761.7															Jacques.
Saida			30.06	763.6	83.1	28.4	38	ese.			2		1			0	0	fair	Perés.
Tebessa			30.08	764.0	93.6	34.2	11	sw.			4		0			0	0	clear	Derché.
Geriville					95.0	35.0	21	sse.			2		0			0	0	clear	Lonchamp.
Laghouat			30.07	763.8	97.9	36.6	22	w.			1		0			0	0	clear	Abraham.
Biskra			30.07	763.8	102.6	39.2	12	se.			2		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	30.02	762.5	30.11	764.8	49.3	9.6	90	s.	2	0.9			10			0	0	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.31	744.4	29.83	757.7	76.3	24.6	46	sw.			3		0			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.08	738.7	29.82	757.4	73.4	23.0	56	ese.	4.9	2.2			1			0	0		Dr. Wierzbiski.
Eperies	28.98	736.0	29.82	757.3	75.6	24.2	60	calm			0	0	7 ks			0	0		Julius Mikolik.
Gratz	28.61	726.6	29.80	756.8	73.0	22.8	65	sw.			2		0			0	0		Andreas Rospini.
Hermannstadt	28.50	723.9	29.85	758.1	79.0	26.1	58	se.			2		8			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.41	721.6	29.67	753.7	76.6	24.8	65	ne.			2	0	2 k			0	0		The Staff.
Lemberg	28.89	733.8	29.83	757.7	74.1	23.4	86	s.			1		3			0	0		Dr. T. Stanecki.
Pola	29.81	757.2	29.92	759.9	75.9	24.4	60	sw.			1		4			0	0		I. R. Hydrographic Office.
Szathmar	29.40	746.7	29.85	758.1	81.0	27.2	40	s.			2		2			0	0		Joseph Midlinszky, S. J.
Szegedin	29.61	752.0	29.87	758.8	76.6	24.8	52	calm			0		6			0	0		Karl Stancel.
Trieste	29.83	757.6	29.93	760.2	73.8	23.2	53	calm			0		3			0	0		Royal Academy.
Vienna	29.10	739.0	29.77	756.2	78.3	25.7	45	se.			3		1			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.40	746.7	29.50	749.3	57.0	13.9	69	wnw.	10	4.5			7			0.230	5.8	gloomy	W. Boswell
Armagh, Observatory	29.47	748.5	29.71	754.6	55.1	12.8	90	wnw.	8	3.6			8					d. clouds	S. Oall.
Bidston, Liverpool Obs'y			29.68	753.9	57.0	13.9	77	w.	34	15.2			7					d clouds	John Hartnup.
Bolton, Sharples	29.12	739.6	29.65	753.1	56.3	13.5	78	wsw.	18	8.0			9					d. clouds	Thomas Mackereth. [A.S.
Bradford, Yorkshire	29.22	742.2	29.62	752.3	58.7	14.8	69	sw.			1		4			0.03	0.8	d. clouds	J. McLandsborough, F. R
Bridgetown, Barbadoes					81.0	27.2	82	ne.			2		3					d. clouds	Corpl. J. Surgenor, A. H.C.
Cardington																			John McLaren.
Chatham, School M. E.	29.66	753.4	29.78	756.4	65.0	18.3	59	ssw.			1		7			blank	blank	d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.66	753.4	29.88	758.9	60.0	15.6	68	wnw.			4		6					d. clouds	The Staff.
Fort Napier, Natal	27.63	701.8	29.84	757.9	77.0	25.0	15	calm			0		0					blue sky	Pvt. Lane, A. H.C
Free Town, Sierra Leone	29.71	754.6	29.94	760.5	79.0	26.1	95	sw.			2		10					raining	Sergt. John Robinson.
Gibraltar, Mediterranean	30.00	762.0	30.05	763.3	76.8	24.9	76	w.			2		0					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.36	745.7	29.57	751.1	60.4	15.8	82	w.			5	5 c	0					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.60	751.8	29.76	755.9	64.4	18.0	55	wsw.			2		6					d. clouds	The Staff.
Guernsey	29.60	751.8	29.90	759.4	60.0	15.6	82	wnw.			2		4					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.74	755.4	29.78	756.4	63.0	17.2	52	sw.	11	4.9			7					d. clouds	The Staff.
Leicester, Museum	29.44	747.8	29.69	754.1	60.0	15.6	61	sw.			1		10					raining	J. C. Smith.
Malta, Mediterranean	29.83	757.7	29.90	759.4	76.0	24.4	80	ne.			4		5					d clouds	I. H. Whysall.
Nassau, Bahamas	30.15	765.8	30.19	766.8	85.5	29.7	70	e.			1		5					d. clouds	O. S. Duncombe.
Oscott, St. Mary's College	29.19	741.4	29.70	754.4	59.0	15.0	61	wsw.			6		8					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.53	750.0	29.76	755.9	62.1	16.7	61	sw.			4		7					d. clouds	The Staff.
Plymouth	29.76	755.9	29.84	757.9	65.6	18.7	66	w.			3		10					overcast	John Merrifield.
Sandwick Manse, Orkneys			29.48	748.8	54.2	12.3	91	wsw.	18	8.0			3					d. clouds	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey																			W. H. Lyne.
Sheffield	29.39	746.5	29.67	753.6	60.3	15.7	76	sw.			2		7			0.04	1.0	overcast	W. F. Cooper.
Silloth Rectory	29.56	750.8	29.59	751.6	61.1	16.2	78	w.			4		6			0.025	0.6	showery	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.68	753.9	58.9	14.9	69	w.	21	9.4			6					d. clouds	J. New.
Stratfield Turgiss	29.57	751.1	29.78	756.4	63.1	17.3	63	nw			2		8					d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.89	759.2	29.90	759.4	62	16.7	61	w.			6		5					d. clouds	W. Newcombe.
Valencia, Observatory	29.89	759.2	29.91	759.7	57.9	14.4	81	wnw.	18	8.0			6					d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.71	754.6	29.75	755.6	53	11.7	82	s.	8	3.6			10 s		calm	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.62	752.3	29.68	753.9	59	15.0	72	ne.	3	1.3		5 c	0	ne.		0	0	fair	G. A. Blair.
Father Point, Quebec*	29.50	749.3	29.53	750 0	51	10.6	83	w.	12	5.4			10 k		w.	0	0	cloudy	J. McWilliams.
Halifax, N. S*	29.72	754.9	29.85	758.2	44	6.7	96	se.	2	0.9		10 ck	0			0	0	cloudy	A. Allison.
Kingston, Ontario*	29.43	747.5	29.76	755.9	53	11.7	77	w.	13	5.8		10 cs	0	nw.		0	0	hazy	A. P. Knight, M. A.
Montreal, Quebec*	29.47	748.5	29.66	753.4	62	16.7	50	sw.				2 c	0			0	0	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.02	737.1	29.69	754.1	57	13.9	74	s.	6	2.7		2 k	0	s.		0	0	fair	Rev. R. Mosley.
Port Dover, Ontario	29.17	740.9	29.85	758.2	61	16.1	66	sw.	10	4.5		0	0			0	0	clear	H. Morgan.
Port Stanley, Ontario	29 24	742.7	29.87	758.7	56	13.3	86	w.	14	6.3		2 ck	0	w.		0	0	clear	M. Payne.
Quebec, Quebec*	29.33	745.0	29.65	753.1	57	13.9	80	w.			1	0	5 s		nw.	0	0	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.16	740.7	29.62	752.3	49	9.4	86	calm	0	0		3 ck	0	w.		0	0	clear	W. H. McIntyre.
Saugeen, Ontario*	29.03	737.3	29.72	754 9	57	13.9	86	sw.	25	11.2		8 cs	0			0	0	cloudy	
St. Andrews, N .B	29.71	754.6	29.76	755.9	52	11.1	82	s.	3	1.3		2 c	0	nw.		0	0	clear	
Sydney, C. B*	29.78	756.4	29.85	758.2	48	8.9	83	sw.	6	2.7		3 ck	1 k			0	0	fair	T. C. Hill, C. E
Toronto, Ontario*	29.42	747.3	29.80	756.9	60	15.6	70	sw.	6	2.7		5 ck	0	w.		0	0	fair	Magnetic Observatory.
Yarmouth, N. S*	29.76	755.9	29.82	757.4	49	9.4	86	sw.	2	0.9		5 c	0	w.		0	0	fair	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest																			Wm. Wylie.
St. Johns, Newfoundland	29.94	760.5	30.19	766.8	53	11.7	67	w.	1	0.4		0	0			0	0		John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.06	763.5	30.09	764.3	63.0	17.2	88	w.	10.1	4.5		6 cs	0			0	0	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	30.08	764.0	30.12	765.0	62.0	16.7	88	nnw.	9	4.0		2	8			0.390	9.9		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow	29.59	751.6	29.86	758.4	69.9	21.1	96	ne.			2		10					rainy	N. Titoushkin.
Zi-Ka-Wei, near Shanghai.	29.63	752.6	29.65	753.2	70.7	21.5	96	se.	10.1	4.5			10 n			0.567	14.4	raining	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.55	750.6	29.60	751.8	72.1	22.3	54	sw.	22	10			4						Oversergent Fischer.
Fanöe	29.57	751.0	29.59	751.5	56.7	13.7	96	nw.			4		8						Overloerer Lauridsen.
Godthaab, Greenland	29.69	754.1	29.73	755.2	36.7	2.6	85	nne.			2		10			0	0		S. Kleinschmidt.
Stykkisholm, Iceland	29.72	754.8	29.76	755.9	41.7	5.4	72	ne.			6		5						A. O. Thorlacius.
Thorshavn	29.51	749.6	29.55	750.5	50.5	10.3	90	ne.	9	4			10					raining	Overloerer Bergh.
Vestervig	29.48	748.7	29.57	751.0	54.5	12.5	89	calm			0		10					raining	Loearer Oesterboi.
FRENCH.																			
Agen, Normal School	29.37	745.9	30.02	762.6	54.3	12.4	100	nne.			2		8			0.362	9.2	raining	M. Labroue, Director.
Alençon, Normal School	29.37	746.1	29.93	760.1	60.8	16	98	w.			1		kn	sw.	w.	0	0		M. Nicot, Director.
Arras, Engineer School	29.72	754.8	29.97	761.2	61.3	16.3	67				4		kn			0.217	5.5		M. Fénéon, Command't.
Avignon, Normal School	29.77	756.1	29.85	758.1	77.4	25.2	60	sw.			3		5		s.	0	0	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.33	744.9	29.87	758.8	59.4	15.2	79	w.			1		10			0.331	8.4	covered	M. Saillard, Director.
Beauvais, Normal School	29.58	751.3	29.84	757.9	65.3	18.5	51	wnw.			2		8	s.	nw.	0.102	2.6	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	28.96	735.5	29.84	757.8	59.9	15.5	89	wsw.			1	10 c	0	ne.		0.283	7.2	raining	M. Gobin, Director.
Bordeaux, Observatory	29.72	754.9	29.98	761.4	64.4	18.0	62	nw.			1		10		w.	0.031	0.8	covered	M. Rayet, Director.
Bourges, Normal School	29.37	746.0	29.91	759.8	59.9	15.5	74	w.			1		n		w.	0.217	5.5		M. Postel, Director.
Brest, Naval Observatory	29.71	754.6	29.95	760.8	65.8	18.8	77	w.			1		6		w.	0.157	4.0		M. de Kermaree, Dir.
Caen, Normal School	29.77	756.1	29.84	758.0	61.5	16.4	72	nw.			1		8		nw.	0.772	19.6	very cloudy.	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.48	748.9	29.80	756.8	61.3	16.3	73	sw.			3		8	sw.	w.	0.276	7.0	very cloudy	M. Jadot, Director.
Charleville, Normal School.	29.41	747.0	29.90	759.4	74.5	23.6	41	s.			1		5			0.20	5.	½ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.60	726.4	29.95	760.8	53.6	12.0	95	n.			1		10			0.650	16.5	covered	M. Alluard, Director.
Cluny, Normal School	29.09	738.9	29.92	760.0	54.1	12.3	98	w.			2		8		w.	0.24	6.		M. de Villemontée, Dir.
Commercy, Normal School.	29.02	737.2	29.87	758.6	55.4	13	92	w.			2		10 n	w.	w.			raining	Dr. Coulet, Director.
Gap, Normal School	27.33	694.1	29.75	755.6	75.6	24.2	33	sw.			4	2 ck	0	nw.		0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.76	730.6	29.85	758.1	73.8	23.2	55	se.			3		8		se.	0	0		M. Kina, Director.
Grenoble, Normal School	29.03	737.4	29.77	756.2	70.2	21.2	58	nw.			6	ck	0	s.		0	0		M. Ablard, Director.
Guéret, Normal School	28.35	720.0	29.93	760.3	54.3	12.4	83	sw.			1		10		w.	0.449	11.4	covered	M. Rivoire, Director.
Lamballe, Normal School.	29.71	754.6	29.98	761.6	60.8	16	79	nw.			1		5		nw.	0.256	6.5	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.50	749.2	30.06	763.6	58.3	14.6	93	w.			1		10			1.30	33.	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.86	758.5	29.97	761.1	59.5	15.3	73	wsw.			4		5		w.	0.453	11.5	½ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.88	733.6	29.94	760.5	53.2	11.8	100	nnw.			2		10		wsw.	0.291	7.4	raining	M. André, Director.
Mans, Normal School	29.61	752.0	29.91	759.6	63.5	17.5	52	nw.			3		5		nw.	0.217	5.5	cloudy	M. Piboen, Director.
Marseille, Observatory	29.60	751.9	29.87	758.6	74.5	23.6	70	sse.			1		10		sw.	0.008	0.2		M. Stephan, Director.
Montlouis	24.74	628.4	29.58	751.4	43.2	6.2	67	n.	16.8	7.5			10	n.		0.374	9.5		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.71	754.7	29.84	757.9	68.9	20.5	69	wnw.			3		10		sw.	0	0	covered	M. Galzin, Director.
Nancy, Normal School	29.09	738.8	29.87	758.6	56.5	13.6	90	wsw.			1		n			0	0		M. Hasse, Director
Nantes, Observatory	29.80	756.9	29.96	761.0	64.4	18	54	wnw.			0–2		8		nw.	0.209	5.3		M. Larocque, Director.
Perpignan, Observatory	29.82	757.4	29.93	760.1	61.3	16.3	66	nw.	13.0	5.8			10		w.	0.075	1.9		Dr. Fines, Director.
Pic-du-Midi, Summit	21.18	538.0			30.2	− 1.0		nw.			1		10		nw.	0.378	9.6	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.80	731.5	29.83	757.7	69.4	20.8	50	se.			1		2	se.	se.	0	0	slightly cl'dy	M. Taillen.
Puy de Dôme Obs'y, Summit	25.07	636.7			38.8	3.8	100	wnw.			3		10			0.823	20.9	rain and fog.	M. Alluard, Director.
Rochefort, Naval Obs'y	29.92	760.0	29.95	760.8	69.1	20.6	100	w.			2		5		w.	0.04	1.	½ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.67	753.6	29.88	759.0	59.7	15.4	83	sw.			1		5	w.	nw.	0.264	6.7	raining	M. Mouillot, Director.
Rodez, Normal School	27.82	706.6	29.97	761.3	49.3	9.6	92	nw.			3		10 n		nw.	0.433	11.0	raining	M. Seger, Director.
Rouen, Normal School	29.80	757.0	29.85	758.2	62.2	16.8	64	sw.			3		8	w.		0.20	5.	very cloudy	M. Brotler.
Saint Maur, Observatory	29.69	754.2	29.86	758.4	63.9	17.7	59	w.			1		10		w.	0.201	5.1		M. Renou, Director.
Toulouse, Observatory	29.36	745.7	30.08	764.1	54.0	12.2	97	wsw.			1		10	w.		0.925	23.5	covered	M. Baillard, Director.
Tours	29.70	754.4	29.88	758.9	68.0	20.0	55	wnw.			1		8	sw.	wnw.	0.256	6.5	rainy	M. de Tastes.
Versailles, Observatory	29.35	745.5	29.84	758.0	64.4	18.0	56	n.			2					0.201	5.1		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.57	751.0	29.86	758.4	63.3	17.4	66	nw.			1.5		10		wnw.	0.146	3.7		M. Marié Davy, Director
GERMAN.																			
Bamberg	28.88	733.5	29.72	755.0	78.8	26	46	sw.			3	0	6k;s		sw.	0.020	0.5		Prof. Dr. Hoh.
Berlin	29.60	751.9	29.77	756.2	79.5	26.4	37	se.			2		5			0	0		Prof. Dr. Arndt.
Breslau	29.30	744.3	29.83	757.7	74.1	23.4	43	se.			2		7					rain & fog	Royal University Obs'y.
Carlsruhe	29.32	744.7	29.74	755.3	70.7	21.5	66	sw.			4		10	sw.		0.980	24.9		Albert Senz.
Cassel	28.97	735.9	29.69	754.0	73.0	22.8	67	nw.			4		10	w.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.34	745.1	29.68	753.9	71.6	22.0	67	nw.			2		9			0	0		Physical Society.
Friedrichshafen	28.30	718.9	29.66	753.3	75.7	24.3	70	sw.			1		8	w.		1.449	36.8		Wilhelm, Chief Tel.
Hamburg	29.54	750.3	29.63	752.7	72.7	22.6	63	w.			4		8			0	0		E. Preller.
Kiel	29.61	752.0	29.62	752.4	66.2	19.0	73	w.			4		10			0.083	2.1		Prof. Dr. G. Karsten.
Leipsic, Ästrom'l Obs'y	29.29	744.0	29.69	754.1	79.5	26.4	40	sse.			2		6			0	0		H. Leppig, Asst.
Magdeburg	29.48	748.7	29.65	753.2	81.5	27.5	38	s.			4	4 c	0	sw.		0	0		Dr. Assmann.
Memel	29.78	756.5	29.83	757.7	70.3	21.3	54	ssw.			3	1 c	0						Isermann.
Munich	27.96	710.2	29.81	757.1	77.2	25.1	36	calm			0		1	sw.		0	0		Central Station.
Neufahrwasser	29.77	756.1	29.78	756.5	77.4	25.2	39	sse.			3		3			0	0		A. Lothes.
Neustadt, Palatinate	29.21	741.8	29.73	755.1	69.4	20.8	56	w.			6		10	sw.		0.224	5.7		Dicknether.
Stuttgart	28.79	731.2	29.63	752.7	75.7	24.3	48	nw.			3		9	w.		0.496	12.6		Prof. Dr. Schoder.
Wustrow	29.67	753.5	29.69	754.2	76.5	24.7	56	sse.			5	0	5s			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.56	750.9			76.6	24.8		sw.			1.0		10			0.181	4.6	covered	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.41	747.0	29.46	748.3	90.0	32.2	77	sw.	22.0	9.8			1			0	0	misty	
Deesa	28.90	734.2	29.35	745.5	102.3	39.1	49	wsw.	17.3	7.7			6	sw.	sw.	0	0	d. clouds	
Bombay	29.51	749.6	29.55	750.6	85.4	29.7	81	wsw.	11.0	4.9			3		sw.	0.01	0.3	d. clouds	
Poona, Yarrowda	27.70	703.6	29.53	750.0	81.4	27.4	67	w.	21.0	9.4			9		wsw.	0	0	d. clouds	
Trichinopoly	29.39	746.5	29.67	753.5	84.6	29.2	59	wnw.	2.0	0.9			10			0	0	overcast	
Bellary	28.10	713.9	29.55	750.5	84.0	28.9	58	sw.	10.9	4.9			9	sw.		0	0	gloomy	
Belgaum	27.09	688.2	29.65	753.0	68.6	20.3	92	wsw.	11.0	4.9			10		sw.	1.18	30.0	showery	
Lahore	28.65	727.7	29.35	745.5	103.8	39.9	26	sw.	4.5	2.0			0			0	0	misty	
Roorkee	28.53	724.7	29.38	746.3	100.7	38.2	33	sw.	0.6	0.3			2			0	0		
Agra	28.86	733.0	29.40	746.6	99.1	37.3	34	e.	6.6	3.0			0			0	0	blue sky	
Nagpur	28.36	720.4	29.38	746.2	85.9	29.9	54	s.	5.7	2.6			10		n.	0	0	overcast	
Jubbulpore	28.11	714.0	29.45	748.0	79.8	26.6	80	e.	4.9	2.2			9		e.	0.26	6.6	overcast	
Lucknow	29.11	739.3	29.48	748.8	81.2	27.3	73	calm	1.5	0.7			8	ssw.		0	0	d. clouds	
Allahabad	29.14	740.0	29.45	747.9	79.6	26.4	83	calm	3.2	1.4			10			3.83	97.3	overcast	
Patna	29.28	743.6	29.46	748.2	93.1	33.9	58	ne.	6.1	2.7			4	ne.	ne.	0	0	d. clouds	
Hazaribagh	27.46	697.6	29.41	747.1	87.0	30.6	53	ese.	7.1	3.2			5	e.	w.	0	0	thunder	
Cuttack	29.36	745.7	29.44	747.8	86.1	30.1	67	calm	1.3	0.6			5			0.94	23.9	d. clouds	
Calcutta, Alipore	29.45	748.0	29.47	748.5	82.2	27.9	91	sse.	5.0	2.2			10	e.		0.22	5.6	overcast	
Dhubri	29.36	745.7	29.48	748.6	84.0	28.9	76	sw.	1.4	0.6			8			0	0	d. clouds	
Chittagong	29.46	748.4	29.55	750.6	80.2	26.8	91	s.	3.8	1.7			6			0	0	d. clouds	
Sibsagar	29.13	740.0	29.46	748.2	91.3	32.9	72	sw.	2.1	0.9			2		sw.	0	0	blue sky	
Jeypore	27.98	710.8	29.39	746.5	86.7	30.4	61	ese.	7.2	3.2			4		e.	0.22	5.6	d. clouds	
Zanzibar, Africa	30.00	762.0			83.1	28.4	57	sse.	6.7	3.0			8			0	0	gloomy	
ITALIAN.																			
Udine	29.52	749.7	29.91	759.8	77.5	25.3	66	sw.	1.8	0.8			6			0	0		Prof. Giovanni Clodig.
Milan	29.37	745.9	29.86	758.5	81.5	27.5	28	e.	5.6	2.5			4	ne.		0	0		Prof. Schiaparelli.
Padua	29.78	756.3	29.88	759.0	77.0	25.0	50	ese.	11.2	5.0			3			0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.97	735.8	29.84	757.9	74.5	23.6	29	n.	3.8	1.7			8	sw.		0	0		Prof. P. F. Denza.
Genoa	29.72	754.8	29.90	759.5	73.9	23.3	61	sw.	3.8	1.7			2	sw.		0	0		Prof. G. M. Garibaldi.
Mondovi	27.98	710.6	29.82	757.5	77.9	25.5	45	e.			4		0			0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Pesaro	29.83	757.6	29.87	758.8	73.6	23.1	54	e.	5.6	2.5			0			0	0		Prof. Luigi Guidi.
Florence	29.61	752.1	29.86	758.4	82.8	28.2	33	nw.			2		0			0	0		Prof. Costantino Pitter.
Leghorn	29.75	755.7	29.84	757.8	77.9	25.5	56	s.	0.7	0.3			5			0	0		Prof. P. Monte.
Rome	29.73	755.1	29.90	759.4	83.8	28.8	46	s.	9.8	4.4			3	nne.		0	0		Prof. P. S. Ferrari.
Lecce	29.72	754.9	29.97	761.1	74.8	23.8	44	n.	9.4	4.2			2	n.		0	0		Prof. C. de Giorgi.
Cosenza	29.06	738.2	29.91	759.8	81.3	27.4	73	ssw.	1.8	0.8			4	s.		0	0		Prof. D. Conti.
Cagliari	29.61	752.1	29.80	756.8	79.5	26.4	54	se.			6		2			0	0		Prof. A. Pacinotti.
Palermo	29.69	754.0	29.93	760.2	78.6	25.9	49	ne.	7.4	3.3			0			0	0		Prof. G. Ciacciatore.
Syracuse	29.91	759.7	29.95	760.8	72.9	22.7	67	nne.	9.8	4.4			8	wnw.		0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.45	747.9	29.95	760.8	78.6	25.9	61	wsw.	4.9	2.2			1	w.		0	0		Prof. T. Brioschi.
Stelvio	22.19	563.5			47.7	8.7	69	w.			2		4			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.22	564.4			47.3	8.5	73	ne.			2		10			0.142	3.6	covered	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.88	758.9	29.91	759.7	53.2	11.8	84	wnw.	20.4	9.1			10 ks		sw.	0	0	gloomy	K. Ogawa.
Hakodate	29.84	757.9	29.86	758.4	52.3	11.3	86	w.	16.8	7.5			10			0	0	covered	
Hiroshima, I. M. Obs'y	29.91	759.7	29.93	760.2	62.6	17.0	75	nne.	6.2	2.8		0	0			0	0	clear	I. Sogawa.
Kanazawa	29.81	757.2	29.92	759.9	58.1	14.5	92	n.	3.4	1.5		ck	4 s			0	0	fair	S. Endo.
Kioto	29.79	756.6	29.96	761.0	62.0	16.7	67	e.	3.5	1.6		ck	1 s			0	0	clear	M. Tojima.
Kochi	29.99	761.7	30.01	762.2	66.9	19.4	89	nw.	3.5	1.6		0	6 s		sw.	0	0	fair	K. Kusunose.
Nagasaki, I. M. Obs'y	29.74	755.4	29.94	760.5	66.5	19.2	71	wsw.	0.6	0.3		0	4 s			0.100	2.5	clear	S. Takehayashi.
Nemuro	29.69	754.1	29.76	755.9	41.8	5.4	93	calm	0	0		10	0	nw.		3.260	82.8	overcast	
Niigata	29.98	761.5	30.02	762.5	55.5	13.1	92	sw.	1.8	0.8		0	0			0.005	0.1	fair	M. Morita.
Nobiru	29.92	759.9	29.94	760.5	59.1	15.1	69	nw.	13.8	6.2		0	0			0	0	clear	H. Midzushina.
Supporo					52.5	11.4	86	n.	12.0	5.4			10			0	0	covered	
Tokei Obs'y, Yeddo	29.91	759.7	29.98	761.5	64.9	18.3	70	ssw.	4.9	2.2		0	0			0	0	clear	The Staff.
Wakayama	29.91	759.7	29.96	761.0	66.6	19.2	70	ssw.	5.1	2.3		0	0			0	0	clear	Y. Kuwamuea.
MAURITIUS																			
Mauritius Observatory	29.86	758.4	30.05	763.3	76.6	24.8	64	nnw.	9.5	4.2		0	5 k;n		ssw.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.70	601.9	29.92	759.9	60.8	16.0	87	calm	0	0		0	2 s			0.236	6.0	foggy	Prof. Vicente Fernandez.
Leon	24.31	617.5	29.94	760.5	60.8	16.0	81	nw.			1	6 c	2 k	w.	w.	0	0	cloudy	Prof. M. Leal.
Mazatlan	29.69	754.1	29.95	760.6	74.0	23.3	92	e.	1.6	0.8		0	4 n		sse.	0	0	fair	F. Quijano, C. E.
Mexico, Central Obs'y	23.18	588.8	30.24	768.0	53.6	12.0	95	calm	0	0		5 ck	5 kns			0.729	18.5	covered	The Staff.
Morelia	24.18	614.2	30.23	767.9	61.7	16.5	66	n.			5	2	4	w.	w.	0.240	6.1	½ cloudy	M. Tena, M. D.
Pabellon, Aguascallentes	23.94	607.8	29.84	757.8	63.1	17.3	92	w.			1					1.380	35.1		M. Y. de Leon, M. E.
Puebla, Catholic Institute	23.43	595.2	30.18	766.4	54.9	12.7	95	calm	0	0		0	0			0.910	24.8	clear	Prof. P. Spina.
San Luis Potosi	24.23	615.3	30.06	763.4	62.2	16.8	75	ne.					10		w.	0.729	18.5	covered	G. Barroeta, M. D.
Zacatecas	22.60	574.0	30.14	765.5	61.0	16.1	74					3 cs	0			0	0		J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.78	756.3	29.78	756.3	65.1	18.4		w.			3					0.551	14.0		
Groningen	29.63	752.6	29.69	754.0	62.8	17.1		nw.			1					0.244	6.2		
Helder	29.70	754.4	29.70	754.4	59.7	15.4		w.			3					0.031	0.8		
Hellevoetsluis	29.75	755.7	29.75	755.7	61.0	16.1	75	wnw.			1					0.571	14.5		
Utrecht	29.70	754.4	29.75	755.6	65.3	18.5	71	sw.			1		8			0.402	10.2	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.43	747.6	29.50	749.2	62.2	16.8	69	ssw.	18	8			9			blank	blank		
Brono	29.39	746.4	29.43	747.4	48.6	9.2	88	w.	4	2			6			0.748	19.0		
Christiania	29.40	746.7	29.54	750.3	63.3	17.4	67	s.	20	9			10			0.106	2.7		
Gjesvær	29.63	752.6	29.65	753.2	35.2	1.8		ne.			6		10						
Lodingen	29.36	745.8	29.41	747.0	46.9	8.3	75	nne			4		10			0.512	13.0		
PORTUGUESE.																			
Angra, Azores					63.3	17.4	63	sse.	6.9	3.1			2			0	0		Dr. J. A. Sampaio.
Campo Major	29.11	739.3	30.09	764.3	68.9	20.5	32	n.	10.5	4.7			1			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.17	766.4	30.26	768.6	70.2	21.2	57		1.8	0.8			2			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.85	758.2	30.21	767.3	65.1	18.4	47	nnw.	28.6	12.8			5	wnw.		0	0		The Staff.
Ponta Delgada, Azores	30.41	772.4	30.48	774.2	70.9	21.6	51	sse.	0.7	0.3			4			0	0		
Saint Paul de Loando	29.80	757.0	30.00	762.1	76.6	24.8	80	nnw.	0.7	0.3			0			0	0		
Serra da Estrella	25.35	643.8	30.11	764.8	46.4	8.0	63	nnw.	36.6	16.4			3			0.197	5.0		
RUSSIAN.																			
Akmolinski	28.39	721.2	29.38	746.3	85.8	29.9	36	ese.	9	4			9 k			0	0		Major K. Lasarew.
Archangel	29.43	747.5	29.45	748.0	66.7	19.3	61	calm	0	0		0	8 ks			0	0		Capt. Sselliwerstow.
Astrakhan	29.67	753.7	29.59	751.6	64.8	18.2	68	wsw.	20	9			10 s;n			0.157	4.0		Capt. Wisganow.
Barnaul	29.28	743.7	29.75	755.6	78.4	25.8	30	ne.	2	1			0			0	0		Meteorological Obs'y.
Dorpat	29.51	749.6	29.74	755.4	72.7	22.6	61	wsw.	11	5		8 ck	0			0	0		Observatory.
Ekaterinburg	28.23	717.1	29.13	739.9	71.2	21.8	49	se.	22	10		c;ck	6 k			0.492	12.5		Meteorological Obs'y.
Kasan	28.85	732.9	29.11	739.4	65.8	18.8	67	wsw.	11	5			10 ks			0.161	4.1		Observatory.
Kertch	29.84	758.0	29.86	758.5	78.3	25.7	38	sw.	31	14		3 cs	0			0	0		Lagorio & Sastyrex.
Kieff	29.19	741.3	29.78	756.5	77.9	25.5	33	w.	4	2		c;ck	3 k;ks			0	0		Observatory.
Lugan	29.44	747.8	29.64	752.8	72.0	22.2	24	wnw.	18	8			6			0	0		Meteorological Obs'y
Moscow	29.06	738.1	29.50	749.4	72.7	22.6	36	n.	13	6			3 ks						Meteorological Obs'y.
Nikolaiev	29.84	757.9	29.91	759.7	84.9	29.4	30	calm	0	0		0	2 k			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.72	754.7	29.81	757.1	57.4	14.1	80	calm	0	0			10			0	0		Lieut. Iwanow.
Pekin, China	29.52	749.8	29.66	753.4	67.6	19.8	95	calm	0	0		3 cs	0			0.303	7.7		Physical Observatory
St. Petersburg	29.64	752.9	29.66	753.3	69.4	20.8	59	nw.	13	6		c;cs	7 k			0	0		Central Physical Obs'y.
Semipalatinsk	29.10	739.1	29.70	754.4	87.6	30.9	28	calm	0	0		0	0			0	0		Major Lasarew.
Tashkend, Laboratory	28.11	714.1	29.55	750.6	93.0	33.9	42	calm	0	0			0						Teich, A. M.
Tiflis	28.58	725.9	29.97	761.2	66.7	19.3	39	nw.	22	10		0	1 k			0	0		Physical Observatory
Vladivostock	29.78	756.5			56.1	13.4	77	se.	18	8		0	6 k						
Warsaw	29.44	747.8	29.84	758.0	75.0	23.9	51	ssw.	7	3			10 ks						Astronomical Obs'y
Wilna	29.48	748.9	29.89	759.1	71.8	22.1	44	wnw.	2	1			1			0	0		Berg, Assistant.
SPANISH.																			
Barcelona, Met. Obs'y	29.76	755.9	29.86	758.5	71.1	21.7	75	e.	2.9	1.3			8			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	29.88	759.0	29.94	760.5	64.9	18.3	61	nw.	4.9	2.2		3	5	n.		0.055	1.4	almost cov'd	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.12	688.8	30.08	763.9	56.7	13.7	60	ne.	5.6	2.5			10			0.051	1.3	covered	Domingo Martin.
Madrid, Royal Obs'y	27.78	705.6	29.96	760.9	67.5	19.7	28	n.	2.9	1.3		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.70	754.3	29.84	757.9	88.0	31.1	41	ssw.	2.9	1.3		1	2	se.		0	0	clouds	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.26	743.3	30.16	766.0	62.2	16.8	66	nw.	13.0	5.8			7			0.165	4.2	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.04	762.9	30.10	764.6	80.3	26.8	83	se.	2.2	1.0		0	0			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.76	755.9	29.82	757.4	83.8	28.8	68	ese.	1.3	0.6		0	1 ks			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.97	761.3	30.07	763.7	71.8	22.1	50	wnw.	11.2	5.0		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.99	761.8	30.08	764.1	82.8	28.0	97	e.	12.5	5.6		2 cs	3 k	e.	e.	0.217	5.5		Manuel Maese.
Tuguegarao, Philippine Id's	29.73	755.1	29.86	758.4	79.6	26.4	84	nw.	4.3	1.9			9 ks		ese.	0.01	0.3	overcast	José L. Yrastorza.
SWEDISH																			
Haparanda	29.32	744.8	29.36	745.8	50.7	10.4	95	s.			2		10			0.382	9.7		
Umea	29.22	742.3	29.28	743.6	60.4	15.8	73	nw.			4		9			0.165	4.2		
Hernosand	29.33	744.9	29.38	746.2	66.9	19.4	63	w.			9		3			0.087	2.2		
Stockholm	29.46	748.2	29.63	752.7	69.1	20.6	45	wsw.			6		3			0	0		
Wisby	29.65	753.0	29.71	754.5	72.7	22.6	59	sw.			4		3			0	0		
Sub-series.																			
Upsala	29.48	748.7	29.56	750.9	66.7	19.3	51	sw.	15.0	6.7			4		wsw.	0.205	5.2		S. G. Fineman.
SWISS.																			
Geneva	28.45	722.7	29.85	758.2	64.2	17.9	64	wsw.			3					0.748	19.0	covered	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
SCOTTISH.																			
Monach Lt			29.57	751.1	55	12.8	86	nw.			4	5	0	nw.		0.1	3.	showery	J. Youngclause.
TURKISH.																			
Constantinople			29.93	760.1	81.0	27.2	41	sw.	6	2.5			2		sw.	0	0		The Observatory.
Valona			30.05	763.3	74.7	23.7		nw.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-sertes.																			
Beirut, Lee Obs'y, Syria			30.03	762.7	75.6	24.2	52	n.			3	0	0			0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.80	756.9	29.88	758.9	62.7	17.1	57	s.	8	3.6		4 c	0	nw.		0.05	1.3	fair	J. O. Barnes.
Alpena, Michigan	29.08	738.6	29.73	755.1	64	17.8	48	w.	14	6.3		5 c	2 s	w.		0	0	fair	Jas. J. Fitzgerald.
Atlanta, Georgia	29.05	737.9	30.20	767.1	63.0	17.2	54	n.	4	1.8		10 c	r			0	0	cloudy	H. Hall.
Atlantic City, New Jersey	29.96	761.0	29.97	761.2	62.5	16.9	70	w.	7	3.1		7 cs	0			inap.	inap.	fair	Jas. M. Watson.
Augusta, Georgia	30.07	763.8	30.26	768 6	62	16.7	81	calm	0	0		4 c	0			0	0	fair	John Healy.
Baltimore, Maryland	29.98	761.5	30.02	762.5	65	18.3	54	w.	6	2.7		7 cs	0	w.		0	0	fair	Robert Seybolh.
Barnegat, New Jersey	29.94	760.5	29.96	761.0	67.8	19.9	59	sw.	10	4.5		6 cs	0			0.18	4.6	fair	Chas. F. Merritt.
Behring Island, Behring Sea	29.92	760.0	29.94	760.5	42.8	6.0		sw.	2	0.9			10 ks			0	0	cloudy	Dr. L. Steineger.
Bismarck, Dakota	28.00	711.2	29.75	755.6	61	16.1	62	nw.	3	1.3		1 c	0			0	0	clear.	Cyrus Cramer.
Boise City, Idaho	27.13	689.1	29.91	759.7	54	12.2	57	w.	2	0.9		6 cs	0	sw.		0	0	fair	B. E. Light.
Boston, Massachusetts	29.70	754.4	29.84	757.9	61.0	16.1	60	w.	6	2.7		2 c	0			0	0	clear	O. B. Cole.
Brownsville, Texas	29.85	758.2	29.89	759.2	76.2	24.6	90	calm	0	0		1 cs	0	calm		0	0	clear	M. McCarty.
Buffalo, New York	29.12	739.6	29.86	758.4	57.8	14.3	71	sw.	16	7.2		3ck;cs	hz.	sw.		0	0	clear.	Wm. Finn.
Burlington, Vermont	29.46	748.3	29.75	755.6	61.5	16.4	53	s.	15	6.7		4 ck	4 s	nw.	w.	0	0	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.80	756.9	30.19	766.8	65.6	18.7	75	sw.	3	1.3		5 ck	0	w.		0	0	fair	W. H. Ray.
Campo, California	27.40	695.9	29.88	758.9	36	2.2	72	s.	2	0.9		0	0			0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.22	691.4	29.84	757.9	64	17.8	84	s.			1	2 cs	1 k			inap.	inap.	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.07	763.8	30.09	764.3	66	18.9	49	sw.	8	3.6		0	0			0	0	clear	A. K. Alderson.
Cape May, New Jersey	29.98	761.5	30.01	762.2	63	17.2	68	w.	16	7.2		2 k	0	sw.		inap.	inap.	clear	W. Bolton.
Cedar Keys, Florida	30.17	766.3	30.19	766.8	70	21.1	70	e.	6	2.7			10 s			0	0	cloudy	F. W. Mixer.
Champaign, Illinois	29.26	743.2	30.05	763.3	60.7	15.9	66	w.	9	4.0		0	0			0	0	clear	L. A. Welsh.
Charleston, S. Carolina	30.16	766.1	30.21	767.3	69	20.6	66	w.	8	3.6		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.32	744.7	30.15	765.8	68.0	20.0	47	nw.	3	1.3		0	hz.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.42	747.3	30.23	767.8	57.0	13.9	74	w.	2	0.9		6 cs	0	w.		0	0	fair	B. L. Goulding.
Cheyenne, Wyoming	24.03	610.4	29.77	756.1	53.6	12.0	60	nw.	10	4.5		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.27	743.4	29.96	761.0	62.3	16.8	69	sw.	11	4.9		0	0			0	0	clear	J. Mitchell.
Chincoteague, Virginia	30.02	762.5	30.04	763.0	67.8	19.9	61	w.	6	2.7		2 cs	0	sw.		0	0	clear	V. P. Temple.
Cincinnati, Ohio	29.48	748.8	30.13	765.3	64.5	18.1	59	sw.	2	0.9		0	0			0	0	clear	R. B. Watkins.
Cleveland, Ohio	29.24	742.7	29.97	761.2	64	17.8	56	w.	12	5.4		0	0			0	0	clear	J. B. Newlin.
Coleman City, Texas	28.28	718.3	30.03	762.7	65	18.3	84	e.	1	0.4			10 s			0	0	cloudy	L. Dorman.
Columbus, Ohio	29.22	742.2	30.06	763.5	61	16.1	65	sw.	8	3.6		0	0			0	0	clear	D. Cuthbertson.
Concho, Texas	28.13	714.5	30.00	762.0	65	18.3	90	ne.	2	0.9		0	8 s		ne.	0	0	cloudy	W. W. McConihe.
Davenport, Iowa	29.36	745.7	30.00	762.0	62	16.7	67	w.	8	3.6		0	0			0	0	clear	R. R. Martin.
Dayton, Washington T'y	28.24	717.3	29.98	761.5	55.3	12.9	76	sw.	1	0.4		2 c	2 s		sw.	inap.	inap.	fair	H. Clifford.
Deadwood, Dakota	25.32	643.1	29.75	755.6	51	10.6	74	sw.	4	1.8		1 c	0	w.		0	0	clear	G. W. Scott.
Decatur, Texas					63	18.3	68	e.	6	2.7			10 s			inap.	inap.	cloudy	D. J. Carr.
Delaware Breakwater, Del.	29.99	761.7	30.01	762.2	65	17.2	73	w.	14	6.3		4 c;cs	0	w.		inap.	inap.	fair	F. C. Pratz.
Denison, Texas	29.28	743.7	30.06	763.5	65.0	18.3	78	calm	0	0			10 s			0	0	cloudy	J. McGlone.
Denver, Colorado	24.74	628.4	29.78	756.4	56.0	13.3	67	s.	9	4.0		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.11	739.4	29.99	761.7	58	14.4	70	w.	6	2.7		0	0			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.16	740.7	29.85	758.2	65.2	18.4	58	sw.	11	4.9		4 ck	0	w.		0	0	fair	C. F. R. Wappenhans.
Dodge City, Kansas	27.41	696.2	29.92	760.0	55	12.8	93	s.	8	3.6			10 s		s.	0.05	1.3	cloudy	E. A. Thomas.
Dubuque, Iowa	29.24	742.7	29.93	760.2	56.8	13.8	74	sw.	5	2.2		0	hz.			0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.02	737.1	29.71	754.6	68	20.0	51	w.	13	5.8		5 cs	0	calm		0	0	fair	N. B. Conger.
Eagle Pass, Texas	29.24	742.7	30.03	762.7	70.1	*21.2	93	se.	1	0.4		0	7 s		se.	0.06	1.5	fair	F. Belford.
Eagle Rock, Idaho	25.30	642.6	29.89	759.2	58	14.4	58	s.	6	2.7		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.71	754.6	29.78	756.4	54	12.2	74	s.	6	2.7		2 c	0	nw.		0	0	clear	D. C. Murphy.
El Paso, Texas	26.27	667.2	29.86	758.4	61	16.1	90	calm	0	0		3 ck	0	calm		0.14	3.6	clear	J. F. Marshall.
Erie, Pennsylvania	29.19	741.4	29.91	759.7	65	18.3	63	sw.	10	4.5		0	0			0	0	clear	Peter Wood.
Escanaba, Michigan	29.05	737.9	29.70	754.4	62	16.7	60	s.	2	0.9		6 k	0	w.		0	0	fair	C. Dill.
Fort Apache, Arizona	25.06	636.5	29.81	757.2	52	11.1	74	ne.	1	0.4		0	6 s		calm	0.04	1.0	fair	W. C. Barnes.
Fort Assinnaboine, Montana	27.06	687.3	29.84	757.9	55	12.8	64	sw.	6	2.7		5 c	0	sw.		0	0	fair	B. O. Lenoir.
Fort Bennett, Dakota	28.26	717.8	29.80	756.9	58	14.4	83	nw.	1	0.4		0	0			0	0	clear	A. Pritchard.
Fort Benton, Montana																			G. W. Davis.
Fort Buford, Dakota	27.90	708.6	29.86	758.4	54	12.2	74	n.	1	0.4		0	0			0	0	clear	A. H. Bell.
Fort Custer, Montana	26.75	679.4	29.81	757.2	60	15.6	87	n.	3	1.3		0	6 s		calm	0	0	fair	V. Verge.
Fort Davis, Texas	25.19	639.8	29.80	756.9	62	16.7	78	calm	0	0		0	0			0.46	11.7	clear	J. Williams.
Fort Elliott, Texas	27.28	692.9	29.95	760.7	54	12.2	69	se.	8	3.6		6 k	0	se.		0.33	8.4	fair	W. J. Cundall.
Fort Grant, Arizona	25.27	641.8	29.81	757.2	64.9	18.3	30	sw.	2	0.9		5 cs	0			0.03	0.8	fair	Robert C. Lord.
Fort Keogh, Montana	27.37	695.2	29.80	756.9	56	13.3	74	ne.	3	1.3		5 c	0			0	0	fair	W. B. Stockman.
Fort Macon, North Carolina	30.13	765.3	30.14	765.5	67	19.4	51	nw.	6	2.7		hz.	0	calm		0	0	clear	W. W. Thomas.
Fort McKavett, Texas	27.84	707.1	30.04	763.0	64	17.8	84	calm	0	0			10 s			0	0	cloudy	J. E. Thatcher.
Fort Missoula, Montana	26.66	677.2	29.92	760.0	52	11.1	93	sw.	1	0.4		0	0			0.11	2.8	clear	J. H. Jones.
Fort St. Michaels, Alaska	30.01	762.2	30.04	763.0	37	2.8	100	calm	0	0			fg.			0	0	dense fog	A. P. Leavitt.
Fort Shaw, Montana	26.26	667.0	29.83	757.7	55	12.8	69	w.	2	0.9		6 cs	0	w.		0	0	fair	A. L. Mathews.
Fort Sill, Indian Territory	28.86	733.0	30.06	763.5	64	17.8	93	e.	2	0.9			10 n			0.03	0.8	light rain	T. Cleary.
Fort Smith, Arkansas	29.66	753.4	30.12	765.0	64.5	18.1	84	calm	0	0			10 s		e.	0	0	cloudy	J. B. Campbell.
Fort Stevenson, Dakota	28.00	711.2	29.80	756.9	57	13.9	86	nw.	4	1.8		0	0			0	0	clear	W. Burrows
Fort Verde, Arizona					65	18.3	47	nw.			2	0	0			0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.48	621.8	29.86	758.4	51.1	10.6	69	w.	5	2.2		7 c	1 k	w.		0	0	fair	T. M. Ambler.
Fredericksburg, Texas	28.30	718.8	29.98	761.5	67	19.4	93	calm	0	0			10 s			0.01	0.3	cloudy	H. S. Miles.
Galveston, Texas	29.97	761.2	30.02	762.5	74	23.3	86	se.	12	5.4			10 ks		s.	2.80	71.1	threatening	E. O'C. MacInerney.
Grand Haven, Michigan	29.22	742.2	29.87	758.7	57.5	14.2	72	sw.	24	10.7		5 k	0	sw.		0	0	fair	W. A. Reid.
Hatteras, North Carolina	30.10	764.5	30.12	765.0	70	21.1	57	w.	12	5.4		0	hz.			0	0	clear	R. M. Crawford.
Helena, Montana	25.72	653.3	29.84	757.9	59	15.0	60	sw.	4	1.8		5 cs	0			0	0	fair	S. Wheaton.
Henrietta, Texas	29.11	739.4	30.09	764.3	66.0	18.9	73	e.	2	0.9			9 s			0	0	cloudy	J. W. Byram
Huron, Dakota	28.41	721.6	29.75	755.6	59.7	15.4	84	s.	7	3.1		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.30	744.2	30.08	764.0	63	17.2	65	sw.	4	1.8		0	hz.		calm	0	0	clear	O. Schutze
Indianola, Texas	29.93	760.2	29.96	761.0	74.8	23.8	97	se.	19	8.5			10 n		se.	0.71	18.0	light rain	I. A. Reed.
Jacksboro, Texas	28.92	734.6	30.04	763.0	65	18.3	73	e.	4	1.8			10 ks		e.	inap.	inap.	cloudy	J. P. Sherry.
Jacksonville, Florida	30.18	766.6	30.22	767.6	69	20.6	76	calm	0	0		5 cs	0	nw.		0	0	fair	J. W. Smith.
Keokuk, Iowa	29.40	746.7	30.04	763.0	65.0	18.3	63	sw.	6	2.7		0	0			0	0	clear	F. Z. Gosewisch
Key West, Florida	30.08	764.0	30.10	764.5	84.0	28.9	67	se.	5	2.2		0	4 k		se.	0	0	fair	R. H. Paxton.
Kittyhawk, North Carolina	30.08	764.0	30.10	764.5	67	19.4	55	w.	9	4.0		hz.	0			0	0	clear	E. A. Beals.
Knoxville, Tennessee	29.22	742.2	30.23	767.8	53.3	11.8	96	ne.	2	0.9		2 c	fg.			0	0	dense fog	J. A. Cody.
La Crosse, Wisconsin	29.12	739.6	29.88	758.9	67	19.4	51	w.	5	2.2		0	0			0	0	clear	S. C. Emery.
La Mesilla, New Mexico	26.13	663.7	29.85	758.2	59.3	15.2	86	calm	0	0		0	9 s		s.	0	0	cloudy	N. D. Lane.
Leavenworth, Kansas	29.19	741.4	30.06	763.5	60	15.6	65	calm	0	0		0	0			0	0	clear	A. W. Browne.
Lewiston, Idaho	29.12	739.6	29.94	760.5	63	17.2	56	w.	2	0.9		2 k	0	s.		0	0	clear	W. Bell.
Little Rock, Arkansas	29.83	757.7	30.14	765.5	64	17.8	90	calm	0	0			10 n			0.02	0.5	light rain	W. U. Simmons.
Los Angeles, California	29.62	752.3	30.01	762.2	56.3	13.5	80	n.	4	1.8		4 c	0	calm		0	0	fair	E. F. Kubel.
Louisville, Kentucky	29.57	751.1	30.12	765.0	65	18.3	58	sw.	4	1.8		2 k	sk.			0	0	clear	H. C. Smyth.
Lynchburg, Virginia	29.42	747.3	30.10	764.5	66.0	18.9	58	calm	0	0		0	0			inap.	inap.	clear	W. R. Bushby.
Madison, Wisconsin	28.93	734.8	29.92	760.0	61	16.1	65	w.	11	4.9		0	0			0	0	clear	C. A. Shaw.
Marquette, Michigan	28.94	735.1	29.66	753.4	69	20.6	39	w.	14	6.3		1 k	0	w.		0	0	clear	J. Gilligan.
Memphis, Tennessee	29.83	757.7	30.16	766.1	66	18.9	68	sw.	1	0.4		10 cs	0	w.		0	0	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.17	740.9	29.91	759.7	64	17.8	63	sw.	16	7.2		2 c	0			0	0	clear	W. Line.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles pr hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Mobile, Alabama	30.14	765.5	30.18	766.6	67.5	19.7	87	ne.	5	2.2			10 n		ne.	0.11	2.8	light rain	J. D. Paxton.
Montgomery, Alabama	29.97	761.2	30.20	767.1	65	18.3	78	calm	0	0		hz	0			0	0	dense haze	J. B. McLaughlin.
Moorhead, Minnesota	28.76	730.5	29.74	755.4	58.2	14.6	69	calm	0	0		0	0			0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.09	738.9	30.09	764.3	58.5	14.7	73	s.	1	0.4		3 cs	hz.			0	0	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.65	600.7	29.77	756.1	37.0	2.8	71	nw.	52	23.3		2 ck	5 ks	nw.	nw.	0	0	fair	J. G. Linsley.
Nashville, Tennessee	29.66	753.4	30.18	766.6	62.5	16.9	73	calm	0	0		8 cs	fg.	w.		0	0	fair	L. A. Jesunofsky.
New Haven, Connecticut	29.80	756.9	29.91	759.7	61	16.1	65	sw.	1	0.4		5 c	hz.	nw.		0	0	fair	J. H. Sherman.
New London, Connecticut	29.85	758.2	29.90	759.4	65	18.3	58	sw.	3	1.3		8 c	0			0.49	12.4	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.06	763.5	30.11	764.8	71.8	22.1	88	e.	6	2.7			10 n		e.	0.07	1.8	light rain	L. Dunne.
Newport, Rhode Island	29.84	757.9	29.89	759.2	62.8	17.1	56	sw.	7	3.1		6 c	0	ne.		0.12	3.0	fair	W. McGillivray.
New River, N. Carolina					65	18.3	54	nw.			1	0	0			0	0	clear	C. C. Corbin.
New Shoreham, Rhode I'd	29.88	758.9	29.91	759.7	59.0	15.0	75	w.	15	6.7		2 c	0			0.31	7.9	clear	W. Davis.
New York, New York	29.78	756.4	29.95	760.7	57	13.9	69	sw.	7	3.1		3 cs	0	w		inap.	inap.	clear	J. B. Merrill.
Norfolk, Virginia	30.07	763.8	30.10	764.5	65	18.3	63	sw.	5	2.2		0	0			0	0	clear	J. T. Elker.
North Platte, Nebraska	27.01	686.0	29.81	757.2	59.6	15.3	88	sw.	8	3.6		0	5 s			0	0	fair	E. F. Brady.
Olympia, Washington T'y	29.93	760.2	29.97	761.2	55.0	12.8	93	calm	0	0			10 n		sw.	0.30	7.6	light rain	J. Dascomb.
Omaha, Nebraska	28.83	732.3	29.97	761.2	65.1	18.4	70	sw	14	6.3		0	0			0	0	clear	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.04	763.0	30.06	763.5	31.8	— 0.1	95	nne.	6	2.7		0	5 s		sw.	0	0	fair	P. H. Ray.
Oswego, New York	29.48	748.8	29.80	756.9	62.0	16.7	56	sw.	8	3.6		2 c	0	w.		0	0	clear	S. W. Beall.
Palestine, Texas	29.56	750.8	30.10	764.5	65.5	18.6	84	e.	6	2.7		0	8 ks		se.	0	0	fair	L. M. Pindell.
Pensacola, Florida	30.14	765.5	30.17	766.3	67.3	19.6	84	n.	5	2.2			10 n			0.03	0.8	light rain	M. McGauran.
Philadelphia, Pa.	29.89	759.2	29.99	761.7	64.5	18.1	58	w.	4	1.8		0	hz.			c	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.93	455.4	29.75	755.6	27	— 2.8	67	calm	0	0		1 c	0			0	0	clear	L. M. Dey.
Pioche, Nevada	24.07	611.4	29.87	758.7	51.8	11.0	32	s.	6	2.7		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.22	742.2	30.01	762.2	61.8	16.6	60	sw.	8	3.6		9 ck	0	sw.		0	0	cloudy	J. H. Bryce.
Poplar River, Montana	27.78	705.6						se.			1	0	0			0	0	clear	U. D. Maxwell.
Port Eads, Louisiana	30.11	764.8	30.12	765.0	73.5	23.1	90	e.	16	7.2			10 s			0.07	1.8	cloudy	H. G. Christian.
Port Huron, Michigan	29.18	741.2	29.84	757.9	64.6	18.1	60	sw.	10	4.5		8 c	0	w.		0	0	cloudy	W. O. Bailey.
Portland, Maine	29.73	755.1	29.78	756.4	61.0	16.1	60	sw.	4	1.8		7 c	0	w.		0	0	fair	W. W. Eichelberger.
Portland, Oregon	29.92	760.0	29.99	761.7	55.2	12.9	93	se.	2	0.9			10 n		se.	0.51	13.0	light rain	M. L. Hearne.
Portsmouth, N. Carolina					67	19.4	63	nw.	11	4.9		0	0			0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.81	630.2	29.83	757.7	55	12.8	40	s.	4	1.8		0	0			0	0	clear	J. McN. Wright.
Provincetown, Mass.	29.82	757.4	29.85	758.2	58	14.4	69	sw.	6	2.7		0	2 s			0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.13	765.3	30.14	765.5	75	23.9	79	ne.	13	5.8		6 ck	0	w.		inap.	inap.	fair	W. J. Evans.
Red Bluff, California	29.67	753.6	30.03	762.7	57.7	14.3	66	s.	5	2.2		4 cs	0	sw.		0	0	fair	J. M. Frantz.
Rio Grande City, Texas	29.84	757.9	30.07	763.8	72	22.2	90	nw.	2	0.9			10 s		nw.	0	0	cloudy	P. M. Wilson.
Rochester, New York	29.16	740.7	29.81	757.2	63	17.2	63	sw.	12	5.4		7 c	hz.			0	0	fair	E. W. McGann.
Roseburg, Oregon	29.45	748.0	30.00	762.0	56.5	13.6	86	calm	0	0		0	8 s		sw.	0.18	4.6	cloudy	J. J. Naury.
Sacramento, California	29.97	761.2	30.04	763.0	56.4	13.6	80	se.	4	1.8		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.54	750.3	30.13	765.3	61.1	16.2	84	sw.	6	2.7		1 c	0			0	0	clear	J. H. Webber.
St. Paul, Minnesota	28.92	734.6	29.77	756.1	63.0	17.2	73	sw.	10	4.5		1 ck	0			0	0	clear	P. F. Lyons
St. Vincent, Minnesota	28.95	735.3	29.80	756.9	53	11.7	80	nw.	5	2.2		0	0			0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.62	650.7	29.84	757.9	61	16.1	42	se.	4	1.8		5 k	5 s	w.		inap.	inap.	cloudy	J. Craig.
San Antonio, Texas	29.30	744.2	29.98	761.5	67	19.4	100	n.	6	2.7			10 n		ne.	0.03	0.8	light rain	E. Lane.
San Diego, California	29.91	759.7	29.98	761.5	61.3	16.3	77	ne.	3	1.3		5 k	5 s	ne.	ne.	0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.29	744.0	29.96	761.0	64.2	17.9	58	sw.	15	6.7		0	0			0	0	clear	M. H. Perry.
Sandy Hook, New Jersey	29.91	759.7	29.95	760.7	60.0	15.6	70	w.	11	4.9		8 c	hz.	w.	calm	inap.	inap.	cloudy	B. A. Blundon.
San Francisco, California	30.02	762.5	30.09	764.3	56	13.3	80	w.	6	2.7		0	1s;fg		w.	0.02	0.5	clear	N. Gorom.
Santa Fé, New Mexico	23.28	591.3	29.79	756.7	47	8.3	96	n.	9	4.0		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	30.14	765.5	30.23	767.8	72	22.2	62	sw.	4	1.8		6 c	0			0	0	fair	H. W. Ford.
Shreveport, Louisiana	29.88	758.9	30.10	764.5	64	17.8	84	ne.	3	1.3		2 c	2 s			0	0	fair	E. N. Meekins.
Silver City, New Mexico	24.31	617.5	29.81	757.2	53	11.7	77	nw.	2	0.9		0	4 s		calm	0.39	9.9	fair	J. B. Wallace.
Sitka, Alaska	29.95	760.7	30.01	762.2	43.7	6.5	76	se.	5	2.2			10 ks		se.	inap.	inap	cloudy	J. J. McLean.
Smithville, North Carolina	30.15	765.8	30.19	766.8	68	20.0	51	nw.	6	2.7		0	0			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.95	709.9	29.99	761.7	59	15.0	67	sw.	9	4.0		5 k	0	s.		0	0	fair	D. Moore.
Springfield, Illinois	29.42	747.3	30.09	764.3	65	18.3	60	sw.	3	1.3		0	0			0	0	clear	T. B. Jennings.
Springfield, Massachusetts	29.77	756.1	29.90	759.4	61.6	16.4	60	s.	3	1.3		6 c	0	w.		inap.	inap.	fair	T. S. Outram.
Springfield, Mo.	28.70	729.0	30.16	766.1	61	16.1	72	s.	6	2.7		0	3 ks			0	0	cloudy	J. B. Marbury.
Starkville, Miss.	29.73	755.1	30.20	767.1	66.2	19.0	78	se.	2	0.9		3 cs	6 s		se.	0	0	cloudy	M. J. Wright.
Stockton, Texas	27.02	686.3	29.94	760.5	59.0	15.0	100	calm	0	0		0	0			0.46	11.7	clear	J. O'Dowd.
Thatcher's Island, Mass.	29.78	756.4	29.83	757.7	59.0	15.0	81	w.	5	2.2		0	0			0	0	clear	G. Liebmann
Toledo, Ohio	29.27	743.4	29.95	760.7	66	18.9	59	sw.	13	5.8		3 k	0	sw.		0	0	clear	A. Buell.
Tucson, Arizona	27.51	698.7	29.81	757.2	70	21.1	59	calm	0	0		3 c	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.65	753.1	30.01	762.2	58	14.4	69	n.	4	1.8		3 c	2 s	sw.		0.09	2.3	fair	J. Daly.
Uvalde, Texas	29.05	737.9	29.99	761.7	69	20.6	93	ne.	4	1.8			10 n		ne.	0.24	6.1	light rain	E. C. Imlay.
Vicksburg, Mississippi	29.89	759.2	30.14	765.5	66	18.9	84	se.	4	1.8			10 s			0	0	cloudy	H. P. Brisbane.
Visalia, California	29.64	752.8	30.01	762.2	58	14.4	64	nw.	4	1.8		0	0			0	0	clear	W. L. Seward.
Washington, D. C.	29.94	760.5	30.04	763.0	65.0	18.3	63	sw.	2	0.9		7 cs	0			inap.	inap.	fair	B. M. Purssell.
West Las Animas, Colorado	26.10	662.9	29.88	758.9	52	11.1	100	w.	3	1.3			fg.			0	0	dense fog	F. W. Brandenburg.
Williamsport, Pa.	29.37	746.0	29.97	761.2	53.5	11.9	75	calm	0	0			fg.			0	0	dense fog	B. F. Hough.
Wilmington, N. Carolina	30.11	764.8	30.16	766.1	65	18.3	58	w.	2	0.9		0	0			0	0	clear	A. T. Sherwood.
Winnemucca, Nevada	25.53	648.5	29.79	756.7	50	10.0	48	sw.	8	3.6		0	0			0	0	clear	J. R. Williams.
Yankton, Dakota	28.56	725.4	29.84	757.9	66	18.9	63	sw.	11	4.9		0	0			0	0	clear	J. H. Atfield.
Yuma, Arizona	29.68	753.9	29.82	757.4	63.7	17.6	73	calm	0	0		0	1 s			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.08	560.8			53.5	11.9	79	calm	0	0		5 k	2 s	w.	w.	0.11	2.8	fair	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.08	764.0	30.09	764.3	81	27.2	95	e.				5 k	5 ks	e.	e.	1.20	30.5	cloudy	J. A. Racker.
Buenaventura, U. S. C.	29.97	761.2	30.00	762.0	77	25.0	90	calm	0	0		2 c	0	ne.		0.25	6.3	fair	J. I. Plume.
Havana, Cuba, W. I.	30.06	763.5	30.11	764.8	82	27.8	79	se.	2.4	1.1		2 cs	0			0	0	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.07	763.8	30.08	764.0	83.9	28.8	67	calm	0	0		0	0			0	0	fine	Robert Johnston.
Magua, San Domingo, W. I					72	22.2		e.			4	0	2 ck		e.	0	0		S. M. Pike.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	77	25.0	91	se.			2	4 c	5 k	e.	e.	1.250	31.7		Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.48	748.8	29.94	760.5	77	25.0	89	n.			1	0	8 ks		n.	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							98	ne.			1		10 n		ne.	0.01	0.3	cloudy	Earl Flint.
Santiago de Cuba, W. I.	30.05	763.3	30.08	764.0	80	26.7	70	calm	0	0		0	0			0	0	clear	Robert Mason.
York Factory, B. A.	30.12	765.0	30.18	766.6	41.0	5.0	91	nw.	9	4.0		2 c	0	nw.		0	0	fair	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Alert, S. 32° 06′, E. 29° 44′	29.97	761.2	75.5	24.2	67	calm			0		2							d. clouds.
H. M. S. Alexandra, N. 34° 25′ E. 27° 22′	30.08	764.0	70.5	21.4	82	ssw.			3		2					1	sw.	d. clouds.
H. M. S. Amethyst, S. 21° 45′, W. 39° 01′	30.11	764.8	77	25.0	88	nne.			3-4		4	ssw.				2	nne.	d. clouds.
H. M. S. Bacchante, Corfu, Ionian Island	29.94	760.5	71	21.7	67	nne.			1-2		4	ene.						d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.14	765.5	60	15.6		nw.			2-3		5	wnw.						raining.
H. M. S. Cleopatra, N. 22° 57′, E. 117° 32′	29.79	756.7	76.5	24.7	95	e.			1		fg.							foggy.
H. M. S. Coquette, Port Said, Egypt	30.06	763.5	72	22.2		n.			3		0							blue sky.
H. M. S. Cruiser, Corfu, Ionian Island	29.92	760.0	74	23.3		calm			0		0							blue sky.
H. M. S. Diamond, S. 22° 17′, E. 166° 27′	29.99	761.7	68.5	20.3	77	calm			0		2							d. clouds.
H. M. S. Dido, N. 10° 39′, W. 61° 30′						s.			1									misty.
H. M. Dock-Yard, Bermuda, W. I.	30.03	762.7	71	21.7	71	nnw.			2-3		3	wnw.						d. clouds.
H. M. S. Druid, N. 18° 25′, W. 77° 09′	30.09	764.3	80	26.7	91	ese.			1		6	e.				2	ese.	d. clouds.
H. M. S. Dwarf, S. 25° 16′, W. 57° 45′	29.99	761.7	51.5	10.8	86	sse.			1		4							d. clouds.
H. M. S. Eclipse, S. 10° 24′, E. 46° 15′	29.96	761.0	80	26.7		calm			0		1					3	e.	blue sky.
H. M. S. Emerald, S. 56° 05′ W. 77° 30′	29.62	752.3	44	6.7	100	w.			4							4	w.	overcast.
H. M. S. Euryalus, Bombay, India	29.54	750.3	84	28.9	87	wsw.			1-2		5	sw.						d. clouds.
H. M. S. Espiegle, S. 20° 10′ E. 178° 36′	29.89	759.2	76	24.4	95	calm			0		8					1	e.	d. clouds.
H. M. S. Fantome, N. 9° 58′, W. 82° 33′	29.90	759.4	78	25.6		var.			3		10					1	se.	showery.
H. M. S. Flying Fish, N. 37° 27′, E. 126° 33′	29.81	757.2	66	18.9	78	calm			0		6							misty.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.04	763.0	48.5	9.2	96	ene.			2		0							blue sky.
H. M. S. Garnet, Montevideo, Uruguay	29.94	760.5	48	8.9	77	ssw.			7-8		7							squally.
H. M. S. Inconstant, S. 4° 40′ W. 9° 00′	30.06	763.5	75	23.9	100	se.			4		2	ese.				3	se.	d. clouds.
H. M. S. Iron Duke, N. 34° 41′, E. 135° 12′	29.88	758.9	84	28.9	100	calm			0		0							blue sky.
H. M. S. Kingfisher, Off Perin Island, Panama Bay	29.88	758.9	79	26.1		nw.			1		5							d. clouds.
H. M. S. Lark, S. 10° 16′, E. 161° 37′	29.82	757.4	78.3	25.7		calm			0		2							d. clouds.
H. M. S. Magpie, N. 34° 56′, E. 139° 52′	29.98	761.5	67.5	19.7	79	calm			0		0							blue sky.
H. M. S. Minotaur, N. 36° 00′, W. 6° 01′	30.07	763.8	68	20.0	69	nw.			3		0							misty.
H. M. S. Nelson, S. 41° 17′, E. 174° 48	29.97	761.2	57	13.9	93	se.			3-4		9							raining.
H. M. S. Northampton, Halifax, Nova Scotia	29.76	755.9	44.5	6.9	96	se.			2		9	nnw.						d. clouds.
H. M. S. Orontes, N. 48° 38′ W. 9° 30′	30.00	762.0	56.5	13.6	89	wnw.			5		5	nw.				4	wnw.	squally.
H. M. S. Rambler, S. 6° 34′ E. 12° 18′	29.95	760.7	74	23.3	95	sse.			1		10					3	ssw.	d. clouds.
H. M. S. Rocket, Esquimalt, Vancouver Island	29.92	760.0	51	10.6	93	wsw.			1		9							raining.
H. M. S. Sappho, S. 25° 38′, W. 90° 45′	30.30	769.6	66.5	19.2		e.			4		8	ese.				3	ese.	d. clouds.
H. M. S. Swiftsure, N. 23° 20′, W. 21° 52′	30.20	767.1	70.5	21.4	71	ne.			4		7	nne.				3	nne.	d. clouds.
H. M. S. Sylvia, S. 14° 37′, W. 33° 57′	30.12	765.0	79.1	26.2	89	e.			3-4		2					3	ene.	d. clouds.
H. M. S. Tenedos, N. 47° 34′ W. 52° 41′	29.89	759.2	48	8.9	71	sw.			1		1							blue sky.
H. M. S. Thetis, S. 17° 02′ W. 73° 30	29.95	760.7	62	16.7	71	ese.			3		8					3	se.	d. clouds.
H. M. S. Triumph, Coquimbo, Chili	30.06	763.5	51	10.6	86	calm			0		2	calm						foggy.
H. M. S. Woodlark, Muscat, Arabia	29.37	746.0	100.5	38.1	40	nw.			6-7		0					4-5	nw.	blue sky.
PORTUGUESE NAVAL.																		
Rio Lima, Porto Praya, Cape Verde Islands	30.06	763.5	79.3	26.3	81	ne.			2		3					1		d. clouds.
Tamega, Macao, China	29.78	756.3	83.3	28.5	85	sse.			3		5			3 h'r	3 h'r			
SWEDISH NAVAL.																		
Sago, N. 50° 14′, W. 1° 24′	29.82	757.3	55.8	13.2	92	wsw.			3		2							d. clouds.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	30.12	765.0	70	21.1	85	ne.	5	2.2			10		ne.	0	0			threatening.
Navy Yard, Portsmouth, N. H.	29.80	756.9	60	15.6	60	nw.	2	0.9			0			0	0			clear.
Naval Hospital, Yokohama, Japan*	29.81	757.2	66.5	19.2	79	sw.			1		0			0	0			clear.
Adams, Mare Island, Cal	30.09	764.3	56	13.3	94	sw.			2		0							clear.
Alaska, Callao, Peru	29.98	761.5	65	18.3	94	calm			0		8			0	0	sm'h		fair.
Alert, N. 33° 39′, E. 136° 24′	29.87	758.7	74	23.3	62	ssw.			2		2		calm	0	0	sm'h		hazy.
Alliance, Hampton Roads, Va	30.04	763.0	64	17.8	73	w.			2		0			0	0	sm'h		clear.
Ashuelot, N. 33° 37′, E. 136° 24′	29.94	760.5	71	21.7	75	sw.			3		2		calm					clear.
Brooklyn, Rio de Janeiro, Brazil	30.04	763.0	79	26.1	74	nw.	4	1.8			8		nw.	0	0	sm'h		fair.
Colorado, New York, N. Y.	29.93	760.2	67	19.4	84	w.	5	2.2			2?		w.	0	0			cloudy?
Enterprise, Norfolk, Va*	30.07	763.8	61	16.1	94	sw.			2		0							clear.
Essex, Montevideo, Uruguay	29.94	760.5	50	10.0	86	sw.			7		8		sw.			r'gh	sw.	overcast.
Franklin, Norfolk, Va	30.10	764.5	64	17.8	73	sw.	5	2.2			0			0	0			clear.
Galena, N. 34° 17′, E. 21° 27′	30.04	763.0	75	23.9	86	nw.			1		0					sm'h		clear.
Independence, Navy Yard, Mare Island, Cal	30.10	764.5	56	13.3	100	wsw.			3		0			0	0			hazy.
Iroquois, San Francisco, Cal*†	30.00	762.0	59	15.0	82	wsw.			3		2							clear.
Kearsarge, Hampton Roads, Va	30.09	764.3	65	18.3	78	wsw.			1		0					sm'h		clear.
Lackawanna, S. 2° 27′ W. 81° 18′*	29.98	761.5	69	20.6	80	ssw.			4		5?		ssw.			mod.	sw.	clear.?
Lancaster, N. 36° 33′, W. 6° 26′*	30.00	762.0	70	21.1	85	n.			3		0			0	0	sm'h		clear.
Marion, S. 34° 54′, W. 56° 13′	29.88	758.9	50	10.0	93	ssw.			7		10		ssw.	light	light	r'gh	ssw.	cloudy.
Michigan, Erie, Pa	29.84	757.9	64	17.8	58	sw.			4		0							clear.
Minnesota, Newport, R. I.	29.94	760.5	62	16.7	77	w.					5		nw.					
Monocacy, Nagasaki, Japan	29.94	760.5	70	21.1	80	wsw.	5	2.2			2		n.					fair.
New Hampshire, Newport, R. I.	29.86	758.4	62	16.7	100	sw.			1		2					sm'h		clear.
Nipsic, Messina, Sicily	29.98	761.5	73	22.8	67	ssw.			2		8					sm'h		cloudy.
Onward, Callao, Peru†	30.13	765.3	59	15.0	100				4		10		n.			long	w.	cloudy.
Palos, Kobe, Japan	29.97	761.2	67	19.4	74	calm			0		2		calm					fair.
Passaic, Washington, D. C.	30.05	763.3	60	15.6	82	sw.			1		8							fair.
Pensacola, Callao, Peru	30.06	763.5	60	15.6	94	wsw.	2	0.9			10			0	0	sm'h		cloudy.
Powhatan, Norfolk, Va	30.08	764.0	64	17.8	68	w.			1		0							clear.
Portsmouth, Portsmouth, Eng*†	30.02	762.5	62	16.7	100	wsw.			4		8					sm'h		cloudy.
Quinnebaug, N. 3° 17′, W. 17° 21′	30.14	765.5	68	20.0	84	ne.			6		10		ne.			mod.	ne	squally.
Ranger, N. 34° 26′, W. 120° 30′*	29.95	760.7	59	15.0	76	wnw.			6		2		nw.	0	0	mod.	w.	hazy.
Richmond, Kobe, Japan*	29.90	759.4	69	20.6	70	calm			0?		8							raining.?
Saratoga, Cowes, Eng	29.77	756.1	60	15.6	71	wsw.			2-3		8		sw.	0	0	sm'h	sw.	cloudy.
St. Louis, League Island, Pa	30.20	767.1	62	16.7	66	wsw.	5	2.2			2		nw.	0	0			clear.
Swatara, Nagasaki, Japan*	29.77	756.1	71	21.7	71	calm			0		0					sm'h		clear.
Tennessee, Fort Monroe, Va	30.11	764.8	66	18.9	89	w.	10	4.5			0			0	0			clear.
Vandalia, Norfolk Va*	30.06	763.5	61	16.1	77	wnw.			1		0							clear.
Wabash, Boston, Mass	29.85	758.2	66	18.9	54	w.	6	2.7			2		w.	0	0			fair.
Wachusetts, Fort Wrangle, Alaska	29.86	758.4	47	8.3	85	w.			2		8					sm'h		fair.
Wyoming, Port Royal, S. C.	30.21	767.3	68	20.0	74	nw.	4	1.8			5		w.	0	0			fair.
Yantic, Hampton Roads, Va	30.07	763.8	64	17.8	73	wsw.			2		2							clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Nova Scotian, N. 48° 44′ W. 48° 54′	29.72	754.9	38	3.3	.....	w.	.....	.....	4	.....	10	.....	w	.....	.....	mod.	wnw.	cloudy.
S. S. Prussian, N. 46° 12′ W. 54° 33′*	29.76	755.9	44	6.7	.....	w.	.....	.....	1	.....	1	.....	wsw.	0	0	light	wnw.	foggy.
S. S. Scandinavian, N. 42° 36′, W. 66° 58′*	29.77	756.1	46	7.8	.....	ssw.	.....	.....	3	.....	0	.....	.....	0	0	light	ssw.	blue sky.
S. S. Waldensian, Glascow, Scotland*	29.67	753.6	.....	.....	.....	ssw.	.....	.....	6	.....	8	.....	wsw.	1 h'r	1 h'r	.....	.....	showery.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, Liverpool, Eng	29.64	752.8	61	16.1	88	w.	.....	.....	7	.....	2	.....	w.	.....	.....	.....	.....	clear
S. S. Indiana, N. 39° 52′, W. 55° 02′†	30.06	763.5	64	17.8	89	e.	.....	.....	2	.....	10	.....	e.	.....	.....	sm'h	s.	rainy.
S. S. Lord Clive, Liverpool, England*†	29.62	752.3	.....	.....	.....	sw.	.....	.....	4	.....	5?	.....	sw.	5 h'r	5 h'r	.....	.....	cloudy.?
ANCHOR LINE.																		
S. S. Bolivia, N. 40° 54′, W. 51° 19′†	29.79	756.7	65	18.3	.....	s.	.....	.....	2	.....	.....	.....	.....	6 h'r	6 h'r	sm'h	.....	overcast.
S. S. Ethiopa, N. 49° 38′, W. 31° 50′	29.73	755.1	53	11.7	?	wsw.	.....	.....	5	.....	10	.....	wsw.	8 h'r	8 h'r	h'vy	w.	overcast.
S. S. India, N. 35° 41′, E. 21° 13′*	29.91	759.7	74	23.3	90	ssw.	.....	.....	2	.....	1	.....	.....	.....	.....	sm'h	.....	clear.
S. S. Utopia, Messina, Sicily†	30.22	767.6	83	28.3	52	s.	.....	.....	3	.....	4	.....	s.	0	0	.....	.....	fair.
ATLAS LINE.																		
S. S. Ailsa, Cartagena, U. S. C†	29.97	761.2	85	29.4	79	n.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	fair.
S. S. Alvena, Kingston, Jamaica†	29.96	761.0	81	27.2	66	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	fine.
S. S. Alvo, N. 11° 00′, W. 75° 02′	30.01	762.2	110?	43.3?	.....	.....	.....	.....	3	.....	1	.....	w.	0	0	.....	.....	clear.
S. S. Antillas, N. 2° 0 10′ W. 73° 40′	.....	.....	.....	.....	.....	ne.	.....	.....	2	.....	.....	.....	.....	0	0	sm'h	ne.	fine.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 38° 30′ E. 47° 06′	30.01	762.2	56	13.3	80	ssw.	.....	.....	1	.....	7	.....	.....	.....	.....	.....	.....	d. clouds.
S. Baroda, N. 9° 16′, E. 92° 27′	29.71	754.6	82.5	28.1	85	sw.	.....	.....	5	.....	7	.....	.....	.....	.....	.....	.....	d. clouds.
British Merchant, N. 3° 08′, W. 25° 24′	30.05	763.3	76	24.4	86	sse.	.....	.....	3	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Cipero, N. 32° 32′, W 39° 59′	30.38	771.6	75	23.9	81	ssw.	.....	.....	2	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
Bk. Commewyne, N. 8° 25′, W. 51° 31′	30.05	763.3	82	27.8	83	ne.	.....	.....	4	.....	8	.....	.....	.....	.....	.....	.....	showery.
S. S. Glencairn, S. 24° 30′, E. 6° 20′	30.25	768.3	68	20.0	84	ssw.	.....	.....	4-5	.....	7	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Gordon Castle, N. 7° 55′, E. 109° 13′	29.76	755.9	84.5	29.2	81	ssw.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	.....	squally.
Bkt. Hope, N. 49° 45′, W. 11° 06′	30.02	762.5	56.2	13.4	87	nw.	.....	.....	5	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
Bkt. May Hulse, S. 54° 08′, W. 81° 34′	29.70	754.4	43.7	6.5	96	nw.	.....	.....	3	.....	10	.....	.....	.....	.....	.....	.....	drizzling.
S. S. Minho, off Rio de Janeiro, Brazil	30.04	763.0	81.8	27.7	60	ne.	.....	.....	5	.....	8	.....	.....	.....	.....	.....	.....	d. clouds.
CUNARD LINE.																		
S. S. Bothnia, N. 49° 26′, W. 24° 31′	29.99	761.7	57	13.9	75	sw.	.....	.....	5	.....	10	.....	.....	0	0	.....	sw.	overcast
S. S. Marathon, N. 42° 28′, W. 48° 35′	29.92	760.0	54	12.2	.....	ne.	.....	.....	2	.....	10	.....	.....	4 h'r	4 h'r	r'gh	sw.	dense fog.
GENERAL TRANS-ATLANTIC COMPANY																		
S. S. Ville de Marseilles, N. 41° 36′, W. 43° 04′*†	30.05	763.3	64	17.8	.....	wsw.	.....	.....	6	.....	3	.....	sw.	8 h'r	8 h'r	long	wsw.	misty.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 49° 46′, W. 9° 02′*†	29.95	760.7	.....	.....	.....	w.	.....	.....	6	.....	4	.....	wnw.	0	0	long	w.	fine.
S. S. Cimbria, N. 42° 01′, W. 50° 25′	29.92	760.0	47	8.3	.....	ene.	.....	.....	5	.....	10	.....	.....	1 h'r	1 h'r	mod.	ene.	foggy.
S. S. Herder, N. 41° 11′, W. 36° 42 *†	30.08	764.0	73	22.8	.....	sw.	.....	.....	4	.....	4	.....	sw.	4 h'r	4 h'r	mod.	wsw.	drizzling.
S. S. Lessing, Hamburg, Germany	29.74	755.3	60	15.6	.....	sw.	.....	.....	4	.....	10	.....	sw.	0	0	.....	.....	covered
S. S. Wieland, N. 47° 35′, W. 25° 55′	30.15	765.8	61	16.1	.....	ssw.	.....	.....	5	.....	8	.....	sw.	0	0	5	sw.	stormy.
INMAN LINE.																		
S. S. City of Berlin, N. 43° —′, W. 44° —′	30.00	762.0	.....	.....	.....	sw.	.....	.....	1	.....	10	.....	ssw.	h'vy	h'vy	mod.	sw.	overcast.
JOHNSTON LINE.																		
S. S. Thanemore, N. 50° 29′ W. 12° 29′	29.98	761.5	.....	.....	.....	wnw.	.....	.....	5	.....	5	.....	wnw.	sh's	sh's	mod.	w.	fair.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, N. 46° 20′ W. 7° 30′.*†	30.21	767.3	64	17.8	.....	nw.	.....	.....	4	.....	3	.....	nw.	0	0	long	nw.	clear.
MALLORY LINE.																		
S. S. Colorado, New York, N. Y†	29.88	758.9	63	17.2	.....	w.	.....	.....	2	.....	0	.....	.....	½ h'r	½ h'r	.....	.....	clear.
MERCHANT STEAMSHIP COMPANY.																		
S. S. Glenfyne, N. 3° 23′, W. 46° 00′	29.59	751.6	.....	.....	.....	e.	.....	.....	7	.....	.....	.....	e.	0	0	mod.	e.	fine.
S. S. Glenapp, S. 23° 25′, W. 43° 50′*†	30.00	762.0	.....	.....	.....	var.	.....	.....	1	.....	0	.....	.....	0	0	light	ese.	clear.
NATIONAL LINE.																		
S. S. Denmark, New York, N. Y	29.94	760.5	57	13.9	.....	ssw.	.....	.....	3	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Holland, N. 43° 40′, W. 41° 39′	30.02	762.5	60	15.6	.....	ene.	.....	.....	2	.....	10	.....	.....	8 h'r	8 h'r	mod.	sw.	hazy.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, St. Jago, Cuba, W. I†	30.12	765.0	85	29.4	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	hazy.
S. S. Saratoga, Havana, Cuba, W. I.†	30.30	769.6	79	26.1	86	ne.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	.....
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, Havana, Cuba, W.I*†	30.18	766.6	79	26.1	86	e.	.....	.....	1	.....	4	.....	ne.	0	0	.....	.....	fine.
S. S. City of Washington, Vera Cruz, Mexice*†	30.00	762.0	81	27.2	.....	se.	.....	.....	1	.....	10	.....	se.	light	light	.....	.....	cloudy.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Maas, N. 44° 21′, W. 38° 50′*†	30.04	763.0	62	16.7	.....	ssw.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	sw.	foggy.
NORTH GERMAN LLOYD.																		
S. S. Elbe, Bremerhaven, Germany	29.70	754.3	65.3	18.5	95	sw.	.....	.....	4	.....	10	.....	sw.	0	0	.....	.....	covered.
S. S. Graf Bismark, N. 28° 35′, W. 16° 06′	30.16	766.1	76.1	24.5	.....	ne.	.....	.....	3-6	.....	5	.....	ne.	.....	.....	high	ne.	fair.
S. S. Habsburg, N. 40° 15′, W. 69° 54′	29.94	760.5	52.7	11.5	.....	wsw.	.....	.....	3	.....	2	.....	wsw.	0	0	sm'h	.....	fair.
S. S. Hohenzollern, N. 51° 44′, E. 2° 25′*	29.77	756.1	62	16.7	.....	nw.	.....	.....	3	.....	5?	.....	w.	0	0	2	w.	clear ?
S. S. Oder, N. 48° 01′, W. 26° 18′	30.09	764.3	65.3	18.5	.....	sw.	.....	.....	6	.....	10	.....	wsw.	0	0	mod.	.....	hazy.
S. S. Ohio, N. 40° 55′ W. 44° 05′	30.13	765.3	.....	.....	.....	ssw.	.....	.....	5	.....	6	.....	wsw.	2½ h'r	2½ h'r	mod.	sw.	fair.
S. S. Rhein, N. 52° 15′, E. 3° 07′	29.69	754.1	.....	.....	.....	w.	.....	.....	2	.....	3	.....	w.	0	0	mod.	w.	clear.
S. S. Salier, Bremerhaven, Germany.	29.63	752.6	57.2	14.0	.....	wnw.	.....	.....	5	.....	8	.....	nw.	1 h'r	1 h'r	.....	.....	cloudy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 35° 24′, E. 159° 35′*†	30.02	762.5	68	20.0	100	s.	.....	.....	2-3	.....	10	.....	w.	0	0	sm'h	.....	foggy.
S. S. Belgic, N. 33° 17′, E. 136° 09′†	30.08	764.0	74	23.3	68	s.	.....	.....	2	.....	5	.....	se.	0	0	sm'h	.....	fair.
S. S. Gaelic, Hong Kong, China†	29.67	753.6	83	28.3	83	se.	.....	.....	1	.....	2?	.....	s.	.....	.....	.....	.....	cloudy.?
S. S. Oceanic, N. 39° 16′, W. 124° 50 *	30.05	763.3	57	13.9	74	wsw.	.....	.....	3	.....	7	.....	sw.	.....	.....	3	wnw.	cloudy.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga†	30.21	767.3	.....	.....	.....	w.	.....	.....	1	.....	4	.....	sw.	0	0	.....	.....	clear.
S. S. City of Columbus, Savannah, Ga.†	30.15	765.8	.....	.....	.....	nw.	.....	.....	2	.....	1	.....	nw.	.....	.....	.....	.....	clear.
S. S. Seminole, Boston, Mass†	29.82	757.4	60	15.6	55	w.	.....	.....	4	.....	1	.....	nw.	.....	.....	.....	.....	clear.
OREGON IMPROVEMENT COMPANY.																		
S. S. Willametta, N. 46° 30′, W. 124° 22′†	29.98	761.5	56	13.3	81	s.	.....	.....	6	.....	6?	.....	s.	0	0	mod.	s.	cloudy.?
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Columbia, N. 40° 59′ W. 124° 31′†	30.01	762.2	55.5	13.1	84	sw.	.....	.....	3	.....	8	.....	ssw.	.....	.....	light	w.	cloudy.
S. S. Oregon, Portland, Oregon†	29.91	759.7	50	10.0	93	se.	.....	.....	1	.....	10	.....	sw.	.....	.....	.....	.....	raining.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 34° 04′ W. 119° 21′†	29.94	760.5	57	13.9	94	se.	.....	.....	1	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
S. S. Dakota, Seattle, Wash. Ter.*†	29.98	761.5	57	13.9	81	w.	.....	.....	1	.....	2	.....	w.	.....	.....	sm'h	.....	clear.
S. S. Idaho, Columbia River, Oregon†	30.16	766.1	54	12.2	80	e.	.....	.....	2	.....	10	.....	e.	.....	.....	sm'h	.....	cloudy.
S. S. State of California, San Francisco, Cal.†	30.09	764.3	54	12.2	87	wsw.	.....	.....	2	.....	4	.....	sw.	.....	.....	.....	.....	fair.
S. S. Victoria, San Francisco, Cal. †	29.94	760.5	55	12.8	100	calm	.....	.....	0	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, N. 32° 29′, W. 136° 18′	30.23	767.8	62	16.7	72	wnw.	.....	.....	3	.....	10	.....	.....	0	0	mod.	nw.	clear.
S. S. City of New York, N. 25° —′, W. 151° —′†	30.21	767.3	74	23.3	100	e.	.....	.....	4	.....	1	.....	e.	0	0	mod.	e.	clear.
S. S. City of Pekin, N. 34° 02′, E. 137° 26′†	29.98	761.5	73	22.8	95	ssw.	.....	.....	4	.....	2	.....	sw.	0	0	sm'h	.....	clear.
S. S. City of Rio de Janeiro, N. 8° 34′, W. 79° 30′*†	30.14	765.5	81	27.2	87	nnw.	.....	.....	2	.....	5	.....	n.	0	0	sm'h	.....	fair.
S. S. City of Sydney, Sydney, N. S. W.†	30.04	763.0	60	15.6	76	sw.	.....	.....	4	.....	10	.....	w.	½ h'r	½ h'r	sm'h	.....	raining.
S. S. City of Tokio, N. 41° 26′, E. 160° 25′†	29.96	761.0	51	10.6	79	ese.	.....	.....	3	.....	10	.....	ese.	20 h'r	20 h'r	mod.	se.	raining.
S. S. Clyde, N. 14° 48′, W. 92° 30′†	29.93	760.2	82	27.8	68	ne.	.....	.....	1	.....	2	.....	ene.	0	0	mod.	sw.	clear.
S. S. Colima, Acapulco, Mexico†	29.96	761.0	76	24.4	91	ene.	.....	.....	3	.....	10	.....	se.	0.25	6.3	.....	.....	raining.
S. S. Colon, N. 11° 35′, W. 78° 17′†	29.97	761.2	82	27.8	.....	nne.	.....	.....	3	.....	9	.....	ne.	0	0	mod.	nne.	cloudy.
S. S. Grenada, N. 28° 11′ W. 116° 19′.†	30.01	762.2	61	16.1	94	n.	.....	.....	3	.....	8?	.....	n.	0	0	mod.	nnw.	clear.?
S. S. Zealandia, Sydney, N. S. W	30.12	765.0	58	14.4	76	se.	.....	.....	7	.....	10	.....	se.	.....	.....	sm'h	.....	squally.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
QUEBEC STEAMSHIP CO.																		
S. S. Muriel, St. Kitts, W. I.	30.06	763.5	84	28.9	.....	ene.	.....	.....	4	.....	2	.....	.....	light	light	sm'h	.....	fair.
S. S. Bermuda, Roseau, Dominica, W. I†	30.11	764.8	82	27.8	.....	ese.	.....	.....	.....	.....	6	.....	ese.	rain	rain	h'vy	ese.	cloudy.
RED STAR LINE.																		
S. S. Nederland, N. 49° 05′, W. 11° 37′†	30.12	765.0	60	15.6	.....	w.	.....	.....	3	.....	2	.....	w.	shr's	shr's	mod.	w.	fair.
S. S. Rhynland, Jersey City, N. J.	29.92	760.0	64	17.8	78	w.	.....	.....	2	.....	2	.....	w.	.....	.....	.....	.....	clear.
S. S. Vaderland, N. 49° 05′, W. 16° 52′	29.96	761.0	60	15.6	71	w.	.....	.....	5	.....	10	.....	w.	6 h'r	6 h'r	r'gh	w.	overcast.
ROTTERDAM LINE.																		
S. S. W. A. Scholten, New York, N. Y.	29.79	756.7	68	20.0	94	sw.	.....	.....	3	.....	6	.....	sw.	0	0	.....	.....	
STATE LINE.																		
S. S. State of Florida, Glasgow, Scotland	29.41	747.0	63	17.2	.....	wnw.	.....	.....	6	.....	4	.....	wnw.	2 h'r	2 h'r	.....	.....	fair.
S. S. State of Georgia, N. 44° 49′ W. 39° 53′†	30.07	763.8	62	16.7	.....	w.	.....	.....	5	.....	8	.....	w.	.....	.....	sll't	sw.	fair.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 54° 40′, W. 28° 06′†	29.90	759.4	51.8	11.0	65	wsw.	.....	.....	5	.....	3	.....	wsw.	3 h'r	3 h'r	r'gh	wsw.	covered.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 40° 20′, W. 65° 26′	29.94	760.5	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	2 h'r	2 h'r	.....	.....	
WHITE STAR LINE.																		
S. S. Adriatic, N. 41° 18′, W. 60° 50†′	29.96	761.0	60	15.6	94	nnw.	.....	.....	3	.....	8	.....	sw.	0	0	sm'h	.....	d. clouds.
S. S. Baltic, N. 42° 58′ W. 43° 52′†	30.09	764.3	66	18.9	94	sw.	.....	.....	4	.....	10	.....	sw.	2 h'r	2 h'r	mod.	sw.	misty.
S. S. Celtic, N. 42° 12′, W. 48° 42′†	29.91	759.7	53	11.7	73	ne.	.....	.....	3	.....	10	.....	ne.	4 h'r	4 h'r	sm'h	.....	hazy.
WILSON LINE.																		
S. S. Romano, N. 47° 49′, W. 22° 03′	30.12	765.0	58	14.4	.....	wsw.	.....	.....	.....	.....	7	.....	.....	0	0	mod.	w.	cloudy.
MISCELLANEOUS.																		
Bg. Abbe Clifford, Orchilla Id., Carribbean Sea*†	30.06	763.5	81	27.2	.....	ene.	.....	.....	3	.....	1	.....	ene.	0	0	sm'h	.....	
Schr. Addie Fuller, Newport News, Va†	30.14	765.5	65	18.3	52	calm	.....	.....	0	0	0	.....	.....	0	0	.....	.....	clear.
Bk. Adelaide, N. 31° 04′, W. 71° 14′*†	30.24	768.1	73	22.8	.....	nnw.	.....	.....	4	.....	0	.....	.....	0	0	mod	nw.	clear.
Schr. Ajax, Blackwater, Fla†	30.28	769.1	.....	.....	.....	ne.	.....	.....	1	.....	10	.....	e.	.....	.....	.....	.....	drizzling.
Bk. Alpha, Off Cape Maysi, Cuba, W. I†	30.02	762.5	84	28.9	.....	se.	.....	.....	3	.....	5	.....	se.	0	0	mod.	e.	squally.
Schr Annie Lewis, Mobile, Ala†	30.20	768.6	69	20.6	.....	n.	.....	.....	3	.....	10	.....	n.	4 h'r	4 h'r	.....	.....	misty.
Bk. Anna Thormann, S. 6° 28′ W. 33° 40′	30.11	764.7	77.9	25.5	88	ese.	.....	.....	5	.....	10 n	.....	se.	4 h'r	4 h'r	r'gh	se.	squally.
S. S. Antonio Lopez, Santander, Spain	30.09	764.3	67	19.4	64	nw.	.....	.....	5	.....	6 n	.....	.....	sq'lls	sq'lls	.....	.....	squally.
Schr. Asa Eldridge, Off Cape Roman, Fla†	30.13	765.3	.....	.....	.....	ne.	.....	.....	3	.....	2	.....	ne.	0	0	sm'h	.....	fair.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.16	766.1	86	30.0	.....	w.	.....	.....	2	.....	8	.....	nw.	0	0	.....	.....	cloudy.
Schr. Annie M. Smull, N. 15° 28′. E. 114° 14′*†	29.80	756.9	.....	.....	.....	ese.	.....	.....	.....	.....	.....	.....	ese.	0	0	.....	.....	clear.
Bk. Bergenseren. N. 40° 58′, W. 40° 15′†	30.16	766.1	66	18.9	.....	sw.	.....	.....	4	.....	.....	.....	sw.	0	0	5	w.	hazy.
Bk. Bremen, N. 48° 28′, W. 13° 16′	.....	.....	.....	.....	.....	wnw.	.....	.....	6	.....	8	.....	wnw.	rain	rain	long	wnw.	hazy.
Schr. C. R. Flint, N. 22° 26′ W. 96° 51′†	30.08	764.0	80	26.7	.....	nw.	.....	.....	2	.....	5	.....	w.	4 h'r	4 h'r	mod.	se.	fair.
Schr. Edith R. Seward, Baltimore, Md*†	30.01	762.2	69	20.6	.....	w.	.....	.....	1	.....	1	.....	.....	0	0	.....	.....	clear.
S. E. J. Spicer, N. 47° 25′, W. 21° 45′†	30.27	768.8	.....	.....	.....	wnw.	.....	.....	5	.....	5	.....	nnw.	sqll's	sqll's	long	nnw.	
Bk. Essex, N. 13° 56′ W. 33° 17′*†	30.11	764.8	78	25.6	.....	e.	.....	.....	5	.....	5?	.....	e.	0	0	long	ene.	cloudy.?
S. Exporter, S. 39° 00′, E. 52° 00′*†	29.90	759.4	.....	.....	.....	nnw.	.....	.....	4	.....	6	.....	nw.	6 h'r	6 h'r	cross	.....	
Bk. Freya, N. 47° 09′ W. 23° 56′	.....	.....	57	13.9	.....	sw.	.....	.....	5	.....	10	.....	w.	3 h'r	3 h'r	high	w.	cloudy.
Bk. Godfrey, N. 51° 07′, W. 11° 25′	29.92	760.0	55.6	13.1	90	wnw.	.....	.....	4–5	.....	6	.....	wnw.	.....	.....	long	w.	showery.
S. Grecian, N. 9° 00′ E. 109° 38′*†	29.80	756.9	81	27.2	.....	wnw.	.....	.....	5	.....	9	.....	sw.	sqll's	sqll's	sm'h	.....	fair.
Bk. Hattie G. McFarland, Sydney, Cape Breton*†	29.80	756.9	42	5.6	.....	calm	.....	.....	0	.....	10	.....	n.	0	0	.....	.....	cloudy.
S. Hedwig, N. 38° 24′, W. 62° 19′	29.90	759.4	64.8	18.2	88	n.	.....	.....	4	.....	7	.....	nne.	½ h'r	½ h'r	long	sw.	showery.
Bk. Horace Scudder, N. 35° 06′, W. 75° 38′†	30.09	764.3	68	20.0	.....	w.	.....	.....	1	.....	0	.....	.....	0	0	light	s.	clear.
S. Ismir, S. 15° 30′, W. 36° 08′†	30.12	765.0	.....	.....	.....	ese.	.....	.....	4	.....	5	.....	ese.	.....	.....	r'gh	se.	fine.
Schr. James Slater, N. 23° 05′ W. 46° 50′*†	30.51	774.9	80	26.7	.....	ese.	.....	.....	3	.....	2	.....	ese.	0	0	mod.	se.	
Schr. Jennie N. Huddle, New York, N. Y.†	30.05	763.3	66	18.9	78	nw.	.....	.....	3	.....	.....	.....	.....	0	0	.....	.....	clear.
Schr. John L. Thomas, Albuquerque Id's, C. A*†	30.00	762.0	.....	.....	.....	ene.	.....	.....	6	.....	4	.....	ese.	0	0	.....	.....	fair.
Bkt. Josephine, N. 22° 57′ W. 74° 25′†	30.28	769.1	84	28.9	79	e.	.....	.....	4	.....	1	.....	e.	0	0	sm'h	.....	clear.
Bk. Julia H., Havana, Cuba, W. I	30.10	764.5	78.3	25.7	84	ese.	.....	.....	2	.....	1	.....	.....	.....	.....	.....	.....	misty.
Light House Tender, Laurel, Key West, Fla†	30.15	765.8	85	29.4	.....	ese.	.....	.....	2	.....	8	.....	se.	0	0	.....	.....	cloudy.
S. Minnie N. Gerow, N. 41° 32′, W. 45° 48′*†	30.00	762.0	.....	.....	.....	ssw.	.....	.....	5	.....	10	.....	ssw.	.....	.....	long	w.	raining.
S. M. P. Grace, N. 31° 55′, W. 43° 35′*	30.28	769.1	74	23.3	.....	sse.	.....	.....	3	.....	.....	.....	sse.	0	0	sm'h	se.	
S. S. Nebo, St. John's, N. B*†	30.14	765.5	.....	.....	.....	s.	.....	.....	4	.....	2	.....	w.	0	0	.....	.....	clear.
S. Paramita, S. 44° 58′ W. 50° 50′†	29.68	753.9	49	9.4	.....	sw.	.....	.....	2	.....	4	.....	sw.	0	0	sm'h	.....	clear.
Bk. Pawashick, N. 46° 30′, W. 7° 39′*†	30.25	768.3	64	17.8	89	wnw.	.....	.....	5	.....	5	.....	nw.	.....	.....	mod	nw.	showery.
Bk. Peppina, N. 45° 56′, W. 1° 37′†	29.97	761.2	61	16.1	77	w.	.....	.....	5	.....	2	.....	w.	0	0	long	nw.	fair.
S. S. Ponca, Pernambuco, Brazil†	30.03	762.7	87	30.6	.....	ssw.	.....	.....	1	.....	10	.....	se.	light	light	.....	.....	cloudy.
Bg. Potomac, N. 31° 27′, W. 60° 26′*†	30.05	763.3	.....	.....	.....	wsw.	.....	.....	3	.....	.....	.....	nw.	0	0	hv'y	w.	cloudy.
Bk. Princessen, N. 56° 07′, E. 5° 22′†	29.62	752.3	56	13.3	.....	s.	.....	.....	1	.....	10	.....	.....	2 h'r	2 h'r	sm'h	.....	foggy.
Bk. Rosebud, S. 6° 56′, W. 29° 00*†	30.10	764.5	81	27.2	78	sse.	.....	.....	5	.....	.....	.....	se.	0	0	sm'h	.....	clear.
S. Salisbury, S. 40° 03′ E. 58° 04′*	29.72	754.9	57.4	14.1	90	se.	.....	.....	5	.....	5	.....	se.	2 h'r	2 h'r	cross	var.	fair.
Bk. Stella, N. 18° 24′, W. 146° 37′*	29.96	761.0	70.3	21.3	92	ne.	.....	.....	5	.....	7	.....	ne.	shr's	shr's	mod.	ne.	
Bg. Teneriffe, N. 30° 42′, W. 70° 54′	30.13	765.3	.....	.....	.....	n.	.....	.....	3	.....	0	.....	.....	0	0	mod	.....	clear.
Bk. Truro, Havre, France*†	29.84	757.9	.....	.....	.....	wnw.	.....	.....	4	.....	1	.....	wnw	4 h'r	4 h'r	.....	.....	fine
U.S.F.C.S.S. Fish Hawk, Havre de Grace, Md†	30.22	767.6	69	20.6	90	w.	.....	.....	1	.....	5	.....	calm	0	0	.....	.....	fair.
S. S. Victoria J Peed, Salamanca Id, U. S. C.	.....	.....	.....	.....	.....	ne.	.....	.....	3	.....	3	.....	.....	.....	.....	.....	.....	
Bk. Vincenzo Accame N. 37° 50′, W. 47° —†.	30.35	771.0	75.2	24.0	.....	ssw.	.....	.....	5	.....	.....	.....	.....	.....	.....	.....	.....	
Schr Viola Reppard, Brunswick, Ga†	30.03	762.7	74	23.3	.....	nw.	.....	.....	1	.....	5	.....	nw.	0	0	.....	.....	fair.
S. Warden Law, N. 39° 45′ W 60° 20′*	30.10	764.5	.....	.....	.....	wsw.	.....	.....	4	.....	0	.....	.....	0	0	sm'h	sw.	fair.
Bk. Wm. Wilcox, N. 5° 40′ W. 26° 20′*†	30.20	767.1	80	26.7	.....	n.	.....	.....	1	.....	5	.....	calm	2 h'r	2 h'r	mod.	s.	fair.

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

UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 8, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	29.99	761.7	73.4	23.0	74	e.	.....	.....	5	.....	1	.....	.....	0	0	very fair	Moiroud
Algiers	.....	.....	29.99	761.7	74.8	23.8	63	nne.	.....	.....	3	.....	1	.....	.....	0	0	very fair	Nicolas.
La Galle	.....	.....	29.93	760.2	69.8	21.0	89	n.	.....	.....	1	.....	3	.....	.....	0	0	pretty fair	Fonfrède.
Tunis	.....	.....	29.95	760.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.09	764.2	78.8	26.0	45	se.	.....	.....	2	.....	1	.....	.....	0	0	very fair	Perés.
Tebessa	.....	.....	30.06	763.5	90.3	32.4	11	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Derché.
Geriville	.....	.....	.....	.....	77.7	25.4	39	n.	.....	.....	4	.....	0	.....	.....	0	0	clear	Louchamp.
Laghouat	.....	.....	30.10	764.6	84.9	29.4	35	e.	.....	.....	1	.....	0	.....	.....	0	0	clear	Abraham.
Biskra	.....	.....	30.09	764.2	86.7	30.4	30	nw.	.....	.....	7	.....	0	.....	.....	0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	30.21	767.3	30.30	769.6	44.1	6.7	90	ssw.	1	0.4	.....	.....	10	.....	.....	0	0	dense fog	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.19	741.3	29.71	754.5	77.5	25.3	46	sw.	.....	.....	1	.....	4	.....	.....	0.122	3.1	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	28.93	734.9	29.65	753.2	80.2	26.8	44	sw.	7.4	3.3	.....	.....	8	.....	.....	0.004	0.1	.....	Dr. Wierzbiski.
Eperies	28.90	734.1	29.73	755.2	79.2	26.2	53	s.	.....	.....	5	c	5 s	.....	n.	0	0	.....	Julius Mikolik.
Gratz	28.44	722.3	29.03	752.6	69.4	20.8	71	sw.	.....	.....	2	.....	10	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.44	722.4	29.77	756.1	84.4	29.1	36	se.	.....	.....	2	.....	2	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.51	724.1	29.83	757.7	57.2	14.0	88	sw.	.....	.....	1	.....	10	.....	.....	0.933	23.7	raining	The Staff.
Lemberg	28.82	732.1	29.75	755.7	79.0	26.1	47	sw.	.....	.....	2	.....	4	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	29.65	753.1	29.76	755.9	70.7	21.5	79	se.	.....	.....	4	.....	10	.....	.....	0	0	thunder	I. R. Hydrographic Office.
Szathmar	29.33	744.9	29.77	756.2	85.5	29.7	38	se.	.....	.....	3	.....	4	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.52	749.8	29.78	756.5	81.3	27.4	47	s.	.....	.....	4	.....	5	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.70	754.3	29.80	756.9	67.3	19.6	89	calm	.....	.....	0	.....	10	.....	.....	1.012	25.7	.....	Royal Academy.
Vienna	29.08	738.6	29.78	756.4	62.6	17.0	72	w.	.....	.....	4	.....	10	.....	.....	0.177	4.5	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.49	749.0	29.58	751.3	55.7	13.2	68	s.	10	4.5	.....	.....	7	.....	.....	0.125	3.2	gloomy	W. Boswell
Armagh, Observatory	29.36	745.7	29.60	751.8	56.3	13.5	80	ssw.	14	6.3	.....	.....	9	.....	.....	.....	.....	overcast	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.73	755.1	54.2	12.3	78	sw.	15	6.7	.....	.....	10	.....	.....	.....	.....	overcast	John Hartnup.
Bolton, Sharples	29.17	740.9	29.70	754.4	54.0	12.2	79	ssw.	12	5.4	.....	.....	10	.....	.....	.....	.....	overcast	Thomas Mackereth. [A.S.
Bradford, Yorkshire	29.32	744.7	29.72	754.9	57.2	14.0	64	sw.	.....	.....	1	.....	10	.....	.....	0.39	9.9	overcast	J. McLandsborough, F. R
Bridgetown, Barbadoes	.....	.....	.....	.....	82.0	27.8	74	ne.	.....	.....	2	.....	6	.....	.....	.....	.....	gloomy	Corpl. J. Surgenor, A. H. C.
Cardington	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	John McLaren.
Chatham, School M. E.	29.74	755.4	29.87	758.7	55.5	13.1	86	calm	.....	.....	0	.....	9	.....	.....	blank	blank	gloomy	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.66	753.4	29.88	758.9	54.9	12.7	91	sw.	.....	.....	4	.....	10	.....	.....	.....	.....	rain & fog	The Staff.
Fort Napier, Natal	27.70	703.6	29.91	759.7	70.0	21.1	32	e.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	Pvt. Lane, A. H. C
Free Town, Sierra Leone	29.74	755.4	29.98	761.5	86.0	30.0	75	w.	.....	.....	1	.....	3	.....	.....	.....	.....	raining	Sergt. John Robinson.
Gibraltar, Mediterranean	30.02	762.5	30.07	763.8	74.4	23.6	80	e.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.42	747.3	29.62	752.3	55.6	13.1	73	wsw.	.....	.....	3	.....	10 n;k	.....	.....	.....	.....	gloomy	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.68	753.9	29.84	757.9	59.2	15.1	76	sw.	.....	.....	1	.....	8	.....	.....	.....	.....	showery	The Staff.
Guernsey	29.67	753.6	29.96	761.0	57.0	13.9	87	nw.	.....	.....	2	.....	10	.....	.....	.....	.....	showery	A. Collenette, F. M. S.
Kew, Observatory	29.82	757.4	29.85	758.2	60.7	15.9	57	w.	13	5.8	.....	.....	8	.....	.....	.....	.....	d. clouds	The Staff.
Leicester, Museum	29.51	749.5	29.76	755.9	59.2	15.1	66	sw.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	J. C. Smith.
Malta, Mediterranean	29.77	756.1	29.85	758.2	77.8	25.4	84	ne.	.....	.....	3	.....	1	.....	.....	.....	.....	blue sky	I. H. Whysall.
Nassau, Bahamas	30.11	764.8	30.15	765.8	84.0	28.9	69	se.	.....	.....	2	.....	4	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.27	743.4	29.78	756.4	56.3	13.5	74	s.	.....	.....	4	.....	10	.....	.....	.....	.....	threatening	Warren Middleton.
Oxford, Radcliffe Obs'y	29.62	752.3	29.84	757.9	52.5	11.4	90	wsw.	.....	.....	3	.....	10	.....	.....	.....	.....	raining	The Staff.
Plymouth	29.80	756.9	29.88	758.9	57.7	14.3	61	wsw.	.....	.....	4	.....	10	.....	.....	.....	.....	overcast	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.55	750.6	53.4	11.9	83	w.	10	4.5	.....	.....	5	.....	.....	.....	.....	d. clouds	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.85	758.2	29.91	759.7	75.0	23.9	64	sw.	.....	.....	1	.....	1	.....	.....	.....	.....	blue sky	W. H. Lyne.
Sheffield	29.46	748.3	29.73	755.1	61.1	16.2	68	sw.	.....	.....	2	.....	10	.....	.....	0.19	4.8	overcast	W. F. Cooper.
Sillioth Rectory	29.63	752.6	29.66	753.4	57.5	14.2	69	sw.	.....	.....	3	.....	10	.....	.....	0.270	6.9	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.74	755.4	53.2	11.8	77	wsw.	11	4.9	.....	.....	10	.....	.....	.....	.....	overcast	J. New.
Stratfield Turgiss	29.66	753.4	29.87	758.7	60.2	15.7	68	w.	.....	.....	3	.....	10	.....	.....	.....	.....	overcast	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.74	755.4	29.76	755.9	58	14.4	87	sw.	.....	.....	4	.....	10	.....	.....	.....	.....	raining	W. Newcombe.
Valencia, Observatory	29.63	752.6	29.65	753.1	55.9	13.3	98	wsw.	26	11.6	.....	.....	10	.....	.....	.....	.....	drizzling	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.68	753.9	29.72	754.9	57	13.9	71	s.	6	2.7	.....	0	5 s	.....	calm	0.010	0.3	fair	H. J. Cundall, C. E.
Chatham, N. B*	29.59	751.6	29.65	753.1	54	12.2	90	s.	4	1.8	.....	2 k	2 ks	s.	s.	0.18	4.6	fair	G. A. Blair.
Father Point, Quebec*	29.52	749.8	29.54	750.3	50	10.0	93	calm	0	0	.....	.....	10 k	.....	sw.	0.02	0.5	cloudy	J. McWilliams.
Halifax, N. S*	29.70	754.4	29.83	757.7	57	13.9	86	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	A. Allison.
Kingston, Ontario*	29.36	745.7	29.69	754.1	56	13.3	86	w.	4	1.8	.....	.....	10 n	.....	sw.	0	0	light rain	A. P. Knight, M. A.
Montreal, Quebec*	29.40	746.7	29.60	751.8	58	14.4	90	sw.	16	7.2	.....	.....	10 n	.....	nw.	0.09	2.3	light rain	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.02	737.1	29.70	754.4	52	11.1	86	w.	1	0.4	.....	0	hz.	.....	.....	0.01	0.3	clear	Rev. R. Mosley.
Port Dover, Ontario	29.10	739.1	29.77	756.1	62	16.7	72	sw.	10	4.5	.....	4 ck	0	sw.	.....	0	0	fair	H. Morgan.
Port Stanley, Ontario	29.16	740.7	29.79	756.7	55	12.8	90	w.	10	4.5	.....	8 k	0	w.	.....	0	0	cloudy	M. Payne.
Quebec, Quebec*	29.22	742.2	29.53	750.0	56	13.3	96	w.	.....	.....	3	.....	8 s	.....	w.	0.31	7.9	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.20	741.7	29.65	753.1	56	13.3	80	nw	4	1.8	.....	3 c	0	w.	.....	0	0	fair	W. H. McIntyre.
Saugeen, Ontario*	29.02	737.1	29.73	755.1	53	11.7	93	sw.	12	5.4	.....	.....	8 ks	.....	.....	0.18	4.6	cloudy	
St. Andrews, N. B	29.64	752.8	29.69	754.1	49	9.4	78	se.	5	2.2	.....	2 k	2 ks	w.	.....	0	0	fair	
Sydney, C. B*	29.83	757.7	29.89	759.2	50	10.0	77	sw.	15	6.7	.....	4 cs	0	.....	.....	0	0	fair	T. C. Hill, C. E
Toronto, Ontario*	29.37	746.0	29.74	755.4	63	17.2	73	w.	6	2.7	.....	5 ck	5 ks	w.	w.	0	0	cloudy	Magnetic Observatory.
Yarmouth, N. S*	29.70	754.4	29.77	756.1	55	12.8	80	s.	8	3.6	.....	0	0	.....	.....	0	0	hazy	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Wm. Wylie.
St. Johns, Newfoundland	30.02	762.5	30.27	768.8	51	10.6	79	sw.	3	1.3	.....	5 k	5 s	.....	.....	0	0	.....	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.05	763.3	30.08	764.0	64.5	18.1	75	se.	9.5	4.2	.....	8 c	0	.....	.....	0	0	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	29.99	761.7	30.03	762.7	59.0	15.0	86	nw.	21	9.4	.....	8	9	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow	29.74	755.4	30.02	762.5	73.0	22.8	88	ne.			2		10			0.45	11.4	covered	N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.76	755.9	29.78	756.5	66.6	19.2	88	n.	8.9	4.0			10 n		n.	0.614	15.6	covered	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.61	752.1	29.66	753.3	64.0	17.8	63	w.	18	8			8						Oversergent Fischer.
Fanöe	29.69	754.0	29.71	754.5	60.3	15.7	83	w.			4		8						Overloerer Lauridsen.
Godthaab, Greenland	29.93	760.3	29.98	761.4	35.2	1.8	93	ene.			2		10			0	0		S. Kleinschmidt.
Stykkisholm, Iceland	29.78	756.5	29.83	757.6	37.4	3.0	79	e.			4		8						A. O. Thorlacius.
Thorshavn	29.59	751.5	29.62	752.4	49.5	9.7	78	ne.	16	7			7						Overloerer Bergh.
Vestervig	29.55	750.6	29.64	752.9	57.0	13.9	85	wsw.			6		4						Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.52	749.7	30.17	766.2	63.3	17.4	52	wnw.			2		n;kn		nw.	0	0		M. Labroue, Director.
Alençon, Normal School	29.51	749.6	30.06	763.6	60.4	15.8	81	sw.			2		n			0.16	4.		M. Nicot, Director.
Arras, Engineer School	29.79	756.7	30.05	763.2	62.1	16.7	66	w.			6		knc			0	0		M. Fénéon, Command't.
Avignon, Normal School	29.84	758.0	29.92	760.0	68.7	20.4	53	n.			3		5		nw.	0.098	2.5	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.45	747.9	30.00	762.0	59.5	15.3	68	se.			1		10			0	0	covered	M. Saillard, Director.
Beauvais, Normal School	29.71	754.7	29.97	761.3	64.9	18.3	57	w.			2		10		w.	0	0	covered	M. Frère Eugène Marié.
Besançon, Normal School	29.04	737.6	29.92	760.0	62.6	17	61	wnw.			1		10 n		ne.	0.594	15.1	raining	M. Gobin, Director.
Bordeaux, Observatory	29.88	759.0	30.14	765.6	64.2	17.9	47	w.			1		8		wnw.	0.063	1.6	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.50	749.2	30.05	763.2	62.6	17	55	w.			1		k		w.	0.232	5.9		M. Postel, Director.
Brest, Naval Observatory	29.76	756.0	30.01	762.2	57.6	14.2	89	wsw.			2		10		wsw.	0.039	1.0		M. de Kermaree, Dir.
Caen, Normal School	29.87	758.7	29.95	760.6	58.6	14.8	70	sw.			1		5			0.126	3.2	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.64	752.9	29.95	760.8	60.8	16.0	75	ssw.			3		2		w.	0.024	0.6	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.42	747.2	29.92	760.0	60.1	15.6	73	w.			2		10			0.16	4.	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.69	728.8	30.04	762.9	60.8	16.0	52	w.			2		8		nw.	0.465	11.8	¾ covered	M. Alluard, Director.
Cluny, Normal School	29.16	740.6	29.99	761.7	60.8	16	59	nw.			3		6		nw.	0.520	13.2		M. de Villemontée, Dir.
Commercy, Normal School	29.11	739.5	29.97	761.1	60.8	16	68	wnw.			2		kn	wnw.	wnw.	0.228	5.8		Dr. Coulet, Director.
Gap, Normal School	27.36	695.0	29.76	756.0	78.8	26	30	nw.			2		2 k		w.	0.087	2.2		M. Jeanginard, Director.
Gréasque, du Rhone	28.69	728.8	29.78	756.5	67.1	19.5	37	nw.			8		3		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.19	741.4	29.95	760 7	57.6	14.2	76	nw.			2		kn		n.	0	0		M. Ablard, Director.
Guéret, Normal School	28.50	724.0	30.07	763.8	57.2	14.0	65	w.			3		5		nw.	0	0	cloudy	M. Rivoire, Director.
Lamballe, Normal School	29.81	757.1	30.08	764.1	58.1	14.5	74	sw.			3		8		sw.	0.04	1.	very cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.67	753.6	30.24	768.0	59.0	15	78	sw.			1		5			0.47	12.	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.97	761.2	30.07	763.8	59.0	15.0	68	wsw.			3		10		w.	0.094	2.4	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.95	735.5	30.00	762.1	60.8	16.0	54	nw.			3	c	5 k	nw.	n.	0.720	18.3	cloudy	M. André, Director.
Mans, Normal School	29.69	754.2	30.00	762.0	60.1	15.6	66	w.			3		8		w.	0	0	very cloudy	M. Piboen, Director.
Marseille, Observatory	29.56	750.8	29.83	757.6	67.6	19.8	19	nw.			9		2		nw.	0	0		M. Stephan, Director.
Montlouis	24.88	631.9	29.72	754.9	51.4	10.8	37	s.	11.2	5.0			0			0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.82	757.3	29.82	757.5	67.3	19.6	56	nw.			6		2		nw.	0	0	slightly cl'dy	M. Galzin, Director.
Nancy, Normal School	29.17	740.8	29.95	760.6	55.0	12.8	76	wsw.			2		k		nw.	0.173	4.4		M. Hasse, Director
Nantes, Observatory	29.93	760.2	30.10	764.4	62.2	16.8	63	wsw.			2-3		n;kn		w.	0.016	0.4		M. Larocque, Director.
Perpignan, Observatory	29.96	761.0	30.07	763.8	66.9	19.4	40	nw.	16.8	7.5			3		nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.29	540.8			28.0	— 2.2		s.			1		10		s.	0.370	9.4	showery	Gen'l de Nansouty, Dir.
Privas, Normal School	28.93	734.7	29.98	761.4	63.0	17.2	43	nw.			3		2	se.	nw.	0.59	15.	slightly cl'dy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.16	639.0			39.0	3.9	96	wnw.			3		8			0.646	16.4	¾ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	30.12	765.0	30.15	765.8	65.1	18.4	100	w.			2		8		w.	2.24	57.	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.87	758.6	30.08	764.0	60.4	15.8	71	sw.			1		5		w.	0.055	1.4	cloudy	M. Mouillot, Director.
Rodez, Normal School	27.94	709.6	30.08	763.9	56.5	13.6	69	sw.			3		kn		se.	0.248	6.3		M. Seger, Director.
Rouen, Normal School	29.92	760.0	29.97	761.2	60.4	15.8	71	w.			1		10		sw.	0	0	covered	M. Brotier.
Saint Maur, Observatory	29.83	757.6	29.99	761.8	60.1	15.6	70	wsw.			2		10		w.	0.004	0.1		M. Renou, Director.
Toulouse, Observatory	29.47	748.5	30.20	767.0	62.4	16.9	65	w.			4		8	nw.		0.047	1.2	very cloudy	M. Baillaud, Director.
Tours	29.87	758.7	30.05	763.2	67.3	19.6	50	w.			1		8	w.	w.			rainy	M. de Tastes.
Versailles, Observatory	29.51	749.6	30.00	762.1	58.6	14.8	78	w.			1					0.035	0.9		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.71	754.6	30.00	762.0	60.3	15.7	67	w.			2		10		w.			sprinkling	M. Marié Davy, Director
GERMAN.																			
Bamberg	29.04	737.6	29.89	759.2	61.7	16.5	66	calm			0		9 ks			0.264	6.7		Prof. Dr. Hoh.
Berlin	29.74	755.3	29.91	759.7	64.4	18.0	60	sw.			2		9			0.268	6.8		Prof. Dr. Arndt.
Breslau	29.28	743.8	29.81	757.2	55.8	13.2	100	nnw.			2		10			0.138	3.5	rain & fog	Royal University Obs'y.
Carlsruhe	29.47	748.5	29.90	759.4	64.4	18.0	63	wsw.			1		1	sw.		0.12	0.3		Albert Senz.
Cassel	29.08	738.6	29.79	756.7	66.9	19.4	66	sw.			2		8	sw.		0.433	11.0	thund'r st'm	Dr. H. Möhl.
Frankfort-on-the-Main	29.51	749.5	29.86	758.5	67.6	19.8	57	sw.			1		7			0.272	6.9		Physical Society.
Friedrichshafen	28.54	724.8	29.97	761.1	54.0	12.2	87	sw.			4		10	w.		0.043	1.1		Wilhelm, Chief Tel.
Hamburg	29.68	753.9	29.78	756.3	62.8	17.1	52	wnw.			4		6			0	0		E. Preller.
Kiel	29.71	754.6	29.72	755.0	63.0	17.2	61	w.			5		6			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.44	747.8	29.86	758.4	59.7	15.4	70	ssw.			2		10			0.370	9.4		H. Leppig, Asst.
Magdeburg	29.63	752.5	29.81	757.1	65.3	18.5	63	sw.			3		10 ks		sw.	0.034	16.1		Dr. Assmann.
Memel	29.69	754.2	29.74	755.4	56.5	13.6	88	w.			3		10					light rain	Issermann.
Munich	28.11	714.0	29.97	761.2	54.0	12.2	82	nw.			2		10	sw.		0.236	6.0	raining	Central Station.
Neufahrwasser	29.75	755.6	29.76	756.0	63.0	17.2	71	nw.			1		10			0.169	4.3		A. Lothes.
Neustadt, Palatinate	29.35	745.4	29.87	758.7	65.8	18.8	61	s.			2		8	nnw.		0.047	1.2		Dicknether.
Stuttgart	28.98	736.0	29.86	758.4	58.1	14.5	84	sw.			1		10			0.075	1.9		Prof. Dr. Schoder.
Wustrow	29.72	755.0	29.75	755.7	62.6	17.0	98	wsw.			4		10 s			0.150	3.8		Profs. Brandes & Reimer
GREEK.																			
Athens	29.58	751.2			76.6	24.8		s.			1.5		2 k			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.42	747.4	29.47	748.6	90.9	32.7	77	sw.	24.0	10.7			0			0	0	misty	
Deesa	28.98	736.0	29.44	747.6	89.8	32.1	51	ne.	11.0	4.9			8		sse.	0.35	8.9	d. clouds	
Bombay	29.50	749.3	29.59	750.3	81.7	27.6	88	wsw.	11.0	4.9			10		w.	0.05	1.3	overcast	
Poona, Yarrowda	27.70	703.7	29.53	750.1	81.6	27.6	62	sw.	23.0	10.3			6	w.	w.	0	0	d. clouds	
Trichinopoly	29.44	747.7	29.71	754.7	86.3	30.2	52	w.	2.0	0.9			10			0	0	overcast	
Bellary	28.13	714.5	29.57	751.0	87.0	30.6	49	sw.	12.0	5.4			7			0	0	gloomy	
Belgaum	27.11	688.5	29.64	752.9	72.4	22.4	87	wsw.	6.0	2.7			6	ne.	sw.	0.03	0.8	d. clouds	
Lahore	28.65	727.8	29.34	745.4	108.3	42.4	24	sw.	1.1	0.5			0			0	0	misty	
Roorkee	28.52	724.4	29.37	746.0	102.3	39.1	31	w.	0.7	0.3			4			0	0		
Agra	28.87	733.4	29.41	747.0	99.1	37.3	41	nw.	5.6	2.5			0			0	0	blue sky	
Nagpur	28.43	722.0	29.46	748.2	80.0	26.7	83	sw.	5.6	2.5			10		n.	0.10	2.5	drizzling	
Jubbulpore	28.15	714.9	29.48	748.9	80.8	27.1	87	ese.	2.9	1.3			9		e.	0.09	2.3	overcast	
Lucknow	29.03	737.3	29.39	746.4	100.1	37.8	41	calm	0.9	0.4			0			0	0	blue sky	
Allahabad	29.10	739.1	29.40	746.6	95.6	35.3	56	calm	1.0	0.4			3			0	0	d. clouds	
Patna	29.29	744.0	29.47	748.5	94.7	34.8	51	ene.	6.2	2.8			4	ene.	ene.	0	0	d. clouds	
Hazaribagh	27.50	698.4	29.44	747.8	88.0	31.1	52	ese.	7.9	3.5			5		se.	0	0		
Cuttack	29.38	746.3	29.46	748.3	84.0	28.9	83	ese.	0.2	0.1			7			0.15	3.8	d. clouds	
Calcutta, Allipore	29.44	747.7	29.46	748.2	82.0	27.8	92	ssw.	1.0	0.4			9	e.		0.76	19.3	d. clouds	
Dhubri	29.38	746.3	29.50	749.2	86.8	30.4	78	calm	2.4	1.1			6	w.		0	0	d. clouds	
Chittagong	29.46	748.2	29.55	750.5	83.7	28.7	80	sse.	6.6	3.0			4			0	0	blue sky	
Sibsagar	29.17	740.8	29.49	749.1	88.5	31.4	72	sw.	1.5	0.7			0			0	0	blue sky	
Jeypore	28.02	711.6	29.39	746.6	98.1	36.7	39	e.	5.2	2.3			4		e.	0.01	0.3	d. clouds	
Zanzibar, Africa	30.01	762.2			83.5	28.6	60	sw.	5.6	2.5			6		se.	0	0	d. clouds	
ITALIAN.																			
Udine	29.41	746.9	29.80	757.0	64.0	17.8	82	se.	4.3	1.9			10			0.209	5.3		Prof. Giovanni Clodig.
Milan	29.22	742.2	29.72	754.8	54.7	12.6	90	nw.	15.0	6.7			10	ene.		0.984	25.0		Prof. Schiaparelli.
Padua	29.60	751.9	29.71	754.6	67.8	19.9	87	ene.	6.9	3.1			10	ese.		0.094	2.4		Prof. Dott. Lorenzoni.
Moncalieri	28.87	733.3	29.74	755.4	62.8	17.1	57	nne.	5.6	2.5			7	n.		0.244	6.2		Prof. P. F. Denza.
Genoa	29.53	750.1	29.72	754.8	60.1	15.6	73	n.	14.3	6.4			10	ne.		0.228	5.8		Prof. G. M. Garibaldi.
Mondovi	27.91	708.8	29.75	755.7	56.7	13.7	82	w.			4		9			0.098	2.5		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
ITALIAN.—Continued.																			
Pesaro	29.66	753.3	29.71	754.5	69.3	20.7	81	se.	9.8	4.4			10	sw.		0	0		Prof. Luigi Guidi.
Florence	29.47	748.6	29.72	754.9	67.1	19.5	76	e.			2		10			0.110	2.8		Prof. Costantino Pitter.
Leghorn	29.59	751.6	29.67	753.7	66.2	19.0	71	nw.	3.1	1.4			10	wsw.		2.134	54.2		Prof. P. Monte.
Rome	29.64	752.8	29.81	756.1	73.6	23.1	63	w.	17.4	7.8			10			0.020	0.5		Prof. P. S. Ferrari.
Lecce	29.61	752.1	29.85	758.3	82.2	27.9	37	ssw.	16.1	7.2			3			0	0		Prof. C. de Giorgi.
Cosenza	28.99	736.4	29.84	758.0	84.6	29.2	74	wsw.	3.1	1.4			5	sw.		0	0		Prof. D. Conti.
Cagliari	29.69	754.1	29.87	758.8	72.0	22.2	79	nw.			3		8	nw.		0.008	0.2		Prof. A. Pacinotti.
Palermo	29.67	753.5	29.91	759.7	83.3	28.5	41	wsw.	13.0	5.8			1			0	0		Prof. G. Ciacciatore.
Syracuse	29.84	757.9	29.88	759.0	74.5	23.6	82	nne.	3.8	1.7			8	nne.		0	0		Prof. Vincenzo Gulliano
Sub-series.																			
Naples, S. R.	29.27	743.5	29.78	756.3	76.6	24.8	73	sw.	8.7	3.9			8	w.		0	0		Prof. T. Brioschi.
Stelvio	22.04	559.8			32.0	0.0	96	ne.			4		10			0.236	6.0	covered	Prof. P. F. Denza.
Valdobbia	22.03	559.6			39.2	4.0	73	nne.			2		10			0.539	13.7	covered	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.88	758.9	29.92	759.9	56.0	13.3	82	nne.	1.2	0.5		0	2 s			0	0	fair	K. Ogawa.
Hakodate	29.90	759.4	29.91	759.7	50.5	10.3	87	ese.	1.8	0.8			0			0	0	clear	
Hiroshima, I. M. Obs'y	29.70	754.4	29.71	754.6	61.4	16.3	96	nne.	0.4	0.2			10 n			1.170	29.7	raining	I. Sogawa.
Kanazawa	29.80	756.9	29.90	759.4	65.1	18.4	81	e.	6.5	2.9			10 cks			0.110	2.8	cloudy	S. Endo.
Kioto	29.65	753.1	29.81	757.2	68.1	20.1	67	s.	1.0	0.4			10 n			0.816	20.7	light rain	M. Tojima.
Kochi	29.77	756.1	29.79	756.6	64.0	17.8	96	ne.	17.8	8.0			10 n			1.790	45.5	light rain	K. Kusunose.
Nagasaki, I. M. Obs'y	29.44	747.8	29.63	752.6	70.6	21.4	99	sw.	11.9	5.3			10 n			2.080	52.8	light rain	S. Takehayashi.
Nemuro	29.85	758.2	29.91	759.7	46.0	7.8	93	calm	0	0		10	0	nnw.		0	0	overcast	
Niigata	29.75	755.6	29.79	756.6	64.1	17.8	84	ne.	8.3	3.7		10 ck	0			0	0	covered	M. Morita.
Nobiru	29.87	758.7	29.88	758.9	63.1	17.3	93	ese.	15.2	6.8		0	9 s			0	0	cloudy	H. Midzushina.
Supporo					50.7	10.4	84	calm	0	0			1			0	0	clear	
Tokei Obs'y, Yeddo	29.83	757.7	29.89	759.2	69.4	20.8	77	s.	7.3	3.3		6 ck	4 s	s.		0.210	5.3	cloudy	The Staff.
Wakayama	29.75	755.6	29.80	756.9	64.6	18.1	87	e.	2.1	0.9			10 n			0.542	13.8	raining	Y. Kuwamuea.
MAURITIUS																			
Mauritius Observatory	29.88	758.9	30.07	763.8	74.6	23.7	56	s.	14.5	6.5		0	7 k;ks		ssw.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.68	601.4	29.90	759.4	60.6	15.9	94	calm	0	0			10 ku		e.	0.186	4.7	misty	Prof. Vicente Fernandez.
Leon	24.30	617.2	29.90	759.4	63.0	17.2	89	sw.			1	6 c	0	s.		0.229	5.8	cloudy	Prof. M. Leal.
Mazatlan	29.67	753.7	29.93	760.2	75.0	23.9	88	e.	1.6	0.8		0	2 n;s		e;n	inap.	inap.	clear	F. Quijano, C. E.
Mexico, Central Obs'y	23.09	586.4	30.09	764.2	56.1	13.4	92	calm	0	0		1 c	7 kn		w.	0.763	19.9	cloudy	The Staff.
Morelia	24.21	615.0	30.27	768.9	61.9	16.6	59	ne.			3	1	3	s.	s.	0.319	8.1		M. Tena, M. D.
Pabellon, Aguascallientes	23.91	607.3	29.87	758.6	61.5	16.4	94	se.			1					0.550	13.9		M. V. de Leon, M. E.
Puebla, Catholic Institute	23.42	594.9	30.10	764.4	57.2	14.0	73	calm	0	0		0	0			0.547	13.9	clear	Prof. P. Spina.
San Luis Potosi	24.16	613.6	29.97	761.2	64.3	17.9	72	s.					10		w.	0	0	covered	G. Barroeta, M. D.
Zacatecas	22.51	571.8	30.06	763.5	57.0	14.0	81	w.	3.8	1.7		7 cs	0	ne.		0	0		J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.88	759.0	29.88	759.0	64.6	18.1		w.			3					0	0		
Groningen	29.74	755.5	29.80	756.9	62.2	16.8		nw.			4					0	0		
Helder	29.82	757.4	29.82	757.4	58.6	14.8		wsw.			4					0.050	1.3		
Hellevoetsluis	29.87	758.7	29.87	758.7	62.1	16.7	67	nw.			1					0	0		
Utrecht	29.81	757.1	29.85	758.3	66.6	19.2	51	w.			2		5			0.008	0.2	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.40	746.8	29.47	748.4	55.8	13.2	85	sse.	7	3			10			0.413	10.5	raining	
Brono	29.38	746.3	29.42	747.3	48.7	9.3	83	w.	4	2			8			0	0		
Christiania	29.26	743.1	29.40	746.7	61.7	16.5	56	ssw.	20	9			9					thnd'r storm	
Gjæsvær	29.66	753.4	29.69	754.0	37.4	3.0		ne.			4		8					snowing	
Lodingen	29.41	747.1	29.46	748.3	47.5	8.6	50	e.			4		7			0.008	0.2		
PORTUGUESE.																			
Angra, Azores					64.0	17.8	78	sse.	7.4	3.3			2			0	0		Dr. J. A. Sampaio.
Campo Major	29.17	740.8	30.15	765.9	60.6	19.2	60	n.	3.8	1.7			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.15	765.8	30.24	768.0	69.4	20.8	50	sw.	6.3	2.8			5			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.88	759.0	30.24	768.0	70.2	21.2	36	nne.	15.0	6.7			0			0	0		The Staff.
Ponta Delgada, Azores	30.43	772.8	30.50	774.6	73.4	23.0	52	calm	0	0			4			0	0		
Saint Paul de Loando	29.79	756.6	29.99	761.8	72.3	22.4	92	w.	0.7	0.3			10			0	0		
Serra da Estrella	25.48	647.2	30.17	766.2	55.9	13.3	23	n.	6.9	3.1			0			0	0		
RUSSIAN.																			
Akmolinski	28.59	726.1	29.62	752.3	68.2	20.1	46	sw.	9	4		4 ck	0			0.102	2.6		Major K. Lasarew.
Archangel	29.38	746.2	29.40	746.7	48.4	9.1	93	w.	18	8			10			0	0		Capt. Sselliwerstow.
Astrakhan	29.79	756.7	29.71	754.6	75.6	24.2	33	wnw.	18	8		0	7 k			blank	blank		Capt. Wisganow.
Barnaul	29.22	742.3	29.68	753.9	86.5	30.3	37	calm	0	0			0			0	0		Meteorological Obs'y.
Dorpat	29.29	743.9	29.51	749.6	77.0	25.0	61	wsw.	7	3		9 ck	0			0.165	4.2		Observatory.
Ekaterinburg	28.38	720.9	29.30	744.1	68.2	20.1	50	w.	18	8			9			0.083	2.1		Meteorological Obs'y.
Kasan	29.21	741.9	29.47	748.4	70.2	21.2	47	nw.	7	3		0	2 k			0	0		Observatory.
Kertch	29.93	760.2	29.95	760.7	74.7	23.7	54	s.	7	3		c	0			0	0		Lagorio & Sastyrex.
Kieff	29.17	741.0	29.76	756.0	82.8	28.2	38	ssw.	7	3		ck	3 ks			0	0		Observatory.
Lugan	29.56	750.7	29.75	755.6	81.5	27.5	32	wnw.	13	6			0			0	0		Meteorological Obs'y
Moscow	29.19	741.5	29.63	752.7	79.3	26.3	42	n.	4	2			4 ks						Meteorological Obs'y.
Nikolaiev	29.89	759.2	29.96	761.0	85.1	29.5	27	s.	22	10		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.73	755.2	29.82	757.4	61.0	16.1	76	se.	9	4			4			0	0		Lieut. Iwanow.
Pekin, China	29.66	753.4	29.80	757.0	72.1	22.3	31	calm	0	0		0	0			0	0		Physical Observatory
St. Petersburg	29.49	749.0	29.50	749.4	73.0	22.8	45	sw.	11	5			10 ku			0.134	3.4	light clouds	Central Physical Obs'y.
Semipalatinsk	29.02	737.0	29.61	752.0	90.1	35.6	26	calm	0	0		0	0			0	0		Major Lasarew.
Tashkend, Laboratory	28.35	720.2	29.84	758.0	80.1	26.7	43	nnw.	4	2			8					light clouds	Teich, A. M.
Tiflis	28.58	725.8	29.93	760.2	78.6	25.9	27	nw.	4	2		0	1 k			0	0		Physical Observatory
Vladivostock	29.09	754.1			54.7	12.6	97	se.	13	6			10 n						
Warsaw	29.26	743.2	29.66	753.3	80.6	27.0	43	wsw.	13	6			9 ks						Astronomical Obs'y
Wilna	29.23	742.5	29.62	752.4	80.6	27.0	33	wsw.	4	2			9			0.087	2.2		Berg, Assistant.
SPANISH.																			
Barcelona, Met. Obs'y	29.86	758.4	29.96	761.0	68.0	20.	53	e.	2.7	1.2			0			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.21	767.3	30.27	768.8	68.4	20.2	60	nw.	4.5	2.0		2	6	nw.		0.161	4.1	almost cov.	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.27	692.7	30.21	767.2	62.2	16.8	63	ne.	5.1	2.3			2			0	0	light clouds	Domingo Martin.
Madrid, Royal Obs'y	27.96	710.1	30.13	765.4	70.0	21.1	40	n.	3.8	1.7		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.94	760.4	30.09	764.2	77.7	25.4	48	sse.	5.1	2.3		0	0			0	0	clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.35	745.6	30.25	768.3	62.2	16.8	73	calm	0	0			9			0	0	almost cov.	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	29.97	761.1	30.03	762.8	81.7	27.6	77	se.	4.9	2.2		5 c;ck	0	w.		0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.76	755.8	29.82	757.3	85.4	29.7	70	e.	1.8	0.8		0	1 ks			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.02	762.5	30.12	765.0	80.8	27.1	31	e.	7.3	3.3		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.04	762.9	30.13	765.2	87.8	31.0	72	se.	9.2	4.1		2 s	0	e.		0	0	clear	Manuel Maese.
Tuguegarao, Philippine Id's	29.72	754.9	29.86	758.4	80.0	30.0	73	wnw.	5.6	2.5		0	6 ks		nw.	0	0	cloudy	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.44	747.8	29.48	748.8	46.0	7.8	59	ne.			4		10			0	0		
Umea	29.39	746.6	29.45	747.9	42.3	5.7	86	ne.			4		10			0.189	4.8		
Hernosand	29.32	744.7	29.37	746.0	44.0	7.0	98	ne.			6		10			0.079	2.0		
Stockholm	29.29	744.0	29.47	748.5	64.4	18.0	46	w.			7		10			0.055	1.4		
Wisby	29.51	749.5	29.57	751.0	63.0	17.2	57	wsw.			4		5			0	0		
Sub-series.																			
Upsala	29.32	744.8	29.41	747.0	61.5	16.4	57	wsw.	13.4	6.0			9		wsw.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.58	725.8	29.99	761.8	56.3	13.5	82	nnw.			2					0.228	5.8	covered	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
SCOTTISH.																			
Monach Lt	.....	.....	29.48	748.8	59	15.0	93	sw.	.....	.....	4	5	0	sw.	.....	0.1	3.	showery	J. Youngclause.
TURKISH.																			
Constantinople	.....	.....	29.95	760.7	75.2	24.0	63	se.	6.7	3.0	.....	.....	4	.....	sw.	0	0	.....	The Observatory.
Valona	.....	.....	30.00	761.9	79.7	26.5	.....	sw.	.....	.....	1	.....	5	.....	.....	0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.97	761.1	77.0	25.0	58	ne.	.....	.....	3	0	0	.....	.....	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.67	753.6	29.75	755.6	67	19.4	63	sw.	7	3.1	.....	.....	10 s	.....	nw.	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.09	738.9	29.74	755.4	59	15.0	75	nw.	4	1.8	.....	.....	10 s	.....	w.	0.14	3.6	cloudy	Jas. J. Fitzgerald.
Atlanta, Georgia	28.94	735.1	30.09	764.3	66.5	19.2	78	w.	3	1.3	.....	10 k	0	w.	.....	0	0	cloudy	H. Hall.
Atlantic City, New Jersey	29.90	759.4	29.91	759.7	66.8	19.3	73	sw.	5	2.2	.....	8 c	0	.....	.....	0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.94	760.5	30.13	765.3	68	20.0	84	calm	0	0	.....	.....	10 s	.....	sw.	0.01	0.3	cloudy	John Healy.
Baltimore, Maryland	29.90	759.4	29.95	760.7	70	21.1	57	nw.	1	0.4	.....	8 cs	sk.	w.	.....	0	0	cloudy	Robert Seyboth.
Barnegat, New Jersey	29.88	758.9	29.90	759.4	70.0	21.1	66	w.	8	3.6	.....	7 cs	0	.....	.....	0	0	fair	Chas. F. Merritt.
Behring Island, Behring Sea	29.93	760.2	29.95	760.7	37.2	2.9	.....	se.	2	0.9	.....	0	2 s	.....	.....	0.07	1.8	fair	Dr. L. Steineger.
Bismarck, Dakota	28.02	711.7	29.77	756.1	61	16.1	67	e.	5	2.2	.....	3 k	0	nw.	.....	0	0	fair	Cyrus Cramer.
Boise City, Idaho	26.96	684.8	29.74	755.4	53	11.7	61	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	B. E. Light.
Boston, Massachusetts	29.62	752.3	29.77	756.1	70.0	21.1	57	sw.	5	2.2	.....	7 cs	0	w.	.....	0	0	fair	O. B. Cole.
Brownsville, Texas	29.79	756.7	29.83	757.7	73.6	23.1	97	sw.	1	0.4	.....	4 cs	3 ks	calm	calm	0.11	2.8	fair	M. McCarty.
Buffalo, New York	29.03	737.3	29.77	756.1	57	13.9	78	sw.	23	10.3	.....	2 k	8 ks	sw.	sw.	0	0	cloudy	Wm. Finn.
Burlington, Vermont	29.36	745.7	29.64	752.8	67.5	19.7	65	s.	6	2.7	.....	2 cs	7 s	nw.	w.	inap.	inap.	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.63	752.6	30.02	762.5	67.6	19.8	75	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. H. Ray.
Campo, California	27.33	694.2	29.81	757.2	37	2.8	72	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.11	688.6	29.74	755.4	60.5	15.8	66	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	29.99	761.7	30.01	762.2	68	20.0	55	sw.	16	7.2	.....	3 k	0	sw.	.....	0	0	clear	A. K. Alderson.
Cape May, New Jersey	29.90	759.4	29.94	760.5	65	18.3	84	sw.	5	2.2	.....	.....	10 ks	.....	sw.	0	0	cloudy	W. Bolton.
Cedar Keys, Florida	30.08	764.0	30.10	764.5	70	21.1	84	ne.	8	3.6	.....	.....	10 s	.....	s.	0.05	1.3	cloudy	F. W. Mixer.
Champaign, Illinois	29.09	738.9	29.88	758.9	64.0	17.8	78	w.	14	6.3	.....	0	0	.....	.....	0	0	clear	L. A. Welsh.
Charleston, S. Carolina	30.04	763.0	30.09	764.3	73	22.8	76	sw.	5	2.2	.....	.....	10 s	.....	sw.	0	0	threatening	J. H. Smith.
Charlotte, N. Carolina	29.20	741.7	30.03	762.7	66.0	18.9	75	sw.	2	0.9	.....	.....	10 s	.....	sw.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.28	743.7	30.08	764.0	66.0	18.9	81	sw.	5	2.2	.....	.....	10 n	.....	w.	inap.	inap.	light rain	B. L. Goulding.
Cheyenne, Wyoming	24.01	609.8	29.75	755.6	54.4	12.4	82	nw.	6	2.7	.....	.....	10 s	.....	.....	0.06	1.5	cloudy	E. McGovern.
Chicago, Illinois	29.11	739.4	29.80	756.9	66.0	18.9	70	sw.	9	4.0	.....	3 k	0	w.	.....	0	0	clear	J. Mitchell.
Chincoteague, Virginia	29.94	760.5	29.96	761.0	68.3	20.2	73	w.	6	2.7	.....	7 c	0	w.	.....	0	0	fair	V. P. Temple.
Cincinnati, Ohio	29.34	745.2	29.99	761.7	66	18.9	68	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	R. B. Watkins.
Cleveland, Ohio	29.15	740.4	29.88	758.9	67	19.4	55	sw.	14	6.3	.....	3 c	0	.....	.....	0	0	clear	J. B. Newlin.
Coleman City, Texas	28.13	714.5	29.88	758.9	69	20.6	84	se.	5	2.2	.....	.....	10 s	.....	se.	0.01	0.3	cloudy	L. Dorman.
Columbus, Ohio	29.11	739.4	29.95	760.7	63	17.2	68	sw.	6	2.7	.....	6 k	0	sw.	.....	0	0	fair	D. Cuthbertson.
Concho, Texas	27.95	709.9	29.82	757.4	69	20.6	90	e.	6	2.7	.....	5 ck	0	s.	.....	0.03	0.8	fair	W. W. McConihe.
Davenport, Iowa	29.18	741.2	29.82	757.4	66	18.9	78	sw.	7	3.1	.....	2 k	5 ks	nw.	nw.	0	0	fair	R. R. Martin.
Dayton, Washington T'y	28.17	715.5	29.91	759.7	51	10.6	80	sw.	2	0.9	.....	3 c	0	sw.	.....	0	0	clear	H. Clifford.
Deadwood, Dakota	25.28	642.1	29.72	754.9	58	14.4	72	sw.	6	2.7	.....	2 c	0	w.	.....	0	0	clear	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	68	20.0	55	se.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	D. J. Carr.
Delaware Breakwater, Del.	29.92	760.0	29.94	760.5	67	19.4	73	sw.	9	4.0	.....	9 k;ck	hz.	sw.	.....	0	0	cloudy	F. C. Pratz.
Denison, Texas	29.15	740.4	29.93	760.2	70.2	21.2	90	calm	0	0	.....	0	0	.....	.....	inap.	inap.	clear	J. McGlone.
Denver, Colorado	24.69	627.1	29.73	755.1	58.0	14.4	74	s.	4	1.8	.....	2 c	2 s	sw.	calm	0.09	2.3	fair	F. M. Neal.
Des Moines, Iowa	28.91	734.3	29.79	756.7	66	18.9	84	w.	7	3.1	.....	1 c	5 ks	.....	w.	0	0	fair	F. W. Conrad.
Detroit, Michigan	29.12	739.6	29.81	757.2	67.1	19.5	63	sw.	10	4.5	.....	0	0	.....	.....	0	0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.27	692.6	29.78	756.4	64	17.8	84	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	E. A. Thomas.
Dubuque, Iowa	29.06	738.1	29.75	755.6	63.5	17.5	73	sw.	6	2.7	.....	3 cs	2 ks	w.	sw.	0	0	fair	J. Harvey Smith.
Duluth, Minnesota	29.11	739.4	29.80	756.9	53	11.7	48	nw.	16	7.2	.....	.....	10 s	.....	nw.	0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.15	740.4	29.94	760.5	72.2	22.3	97	calm	0	0	.....	.....	10 n	.....	.....	inap.	inap.	light rain	F. Belford.
Eagle Rock, Idaho	25.14	638.5	29.72	754.9	46	7.8	55	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. M. Clifford.
Eastport, Maine	29.64	752.8	29.71	754.6	51	10.6	75	s.	3	1.3	.....	7 cs	0	w.	.....	0	0	fair	D. O. Murphy.
El Paso, Texas	26.19	665.2	29.78	756.4	61	16.1	84	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.10	739.1	29.82	757.4	67	19.4	59	sw.	13	5.8	.....	5 ck	0	.....	.....	0	0	fair	Peter Wood.
Escanaba, Michigan	29.07	738.4	29.72	754.9	55	12.8	69	calm	0	0	.....	0	0	.....	.....	0.37	9.4	clear	C. Dill.
Fort Apache, Arizona	24.97	634.2	29.72	754.9	59	15.0	54	e.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.01	686.0	29.80	756.9	62	16.7	48	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.32	719.3	29.86	758.4	61	16.1	84	se.	3	1.3	.....	5 k	0	calm	.....	0	0	fair	A. Pritchard.
Fort Benton, Montana	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	G. W. Davis.
Fort Buford, Dakota	27.80	706.1	29.76	755.9	55	12.8	69	e	2	0.9	.....	3 ck	0	calm	.....	0	0	clear	A. H. Bell.
Fort Custer, Montana	26.67	677.4	29.73	755.1	57	13.9	93	sw.	3	1.3	.....	6 k	0	calm	.....	0.05	1.3	fair	V. Verge.
Fort Davis, Texas	25.09	637.3	29.70	754.4	59	15.0	72	calm	0	0	.....	0	0	.....	.....	0.30	7.6	clear	J. Williams.
Fort Elliott, Texas	27.13	689.1	29.80	756.9	55	12.8	69	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. J. Cundall.
Fort Grant, Arizona	25.16	639.1	29.70	754.4	61.9	16.6	60	n.	6	2.7	.....	0	0	.....	.....	0.20	5.1	clear	Robert C. Lord.
Fort Keogh, Montana	27.29	693.2	29.72	754.9	58	14.4	72	s.	5	2.2	.....	4 c	0	se.	.....	0	0	fair	W. B. Stockman.
Fort Macon, North Carolina	30.06	763.5	30.08	764.0	72	22.2	76	sw.	14	6.3	.....	9 k	hz.	sw.	calm	0	0	cloudy	W. W. Thomas.
Fort McKavett, Texas	27.76	705.1	29.96	761.0	65	18.3	65	se.	4	1.8	.....	0	0	.....	.....	0.01	0.3	clear	J. E. Thatcher.
Fort Missoula, Montana	26.55	674.4	29.81	757.2	51	10.6	86	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Fort St. Michaels, Alaska	29.94	760.5	29.97	761.2	42	5.6	83	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	A. P. Leavitt.
Fort Shaw, Montana	26.24	666.5	29.81	757.2	48	8.9	80	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	A. L. Mathews.
Fort Sill, Indian Territory	28.68	728.5	29.88	758.9	68	20.0	90	se.	1	0.4	.....	8 ck	0	sw.	.....	inap.	inap.	cloudy	T. Cleary.
Fort Smith, Arkansas	29.49	749.0	29.95	760.7	65.4	18.6	84	e.	4	1.8	.....	0	0	.....	.....	inap.	inap.	clear	J. B. Campbell.
Fort Stevenson, Dakota	27.96	710.2	29.76	755.9	61	16.1	78	e.	1	0.4	.....	3 c	0	.....	.....	0	0	clear	W. Burrows.
Fort Verde, Arizona	.....	.....	.....	.....	58	14.4	31	sw.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.41	620.0	29.79	756.7	53.8	12.1	78	nw.	3	1.3	.....	.....	10 k	.....	.....	0	0	cloudy	T. M. Ambler.
Fredericksburg, Texas	28.19	716.0	29.87	758.7	66	18.9	100	calm	0	0	.....	.....	10 ks	.....	.....	0.28	7.1	threatening	H. S. Miles.
Galveston, Texas	29.79	756.7	29.84	757.9	73	22.8	90	e.	11	4.9	.....	10 cs	hz	se.	.....	3.33	84.6	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.12	739.6	29.77	756.1	59.5	15.3	75	sw.	4	1.8	.....	3 k	3 s	sw.	sw.	0	0	fair	W. A. Reid.
Hatteras, North Carolina	30.06	763.5	30.08	764.0	71	21.7	66	sw.	16	7.2	.....	3 c	0	w.	.....	0	0	clear	R. M. Crawford.
Helena, Montana	25.67	652.0	29.79	756.7	58	14.4	64	w.	4	1.8	.....	2 c	0	.....	.....	inap.	inap.	clear	S. Wheaton.
Henrietta, Texas	28.95	735.3	29.93	760.2	69.0	20.6	84	se.	5	2.2	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	J. W. Byram.
Huron, Dakota	28.46	722.9	29.80	756.9	58.7	14.8	75	ne.	3	1.3	.....	5 cs	0	.....	.....	0	0	fair	S. W. Glenn.
Indianapolis, Indiana	29.15	740.4	29.93	760.2	65	18.3	68	sw.	4	1.8	.....	4 k	hz.	w.	calm	0	0	fair	O. Schutze
Indianola, Texas	29.80	756.9	29.83	757.7	72.0	22.2	97	n.	17	7.6	.....	.....	10 s	.....	n.	1.03	26.2	cloudy	I. A. Reed.
Jacksboro, Texas	28.75	730.2	29.87	758.7	69	20.6	84	se.	7	3.1	.....	.....	10 s	.....	se.	0	0	threatening	J. P. Sherry.
Jacksonville, Florida	30.11	764.8	30.15	765.8	73	22.8	82	s.	12	5.4	.....	.....	10 n	.....	.....	0.04	1.0	light rain	J. W. Smith.
Keokuk, Iowa	29.20	741.7	29.84	757.9	70.0	21.1	70	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.01	762.2	30.03	762.7	81.5	27.5	69	se.	13	5.8	.....	6 cs	3 k;ks	.....	se.	0	0	cloudy	R. H. Paxton.
Kittyhawk, North Carolina	30.05	763.3	30.07	763.8	69	20.6	61	w.	16	7.2	.....	2 c;hs	0	.....	.....	0	0	clear	E. A. Beals.
Knoxville, Tennessee	29.05	737.9	30.06	763.5	64	17.8	80	sw.	3	1.3	.....	3 ck	2 s	w.	.....	0	0	fair	J. A. Cody.
La Crosse, Wisconsin	28.98	736.1	29.74	755.4	69	20.6	61	s.	3	1.3	.....	2 cs	4 s	.....	sw.	0	0	fair	S. C. Emery
La Mesilla, New Mexico	26.03	661.2	29.75	755.6	55.5	13.1	91	calm	0	0	.....	0	1 s	.....	.....	0.24	6.1	clear	N. D. Lane.
Leavenworth, Kansas	29.00	736.6	29.87	758.7	67	19.4	78	calm	0	0	.....	2 k	0	sw.	.....	0	0	clear	A. W. Browne.
Lewiston, Idaho	28.99	736.3	29.81	757.2	64	17.8	40	w.	8	3.6	.....	0	7 s	.....	.....	0	0	fair	W. Bell.
Little Rock, Arkansas	29.66	753.4	29.98	761.5	67	19.4	93	calm	0	0	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	W. U. Simmons.
Los Angeles, California	29.53	750.0	29.92	760.0	54.1	12.3	86	sw.	3	1.3	.....	0	2 s	.....	calm	0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.42	747.3	29.97	761.2	68	20.0	66	s.	5	2.2	.....	0	sk	.....	.....	0	0	clear	H. C. Smyth.
Lynchburg, Virginia	29.32	744.7	29.99	761.7	65.0	18.3	68	nw.	1	0.4	.....	.....	10 ks	.....	w.	0	0	cloudy	W. R. Bushby.
Madison, Wisconsin	28.76	730.5	29.75	755.6	64	17.8	84	sw.	8	3.6	.....	7 c	0	w.	.....	0	0	fair	C. A. Shaw.
Marquette, Michigan	29.02	737.1	29.74	755.4	54	12.2	61	n.	9	4.0	.....	0	hz.	.....	.....	0	0	dense haze	J. Gilligan.
Memphis, Tennessee	29.70	754.4	30.02	762.5	70	21.1	78	s.	3	1.3	.....	4 cs	0	sw.	.....	inap.	inap.	fair	D. T. Flannery.
Milwaukee, Wisconsin	29.01	736.8	29.75	755.6	67	19.4	63	sw.	15	6.7	.....	5 c	0	.....	.....	0	0	fair	W. Line.

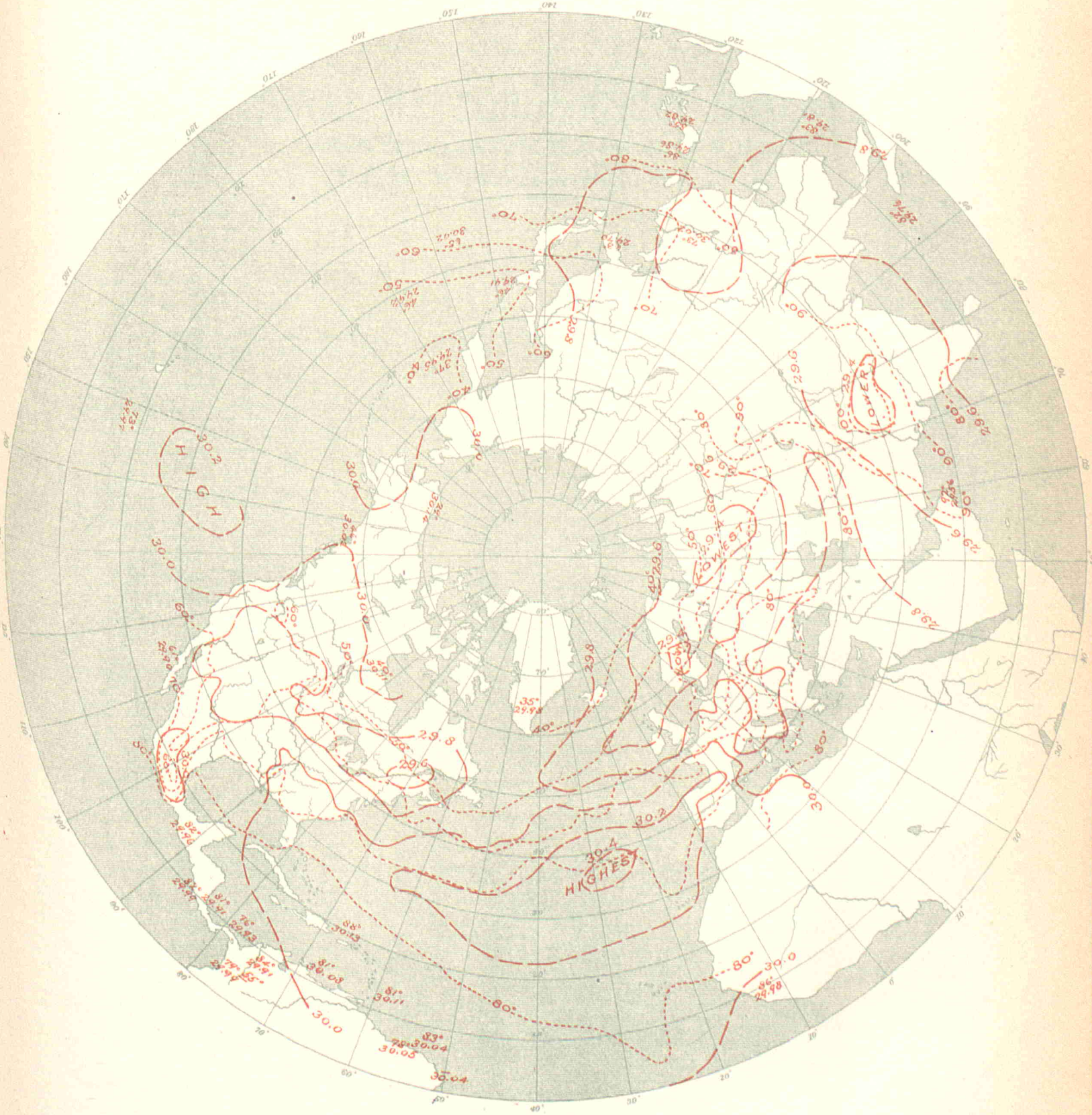
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Mobile, Alabama	30.00	762.0	30.04	763.0	70.5	21.4	90	e.	7	3.1	.....	.....	10 n	.....	s.	0.23	5.8	light rain	J. D. Paxton.
Montgomery, Alabama	29.86	758.4	30.10	764.5	67	19.4	90	sw.	2	0.9	.....	.....	10 n	.....	.....	0.05	1.3	light rain	J. B. McLaughlin.
Moorhead, Minnesota	28.85	732.8	29.82	757.4	58	14.4	74	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Morgantown, W. Virginia	28.98	736.1	29.98	761.5	66.0	18.9	55	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.59	599.2	29.71	754.6	42.0	5.6	92	nw.	50	22.4	.....	4 cs	1 k;hz	nw.	nw.	0	0	fair	J. G. Linsley.
Nashville, Tennessee	29.50	749.3	30.02	762.5	68.0	20.0	73	calm	0	0	.....	0	9 ks	.....	sw.	0	0	cloudy	L. A. Jesunofsky.
New Haven, Connecticut	29.73	755.1	29.84	757.9	68	20.0	61	sw.	2	0.9	.....	0	hz.	.....	.....	0	0	clear	J. H. Sherman.
New London, Connecticut	29.78	756.4	29.82	757.4	70	21.1	66	sw.	3	1.3	.....	2 c	0	sw.	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.88	758.9	29.93	760.2	70.5	21.4	92	e	14	6.3	.....	.....	10 n	.....	e.	0.40	10.2	light rain	L. Dunne.
Newport, Rhode Island	29.78	756.4	29.83	757.7	63.5	17.5	76	sw.	3	1.3	.....	6 k	2 ks	w.	sw.	0	0	cloudy	W. McGillivray.
New River, N. Carolina	.....	.....	.....	.....	70	21.1	71	se.	.....	.....	1	3 ck	3 ks	.....	.....	0	0	fair	C. C. Corbin.
New Shoreham, Rhode I'd.	29.81	757.2	29.84	757.9	62.0	16.7	78	sw.	12	5.4	.....	4 k	0	sw.	.....	0	0	fair	W. Davis.
New York, New York	29.71	754.6	29.88	758.9	64	17.8	73	sw.	8	3.6	.....	2 cs	0	.....	.....	0	0	clear	J. B. Merrill.
Norfolk, Virginia	29.99	761.7	30.02	762.5	70	21.1	57	w.	8	3.6	.....	5 cs	0	w.	.....	0	0	fair	J. T. Elker.
North Platte, Nebraska	26.94	684.3	29.74	755.4	64.6	18.1	73	e.	8	3.6	.....	0	5 s	.....	.....	0	0	fair	E. F. Brady.
Olympia, Washington T'y	29.94	760.5	29.98	761.5	53.5	11.9	88	calm	0	0	.....	.....	10 s	.....	s.	0.11	2.8	cloudy	J. Dascomb.
Omaha, Nebraska	28.66	728.0	29.80	756.9	72.0	22.2	73	sw.	6	2.7	.....	7 c	0	.....	.....	0	0	fair	A. Pollak.
Ogdaamie, Pt. Barrow, Alas.	30.12	765.0	30.14	765.5	28.8	— 1.8	99	ene.	6	2.7	.....	0	fg.	.....	.....	0	0	clear	P. H. Ray.
Oswego, New York	29.41	747.0	29.73	755.1	66.0	18.9	68	w.	6	2.7	.....	.....	10 s	.....	w.	inap.	inap.	cloudy	S. W. Beall.
Palestine, Texas	29.40	746.7	29.94	760.5	68.0	20.0	92	e.	5	2.2	.....	.....	10 ks	.....	e.	0.05	1.3	cloudy	L. M. Pindell.
Pensacola, Florida	30.01	762.2	30.04	763.0	71.8	22.1	84	e.	16	7.2	.....	.....	10 s	.....	e.	0.08	2.0	cloudy	M. McGauran.
Philadelphia, Pa.	29.82	757.4	29.92	760.0	67	19.4	68	sw.	4	1.8	.....	0	hz.	.....	.....	0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.87	453.9	29.69	754.1	26	— 3.3	100	s.	17	7.6	.....	.....	fg.	.....	s.	0.27	6.9	dense fog	L. M. Dey.
Pioche, Nevada	23.92	607.6	29.72	754.9	54.8	12.7	25	s.	7	3.1	.....	0	0	.....	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.13	739.9	29.92	760.0	66.8	19.3	57	sw.	6	2.7	.....	10 ck	0	w.	.....	0	0	cloudy	J. H. Bryce.
Poplar River, Montana	27.64	702.0	.....	.....	.....	.....	.....	se.	.....	.....	1	0	0	.....	.....	0	0	clear	U. D. Maxwell.
Port Eads, Louisiana	29.94	760.5	29.95	760.7	72.5	22.5	97	se.	20	8.9	.....	.....	10 n	.....	.....	0.54	13.7	heavy rain	H. G. Christian.
Port Huron, Michigan	29.10	739.1	29.77	756.1	62.1	16.7	75	sw.	15	6.7	.....	8 cs	0	.....	.....	0	0	cloudy	W. O. Bailey.
Portland, Maine	29.64	752.8	29.70	754.4	68.0	20.0	61	sw.	6	2.7	.....	3 ck	0	w.	.....	0	0	clear	W. W. Eichelberger.
Portland, Oregon	29.91	759.7	29.98	761.5	52.0	11.1	86	s.	3	1.3	.....	0	5 s	.....	.....	0.02	0.5	fair	M. L. Hearne.
Portsmouth, N. Carolina	.....	.....	.....	.....	69	20.6	84	sw.	13	5.8	.....	10 c	hz.	w.	calm	0	0	cloudy	F. P. Chaffee.
Prescott, Arizona	24.70	627.4	29.72	754.9	45	7.2	39	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. Mc N. Wright.
Provincetown, Mass.	29.76	755.9	29.79	756.7	64	17.8	78	sw.	7	3.1	.....	4 k	3 s	w.	.....	0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	30.03	762.7	30.04	763.0	76	24.4	85	e.	10	4.5	.....	10 cs	0	calm	.....	0	0	cloudy	W. J. Evans.
Red Bluff, California	29.54	750.3	29.90	759.4	57.8	14.3	70	s.	3	1.3	.....	0	5 s	.....	sw.	0	0	fair	J. M. Frantz.
Rio Grande City, Texas	29.66	753.4	29.89	759.2	74	23.3	90	ne.	4	1.8	.....	2 cs	0	w.	.....	0	0	clear	P. M. Wilson.
Rochester, New York	29.10	739.1	29.75	755.6	63	17.2	73	w.	12	5.4	.....	.....	10 n	.....	w.	inap.	inap.	light rain	E. W. McGann.
Roseburg, Oregon	29.46	748.3	30.00	762.0	52	11.1	86	calm	0	0	.....	0	7 s	.....	sw.	0	0	fair	J. J. Nanry.
Sacramento, California	29.84	757.9	29.91	759.7	53.4	11.9	86	se.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.36	745.7	29.95	760.7	66.0	18.9	87	sw.	7	3.1	.....	4 ck	0	sw.	.....	0	0	fair	J. H. Webber.
St. Paul, Minnesota	28.93	734.8	29.78	756.4	60.0	15.6	60	nw.	11	4.9	.....	6 cs	0	n.	.....	0.08	2.0	fair	P. F. Lyons
St. Vincent, Minnesota	28.99	736.3	29.84	757.9	48	8.9	86	s.	2	0.9	.....	0	8 k; s	.....	nw;c	0	0	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.46	646.7	29.68	753.9	63	17.2	30	calm	0	0	.....	6 k	0	w.	.....	0	0	fair	J. Craig.
San Antonio, Texas	29.21	741.9	29.89	759.2	70	21.1	93	ne.	3	1.3	.....	4 cs	3 s	calm	ne.	0.01	0.3	fair	E. Lane.
San Diego, California	29.84	757.9	29.90	759.4	62.3	16.8	69	se.	6	2.7	.....	.....	10 s	.....	sw.	0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.18	741.2	29.85	758.2	67	19.4	59	sw.	14	6.3	.....	5 ck	0	w.	.....	0	0	clear	M. H. Perry.
Sandy Hook, New Jersey	29.85	758.2	29.89	759.2	69.0	20.6	76	sw.	12	5.4	.....	1 ck	0	sw.	.....	0	0	clear	B. A. Blundon.
San Francisco, California	29.92	760.0	30.00	762.0	54	12.2	86	nw.	13	5.8	.....	0	fg.	.....	nw.	0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.18	588.8	29.69	754.1	52	11.1	83	n.	5	2.2	.....	6 ck	4 k	sw.	.....	0.01	0.3	cloudy	H. U. Jones.
Savannah, Georgia	30.03	762.7	30.12	765.0	73	22.8	64	sw.	7	3.1	.....	.....	10 s	.....	.....	0	0	cloudy	H. W. Ford.
Shreveport, Louisiana	29.73	755.1	29.96	761.0	69	20.6	90	e.	3	1.3	.....	1 c	0	.....	.....	0.02	0.5	clear	E. N. Meekins.
Silver City, New Mexico	24.34	618.2	29.84	757.9	50	10.0	68	nw	4	1.8	.....	0	0	.....	.....	0	0	clear	J. B. Wallace.
Sitka, Alaska	29.96	761.0	30.02	762.5	46.1	7.8	68	calm	0	0	.....	.....	10 ks	.....	calm	inap.	inap.	cloudy	J. J. McLean.
Smithville, North Carolina	30.07	763.8	30.11	764.8	74	23.3	71	sw.	9	4.0	.....	9 cs	0	w.	.....	0	0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.81	706.4	29.85	758.2	56.5	13.6	66	s.	10	4.5	.....	10 c	0	.....	.....	0	0	cloudy	D. Moore.
Springfield, Illinois	29.24	742.7	29.91	759.7	68	20.0	73	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear	T. B. Jennings.
Springfield, Massachusetts	29.67	753.6	29.80	756.9	67.6	19.8	66	s.	4	1.8	.....	2 k	0	w.	.....	0	0	clear	T. S. Outram.
Springfield, Mo.	28.54	724.9	30.00	762.0	63	17.2	84	s.	5	2.2	.....	6 k	0	w.	.....	0	0	fair	J. B. Marbury.
Starkville, Miss.	29.60	751.8	30.07	763.8	70	21.1	90	calm	0	0	.....	.....	10 n	.....	.....	0.29	7.4	light rain	M. J. Wright.
Stockton, Texas	26.88	682.7	29.80	756.9	59.0	15.0	87	n.	2	0.9	.....	8 cs	0	n.	.....	0	0	cloudy	J. O'Dowd.
Thatcher's Island, Mass.	29.71	754.6	29.76	755.9	58.0	14.4	80	w.	10	4.5	.....	3 ck	0	w.	.....	0	0	clear	G. Liebmann.
Toledo, Ohio	29.16	740.7	29.84	757.9	69	20.6	57	sw.	12	5.4	.....	2 c	3 k	w.	w.	0	0	fair	A. Buell.
Tucson, Arizona	27.42	696.5	29.72	754.9	62	16.7	54	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.57	751.1	29.93	760.2	61	16.1	56	sw.	12	5.4	.....	8 ck	2 s	nw.	.....	0	0	cloudy	J. Daly.
Uvalde, Texas	28.96	735.6	29.90	759.4	71	21.7	90	e.	4	1.8	.....	.....	10 s	.....	e.	0.02	0.5	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.76	755.9	30.01	762.2	69	20.6	90	e.	1	0.4	.....	.....	10 s	.....	.....	0.31	7.9	cloudy	H. P. Brisbane.
Visalia, California	29.54	750.3	29.91	759.7	58	14.4	64	nw.	7	3.1	.....	8 ck	0	nw.	.....	0	0	cloudy	W. L. Seward.
Washington, D. C.	29.87	758.7	29.98	761.5	67.1	19.5	73	calm	0	0	.....	7 cs	0	w.	.....	0	0	fair	B. M. Purssell.
West Las Animas, Colorado	25.93	658.6	29.71	754.6	57.9	14.4	64	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	F. W. Brandenburg.
Williamsport, Pa.	29.29	744.0	29.89	759.2	64	17.8	68	calm	0	0	.....	8 k	fg.	nw.	.....	0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.04	763.0	30.09	764.3	70	21.1	71	w.	5	2.2	.....	5 cs	4 s	sw.	sw.	0	0	cloudy	A. T. Sherwood.
Winnemucca, Nevada	25.46	646.7	29.72	754.9	56	13.3	45	sw.	10	4.5	.....	0	8 ks	.....	sw.	0	0	cloudy	J. R. Williams.
Yankton, Dakota	28.53	724.6	29.81	757.2	63	17.2	63	ne.	5	2.2	.....	2 cs	0	.....	.....	0	0	clear	J. H. Atfield.
Yuma, Arizona	29.58	751.3	29.72	754.9	68.4	20.2	45	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.05	560.1	.....	.....	55.0	12.8	63	w.	8	3.6	.....	3 k	2 s	w.	w.	0.02	0.5	fair	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.10	764.5	30.11	764.8	81	27.2	95	e.	.....	.....	.....	5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.96	761.0	29.99	761.7	79	26.1	86	calm	0	0	.....	0	8 ks	.....	calm	1.75	44.4	cloudy	J. I. Plume.
Havana, Cuba, W. I.	30.00	762.0	30.05	763.3	83	28.3	74	se.	2.4	1.1	.....	5 cs	0	.....	.....	0	0	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.04	763.0	30.05	763.3	83.7	28.7	66	n.	1	0.4	.....	3 cs	2 s	.....	e.	0	0	fine	Robert Johnston.
Magua, San Domingo, W. I.	.....	.....	.....	.....	74	23.3	.....	e.	.....	.....	3	3 s	0	.....	.....	0	0	.....	S. M. Pike.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	78	25.6	86	e.	.....	.....	2	.....	10 n	e.	e.	0.420	10.7	rainy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.45	748.0	29.91	759.7	84	28.9	72	s.	.....	.....	1	2 ck	5 k	calm	s.	0	0	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	98	ne.	.....	.....	1	.....	.....	.....	.....	0.66	16.8	fair	Earl Flint.
Santiago de Cuba, W. I.	30.02	762.5	30.05	763.3	80	26.7	65	calm	0	0	.....	2 c	0	.....	.....	0	0	clear	Robert Mason.
York Factory, B. A.	30.05	763.3	30.11	764.8	40.0	4.4	100	nw.	10	4.5	.....	.....	10 s	.....	nw.	inap.	inap.	rain & snow	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Alert, S. 33° 25′, E. 28° 04′	30.02	762.5	70.8	21.6	75	sw.					2							misty.
H. M. S. Alexandra, N. 31° 31′, E. 29° 34′	29.99	761.7	72	22.2	85	ene.			1		1							misty.
H. M. S. Amethyst, S. 23° 31′ W. 40° 22′	30.09	764.3	76.5	24.7	90	n.			1		3	se.				1	ne.	d. clouds.
H. M. S. Bacchante, Corfu, Ionian Island	29.93	760.2	71	21.7	67	ese.			1-2		0							blue sky.
H. M. S. Boadicea, Simon's Bay, Cape Colony	29.96	761.0	68	20.0		nw.			1-2		0							blue sky.
H. M. S. Champion, Honolulu, Sandwich Islands			75	23.9		calm			0		3							d. clouds.
H. M. S. Cleopatra, N. 24° 23′, E. 119° 25′	29.78	756.4	76.5	24.7	90	se.			2		3	sw.						d. clouds.
H. M. S. Coquette, Port Said, Egypt	29.98	761.5	75	23.9		n.			3		0							blue sky.
H. M. S. Cruiser, Corfu, Ionian Island	29.93	760.2	75	23.9		ene.			1		0							blue sky.
H. M. S. Diamond, S. 22° 17′, E. 166° 27′	30.00	762.0	69	20.6	79	calm			0		1							blue sky.
H. M. S. Dido, N. 10° 39′, W. 61° 30′						e.			3		4	e.						d. clouds.
H. M. Dock Yard, Bermuda, W. I.	30.20	767.1	71	21.7	73	wnw.			1		6	wnw.						d. clouds.
H. M. S. Druid, N. 18° 20′, W. 76° 38′	30.04	763.0	81	27.2	89	ese.			2		6	ese.				2	ese.	d. clouds.
H. M. S. Dwarf, S. 25° 16′, W. 57° 45′	30.15	765.8	45.5	7.5	92	s.			1		5							d. clouds.
H. M. S. Eclipse, S 9° 01′, E. 47° 42′	30.00	762.0	79	26.1		se.			5		6					4	ese.	d. clouds.
H. M. S. Emerald, S. 56° 00′, W. 76° 10′	29.89	759.2	38	3.3	90	se.			2-3		3	sse.				2	sse.	d. clouds.
H. M. S. Euryalus, Bombay, India	29.51	749.5	85	29.4	71	sw.			2		10	calm				4	sw.	raining.
H. M. S. Fantome, N. 10° 40′ W. 83° 10′	29.91	759.7	81	27.2		nw.			1-2		9	nw.				2	nw.	drizzling.
H. M. S. Flying Fish, N. 37° 27′, E. 125° 33′	29.70	754.4	62.5	16.9	88	ne.			1		7							misty.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.06	763.5	50.5	10.3	89	se.			0-2		10							misty.
H. M. S. Garnet, Montevideo Uruguay	30.32	770.1	47	8.3	77	ssw.			4		7							squally.
H. M. S. Inconstant, S. 2° 30′ W. 10° 00′	30.09	764.3	75	23.9	90	sse.			2		1	sse.				2	sse.	d. clouds.
H. M. S. Iron Duke, N. 34° 41′, E. 135° 12′	29.82	757.4	71	21.7	95	calm			0		10							raining.
H. M. S. Kingfisher, Off Perin Island, Panama Bay	29.91	759.7	81	27.2		sw.			2		2							d. clouds.
H. M. S. Lark. S. 1° 16′, E. 161° 37′	29.90	759.4	79.3	26.3		calm			0		0							blue sky.
H. M. S. Magpie, N. 34° 56′, E. 139° 52′	29.89	759.2	70	21.1	82	calm			0		10							showery.
H. M. S. Minotaur, Gibraltar, Meditterranean	30.14	765.5	70	21.1	71	n.			4-6		1							misty.
H. M. S. Nelson, S. 41° 17′ E. 174° 48′	29.94	760.5	56	13.3	100	s.			4		10							showery.
H. M. S. Northampton, Halifax, Nova Scotia	29.78	756.4	56	13.3	80	wsw.			1		0							blue sky.
H. M. S. Phœnix, N. 18° 25′, W. 77° 08′	30.02	762.5	82	27.8	95	e.			1		5	e.						d. clouds.
H. M. S. Rambler, Ambrizi, Lower Guinea	29.96	761.0	71	21.7	100	sse.			1		10					5	wsw.	overcast.
H. M. S. Rocket, Esquimalt, Vancouver Island	29.93	760.2	54	12.2	100	wsw.			1									showery.
H. M. S. Sappho, S. 25° 38′, W. 93° 30′	30.28	769.1	67.5	19.7		e.			4		8	e.				3	e.	d. clouds.
H. M. S. Swiftsure, N. 21° 29′, W. 22° 45	30.10	764.5	69.5	20.8	79	ne.			4		6	nne.				2	nne.	d. clouds.
H. M. S. Sylvia, S. 16° 50′, W. 35° 48′	30.18	766.6	78.5	25.8	74	e.			3		2					2	ene.	d. clouds.
H. M. S. Tenedos, N. 47° 34′ W. 52° 41′	30.03	762.7	49	9.4	85	sw.			2		10							overcast.
H. M. S. Thetis, S. 16° 33′ W. 74° 45′	30.00	762.0	65	18.3	89	se.			4		9					3	sse.	d. clouds.
H. M. S. Triumph, Coqumibo, Chili	30.04	763.0	57	13.9	87	calm			0		10	calm						d. clouds.
H. M. S. Woodlark, Muscat, Arabia	29.46	748.3	91.5	33.1	73	nw.			3-4		0					3	nw.	blue sky.
PORTUGUESE NAVAL.																		
Rio Liina, Porto Praya, Cape Verd Island	30.08	764.0	79.7	26.5	72	wsw.			1		0					2		blue sky.
Tamega, Macao, China	29.81	757.1	84.2	29.0	78	ssw.			3		2							blue sky.
SWEDISH NAVAL.																		
Saga, N. 50° 14′, W. 2° 12′	29.86	758.4	55.9	13.3	85	sw.			3		9							overcast.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	30.02	762.5	74	23.3	90	ese.	17	7.6			10			0.03	0.8			cloudy.
Navy Yard, Portsmouth, N. H.	29.75	755.6	67	19.4	64	w.	10	4.5			0			0	0			clear.
Naval Hospital, Yokohama, Japan*	29.81	757.2	70	21.1	82	sw.			2		10		s	0	0			threatening
Adams, Mare Island, Cal	29.99	761.7	56	13.3	94	wnw.			3		5		wnw.					fair.
Alaska, Callao, Peru	29.99	761.7	60	15.6	88	calm			0		5			0	0	sm'h		fair.
Alert, Yokosuka, Japan*	29.81	757.2	72	22.2	76	sse.			3		10		sse.	0	0			misty.
Alliance, Hampton Roads, Va	30.03	762.7	68	20.0	74	wsw.			2		2			0	0	sm'h		fair.
Ashuelot, Yokosuka, Japan	29.89	759.2	72	22.2	85	ssw.			2		10		w.					cloudy.
Brooklyn, Rio de Janeiro, Brazil	30.16	766.1	74	23.3	95	calm	0	0			10		calm	0	0	sm'h		cloudy.
Colorado, New York, N. Y.	29.88	758.9	70	21.1	66	sw.	10	4.5			2		calm	0	0			fair.
Enterprise, Norfolk, Va*	30.00	762.0	67	19.4	100	s.			2		5		sw.					fair.
Essex, Montevideo, Uruguay	30.33	770.4	48	8.9	63	ssw.			5		5		ssw.			r'gh	ssw.	fair.
Franklin, Norfolk, Va	30.04	763.0	69	20.6	60	sw.	10	4.5			5		sw.	0	0			fair.
Galena, N. 33° 12′, E. 25° 08′	29.95	760.7	73	22.8	95	ssw.			3		0					sm'h		clear.
Independence, Mare Island, Cal	29.96	761.0	55	12.8	80	wnw.			0		5		wnw.	0	0			fair.
Iroquois, San Francisco, Cal*†	29.95	760.7	58	14.4	70	wsw.			4		0							clear.
Kearsage, Hampton Roads, Va	30.02	762.5	67	19.3	84	wsw.			3		5		w.			sm'h		fair.
Lackawanna, S. 4° 05′ W. 81° 20′*	29.93	760.2	66	18.9	84	s.			4		5		sw.			mod.	sw.	fair.
Lancaster, Cadiz, Spain*	30.05	763.3	80	26.7	55	se.			4		2		s.	0	0	sm'h		fair.
Marion, S. 34° 54′, W. 56° 13′	30.24	768.1	47	8.3	100	ssw.			4		5		ssw.	0	0	mod.	ssw.	fair.
Michigan, Erie, Pa	29.99	761.7	66	18.9	64	ssw.			2		0							clear.
Minnesota, Newport, R. I.	29.88	758.9	62	16.7	83	sw.	2	0.9			8		w.					cloudy.
Monocacy, Nagasaki, Japan	29.63	752.6	71	21.7	?	sw.			2		10		calm					rainy.
New Hampshire, Newport, R. I.	29.78	756.4	60	15.6	100	s.			2		8					sm'h		fair.
Nipsic, Messina, Sicily	29.89	759.2	74	23.3	76	s.			3		5		se.			sm'h		fair.
Onward. Callao, Peru†	30.12	765.0	59	15.0	94	sse.			1		10		e.			long	w.	cloudy.
Palos, Kobe, Japan	29.83	757.7	66	18.9	79	ne.			1		10		calm					rainy.
Passaic, Washington, D. C.	30.00	762.0	67	19.4	100	sw.			1		5		sw.					fair.
Pensacola, Callao, Peru	30.01	762.2	60	15.6	94	wnw.	4	1.8			8		nw.	0	0	sm'h		cloudy.
Powhatan, Norfolk, Va	30.01	762.2	70	21.1	57	w.			2		0							clear.
Portsmouth, Portsmouth, Eng*†	30.08	764.0	56	13.3	100	w.			4		5					sm'h		cloudy.
Quinnebaug, N. 32° 01′ W. 18° 06′	30.21	767.3	67	19.4	69	nne.			4		8		ne.			mod.	ne.	squally.
Ranger, N. 35° 40′ W. 121° 10′*	29.93	760.2	56	13.3	81	wnw.			4-5		2		nw.	0	0	mod.	w.	hazy.
Richmond, Kobe, Japan*	29.76	755.9	68	20.0	84	ne.			1		10			0.05	1.3			raining.
Saratoga, Cowes, Eng	29.88	758.9	59	15.0	70	w.			2-4		8		w.	light	light	sm'h	w.	cloudy.
St. Louis, League Island, Pa	30.16	766.1	67	19.4	69	sw.	6	2.7			2			0	0			clear.
Swatara, Nagasaki, Japan*	29.48	748.8	72	22.2	90	ssw.			4		10		sw.			sm'h		heavy rain.
Tennessee, Fort Monroe, Va	30.05	763.3	69	20.6	65	sw.	9	4.0			8			0	0			fair.
Vandalia, off Norfolk, Va*	29.99	761.7	69	20.6	80	sw.			2		5		sw.					fair.
Wabash, Boston, Mass	29.77	756.1	70	21.1	75	sw.	4	1.8			5		sw.	0	0			fair.
Wachusetts, Fort Wrangle, Alaska	29.89	759.2	40	4.4	92	nnw.			1		8			0	0	sm'h		fair.
Wyoming, Port Royal, S. C.	30.12	765.0	70	21.1	75	w.	10	4.5			10		wsw.	0	0			overcast
Yantic, Hampton Roads, Va*	29.99	761.7	67	19.4	79	sw.			3		8		wsw.					cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Nova Scotian, N. 51° 07′, W. 42° 14′	29.88	758.9	50	10.0		wnw.			5		10		w.			long	wnw.	cloudy.
S. S. Prussian, N 48° 24′ W. 50° 02′*	29.95	760.7	46	7.8		var.			1		1		se.	0	0	long	ne.	clear.
S. S. Scandinavian, Boston, Mass*	29.67	753.6	65	18.3		ssw.			3		0			0	0			blue sky.
S. S. Waldensian, Moville, Ireland*	29.70	754.4				wnw.			5		8		nnw.	light	light	mod.	w.	showery.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, Liverpool, Eng	29.66	753.4	62	16.7	88	sw.			4		10		ssw.					overcast.
S. S. Indiana, N. 40° 23′, W. 48° 20′†	30.15	765.8	61	16.1	94	n.			4		10		n.			mod.	n.	overcast.
S. S. Lord Clive, Off Mine Head, Ireland *†	29.60	751.8				w.			5		10		wsw.	6 h'r	6 h'r	sl'gt	sw.	raining.
ANCHOR LINE.																		
S. S. Bolivia, N. 41° 55′, W. 44° 14′†	29.82	757.4	65	18.3		ssw.			4		10		ssw.	10 h'r	10 h'r	mod.	sw.	overcast.
S. S. Ethiopa, N. 47° 23′, W. 36° 48′	30.07	763.8	55.5	13.1	84	nw.			3		10		w.	3 h'r	3 h'r	mod.	n.	overcast.
S. S. India, N. 37° 20′, E. 17° 12′*	29.86	758.4	76	24.4	91	ese.			2		2					sm'h		fair.
S. S. Utopia, Messina, Italy†	30.22	767.6	80	26.7	58	s.			2		5		s.	0	0			fair.
ATLAS LINE.																		
S. S. Ailsa, Savanilla, U. S. C.†	29.82	757.4	82	27.8	91	ne.			3		5		ne.	0	0	long	ne.	fair.
S. S. Alvena, N. 18° 45′, W. 74° 06′†	29.91	759.7	82	27.8	87	ese.			4		2		se.	1 h'r	1 h'r	mod.	con.	fine.
S. S. Alvo, N. 11° 00′, W. 75° 02′	29.91	759.7	104?	40.0?		calm			0		1		w.	0	0			hazy.
S. S. Antillas, N. 24° 06′, W. 73° 55′						ne.			2							sm'h	ne.	fine.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 38° 23′, E. 49° 43′	30.12	765.0	62.5	16.9	71	nw.			4		10							overcast.
S. Baroda, N. 7° 37′, E. 92° 32′	29.78	756.4	82.7	28.2	85	ssw.			4		8							d. clouds.
British Merchant, N. 4° 50′ W 25° 48′	30.06	763.5	78.5	25.8	80	s.			2–3		9							d. clouds.
S. S. Cipero, N. 30° 08′ W. 42° 40′	30.30	769.6	76	24.4	77	sse.			1		3							d. clouds.
Bk. Commewyne, N. 6° 49′, W. 53° 33′	30.04	763.0	83.2	28.4	79	ne.			4		6							d. clouds.
Glencairn, S. 23° 04′, E. 4° 26′	30.23	767.8	67.5	19.7	90	ssw.			4		6							showery.
S. S Gordon Castle, N. 4° 48′, E. 106° 24′	29.81	757.2	83	28.3	83	w.			5		10							raining.
May Hulse, S. 54° 02′, W. 79° 53′	29.92	760.0	42	5.6	83	sse.			5		9							d. clouds.
S. S. Minho, Rio de Janeiro Brazil	30.16	766.1	74	23.3	95	ne.			1		10							misty.
CROMWELL LINE.																		
S. S. Hudson, N. 27° 05′, W. 87° 05′†	30.00	762.0	76	24.4		ese.			6		10		se.	16 h'r	16 h'r	h'vy	ese.	overcast.
CUNARD LINE.																		
S. S. Bothnia, N. 51° 08′. W 15° 52′	29.77	756.1	61	16.1	77	w.			5–6		10			15 h'r	15 h'r		w.	raining.
S. S. Marathon, N. 44° 32′, W. 43° 38′	29.96	761.0	52	11.1		ene.			4		10		ene.	24 h'r	24 h'r	r'gh	ene.	raining.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. St. Laurent, N. 40° 22′, W. 67° 15′†	30.06?	763.5?	60.8	16.0	100	sw.			4					0	0	sm'h	sw.	clear.
S. S. Ville de Marseilles. N. 41° 46′, W. 37° 28′*†	30.20	767.1	66	18.9		sw.			6		10		sw.	0	0	mod.	sw.	foggy.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 49° 38′, W. 14° 46′,*†	29.87	758.7				w.			6		7		wsw.	4 h'r	4 h'r	h'vy	w.	hazy.
S. S. Cimbria. N. 44° 00′, W. 44° 45′	29.94	760.5	53	11.7		ene.			5		10		e.	8 h'r	8 h'r	mod.	ene.	raining.
S. S. Herder, N. 42° 35′, W. 30° 42′*†	30.11?	764.8?	68	20.0		sw.			4		4		sw.	0	0		w.	foggy.
S. S. Lessing, Hamburg, Germany	29.60	751.8	65	18.3		wsw.			4		10		sw.	0	0			covered.
S. S. Wieland, N. 46° 28′, W. 31° 27′	30.17	766.3	61	16.1		sw.			4		10		sw.	8 h'r	8 h'r	4	wsw.	rainy.
INMAN LINE.																		
S. S. City of Berlin. N. 41° 30′ W. 51° —′	29.98	761.5				nne.			3		10			8 h'r	8 h'r	sm'h		foggy.
JOHNSTON LINE.																		
S. S. Thanemore, N. 52° 12′, W. 6° 04′	29.71	754.6				sse.			4		10		s.	mist	mist	sm'h		
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, N. 50° 10′, W. 4° 00′*†	30.09	764.3	60	15.6		wsw.			4		9		w.	0	0	sm'h		cloudy.
LEYLAND LINE.																		
S. S. Iberian, N. 42° 28′, W. 66° 55′	29.79	756.7				sw.			3					0	0			clear.
MALLORY LINE.																		
S. S. Colorado, New York, N. Y.†	29.83	757.7	65	18.3		wsw.			2		0			0	0			clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Hermod, N. 32° 51′, W. 76° 18′*†	29.88	758.9	78.8	26.0		ssw.			2		6		sw.	0	0	mod.	ssw.	cloudy.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, N. 0° 26′. W. 47° 10′	29.54	750.3				ese.			7				e.	4 h'r	4 h'r		e.	clear.
S. S. Glenapp, Rio de Janeiro, Brazil. *†	30.00	762.0				e.			1		0			0	0			clear.
NATIONAL LINE.																		
S. S. Denmark, New York, N. Y	29.88	758.9	72	22.2		sw.			2		0			0	0			clear.
S. S. Holland, N. 45° 07′, W. 35° 47′	30.16	766.1	60	15.6		sw.			4		10			0	0	mod.	sw.	foggy.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, N. 21° 02′, W 74° 10′†	30.12	765.0	81	27.2		e.			4		2		e.	0	0	g'ntle	ene.	fine.
S. S. Saratoga, N. 25° 39′ W. 79° 50′†	30.31	769.9	83	28.3	79	ene.			4		6		e.	0	0	mod.	ne.	cloudy.
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, Havana, Cuba, W. I *†	30.10	764.5	80	26.7	86	sse.			2		3		ese.	2 h'r	2 h'r			squally.
S. S. City of Washington, Vera Cruz, Mexico *†	30.00	762.0	82	27.8		calm			0		10			light	light			cloudy.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Maas, N. 45° 42′, W. 33° 23′*†	30.13	765 3	58	14.4		sw.											sw.	foggy.
NORTH GERMAN LLOYD.																		
S. S. Elbe, N. 51° 06′, E. 0° 30′	29.85	758.2	57.2	14.0	89	nw.			2		2		w.	0	0	sm'h	w.	clear.
S. S. Gen. Werder, N. 49° 25′, W. 13° 06′	29.85	758.2				w.			6		10			2 h'r	2 h'r	cross	wnw.	covered.
S. S. Graf Bismarck, N. 29° 14′, W. 15° 45′	30.24	768.1	72.5	22.5		ne.			4		5		ne.			high	ne.	fair.
S. S. Habsburg, N. 40° 20′, W. 63° 02′	29.99	761.7	76.1	24.5		ssw.			4		0			0	0	sm'h		clear.
S. S. Oder, N. 48° 58′, W. 18° 09′	29.97	761.2	61.7	16.5		w.			5		9		w.	12 h'r	12 h'r	mod.	w.	cloudy.
S. S. Ohio, N. 42° 51′, W. 38° 13′	30.22	767.6				wsw.			5		10		wsw.	0	0	sm'h	wnw.	cloudy.
S. S. Rhein, Bremerhaven, Germany	29.58	751.3				w.			2		3		w.	0	0			clear.
S. S. Salier, Bremerhaven, Germany	29.78	756.4	59.0	15.0		nw.			4		10		nw.	2 h'r	2 h'r			raining.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 35° 06′, E. 154° 25′*†	30.02	762.5	65	18.3	94	var.			3		10		w.	shr's	shr's	sm'h		showery.
S. S. Belgic, Yokohama, Japan †	30.00	762.0	71	21.7	76	sw.			2		10		s.	0	0			cloudy.
S. S. Gaelic, Hong Kong, China†	29.70	754.4	87	30.6	75	s.			2		1		se.					clear.
S. S. Oceanic, N. 41° 15′, W. 129° 24′*	30.07	763.8	54	12.2	86	sw.			5		9		w.			4	wnw.	cloudy.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga †	30.16	766.1				sw.			1		10		w.					raining.
S. S. City of Columbus, N. 33° 58′, W. 77° 07′†	30.15	765.8				sw.			3		4?					mod.	sw.	cloudy ?
S. S. Seminole, Boston, Mass†	29.82	757.4	76	24.4	43	w.			4		1		wsw.	0	0			clear.
OREGON IMPROVEMENT COMPANY.																		
S. S. Willametta, N. 42° 55′, W 124° 40′†	30.04	763.0	55	12.8	80	sw.			1		5		ssw.	0.07	1.8		w.	squally.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, Portland, Oregon †	29.79	761.7	53	11.7	93	e.			1		2		e.					fair.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 32° 42′, W. 117° 19′†.	29.87	758.7	61	16.1	82	se.			3		10		se.			sm'h		cloudy.
S. S. Dakota, Seattle, Wash. Ter.*†	29.94	760 5	57	13.9	81	w.			1		2		w.			sm'h		clear.
S. S. Idaho, Columbia River, Oregon†	30.26	768.6	54	12.2	87	calm			0		5?					sm'h		cloudy ?
S. S. State of California, N. 41° 00′, W. 124° 30′†.	30.01	762.2	54	12.2	87	nw.			4		3		nnw.			sm'h	nnw.	fair.
S. S. Victoria, San Francisco, Cal †	29.84	757.8	55	12.8	100	nw.			2		2					sm'h		clear.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. City of Australia, N. 30° 02′, W. 141° 34′	30.26	768.6	63	17.2	94	se.			3		8			0	0	sm'h		misty.
S. S. City of New York, N. 27° 30′, W. 146° —′†	30.26	768.6	72	22.2	95	e.			4		1		e.	0	0	mod.	e.	clear.
S. S. City of Pekin, N. 32° 34′, E. 133° 10′ †	29.75	755.6	67	19.4	95	se.			5		10		se.	light	light	sm'h		drizzling.
S. S. City of Rio de Janeiro, Panama, Panama*†	30.10	764.5	78	25.6	91	nw.			2		6		nw.	0	0			fair.
S. S. City of Sydney, Sydney N. S. W.†	30.00	762.0	62	16.7	56	sw.			5		5		sw.	⅛ h'r	⅛ h'r	sm'h		fair.
S. S. City of Tokio, N. 42° 16′, E. 165° 25′†	29.92	760 0	46	7.8	84	e.			0		10		e.	19 h'r	19 h'r	r'gh	ne.	misty.
S. S. Clyde, N. 13° 53′, W. 90° 49′†	29.96	761.0	82	27.8	68	ene.			2		2		ene.	2 h'r	2 h'r	long	ssw.	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
PACIFIC MAIL STEAMSHIP COMPANY.—CONTINUED.																		
S. S. Colima, N. 17° 11′, W. 101° 10′ †	29.91	759.7	80	26.7	87	w.			3		8		w.	0.07	1.8	mod.	ese.	cloudy.
S. S. Colon, Aspinwall, Panama†	29.93	760.2	76	24.4		calm			0		9		ne.	0	0	mod.	nne.	cloudy.
S. S. Granada, N. 25° 46′, W. 113° 45′ †	29.90	759.4	61	16.1	94	n.			3		10		n.	0	0	mod.	nnw.	cloudy.
S. S. South Carolina, Off Cape Blanco, Costa Rica†	29.99	761.7	82	27.8	87	var.			1		10		ne.	4 h'r	4 h'r	sm'h		rainy.
S. S. Zelandia, Sydney, N. S. W	30.01	762.2	60	15.6	71	se.			6		10		se.			sm'h		squally.
QUEBEC STEAMSHIP COMPANY.																		
S. S. Muriel, Off Sombreno, W. I.	29.82?	757.4?	82	27.8		ene.			4		0			0	0	long	e.	clear.
S. S. Bermuda, St. Pierre, Martinique, W. I†	30.11	764.8	81	27.2		ese.			2		9		ese.	sh'rs	sh'rs	sm'h		cloudy.
RED STAR LINE.																		
S. S. Nederland, N. 49° 56′, W. 4° 59′ †	30.05	763.3	55	12.8		sw.			4		10		w.	driz.	driz.	sm'h	w.	rainy.
S. S. Rhynland, Jersey City, N. J	29.84	757.9	68	20.0	74	sw.			2		0			0	0			clear.
S. S. Switzerland, N. 50° 40′ E. 0° 15′ †	29.97	761.2				wsw.			4		5		wsw.	0	0	sm'h		fair.
S. S. Vaderland, N. 48° 40′, W. 21° 49′	29.84	757.9	62	16.7	72	w.			5		10		w.	6 h'r	6 h'r	r'gh	w.	overcast.
ROTTERDAM LINE.																		
S. S. W. A. Scholten, N. 40° 23′ W. 69° 23′	29.80	756.9	55.4	13.0	97	sw.			4		2		sw.	0	0	sm'h	sw.	
STATE LINE.																		
S. S. State of Florida, Glasgow, Scotland	29.49	749.0	62	16.7		sw.			3		10		sw.	sh'rs	sh'rs			raining.
S. S. State of Georgia, N. 47° 46′, W. 34° 31′ †	30.15	765.8	55	12.8		wnw.			3		8		nw.			mod.	nw.	fair.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 52° 52′ W. 33° 14′ †	30.00	762.0	49.1	9.5	78	w.			6		9		w.	0	0	cross	w.	covered.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 40° 33′, W. 70° 30′	29.86	758.4									5		ssw.	0	0			
WHITE STAR LINE.																		
S. S. Adriatic, N. 40° 25′ W. 68° 36′ †	30.01	762.2	52	11.1	93	ssw.			4		2		s.	0	0	sm'h		misty.
S. S. Baltic, N. 46° 02′ W. 37° 03′ †	30.16	766.1	54	12.2	100	nne.			4		10		wsw.	16 h'r	16 h'r	mod.	w.	drizzling.
S. S. Celtic, N. 44° 43′, W. 42° 06′ †	30.03	762.7	54	12.2	93	ene.			5		10		e.	20 h'r	20 h'r	mod.	e.	rainy.
WILSON LINE.																		
S. S. Romano, N. 46° 56′, W. 26° 18′	29.98	761.5	58	14.4		wsw.					10			rain	rain	mod.	w.	foggy.
MISCELLANEOUS.																		
Bg. Abbie Clifford, N. 12° 42′ W. 67° 02′* †	30.08	764.0	81	27.2		e.			5		8	se.	e.	0	0	r'gh	ne.	fair.
Schr. Addie Fuller, Newport News, Va†	30.08	764.0	68	20.0	60	wsw.			2	7 ck	0	sw.		0	0			fair.
Bk. Adelaide, N. 31° 24′, W. 71° 22′* †	30.24	768.1	75	23.9		sw.			1		4		sw.	0	0	light	nw.	hazy.
Schr. Ajax, Blackwater, Fla†	30.16	766.1				se.			1		10		nw.	8 h'r	8 h'r			cloudy.
Bk. Alpha, N. 19° 22′ W. 73° 50′ †	29.98	761.5	84	28.9		ese.			2		2		e.	0	0	mod.	ne.	fair.
Sch'r Annie R. Lewis, Mobile, Ala†	30.13	765.3	72	22.2		n.			2		10		n.	8 h'r	8 h'r			misty.
Bk. Annie Thorman, S. 6° 44′, W. 33° 30′	30.12	765.1	81.3	27.4	71	ese.			5		3 k		se.	4 h'r	4 h'r	mod.	ese.	fair.
S. S. Antonio Lopez, Santander, Spain	30.23	767.8	66	18.9	68	nw.			3	4 c				0	0			clear.
Schr. Asa Eldridge, Punta Rassa, Fla†	30.11	764.8				ene.			3		2		ne.	0	0	sm'h		fair.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.25	768.3	84	28.9		calm			0		10		calm	5 h'r	5 h'r			overcast.
Ship Annie M. Small, N. 17° 05′, E. 115° 15′* †	29.83	757.7												0	0			
Bk. Bergenseren, N. 40° 56′ W. 43° 15′ †	30.10	764.5	66	18.9		s.			4				ssw.	0	0	5		hazy.
Bk. Bremen, N. 49° 12′ W. 9° 26′						wsw.			6		10		wsw.	8 h'r	8 h'r	mod.	w.	light rain.
Schr. C. R. Flint, N. 22° 16′, W. 97° 48′ †	30.03	762.7	82	27.8		ne.			2		5		wsw.	0	0	long	ene.	fair.
Schr. Edith R. Seward, N. 38° 23′, W. 76° 19′* †	29.98	761.5	71	21.7		sw.			1		1		wsw.	0	0	sm'h	s.	clear.
S. E. J. Spicer, N. 49° 04′, W. 24° 00′ †	30.07	763.8				nw.			5		8		nnw.	shr's	shr's	long	nnw.	
Bk. Essex, N. 11° 06, W. 31° 28′* †	30.09	764.3	80	26.7		e			4		2		ene.	0	0		ene.	clear.
S. Exporter, S 40° 04′, E. 52° 00′* †	29.75	755.6				w to se			4					22 h'r	22 h'r	cross		
Bk. Freya, N. 47° 38′, W. 25° 08′			56	13.3		w.			4		fg.			4 h'r	4 h'r	mod	w.	foggy.
Bk. Godfrey, Off Waterford, Ireland	25.70	754.4	55.9	13.3	96	ssw.			6		10			4 h'r	4 h'r	mod.	sw.	raining.
S. Grecian, N. 10° 20′, E. 110° 22′* †	29.80	756.9	80	26.7		ssw.			4		4		ssw.	1 h'r	1 h'r	sm'h		clear.
Bk Hattie G. McFarland, Sydney, Cape Breton* †	29.89	759.2	44	6.7		sse.			3		5?		sw.	0	0			cloudy.?
S. Hedwig, N. 38° 22′, W. 59° 09′	30.11	764.8	68.4	20.2	74	nw.			4		3		nw.	1 h'r	1 h'r	long	nw.	fine.
Bk. Horace Scudder, N. 33° 09′ W. 73° 23′. †	30.13	765.3	72	22.2		sw.			1		5		w.	0	0	light	sw.	hazy.
S. Ismir, S. 18° 10′ W 35° 52′ †	30.17	766.3				ese.			3		5		ese.			sm'h	ese	squally.
Schr. James Slater, N. 20° 16′, W. 46° 38′* †	30.46	773.7	79	26.1		ese.			3		2		se.	0	0	mod.	ese.	
Schr. Jennie N. Huddle, New York, N. Y†	30.05	763.3	72	22.2	67	sw.			1					0	0			hazy.
Schr. John L. Thomas, Albuquerque Cays, C. A* †	29.98	761.5				ne.			4		2		e.	0	0			clear.
Bkt. Josephine, N. 25° 26′, W. 74° 29′ †	30.26	768.6	84	28.9	75	e.			4		8		e.	0	0	sm'h		fair.
Bk. Julia H., Havana, Cuba, W. I	30.03	762.7	79.1	26.2	86	ese.			2		5		w.					d. clouds.
Light House Tender, Laurel, Key West, Florida†	30.08	764.0	83	28.3		ssw.			4		7		sse.	0	0			cloudy.
S. Minnie N. Gerow, N. 42° 10′, W. 47° 50′* †	29.92	760.0				nw.			3		10		w.			sm'h	w.	threatening.
S. M. P. Grace, N. 31° 54′, W. 41° 46′*	30.24	768.1	74	23.3		baff.			2				sse.	0	0	sm'h	se.	
S. S. Nebo, St. John's N. S* †	30.13	765.3				sse.			4		10		s.	0	0			misty.
S. Paramita, S. 45° 20′, W. 55° 01′ †	30.06	763.5	42	5.6		var.			5		5		se.	2 h'r	2 h'r	large	ese.	
Bk. Pawashick, N. 47° 00′ W. 4° 34′* †	30.30	769.6	65	18.3	95	w.			5		10		nw.			mod.	wnw.	overcast.
Bk. Peppina, N. 45° 40′ W. 2° 28′ †	30.11	764.8	60	15.6	82	w.			4		8		w.	0	0	long	wnw.	cloudy.
S. S. Ponca, S. 8° 20′, W. 34° 45′ †	30.04	763.0	85	29.4		sse.			1		2		se.	0	0	mod	se.	clear.
Bg. Potomac, N. 30° 40′, W. 60° 02′* †	30.10	764.5				nw.			1				nw.	0	0	h'vy	nw.	fine.
Bk. Princessen, N. 57° 20′ E. 8° 09′ †	29.63	752.6	57	13.9		w.			4		0			0	0	sm'h		clear.
Bk. Rosebud, S. 9° 16′, W. 29° 20* †	30.12	765.0	81	27.2	74	se.			4		0			0	0	sm'h		clear.
S. Salisbury, S. 39° 02′, E. 66° 02′*	29.93	760.3	56.8	13.8	83	sse.			6		4		sse.	2 h'r	2 h'r	r'gh	ese.	fair.
Bk. Stella, N. 19° 08′, W. 148° 59′*	29.97	761.2	72.7	22.6	90	ene.			4		8		e.	0	0	mod.	ne	
Bg. Teneriffe, N. 30° 02′, W. 71° 13′	30.15	765.8				se.			1		8		se.	0	0	mod.		
Bk. Truro, Havre, France* †	29.93	760.2				w.			3		10		w.					sprinkling.
U. S. F. C. S. S. FishHawk, Havre de Grace, Md†	30.14	765.5	75	23.9	95	wsw.			1		3		calm	0	0			fair.
Yacht Vega, St. Thomas Id, W. I.* †	30.00	762.0	81	27.2		ese.			1				ese.	3 h'r	3 h'r			
S. S. Victoria J. Peed, Salamanca Id, U. S. C.						ne.			1		2							
Bk. Vincenzo Accame, N. 38° 36′ W. 41° 20′ †	30.39	772.0	75.2	24		s.			4									
Schr. Viola Reppard, Brunswick, Ga†	29.96	761.0	76.5	24.7		sse.			1		10		ssw.	0	0			misty.
S. Warden Law, N. 40° 00′, W. 57° 58′*	30.14	765.5				wsw.			2		2		wsw.	0	0	sm'h	wsw.	fair.
Bk. Wm. Wilcox, N. 5° 19′, W. 26° 20′* †	30.17	766.3	77	25.0		n.			1		10		calm	8 h'r	8 h'r	sm'h		

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 9, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.04	762.9	76.1	24.5	44	n.			1		1			0	0	very fair	Moiroud.
Algiers			30.08	764.1	73.4	23.0	55	nne.			1		1			0	0	very fair	Nicolas.
La Calle			30.06	763.5	79.2	26.2	54	n.			1		3			0	0	pretty fair	Fonfrède.
Tunis			30.04	763.0															Jacques.
Saida			30.12	765.0	88.2	31.2	34	se.			1		2			0	0	fair	Perès.
Tebessa			30.11	764.7	79.2	26.2	21	ne.			2		1			0	0	very fair	Derché.
Gerlville					88.9	31.6	18	nnw.			1		0			0	0	clear	Lonchamp.
Laghouat			30.13	765.4	86.0	30.0	36	w.			1		0			0	0	clear	Abraham.
Biskra			30.12	765.1	89.2	31.8	26	wnw.			2		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	30.22	767.6	30.31	769.9	41.9	5.5	92	ene.	2	0.9			1			0	0	foggy	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.16	740.6	29.70	754.3	59.0	15.0	63	s.			3		8			0.181	4.6		Prof. Ivan Stozir.
Cracow, I. R Observatory	28.90	734 1	29.65	753.0	63.3	17.4	86	ene.	4.3	1.9			10			0.094	2.4		Dr. Wierzbiski.
Eperies	28.80	731.6	29.67	753.7	75.4	24.1	73	s.			3		10 ks		n.	0.047	1.2		Julius Mikolik.
Gratz	28.47	723.1	29.69	754.2	60.1	15.6	92	nw.			4		6			1.063	27.0	thunder	Andreas Rospini.
Hermannstadt	28.32	719.2	29.64	752 9	81.5	27.5	37	s.			6		10			2.185	55.5		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.41	721.5	29.74	755.3	52.2	11.2	92	w.			1		10			0.248	6.3	rain & hail	The Staff.
Lemberg	28.69	728.7	29.60	751.9	82.0	27.8	41	se.			3		2			0.685	17.4		Dr. T. Stanecki.
Pola	29.61	752.1	29 72	754.9	68.4	20.2	74	s.			2		5			0.433	11.0		I. R. Hydrographic Office.
Szathmar	29.22	742.1	29.66	753.4	80.4	26 9	47	sw.			3		5			1.016	25.8	thnd'r storm	Joseph Midlinszky, S. J.
Szegedin	29.40	746.8	29.67	753.7	65.5	18.6	70	s.			1		10			0.457	11.6	thnd'r storm	Karl Stancel.
Trieste	29.62	752.3	29.72	754.9	70.0	21.1	57	sw.			1		9			0.028	0.7		Royal Academy.
Vienna	29.00	736 7	29.70	754.4	58.5	14.7	80	w.			3		8			0.130	3.3		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.33	745.0	29.43	747.5	50.7	10.4	96	ene.	19	8.5			10			0.065	1.6	squally	W. Boswell
Armagh, Observatory	29.15	740.4	29.40	746.7	52.1	11.2	93	nw.	9	4.0			10					raining	S. Call.
Bidston, Liverpool Obs'y			29.36	745.7	54.8	12.7	83	w.	32	14.3			7					d. clouds	John Hartnup.
Bolton, Sharples	28.81	731.8	29.32	744.7	52.4	11.3	89	wsw.	24	10.7			8					d. clouds	Thomas Mackereth. [A.S.
Bradford, Yorkshire	28.91	734.3	29.31	744.5	58.0	14.4	70	w.			1		6			0.10	2.5	d. clouds	J. McLandsborough, F. R
Bridgetown, Barbadoes					83.0	28.3	78	ne.			2		3					d. clouds	Corpl. J. Surgenor, A. H. C.
Cardington																			John McLaren.
Chatham, School M. E.	29.32	744.7	29.45	748.0	59.0	15.0	64	sw.			1		9			blank	blank	gloomy	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.41	747.0	29.04	752.8	59.0	15.0	67	w.			5		7					squally	The Staff.
Fort Napier, Natal	27.52	699.0	29.74	755.4	80.2	26.8	33	nw.			3		1					blue sky	Pvt. Lane, A. H. C.
Free Town, Sierra Leone	29.74	755.4	29.97	761.2	84.0	28.9	83	nw.			1		3					drizzling	Sergt. John Robinson.
Gibraltar, Mediterranean	29.96	761.0	30.01	762.2	75.6	24.2	76	e.			1		0					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.12	739.6	29.33	745.0	57.7	14.3	69	ene.			5		9 n					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.26	743.2	29.43	747.5	54.5	12.5	79	wsw.			1		8					raining	The Staff.
Guernsey	29.42	747.3	29.71	754.6	58.5	14.7	81	w.			2		0			blank	blank	blue sky	A. Collenette, F. M. S.
Kew, Observatory	29 42	747.3	29.46	748.3	57.4	14.1	62	w.	19	8.5			8					showery	The Staff.
Leicester, Museum	29.12	739.6	29.37	746.0	50.8	13.8	64	nw.			3		10					d. clouds	J. C. Smith.
Malta, Mediterranean	29.99	761.7	30.07	763.8	73.0	22.8	56	nw.			3		9					overcast	I. H. Whysall.
Nassau, Bahamas	30.04	763.0	30.08	764.0	84.2	29.0	83	se.			1		10					overcast	C. S. Duncombe.
Oscott, St. Mary's College	28.89	733.8	29.40	746.7	51.4	10.8	83	wnw.			4		8					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.21	741.9	29.44	747.8	57.4	14.1	64	w.			3		4					squally	The Staff.
Plymouth	29.51	749.5	29.59	751.6	62.5	16.9	71	wnw.			4		8					d. clouds	John Merrifield.
Sandwick Manse, Orkneys			29 58	751 3	52	11.1	86	e.	20	8.9			5					d. clouds	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.85	758 2	29.91	759.7	76.2	24.6	69	s.			1		1					blue sky	W. H. Lyne.
Sheffield	29.07	738.4	29.34	745.2	58.4	14.7	76	wsw.			3		9			0.06	1.5	d. clouds	W. F. Cooper.
Silloth Rectory	29.27	743.4	29.30	744.2	59.2	15.1	75	nnw.			1		5			0.450	11.4	d. clouds.	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.35	745.5	54.0	12.2	79	wnw.	16	7.2			10					threatening.	J. Newe.
Strathfield Turgiss	29.26	743.2	29.47	748.5	58.8	14.9	74	w.			3-4		8					squally	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.61	752.1	29.63	752.6	62	16.7	71	nw.			7		5					d. clouds	W. Newcombe.
Valencia, Observatory	29.63	752.6	29.60	753.4	52.6	11.4	83	wnw.	21	9.4			10					d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.70	754.4	29.74	755.4	55	12.8	89	s.	1	0.4			10 n			0.030	0.8	light rain	H. J. Cundall, C. E.
Chatham, N. B*	29.66	753.4	29.72	754.9	55	12.8	100	sw.	2	0.9		5 cs	5 ks	sw.	sw.	0.03	0.8	cloudy	G. A. Blair.
Father Point, Quebec*	29.60	751.8	29.62	752 3	53	11.7	86	ne.	5	2.2		5 ck	2 s	calm	calm	0.16	4.1	fair	J. McWilliams.
Halifax, N. S*	29.64	752.8	29.77	750.1	51	10.6	83	se.	5	2.2		5 k	0	w.		0	0	fair	A. Allison.
Kingston, Ontario*	29.28	743.7	29.61	752.1	57	13.9	93	nw.	4	1.8			10 ks		sw.	0.02	0.5	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.32	744.7	29.52	749.8	59	15.0	78	w	14	6.3			10 ks		w.	0.49	12.4	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.07	738.4	29.75	755.6	53	11.7	66	nw.	11	4.9		0	0			0	0	clear	Rev. R. Mosley.
Port Dover, Ontario	29.10	739.1	29.78	756.4	54	12.2	74	nw.	15	6.7		4 ck	0	w.		0.77	19.6	fair	H. Morgan.
Port Stanley, Ontario	29.16	740.7	29.80	756.9	51	10.6	66	nw.	10	4.5		2 ck	0	nw.		1.07	27.2	clear	M. Payne.
Quebec, Quebec*	29.24	742.7	29.56	750 8	52	11.1	90	ne.			5		10 n		w.	0.10	2.5	light rain	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.20	741.7	29.65	753.1	51	10.6	80	nw.	5	2.2		5 k	0	nw.		0	0	fair	W. H. McIntyre.
Saugeen, Ontario*	29.09	738.9	29.79	756.7	52	11.1	93	n.	3	1.3		2 cs	0			0	0	clear	
St. Andrews, N. B	29.62	752.3	29.67	753.6	47	8.3	92	se.	3	1.3			fg			0.33	8.4	foggy	
Sydney, C. B*	29.73	755.1	29.79	756.7	56	13.3	77	sw.	14	6.3		5 ck	0	w.		0	0	fair	T. C. Hill, C. E
Toronto, Ontario*	29.37	740.0	29.75	755.6	55	12.8	67	nw.	24	10.7		5 cs	hz.	nw.		0.60	15.2	fair	Magnetic Observatory.
Yarmouth, N. S*	29.69	754.1	29.75	755.6	53	11.7	86	s.	5	2.2		2 ck	8 k	w.	sw.	0	0	cloudy	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest																			Wm. Wylie.
St. Johns, Newfoundland	30.05	763.3	30.30	769.6	57	13.9	69	s.	3	1.3		0	0			0	0		John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.04	763.0	30.07	763.8	63.0	17.2	67	wsw.	11.3	5.1		0	2 s			c	0	clear	John Duthie.
Cape Town, C. G. H. Obs'y	30.12	765.0	30.16	766.1	57.6	14.2	100	nw.	17	7.6		10	10			0.280	7.1		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow	29.78	756.4	30.05	763.3	68.7	20.4	96	sw.			1		10			0.14	3.6	covered	N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.83	757.7	29.86	758.4	65.8	18 8	89	se.	6.7	3.0			10			0.024	0.6	covered	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.63	752.7	29.68	753.9	63.3	17.4	62	se.	16.8	7.5			3						Oversergent Fischer.
Fanöe	29.51	749.5	29.53	750.0	61.0	16.1	81	sse.			6		9						Overloerer Lauridsen.
Godthaab, Greenland	30.07	763.7	30.11	764.8	36.1	2.3	94	nne.			2		8			0	0	foggy	S. Kleinschmidt.
Stykkisholm, Iceland	30.01	762.3	30.06	763.4	34.9	1.6	71	ne.			7		8						A. O. Thorlacius.
Thorshavn	29.76	756.0	29.80	756.9	47.5	8.6	77	nne.	20	9			10						Overloerer Bergh.
Vestervig	29.47	748.4	29.56	750.7	59.0	15.0	87	calm			0		9						Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.30	744.2	29.95	760.6	56.1	13.4	88	w.			3		10 n		w.	0.205	5.2	covered	M. Labroue, Director.
Alençon, Normal School	29.21	741.9	29.76	755.9	60.4	15.8	79	sw.			3		n	ne.	ne.	0.331	8.4		M. Nicot, Director.
Arras, Engineer School	29.27	743.4	29.52	749.7	59.0	15.0	58				8		kn		nw.	0.177	4.5		M. Fénéon, Command't.
Avignon, Normal School	29.79	756.7	29.87	758.7	70.2	21.2	63	nw.			2		5		nw.	0	0	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.15	740.3	29.69	754.1	60.4	15.8	73	w.			1		8		w.	0.118	3.0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.37	745.9	29.62	752.4	63.0	17.2	57	w.			3		10		w.	0.228	5.8	covered	M. Frère Eugène Marié.
Besançon, Normal School	28.89	733.7	29.76	755.9	61.0	16.1	78	ssw.			1		10 n		ene.	0.016	0.4	raining	M. Gobin, Director.
Bordeaux, Observatory	29.63	752.7	29.89	759.3	61.2	16.2	94	wsw.			1		10			0.319	8.1	raining	M. Rayet, Director.
Bourges, Normal School	29.22	742.1	29.91	759.7	63.5	17.5	56	ssw.			4		n		ssw.	0.47	12.		M. Postel, Director.
Brest, Naval Observatory	29.56	750.8	29.80	757.0	63.7	17.6	65	wnw.			3		9		wnw.	0.492	12.5		M. de Kermaree, Dir.
Caen, Normal School	29.54	750.3	29.61	752.2	61.5	16.4	74	w.			1		5		nw.	0.299	7.6	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.30	744.1	29.61	752.0	61.3	16.3	87	s.			3		8	sw.	w.	0.134	3.4	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.07	738.4	29.57	751.1	61.2	16.2	66	s.			2		8			0.12	3.	¾ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.45	722.6	29.76	755.8	68.0	20.0	67	wsw.			3		8			0.087	2.2	¾ covered	M. Alluard, Director.
Cluny, Normal School	28 93	734.7	29.75	755.6	59.4	15.2	82	sw.			3		8		sw.	0.126	3.2		M. de Villemontée, Dir.
Commercy, Normal School	28.79	731.3	29.63	752.6	59.0	15	65	sw.			2		10 kn	sw.	sw.	0.071	1.8	light rain	Dr. Coulet, Director.
Gap, Normal School	27.31	693.7	29.76	756.0	66.2	19	41	ne.			2	0	1 k		nw.	0	0		M. Jeanglrard, Director.
Gréasque, du Rhone	28.76	730.6	29.86	758.5	66.6	19.2	53	w.			3		5		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.07	738.3	29.82	757.5	60.1	15.6	80	sw.			1		10			0.126	3.2	raining	M. Ablard, Director.
Guéret, Normal School	28.25	717.6	29.81	757.2	56.8	13.8	91	sw.			3		10		sw.	0.696	17.7	raining	M. Rivoire, Director.
Lamballe, Normal School	29.45	748.0	29.72	755.0	57.2	14	67	wnw.			4		5		wnw.	0.059	1.5	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.45	748.1	30.01	762.3	64.8	18.2	82	w.			3		10			0	0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.70	754.3	29.80	756.9	60.4	15.8	71	w.			2		8		w.	0.472	12.0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.80	731.5	29.85	758.1	59.4	15.2	86	s.			2		10		w.	0.076	1.9	sprinkling	M. André, Director.
Mans, Normal School	29.43	747.5	29.74	755.3	56.7	13.7	71	nw.			3		8		nw.	0.339	8.6	very cloudy	M. Piboen, Director.
Marseille, Observatory	29.61	752.2	29.88	759.0	65.3	18.5	55	w.			3		9		wnw.	0	0		M. Stephan, Director.
Montlouis	24.82	630.3	29.66	753.3	57.2	14.0	53	se.	9.4	4.2			8	e.		0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.74	755.4	29.85	758.2	70.4	21.4	65	wnw.			3		5		wnw.	0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	28.89	733.7	29.65	753.2	59.0	15.0	78	ssw.			1		kn		sw.	0.063	1.6		M. Hasse, Director
Nantes, Observatory	29.66	753 4	29.82	757.5	59.2	15.1	86	wnw.			1-3		10		wnw.	0.756	19.2	rainy	M. Larocque, Director.
Perpignan, Observatory	29.81	757.2	29.91	759.8	76.5	24.7	41	e.	7.4	3.3			6		nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.30	541.0			37.0	2.8		sw.			2		10		sw.	0.165	4.2	rainy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.83	732.2	29.87	758.8	60.4	15.8	77	s.			1		5	se.	s.	0.04	1.	light rain	M. Taillieu.
Puy de Dôme Obs'y, Summit	24.95	633.8			45.7	7.6	100	w.			6		10			0.382	9.7	foggy	M. Alluard, Director.
Rochefort, Naval Obs'y	29.81	757.2	29.84	758.0	61.5	16.4	89	wsw.			2		10			0.43	11.	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.60	751.7	29.81	757.2	63.3	17.4	65	sw.			4		5		sw.	0.524	13.3	cloudy	M. Mouillot, Director.
Rodez, Normal School	27.79	705.8	29.93	760.1	54.7	12.6	84	sw.			2		n		se.	0.201	5.1		M. Seger, Director.
Rouen, Normal School	29.57	751.0	29.61	752.2	60.1	15.6	66	w.			4		8	sw.		0.43	11.	very cloudy	M. Brotier.
Saint Maur, Observatory	29.49	749.1	29.66	753.3	58.1	14.5	81	w.			2		10		w.	0.386	9.8		M. Renou, Director.
Toulouse, Observatory	29.29	744.0	30.02	762.4	65.5	18.6	69	w.			4		10	nw.		0	0	covered	M. Baillaud, Director.
Tours	29.76	755.8	29.93	760.3	60.9	19.4	60	w.			3		8	w.	w.	0.449	11.4	rainy	M. de Tastes.
Versailles, Observatory	29.16	740.6	29.65	753.1	60.4	15.8	64	w.			3					0.358	9.1		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.51	749.5	29.66	753.3	64.6	18.1	61	wsw.			3		8		wsw.	0.264	6.7		M. Marié Davy, Director
GERMAN.																			
Bamberg	28.85	732.9	29.70	754.3	59.0	15	80	w.			2	0	8 ks		w.	0.138	3.5	raining	Prof. Dr. Hoh.
Berlin	29.60	751.9	29.78	756.3	64.0	17.8	53	se.			3		9			0.114	2.9		Prof. Dr. Arndt.
Breslau	29.20	741.6	29.72	754.9	53.8	12.1	94	nne.			1		10			0.921	23.4	sprinkling	Royal University Obs'y.
Carlsruhe	29.24	742.8	29.67	753.6	63.0	17.2	66	sw.			2		10	sw.		0.276	7.0		Albert Senz.
Cassel	28.89	733.7	29.60	751.8	64.9	18.3	58	sw.			6		8	sw.		0.039	1.0	thnd'r str'm	Dr. H. Möhl.
Frankfort-on-the-Main	29.29	743.9	29.64	752.8	62.6	17.0	69	s.			3		9			0.055	1.4		Physical Society.
Friedrichshafen	28.33	719.5	29.72	754.8	63.3	17.4	64	s.			2		8	wsw.		0	0		Wilhelm, Chief Tel.
Hamburg	29.49	749.0	29.58	751.4	66.4	19.1	55	sw.			3		10			0.142	3.6	thnd'r storm	E. Preller.
Kiel	29.54	750.4	29.56	750.8	65.5	18.6	56	se.			2		9			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.25	743.0	29.66	753.3	67.1	19.5	55	se.			2		10	ssw.		0.008	0.2		H. Leppig, Asst.
Magdeburg	29.44	747.8	29.62	752.4	68.0	20.0	48	sse.			3	0	7 ks		s.	0	0		Dr. Assmann.
Memel	29.81	757.1	29.85	758.2	64.9	18.3	73	wnw.			1	10 cs	0						Issermann.
Munich	27.97	710.3	29.81	757.2	55.2	12.9	78	nw.			1		10	sw.		0.331	8.4		Central Station.
Neufahrwasser	29.80	756.9	29.82	757.3	63.3	17.4	78	s.			1		10			0.098	2.5	raining	A. Lothes.
Neustadt, Palatinate	29.14	740.2	29.66	753.4	58.6	14.8	86	s.			4		10	s.		0.031	0.8		Dicknether.
Stuttgart	28.76	730.5	29.63	752.6	61.7	16.5	69	sw.			5		9	w.		0.252	6.4		Prof. Dr. Schoder.
Wustrow	29.65	753.2	29.68	753.9	68.0	20.0	98	se.			3		10 s			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.58	751.4			78.4	25.8		s.			3.5		5			0	0	misty	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.47	748.6	29.52	749.8	89.2	31.8	83	ssw.	26.0	11.6			7			0	0	gloomy	
Deesa	28.99	736.3	29.44	747.7	101.1	38.4	38	s.	8.9	4.0			5	se.		0	0	d. clouds	
Bombay	29.52	749.8	29.56	750.7	83.2	28.4	84	s.	27.0	12.1			6		sw.	0.60	15.2	d. clouds	
Poona, Yarrowda	27.72	704.2	29.55	750.4	83.2	28.4	61	sw.	17.0	7.6			8	w.	w.	0	0	d. clouds	
Trichinopoly	29.48	748.9	29.77	756.0	77.5	25.3	85	wsw.	2.0	0.9			10			0	0	overcast	
Bellary	28.14	714.7	29.58	751.4	85.0	29.4	55	sw.	10.7	4.8			10			0	0	gloomy	
Belgaum	27.12	688.8	29.66	753.4	70.7	21.5	91	w.	9.0	4.0			9	sw.	sw.	0.04	1.0	d. clouds	
Lahore	28.63	727.3	29.32	744.7	110.3	43.5	20	w.	1.5	0.7			4			0	0	misty	
Roorkee	28.49	723.6	29.33	744.9	107.1	41.7	28	nw.	0.9	0.4			3			0	0		
Agra	28.84	732.6	29.37	746.0	107.1	41.7	30	ne.	3.0	1.3			0			0	0	blue sky	
Nagpur	28.48	723.4	29.52	749.8	74.5	23.6	93	calm	4.9	2.2			10		ne.	1.42	36.1	overcast	
Jubbulpore	28.12	714.1	29.44	747.7	86.2	30.1	55	s.	2.3	1.0			9		s.	0	0	overcast	
Lucknow	29.03	737.4	29.39	746.5	102.4	39.1	39	nne.	1.0	0.4			0			0	0	blue sky	
Allahabad	29.10	739.0	29.39	746.5	98.3	36.8	53	calm	2.3	1.0			c			0	0	blue sky	
Patna	29.30	744.3	29.48	748.8	95.5	35.3	51	ene.	7.2	3.2			4	ene.	ene.	0	0	d. clouds	
Hazaribagh	27.49	698.3	29.45	747.9	86.6	30.3	55	e.	8.5	3.8			10					thund'r st'm	
Cuttack	29.38	746.2	29.46	748.3	82.0	27.8	84	ese.	0.3	0.1			7			1.49	37.8	d. clouds	
Calcutta, Alipore	29.45	748.0	29.47	748.5	84.1	28.9	81	sse.	9.0	4.0			10			0.80	20.3	overcast	
Dhubri	29.40	746.6	29.51	749.5	88.0	31.1	71	calm	1.8	0.8			7			0.04	1.0	d. clouds	
Chittagong	29.48	748.8	29.57	751.0	84.7	29.3	80	calm	5.8	2.6			3			0	0	blue sky	
Sibsagar	29.17	741.0	29.50	749.2	88.3	31.3	68	ne.	1.5	0.7			0			0	0	blue sky	
Jeypore	28.00	711.2	29.36	745.7	104.7	40.4	35	nnw.	3.5	1.6			4		n.	0	0	d. clouds	
Zanzibar, Africa	30.03	762.7			82.7	28.2	67	se.	6.3	2.8			7			0	0	d. clouds	
ITALIAN.																			
Udine	29.32	744.8	29.72	754.9	64.6	18.1	75	calm	0	0			9			0.795	20.2		Prof. Giovanni Clodig.
Milan	29.19	741.4	29.69	754.0	71.6	22.0	46	sse.	3.1	1.4			3	nw.		0.248	6.3		Prof. Schiaparelli.
Padua	29.61	752.1	29.72	754.8	66.4	19.1	56	ene.	6.3	2.8			10	n.		1.287	32.7		Prof. Dott. Lorenzoni.
Moncalieri	28.78	731.0	29.65	753.1	73.4	23.0	26	ese.	3.8	1.7			5	se.		0	0		Prof. P. F. Denza.
Genoa	29.55	750.5	29.73	755.2	68.0	20.0	64	sw.	7.4	3.3			2	sw.		0.047	1.2		Prof. G. M. Garibaldi.
Mondovi	27.78	705.5	29.62	752.4	72.5	22.5	39	w.			4		1	nw.		0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	29.70	754.3	29.74	755.5	62.6	17.0	82	ne	6.3	2.8			10			0.102	2.6		Prof. Luigi Guidi.
Florence	29.52	749.8	29.77	756.1	68.5	20.3	65	s.			2		10			0.150	3.8		Prof. Costantino Pitter.
Leghorn	29.62	752.4	29.71	754.5	67.6	19.8	65	w.	1.8	0.8			5	w.		0.539	13.7		Prof. P. Monte.
Rome	29.63	752.5	29.80	756.8	74.1	23.4	51	wsw.	10.5	4.7			8			0.827	21.0		Prof. P. S. Ferrari.
Lecce	29.62	752.4	29.87	758.6	73.9	23.3	38	wsw.	15.0	6.7			3			0	0		Prof. C. de Giorgi.
Cosenza	29.07	738.4	29.92	760.0	75.6	24.2	71	wsw.	5.6	2.5			9	w.		0.016	0.4		Prof. D. Conti.
Cagliari	29.76	755.8	29.94	760.5	74.5	23.6	43	nw.			6		5	nw.		0	0		Prof. A. Pacinotti.
Palermo	29.75	755.7	30.00	761.9	70.9	21.6	50	nw.	16.1	7.2			7	wnw.		0	0		Prof. G. Ciacciatore.
Syracuse	29.87	758.8	29.91	759.8	72.7	22.6	69	ene.	9.4	4.2			10	w.		0	0		Prof. Vincenzo Gulliano
Sub-series.																			
Naples, S. R	29.34	745.1	29.85	758.1	66.9	19.4	62	sw.	18.1	8.1			10	nnw.		0.051	1.3		Prof. T. Brioschi.
Stelvio	21.97	558.1			39.9	4.4	71	ne.			2		10			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.03	559.6			39.9	4.4	71	nw.			6		10			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.59	751.6	29.62	752.3	57.2	14.0	86	ne.	6.4	2.9			10 s			0.205	5.2	overcast	K. Ogawa.
Hakodate	29.66	753.3	29.67	753.6	53.0	11.7	93	e.	6.0	2.7			10			0	0	covered	
Hiroshima, I. M. Obs'y	29.70	754.4	29.72	754.9	64.0	17.8	73	nne.	11.6	5.2		ck	3 s			0	0	clear	I. Sogawa.
Kanazawa	29.80	756.9	29.90	759.4	61.8	16.6	95	ssw.	3.2	1.4			10 n			0.110	2.8	raining	S. Endo.
Kioto	29.50	749.3	29.67	753.6	67.0	19.4	85	sw.	3.5	1.6			10 s			0.101	2.6	cloudy	M. Tojima.
Kochi	29.65	753.1	29.67	753.6	69.9	21.1	90	sse.	2.9	1.3		0	5 s			0.004	0.1	fair	K. Kusunose.
Nagasaki, I. M. Obs'y	29.58	751.3	29.78	756.4	65.7	18.7	83	n.	3.7	1.6			10 s			0.010	0.2	overcast	S. Takehayashi.
Nemuro	29.72	754.9	29.78	756.6	47.8	8.8	93	calm	0	0		10	0	nne.		0	0	overcast	
Niigata	29.58	751.3	29.62	752.3	62.9	17.2	91	w.	9.7	4.3			10 n			0.275	7.0	light rain	M. Morita.
Nobiru	29.60	751.8	29.61	752.1	59.1	15.1	97	nnw.	2.7	1.2			10 n			0.510	13.0	light rain	H. Midzushina.
Sapporo					54.0	12.2	74	se.	10.2	4.6			3			0	0	fair	
Tokei Obs'y, Yeddo	29.56	750.8	29.63	752.6	63.7	17.6	56	n.	2.5	1.1			10 n			0.293	7.4	raining	The Staff.
Wakayama	29.63	752.6	29.69	754.1	68.0	20.0	87	calm	0	0			10 s			0.285	7.2	cloudy	Y. Kuwamuea.
MAURITIUS																			
Mauritius Observatory	29.98	761.5	30.17	766.3	72.8	22.7	60	ese.	13.0	5.8		2 ck	4 k;ks	se.	se.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.66	601.1	29.88	759.1	61.9	16.6	91	calm	0	0			10 n		sw.	0.248	6.3	rainy	Prof. Vicente Fernandez.
Leon	24.29	617.0	29.89	759.2	62.1	16.7	89	nw.			1	5 c	3 k	s.	s.	0.003	0.1	fair	Prof. M. Leal.
Mazatlan	29.64	752.9	29.90	759.5	73.5	23.1	93	e.	0.9	0.4		0	2 cn		se.	0	0	hazy	F. Quijano, C. E.
Mexico, Central Obs'y	23.08	586.2	30.09	764.2	55.4	13.0	85	nw.	0.8	0.3		4 ck	4 ks	sw.		0.118	3.0	cloudy	The Staff.
Morelia	24.19	614.4	30.24	768.1	61.5	16.4	60	n.			2	2	2	e.	e.	0	0	½ clouded	M. Tena, M. D.
Pabellon, Aguascalientes	23.86	606.0	29.87	758.8	60.1	15.6	93	sse.			1					0.160	4.0		M. V. de Leon, M. E.
Puebla, Catholic Institute	23.44	595.4	30.12	765.1	57.2	14.0	90	calm	0	0		0	8		s.	0.704	17.9	covered	Prof. P. Spina.
San Luis Potosi	24.17	614.0	30.01	762.3	63.8	17.7	70	ne.				0	5		s.	0.244	6.2	⅜ clouded	G. Barroeta, M. D.
Zacatecas	22.54	572.5	30.07	763.7	59.9	15.5	77	w.	3.9	1.7		0	0			0	0	fine	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.48	748.8	29.48	748.8	59.4	15.2		wsw.			5					0.079	2.0		
Groningen	29.42	747.2	29.47	748.6	57.4	14.1		s.			4					0.063	1.6		
Helder	29.41	747.0	29.41	747.0	58.6	14.8		ssw.			4					0.165	4.2		
Hellevoetsluis	29.46	748.2	29.46	748.2	59.0	15.0	78	sw.			4					0.465	11.8		
Utrecht	29.43	747.4	29.47	748.6	61.0	16.1	73	ssw.			2		8			0.130	3.3	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.52	749.7	29.58	751.3	56.5	13.6	71	n.	4	2			8			blank	blank		
Brono	29.61	752.1	29.65	753.1	48.2	9.0	53	nw.	11	5			2			0	0		
Christiania	29.42	747.3	29.56	750.9	64.8	18.2	52	ssw.	4	2			4			0.004	0.1		
Gjæsvær	29.69	754.1	29.71	754.7	35.8	2.1		n.			2		10					snowing	
Lodingen	29.58	751.2	29.62	752.4	43.7	6.5	56	ne.			4		10			0	0		
PORTUGUESE.																			
Angra, Azores					65.1	18.4	66	sse.	5.6	2.5			2			0	0		Dr. J. A. Sampaio.
Campo Major	29.06	738.2	30.02	762.4	83.7	28.7	26	e.	4.3	1.9			1			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.07	763.8	30.16	766.0	69.1	20.6	68	sw.	7.4	3.3			0			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.78	756.3	30.13	765.3	71.4	21.9	56	n.	24.2	10.8			0			0	0		The Staff.
Ponta Delgada, Azores	30.35	770.9	30.42	772.7	69.8	21.0	57	sw.	3.1	1.4			4			0	0		
Saint Paul de Loando	29.83	757.6	30.03	762.7	75.2	24.0	86	wnw.	0.7	0.3			0			0	0		
Serra da Estrella	25.41	645.5	30.04	763.1	60.1	15.6	60	nnw	18.6	8.3			3			0	0		
RUSSIAN.																			
Akmolinski	28.60	726.5	29.64	752.8	68.0	20.0	49	sw.	13	6		0	8 k			0.110	2.8		Major K. Lasarew.
Archangel	29.49	749.1	29.51	749.6	41.5	5.3	83	nw.	9	4			10			0	0		Capt. Sselliwerstow.
Astrakhan	30.08	763.9	29.99	761.8	80.2	26.8	38	calm	0	0		0	1 ks			0	0		Capt. Wisganow.
Barnaul	29.32	744.6	29.80	756.8	66.7	19.3	55	w.	9	4			9			0	0		Meteorological Obs'y.
Dorpat	29.55	750.5	29.78	756.4	66.6	19.2	68	wsw.	9	4		0	8 k			0	0		Observatory.
Ekaterinburg	28.60	726.5	29.52	749.9	67.8	19.9	55	wnw.	9	4		c	8 kn			0.287	7.3		Meteorological Obs'y.
Kasan	29.42	747.3	29.67	753.7	81.0	27.2	41	wsw.	7	3			9			0	0		Observatory.
Kertch	29.96	761.0	29.98	761.5	78.8	26.0	55	calm	0	0		0	0			0	0		Lagorio & Sastyrex.
Kieff	29.20	741.6	29.79	756.7	80.1	26.7	20	s.	16	7		0	0			0	0		Observatory.
Lugan	29.72	755.0	29.92	759.9	87.4	30.8	31	wsw.	4	2			6			0	0		Meteorological Obs'y
Moscow	29.16	740.6	29.60	751.7	83.3	28.5	38	s.	7.8	3.5			7 ks						Meteorological Obs'y.
Nikolaiev	29.93	760.2	30.00	762.0	81.5	27.5	30	sw.	45	20		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.66	753.4	29.75	755.6	63.9	17.7	67	se.	13	6			3			0	0		Lieut. Iwanow.
Pekin, China	29.44	747.8	29.58	751.4	81.1	27.3	18	nw.	4	2		2 cs	0			0	0		Physical Observatory
St. Petersburg	29.65	753.1	29.67	753.5	63.3	17.4	66	nw.	18	8		0	3 kn			0.228	5.8		Central Physical Obs'y.
Semipalatinsk	29.25	743.0	29.88	758.9	73.2	22.9	48	calm	0	0		1 c	0			0	0		Major Lasarew.
Tashkend, Laboratory	28.38	720.9	29.86	758.4	83.7	28.7	28	calm	0	0			0						Teich, A. M.
Tiflis	28.65	727.8	30.00	762.1	81.3	27.4	41	s.	4	2		0	0			0	0		Physical Observatory
Vladivostock	29.63	752.7			51.1	10.6	97	calm	0	0		0	0						
Warsaw	29.33	744.9	29.74	755.3	65.1	18.4	60	ese.	7	3			10 n					raining	Astronomical Obs'y
Wilna	29.43	747.4	29.83	757.7	68.9	20.5	44	nnw.	2	1			6			0.004	0.1	light clouds	Berg, Assistant.
SPANISH.																			
Barcelona, Met. Obs'y	29.81	757.2	29.91	759.8	73.0	22.8	64	s.	2.9	1.3			0			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.98	761.6	30.04	763.1	78.4	25.8	56	nw.	2.7	1.2		2	7	nw.		0	0	almost cov'd	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.11	688.5	29.97	761.1	72.0	22.2	58	w.	5.6	2.5			3			0	0	light clouds	Domingo Martin.
Madrid, Royal Obs'y	27.84	707.1	29.97	761.1	79.7	26.5	40	w.	7.4	3.3		4	0	nw.		0	0	light clouds	The Staff.
Murcia, Met. Obs'y	29.85	758.1	30.01	762.3	87.1	30.6	41	sse.	2.5	1.1		0	1			0	0	almost clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.22	742.1	30.10	764.0	62.2	16.8	90	nw.	9.8	4.4			10			0.020	0.5	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	29.91	759.8	29.98	761.4	83.5	28.6	80	se.	2.7	1.2		3 c;cs	k	w.		0.154	3.9	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.81	757.2	29.87	758.6	86.1	30.1	75	se.	4.4	2.0		0	8 kn		ese.	0	0	threatening	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.92	760.0	30.02	762.5	79.3	26.3	48	ene.	6.6	3.0		0	1		nw.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.02	762.6	30.11	764.9	81.0	27.2	84	se.	8.1	3.6		3 cs	2 k	se.	se.	0	0		Manuel Maese.
Tuguegarao, Philippine Id's	29.71	754.6	29.84	757.9	86.8	30.4	73	s.	0	0		0	2 k			0	0	clear	José L. Yrastorza.
SWEDISH																			
Haparanda	29.61	752.1	29.65	753.1	46.8	8.2	67	ne.			2		10			0	0		
Umea	29.65	753.2	29.71	754.5	44.2	6.8	81	sw.			2		10			0	0		
Hernosand	29.60	751.8	29.65	753.1	48.9	9.4	79	s.			2		10			0.425	10.8		
Stockholm	29.49	749.1	29.67	753.6	63.7	17.6	44	w.			4		2			0	0		
Wisby	29.64	752.8	29.70	754.3	61.5	16.4	64	w.			2		3			0	0		
Sub-series.																			
Upsala	29.53	750.1	29.62	752.3	63.5	17.5	55	sw.	13.6	6.1			6		sw.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.43	722.0	29.84	757.8	59.0	15.0	62	wnw.			1					0.350	8.9	covered	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
SCOTTISH.																			
Monach Lt			29.44	747.8	55	12.8	93	nne.			6	5	5	ne.		0.1	3.	showery	J. Youngclause.
TURKISH.																			
Constantinople			29.96	761.0	77.2	25.1	37	s.	8	3.5			1		n.	0	0		The Observatory.
Valona			30.01	762.3	77.7	25.4		sw.			1		5			0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.97	761.1	75.9	24.4	80	nne.			2	0	0			0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.61	752.1	29.96	754.1	65.5	18.6	78	s.	8	3.6			10 ks		nw.	0.29	7.4	cloudy	J. O. Barnes.
Alpena, Michigan	29.19	741.4	29.84	757.9	52	11.1	59	w.	4	1.8		5 c	0	w.		0	0	fair	Jas. J. Fitzgerald.
Atlanta, Georgia	28.83	732.3	29.98	761.5	66.5	19.2	90	e.	3	1.3		9 k	0			0.16	4.1	cloudy	H. Hall.
Atlantic City, New Jersey	29.81	757.2	29.82	757.4	70.8	21.6	71	w.	10	4.5		4 c	0			0	0	fair	Jas. M. Watson.
Augusta, Georgia	29.84	757.9	30.03	762.7	70	21.1	84	sw.	1	0.4			10 s			0.01	0.3	cloudy	John Healy.
Baltimore, Maryland	29.80	756.9	29.85	758.2	71	21.7	62	w.	6	2.7		3 c	0	w.		0	0	clear	Robert Seyboth.
Barnegat, New Jersey	29.79	756.7	29.81	757.2	72.8	22.7	77	w.	11	4.9		4 c	0	nw.		0	0	fair	Chas. F. Merritt.
Behring Island, Behring Sea	29.83	757.7	29.85	758.2	40.3	4.6						0	8 ks		nw.	0.01	0.3	cloudy	Dr. L. Steineger.
Bismarck, Dakota	27.97	710.4	29.72	754.9	64	17.8	78	e.	12	5.4		10 cs	0	sw.		0	0	cloudy	Cyrus Cramer.
Boise City, Idaho	26.85	682.0	29.63	752.6	49.3	9.6	71	calm	0	0			10 s		calm	0.10	2.5	cloudy	B. E. Light.
Boston, Massachusetts	29.54	750.3	29.69	754.1	66.0	18.9	65	sw.	6	2.7		3 cs	7 s	w.	sw.	inap.	inap.	cloudy	O. B. Cole.
Brownsville, Texas	29.73	755.1	29.77	755.1	77.0	25.0	90	calm	0	0		0	0			0	0	clear	M. McCarty.
Buffalo, New York	29.04	737.6	29.78	756.4	56	13.3	88	sw.	13	5.8		2 ck	7 s;hz	sw.	sw.	0.17	4.3	cloudy	Wm. Finn.
Burlington, Vermont	29.30	744.2	29.60	751.8	60.0	15.6	87	s.	11	4.9			10 n		w.	0.17	4.3	light rain	G. C. Schaeffer.
Cairo, Illinois	29.56	750.8	29.95	760.7	69.7	20.9	75	calm	0	0		7 ck	0	w.		0	0	fair	W. H. Ray.
Campo, California	27.27	692.9	29.75	755.6	47.8	8.8	93	w.	7	3.1			fg.			0	0	dense fog	W. H. Clendenon.
Camp Thomas, Arizona	27.09	688.1	29.72	754.9	61.5	16.4	39	w.			1	0	0			0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	29.89	759.2	29.91	759.7	71	21.7	66	sw.	13	5.8		0	1 s			0	0	clear	A. K. Alderson.
Cape May, New Jersey	29.81	757.2	29.84	757.9	65	18.3	84	w.	16	7.2		3 ck	fg.	nw.		0	0	clear	W. Bolton.
Cedar Keys, Florida	29.92	760.0	29.94	760.5	72	22.2	97	e.	10	4.5			10 n		e.	2.12	53.8	light rain	F. W. Mixer.
Champaign, Illinois	29.03	737.3	29.82	757.4	65.7	18.7	89	sw.	11	4.9			10 n		sw.	0.03	0.8	light rain	L. A. Welsh.
Charleston, S. Carolina	29.97	761.2	30.02	762.5	74	23.3	76	sw.	2	0.9			10 s		sw.	inap.	inap.	threatening	J. H. Smith.
Charlotte, N. Carolina	29.12	739.6	29.95	760.7	72.0	22.2	71	sw.	3	1.3		0	0			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.20	741.7	30.01	762.2	66.5	19.2	86	e.	2	0.9		9 ck	fg.	w.		inap.	inap.	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.90	607.0	29.64	752.8	47.6	8.7	75	nw.	6	2.7		0	0			inap.	inap.	clear	E. McGovern.
Chicago, Illinois	29.14	740.1	29.83	757.7	57.8	14.3	70	e.	10	4.5		0	0			0	0	clear	J. Mitchell.
Chincoteague, Virginia	29.85	758.2	29.87	758.7	71	21.7	71	w.	7	3.1		3 c	0	w.		0	0	clear	V. P. Temple.
Cincinnati, Ohio	29.24	742.7	29.89	759.2	71	21.7	68	s.	4	1.8		2 ck	0	sw.		0	0	clear	R. B. Watkins.
Cleveland, Ohio	29.13	739.9	29.86	758.4	55.6	13.1	54	ne.	11	4.9			10 s			1.92	48.8	cloudy	J. B. Newlin.
Coleman City, Texas	28.04	712.2	29.79	756.7	68	20.0	93	se.	6	2.7		3 cs	3 s		se.	0.05	1.3	fair	L. Dorman.
Columbus, Ohio	29.02	737.1	29.86	758.4	66	18.9	84	sw.	8	3.6			10 n		sw.	0.12	3.0	thnd'r str'm	D. Cuthbertson.
Concho, Texas	27.91	708.9	29.78	756.4	70	21.1	90	calm	0	0			10 s			0.04	1.0	cloudy	W. W. McConihe.
Davenport, Iowa	29.17	740.9	29.81	757.2	66	18.9	84	sw.	1	0.4		5 cs	0	calm		0.20	5.1	fair	R. R. Martin.
Dayton, Washington T'y	28.09	713.5	29.83	757.7	53.8	12.1	91	sw.	3	1.3			10 n		sw.	0.33	8.4	heavy rain	H. Clifford.
Deadwood, Dakota	25.20	640.1	29.63	752.6	50	13.3	93	n.	1	0.4			10 s		w.	0.22	5.6	cloudy	G. W. Scott.
Decatur, Texas					69	20.6	61	se.	8	3.6		0	0			0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	29.82	757.4	29.84	757.9	67	19.4	84	w.	17	7.6		4 c	hz.	w.		0	0	fair	F. C. Pratz.
Denison, Texas	29.06	738.1	29.84	757.9	68.0	20.0	90	se.	3	1.3		0	0			0	0	clear	J. McGlone.
Denver, Colorado	24.58	624.3	29.62	752.3	55.5	13.1	69	s.	7	3.1		1 c	0	calm		0	0	clear	F. M. Neal.
Des Moines, Iowa	28.92	734.6	29.80	756.9	65	18.3	84	sw.	3	1.3			10 n		sw.	0.04	1.0	light rain	F. W. Conrad.
Detroit, Michigan					58.0	14.4	58	ne.	12	5.4		6 k	0	w.		0.06	1.5	fair	C. F. R. Wappenhans.
Dodge City, Kansas	27.22	691.4	29.73	755.1	66	18.9	90	s.	6	2.7			10 s		s.	0	0	cloudy	E. A. Thomas.
Dubuque, Iowa	29.13	739.9	29.82	757.4	59.2	15.1	65	se.	3	1.3		7 c	hz.	s.		0	0	fair	J. Harvey Smith.
Duluth, Minnesota	29.13	739.9	29.82	757.4	55	12.8	62	nw.	1	0.4		0	hz.			0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.02	737.1	29.81	757.2	73.0	22.8	90	se.	4	1.8			10 s		se.	inap.	inap.	cloudy	F. Belford.
Eagle Rock, Idaho	25.05	636.3	29.64	752.8	49	9.4	50	w.	4	1.8		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.61	752.1	29.68	753.9	48	8.9	89	s.	8	3.6			10s;fg		s.	0.56	14.2	cloudy	D. C. Murphy.
El Paso, Texas	26.09	662.7	29.68	753.9	68	20.0	42	nw.	5	2.2		3 ck	0	w.		0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.09	738.9	29.81	757.2	59	15.0	87	w.	2	0.9		2 k;hz	0	nw.		0.25	6.3	clear	Peter Wood.
Escanaba, Michigan	29.17	740.9	29.82	757.4	54	12.2	48	w.	5	2.2		0	hz.			0	0	clear	C. Dill.
Fort Apache, Arizona	24.84	630.9	29.59	751.6	48	8.9	42	e.	1	0.4		0	0			0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	26.99	685.5	29.78	756.4	58	14.4	93	ne.	12	5.4			fg.			0	0	dense fog	B. O. Lenoir.
Fort Bennett, Dakota	28.16	715.3	29.70	754.4	63	17.2	93	se.	4	1.8			10 s		calm	0.11	2.8	threatening	A. Pritchard.
Fort Benton, Montana																			G. W. Davis.
Fort Buford, Dakota	27.81	706.4	29.77	756.1	58	14.4	72	e.	6	2.7		0	0			0	0	clear	A. H. Bell.
Fort Custer, Montana	26.62	676.1	29.68	753.9	62	16.7	93	s.	1	0.4		8 k	0	calm		0.02	0.5	cloudy	V. Verge.
Fort Davis, Texas	25.02	635.5	29.63	752.6	69	20.6	59	sw.	4	1.8		0	0			0	0	clear	J. Williams.
Fort Elliott, Texas	27.07	687.6	29.74	755.4	64	17.8	84	se.	12	5.4			10 s		se.	0	0	cloudy	W. J. Cundall.
Fort Grant, Arizona	25.06	636.5	29.60	751.8	58.9	14.9	44	n.	4	1.8		0	0			0	0	clear	Robert C. Lord.
Fort Keogh, Montana	27.23	691.6	29.66	753.4	61	16.1	67	se.	1	0.4		5 cs	0			0	0	fair	W. B. Stockman.
Fort Macon, North Carolina	29.96	761.0	29.98	761.5	72	22.2	82	w.	8	3.6		6 c	hz.	calm	calm	0.03	0.8	fair	W. W. Thomas.
Fort McKavett, Texas	27.66	702.6	29.86	758.4	66	18.9	84	se.	5	2.2			10 s			0	0	cloudy	J. E. Thatcher.
Fort Missoula, Montana	26.51	673.3	29.77	756.1	57	13.9	77	sw.	3	1.3		9 cs	0	ne.		0.03	0.8	cloudy	J. H. Jones.
Fort St. Michaels, Alaska	29.69	754.1	29.73	755.1	46	7.8	84	ne.	5	2.2		0	0			0	0	clear	A. P. Leavitt.
Fort Shaw, Montana	26.19	665.2	29.76	755.9	53	11.7	80	w.	6	2.7		5 k	0	s.		0	0	fair	A. L. Mathews.
Fort Sill, Indian Territory	28.62	726.9	29.82	757.4	68.3	20.2	86	s.	6	2.7		10 k	0	sw.		0	0	cloudy	T. Cleary.
Fort Smith, Arkansas	29.40	746.7	29.86	758.4	69.1	20.6	90	se.	4	1.8		0	0			inap.	inap.	clear	J. B. Campbell.
Fort Stevenson, Dakota	27.95	709.9	29.75	755.6	57	13.9	86	e.	12	5.4		5 k	0			0.16	4.1	fair	W. Burrows
Fort Verde, Arizona					65.3	18.5	65	s.			2		fg.		calm	0	0	dense fog	D. Brooks.
Fort Washakie, Wyoming	24.31	617.5	29.69	754.1	45.0	7.2	90	w.	2	0.9		1 c	0	w.		0.27	6.9	clear	T. M. Ambler.
Fredericksburg, Texas	28.12	714.2	29.80	756.9	69	20.6	97	s.	6	2.7			10 ks		s.	0	0	cloudy	H. S. Miles.
Galveston, Texas	29.77	756.1	29.82	757.4	73.5	23.1	95	ne.	8	3.6		0	5 ks			0	0	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.18	741.2	29.83	757.7	60.0	15.6	50	e.	8	3.6		0	0			0	0	clear	W. A. Reid.
Hatteras, North Carolina	29.96	761.0	29.98	761.5	72	22.2	82	w.	20	8.9		0	0			inap.	inap.	clear	R. M. Crawford.
Helena, Montana	25.60	650.2	29.72	754.9	58	14.4	77	w.	2	0.9		10 k	0			0.50	12.7	cloudy	S. Wheaton.
Henrietta, Texas	28.87	733.3	29.85	758.2	71.0	21.7	71	s.	4	1.8		2 c	0			0	0	clear	J. W. Byram
Huron, Dakota	28.39	721.1	29.73	755.1	59.1	15.1	81	s.	4	1.8			9 s		sw.	0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.07	738.4	29.85	758.2	71	21.7	71	sw.	3	1.3		2 ck	3 s;hz	sw.	sw;c	0.11	2.8	fair	O. Schutze
Indianola, Texas	29.78	756.4	29.81	757.2	73.8	23.2	97	ne.	8	3.6		0	7 k		ne.	0.02	0.5	fair	I. A. Reed.
Jacksboro, Texas	28.78	731.0	29.90	759.4	70	21.1	90	se.	5	2.2		1 cs	0			0	0	clear	J. P. Sherry.
Jacksonville, Florida	29.94	760.5	29.98	761.5	73	22.8	90	se.	4	1.8			10 n			0.44	11.2	light rain	J. W. Smith.
Keokuk, Iowa	29.16	740.7	29.80	756.9	71.0	21.7	84	calm	0	0		10 k	0			0.18	4.6	cloudy	F. Z. Gosewisch
Key West, Florida	29.94	760.5	29.96	761.0	82.0	27.8	80	s.	11	4.9		6 cs	4 k		s.	0	0	cloudy	R. H. Paxton.
Kittyhawk, North Carolina	29.93	760.2	29.95	760.7	71	21.7	76	w.	16	7.2		0	hz			0	0	clear	E. A. Beals.
Knoxville, Tennessee	28.99	736.3	30.00	762.0	66	18.9	90	sw.	1	0.4		sk.	0	w.		0	0	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.06	738.1	29.82	757.4	66.4	19.1	45	s.	8	3.6		0	0			0	0	clear	S. C. Emery
La Mesilla, New Mexico	25.94	658.9	29.66	753.4	65.0	18.3	45	calm	0	0		4 k	0	s.		0	0	fair	N. D. Lane.
Leavenworth, Kansas	28.95	735.3	29.82	757.4	70	21.1	70	calm	0	0		8 cs	0	w.		0	0	cloudy	A. W. Browne.
Lewiston, Idaho	28.95	735.3	29.77	756.1	61	16.1	65	se.	1	0.4			10 s			0.02	0.5	cloudy	W. Bell.
Little Rock, Arkansas	29.58	751.3	29.88	758.9	69	20.6	93	calm	0	0		0	6 ks		sw.	inap.	inap.	fair	W. U. Simmons.
Los Angeles, California	29.49	749.0	29.88	758.9	57.3	14.1	80	n.	1	0.4			9 s		ne.	0	0	cloudy	E. F. Kubel.
Louisville, Kentucky	29.33	745.0	29.88	758.9	73	22.8	71	s.	7	3.1		0	0			0	0	clear	H. C. Smyth.
Lynchburg, Virginia	29.23	742.4	29.90	759.4	71.0	21.7	57	sw.	1	0.4		2 ck	0	w.		inap.	inap.	clear	W. R. Bushby.
Madison, Wisconsin	28.86	733.0	29.85	758.2	57	13.9	60	e.	2	0.9		3 c	0	w.		0.25	6.3	fair	O. A. Shaw.
Marquette, Michigan	29.07	738.4	29.79	756.7	57	13.9	35	w.	18	8.0		3 k	hz.	w.		0	0	dense haze	J. Gilligan.
Memphis, Tennessee	29.62	752.3	29.95	760.7	74	23.3	76	se.	5	2.2		3 cs	2 ks	sw.	w.	0	0	fair	D. T. Flannery.
Milwaukee, Wisconsin	29.10	739.1	29.84	757.9	58	14.4	58	e.	1	0.4		8 c	0			0.23	5.8	cloudy	W. Line.

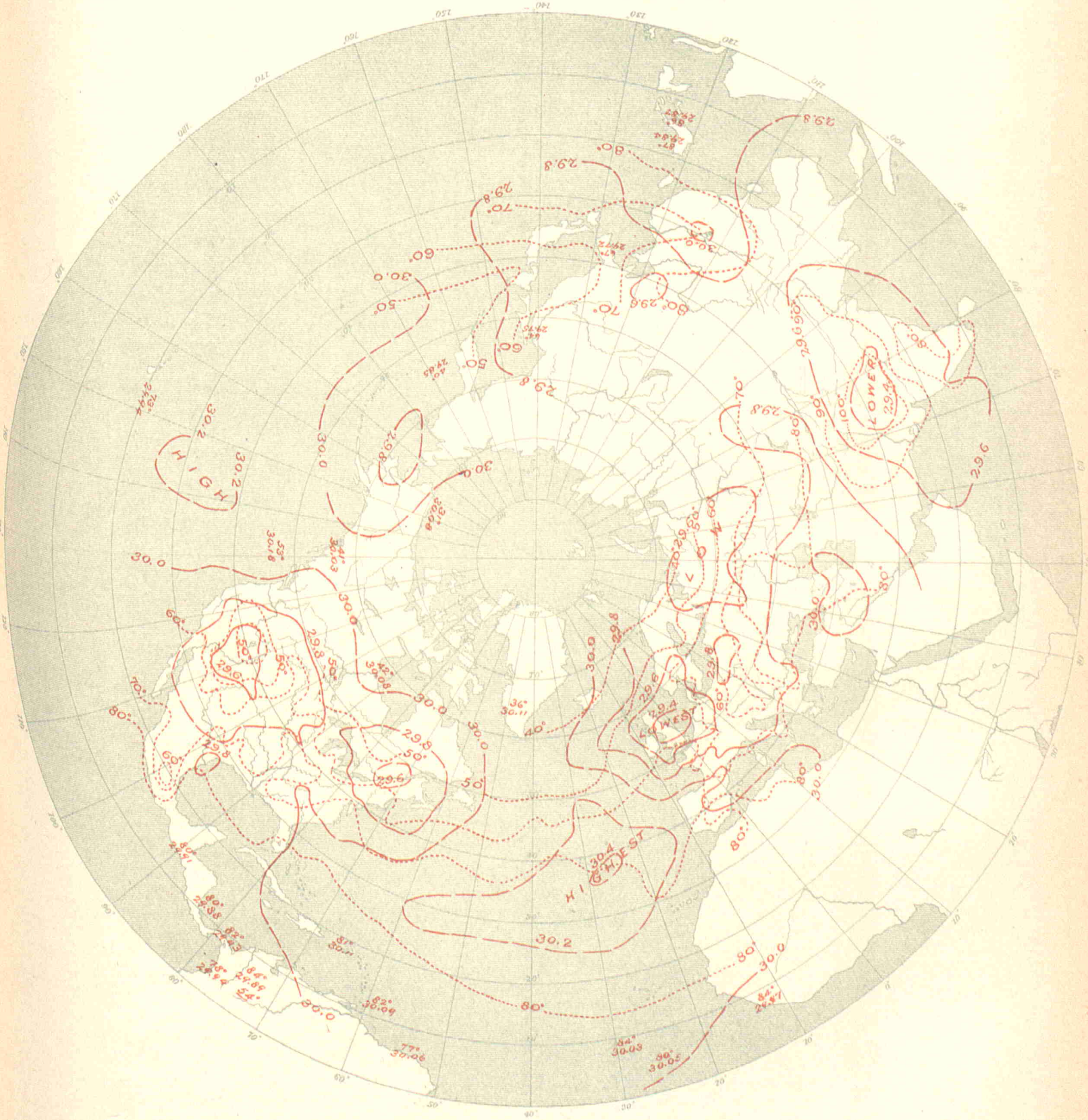
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Mobile, Alabama	29.78	756.4	29.82	757.4	70.3	21.3	97	ne.	6	2.7	.....	.....	10 n	.....	ne.	0.41	10.4	light rain	J. D. Paxton.
Montgomery, Alabama	29.69	754.1	29.92	760.0	69	20.6	87	e.	7	3.1	.....	7 ck	0	w.	.....	0.06	1.5	fair	J. B. McLaughlin.
Moorhead, Minnesota	28.81	731.8	29.78	756.4	52.1	11.2	86	ne.	3	1.3	.....	7 k	0	n.	.....	0	0	fair	H. Bessant.
Morgantown, W. Virginia	28.89	733.8	29.89	759.2	67.5	19.7	70	sw.	2	0.9	.....	.....	10 s	.....	sw.	0	0	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.49	596.6	29.61	752.1	40.5	4.7	96	nw.	52	23.3	.....	.....	10n;fg	.....	nw.	0.50	12.7	light rain	J. G. Linsley.
Nashville, Tennessee	29.43	747.5	29.95	760.7	73.0	22.8	71	se.	1	0.4	.....	3 cs	0	sw.	.....	0	0	clear	L. A. Jesunofsky.
New Haven, Connecticut	29.63	752.6	29.74	755.4	66	18.9	73	sw.	7	3.1	.....	1c;ck	hz.	sw.	.....	0	0	cloudy	J. H. Sherman.
New London, Connecticut	29.70	754.4	29.75	755.6	69	20.6	76	s.	5	2.2	.....	4 k	0	w.	.....	0	0	fair	J. G. Lynch.
New Orleans, Louisiana	29.75	755.6	29.80	756.9	71.7	22.1	97	ne.	8	3.6	.....	.....	10 n	.....	.....	0.83	21.1	light rain	L. Dunne.
Newport, Rhode Island	29.71	754.6	29.76	755.9	59.8	15.4	82	sw.	14	6.3	.....	6 ck	2 s;hz	nw.	sw.	0	0	cloudy	W. McGillivray.
New River, N. Carolina	.....	.....	.....	.....	72	22.2	82	w.	.....	.....	1	2 c	2 s	.....	.....	0	0	fair	C. C. Corbin.
New Shoreham, Rhode I'd.	29.73	755.1	29.76	755.9	62.0	16.7	78	sw.	18	8.0	.....	6 cs	0	sw.	.....	0	0	fair	W. Davis.
New York, New York	29.62	752.3	29.79	756.7	66	18.9	73	sw.	8	3.6	.....	6 cs	0	sw.	.....	0	0	fair	J. B. Merrill.
Norfolk, Virginia	29.89	759.2	29.92	760.0	73	22.8	71	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. T. Elker.
North Platte, Nebraska	26.83	681.5	29.63	752.6	63.1	17.3	88	e.	5	2.2	.....	5 c	0	.....	.....	0	0	fair	E. F. Brady.
Olympia, Washington T'y	29.91	759.7	29.95	760.7	55.0	12.8	86	nw.	1	0.4	.....	.....	10 s	.....	calm	0.01	0.3	cloudy	J. Dascomb.
Omaha, Nebraska	28.63	727.2	29.77	756.1	67.7	19.8	88	nw.	6	2.7	.....	.....	10 n	.....	.....	0.02	0.5	light rain	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.07	763.8	30.08	764.0	31.0	— 0.6	95	e.	16	7.2	.....	1 c	0	e.	.....	0	0	clear	P. H. Ray.
Oswego, New York	29.34	745.2	29.66	753.4	58.0	14.4	86	w.	16	7.2	.....	0	4 s	.....	w.	0.05	1.3	fair	S. W. Beall.
Palestine, Texas	29.34	745.2	29.88	758.9	69.0	20.6	93	e.	4	1.8	.....	10 cs	0	.....	.....	0	0	cloudy	L. M. Pindell.
Pensacola, Florida	29.79	756.7	29.82	757.4	72.7	22.6	97	e.	10	4.5	.....	.....	10 s	.....	se.	1.57	39.9	cloudy	M. McGauran.
Philadelphia, Pa	29.72	754.9	29.82	757.4	69	20.6	76	sw.	8	3.6	.....	0	hz.	.....	.....	0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.77	451.4	29.59	751.6	26	— 3.3	92	w.	20	8.9	.....	8c;cs	0	sw.	.....	0.15	3.8	cloudy	L. M. Dey.
Pioche, Nevada	23.76	603.5	29.56	750.8	48.2	9.0	48	s.	2	0.9	.....	0	fg.	.....	calm	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.02	737.1	29.81	757.2	67.0	19.4	73	w.	3	1.3	.....	.....	10 ks	.....	w.	0.09	2.3	threatening	J. H. Bryce.
Poplar River, Montana	27.63	701.8	.....	.....	.....	.....	.....	sw.	.....	.....	1	0	0	.....	.....	0	0	clear	U. D. Maxwell.
Port Eads, Louisiana	29.81	757.2	29.82	757.4	74.1	23.4	98	sw.	6	2.7	.....	0	7 ks	.....	sw.	1.74	44.2	cloudy	H. G. Christian.
Port Huron, Michigan	29.18	741.2	29.85	758.2	51.0	10.6	77	ne.	8	3.6	.....	3 c	0	w.	.....	1.52	38.6	clear	W. O. Bailey.
Portland, Maine	29.62	752.3	29.67	753.6	61.0	16.1	84	s.	4	1.8	.....	.....	10n;fg	.....	sw.	0.23	5.8	light rain	W. W. Eichelberger.
Portland, Oregon	29.87	758.7	29.94	760.5	54.0	12.2	86	calm	0	0	.....	0	8 s	.....	nw.	0	0	cloudy	M. L. Hearne.
Portsmouth, N. Carolina	.....	.....	.....	.....	71	21.7	84	sw.	13	5.8	.....	3 c	0	calm	.....	0.01	0.3	clear	F. P. Chaffee.
Prescott, Arizona	24.57	624.1	29.59	751.6	46	7.8	52	sw.	1	0.4	.....	0	fg.	.....	calm	0	0	light fog	J. McN. Wright.
Provincetown, Mass	29.69	754.1	29.72	754.9	63	17.2	78	sw.	9	4.0	.....	3 k	3 s	sw.	.....	0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	29.92	760.0	29.93	760.2	81.5	27.5	81	s.	22	9.8	.....	5 cs	5 ks	sw.	s.	0.03	0.8	cloudy	W. J. Evans.
Red Bluff, California	29.45	748.0	29.81	757.2	56.0	13.3	80	nw.	5	2.2	.....	.....	10 s	.....	w.	0.13	3.3	cloudy	J. M. Frantz.
Rio Grande City, Texas	29.57	751.1	29.80	756.9	77	25.0	79	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	P. M. Wilson.
Rochester, New York	29.05	737.9	29.70	754.4	60	15.6	87	w.	18	8.0	.....	.....	10 k	.....	w.	0.19	4.8	threatening	E. W. McGann.
Roseburg, Oregon	29.40	746.7	29.95	760.7	54	12.2	86	nw.	1	0.4	.....	.....	10 s	.....	n.	0.05	1.3	threatening	J. J. Nanry.
Sacramento, California	29.72	754.9	29.79	756.7	56.2	13.4	74	se.	5	2.2	.....	.....	8 s	.....	se.	0	0	cloudy	J. A. Barwick.
St. Louis, Missouri	29.28	743.7	29.87	758.7	70.0	21.1	94	s.	6	2.7	.....	.....	10 s	.....	w.	0	0	cloudy	J. H. Webber.
St. Paul, Minnesota	28.93	734.8	29.78	756.4	64.0	17.8	68	e.	5	2.2	.....	7 cs	0	w.	.....	0	0	fair	P. F. Lyons
St. Vincent, Minnesota	29.00	736.6	29.85	758.2	43	6.1	83	n.	5	2.2	.....	5c;cs	0	w; c	.....	inap.	inap.	fair	G. Kingsbury.
Salt Lake City, Utah	25.33	643.4	29.55	750.6	64	17.8	46	s.	5	2.2	.....	4 k	0	s.	.....	0	0	fair	J. Craig.
San Antonio, Texas	29.13	739.9	29.81	757.2	72	22.2	90	calm	0	0	.....	0	5 ks	.....	se.	0	0	fair	E. Lane.
San Diego, California	29.78	756.4	29.84	757.9	60.0	15.6	72	s.	13	5.8	.....	.....	10 s	.....	s.	0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.19	741.4	29.86	758.4	58.9	14.9	60	ne.	24	10.7	.....	.....	10 s	.....	.....	0.04	1.0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.74	755.4	29.78	756.4	71.0	21.7	71	sw.	11	4.9	.....	3 k	0	sw.	.....	0	0	clear	B. A. Blundon.
San Francisco, California	29.80	756.9	29.86	758.4	53	11.7	83	w.	16	7.2	.....	1 c	5 s	nw.	nw.	0	0	fair	N. Gorom.
Santa Fé, New Mexico	23.14	587.7	29.65	753.1	51	10.6	66	ne.	6	2.7	.....	0	0	.....	.....	0.03	0.8	clear	H. U. Jones.
Savannah, Georgia	29.92	760.0	30.01	762.2	73.5	23.1	84	s.	2	0.9	.....	.....	10 ks	.....	s.	0.01	0.3	cloudy	H. W. Ford.
Shreveport, Louisiana	29.64	752.8	29.87	758.7	67	19.4	93	e.	3	1.3	.....	1 k	0	.....	.....	0	0	clear	E. N. Meekins.
Silver City, New Mexico	24.19	614.4	29.69	754.1	51	10.6	57	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. B. Wallace.
Sitka, Alaska	29.97	761.2	30.03	762.7	40.7	4.8	73	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. J. McLean.
Smithville, North Carolina	29.96	761.0	30.00	762.0	73	22.8	76	nw.	6	2.7	.....	6 cs	0	w.	.....	0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.76	705.1	29.80	756.9	58	14.4	93	sw.	1	0.4	.....	.....	10 s	.....	se.	0.02	0.5	cloudy	D. Moore.
Springfield, Illinois	29.17	740.9	29.84	757.9	72	22.2	76	sw.	2	0.9	.....	4 c;cs	4 s	w.	w.	inap.	inap.	cloudy	T. B. Jennings.
Springfield, Massachusetts	29.59	751.6	29.72	754.9	62.0	16.7	84	s.	5	2.2	.....	9 k	0	w.	.....	0	0	cloudy	T. S. Outram.
Springfield, Mo	28.49	723.6	29.95	760.7	69	20.6	84	se.	5	2.2	.....	0	6 ks	.....	s.	0	0	fair	J. B. Marbury.
Starkville, Miss	29.48	748.8	29.95	760.7	68.1	20.1	90	e.	2	0.9	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	M. J. Wright.
Stockton, Texas	26.78	680.2	29.70	754.4	63.2	17.3	93	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Thatcher's Island, Mass	29.66	753.4	29.71	754.6	57.0	13.9	93	w.	8	3.6	.....	5 ck	5 s	w.	w.	inap.	inap.	cloudy	G. Liebmann
Toledo, Ohio	29.15	740.4	29.83	757.7	60	15.6	65	n.	8	3.6	.....	4 cs	4 k	w.	w.	0.48	12.2	clearing	A. Buell.
Tucson, Arizona	27.34	694.4	29.64	752.8	63	17.2	40	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.49	749.0	29.85	758.2	58.5	14.7	66	ne.	4	1.8	.....	.....	10 s	.....	ne.	0	0	cloudy	J. Daly.
Uvalde, Texas	28.85	732.8	29.79	756.7	72	22.2	97	se.	4	1.8	.....	.....	10 ks	.....	se.	0.01	0.3	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.63	752.6	29.88	758.9	70	21.1	84	calm	0	0	.....	0	4 s	.....	e.	0.03	0.8	fair	H. P. Brisbane.
Visalia, California	29.48	748.8	29.85	758.2	54	12.2	66	nw.	6	2.7	.....	1 cs	0	nw.	.....	0	0	clear	W. L. Seward.
Washington, D. C.	29.76	755.9	29.87	758.7	71.0	21.7	66	sw.	5	2.2	.....	1 c	0	w.	.....	0	0	clear	B. M. Purssell.
West Las Animas, Colorado	25.81	655.6	29.59	751.6	60.9	16.1	67	sw.	7	3.1	.....	5 c	0	sw.	.....	0	0	fair	F. W. Brandenburg.
Williamsport, Pa	29.17	740.9	29.77	756.1	65	18.3	78	w	5	2.2	.....	.....	10 n	.....	w.	inap.	inap.	light rain	B. F. Hough.
Wilmington, N. Carolina	29.94	760.5	29.99	761.7	71	21.7	82	nw.	7	3.1	.....	7 cs	0	w.	.....	inap.	inap.	fair	A. T. Sherwood.
Winnemucca, Nevada	25.37	644.4	29.63	752.6	46	7.8	86	ne.	3	1.3	.....	0	2 ks	.....	sw.	0.02	0.5	clear	J. R. Williams.
Yankton, Dakota	28.49	723.6	29.77	756.1	59	15.0	70	ne.	3	1.3	.....	7 cs	0	.....	.....	0	0	fair	J. H. Atfield.
Yuma, Arizona	29.54	750.3	29.68	753.9	64.3	17.9	43	nw.	10	4.5	.....	0	hz.	.....	.....	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.06	560.3	.....	.....	54.0	12.2	94	s.	10	4.5	.....	.....	9 n;s	.....	w.	0	0	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.08	764.0	30.09	764.3	82	27.8	91	e.	.....	.....	.....	5 c	5 ks	e	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.91	759.7	29.94	760.5	78	25.6	90	s.	6	2.7	.....	4 c	5 ks	s.	s.	0.20	5.1	cloudy	J. I. Plume.
Havana, Cuba, W. I.	29.93	760.2	29.98	761.5	84	28.9	80	se.	1.2	0.5	.....	6 cs	0	.....	.....	0.40	10.2	fair	A. Van Oaneghem.
Kingston, Jamaica, W. I.	30.01	762.2	30.02	762.5	81.0	27.2	76	nne.	1	0.4	.....	8 ck	2 s	.....	e.	0	0	cloudy	Robert Johnston.
Magua, San Domingo, W. I.	.....	.....	.....	.....	73	22.8	.....	calm	.....	.....	0	0	0	.....	.....	0	0	.....	S. M. Pike.
Paramaribo, S. A.	30.06	763.5	30.06	763.5	77	25.0	91	e.	.....	.....	2	.....	10 n	e.	e.	0.200	5.1	rainy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.43	747.5	29.89	759.2	84	28.9	64	s.	.....	.....	1	8 ck	0	calm	.....	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	98	ne.	.....	.....	1	.....	.....	.....	.....	0	0	cloudy	Earl Flint.
Santiago de Cuba, W. I.	30.00	762.0	30.02	762.5	82	27.8	78	calm	0	0	.....	1 ck	0	.....	.....	0	0	clear	Robert Mason.
York Factory, B. A.	30.02	762.5	30.08	764.0	42.0	5.6	100	n.	13	5.8	.....	.....	10 s	.....	n	inap.	inap.	rain & snow	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
British Naval.																		
H. M. S. Alert, Algoa Bay, Cape Colony, Africa	30.06	763.5	63.8	17.7	69	wsw.			4-5		6							misty.
H. M. S. Alexandra, Alexandria, Egypt	29.97	761.2	77.5	25.3	75	nne.			2		0					1	n.	blue sky.
H. M. S. Amethyst, S. 24° 42′, W. 42° 18′	30.25	768.3	67.2	19.6	90	sse.			6		10					4	s.	overcast.
H. M. S. Bacchante, Corfu, Ionian Island	29.91	759.7	77	25.0	65	sse.			1-2		9	s.						d. clouds.
H. M. S. Boadica, Simon's Bay, Cape Colony	30.27	768.8	64	17.8		nw.			2-3		1	w.						
H. M. S. Champion, Honolulu, Sandwich Islands			74	23.3		calm			0		6							d. clouds.
H. M. S. Cleopatra, N. 25° 14′, E. 120° 46′	29.86	758.4	77.5	25.3	100	nw.			1		9							d. clouds.
H. M. S. Coquette, Port Said, Egypt	29.99	761.7	76	24.4		n.			3		0							blue sky.
H. M. S. Cruiser, Corfu, Ionian Island	29.89	759.2	75	23.9		se.			4		3	ese.				3	se.	d. clouds.
H. M. S. Diamond, S 22° 13′, E. 165° 46′	29.90	759.4	75	23.9	85	ene.			1		3					1	ene.	d. clouds.
H. M. S. Dido, N. 10° 39′, W. 61° 30′						e.			1		3	e.						d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	30.11	764.8	73	22.8	75	sse.			1-2		7	sse.						d. clouds.
H. M. S. Dwarf, S. 25° 16′, W. 57° 45′	30.06	763.5	44.5	6.9	92	sse.			2		5					1	s.	d. clouds.
H. M. S. Eclipse, S. 7° 28′, E. 49° 07′	30.04	763.0	79	26.1		se.			5		3					4	ese.	d. clouds.
H. M. S. Emerald, S. 56° 20′, W. 71° 40′	30.04	763.0	39	3.9	?	nw.			3		2	wnw.				4	wsw.	d. clouds.
H. M. S. Euryalus, N. 13° 00′ E. 73° 30′	29.60	751.8	82	27.8	87	sw.			2-3		10	calm				6	sw.	raining.
H. M. S. Espiegle, S. 17° 40′ E. 178° 49′	29.96	761.0	78	25.6	95	se.			1		6							d. clouds.
H. M. S. Fantome, N. 10° 55′, W. 83° 43′	29.88	758.9	80	26.7		nw.			1		10	nw.				4	nw.	raining.
H. M. S. Flying Fish, N. 37° 27′, E. 126° 33′	29.72	754.9	66.5	19.2	68	w.			2		3							d. clouds.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.07	763.8	52	11.1	82	se.			0-1		1							misty.
H. M. S. Garnet, Montevideo, Uruguay	30.49	774.4	44	6.7	84	nne.			1		0							blue sky.
H. M. S. Griffon, N. 47° 41′, W. 53° 12′	30.10	764.5	48	8.9	85	s.			2		10							d. clouds.
H. M. S. Inconstant, S. 0° 30′, W. 11° 00′	30.11	764.8	73	22.8	90	se.			2		9	se.				1	sse.	misty.
H. M. S. Iron Duke, N. 34° 41′ E. 135° 12′	29.72	754.9	69	20.6	95	w.			2		0?							d. clouds.?
H. M. S. Kingfisher, N. 6° 56′ W. 81° 20′	29.89	759.2	77	25.0		w.			4		3							thnd'r storm.
H. M. S. Lark, S. 10° 20′, E. 161° 52′	29.91	759.7	79.3	26.3		ne.			6		10					3	e.	raining
H. M. S. Magpie, N. 34° 56′, E. 139° 52′	29.58	751.3	66.6	19.2	94	calm			0		10							showery.
H. M. S. Minotaur, Gibralter, Mediterranean	30.02	762.5	72	22.2	88	ene.			3		0							blue sky.
H. M. S. Nelson, S. 41° 17′, E. 174° 48′	30.05	763.3	56	13.3	87	calm			0		10							overcast.
H. M. S. Northampton, Halifax, Nova Scotia	29.75	755.6	52	11.1	93	nnw.			1		5	nw.						d. clouds.
H. M. S. Phoenix, N. 18° 25′, W. 77° 08′	29.98	761.5	84	28.9	91	se.			1		0							blue sky.
H. M. S. Rambler, Ambriz, Lower Guinea	30.01	762.2	72	22.2	90	sse.			3		0							blue sky.
H. M. S. Rocket, Esquimalt, Vancouver Island	29.92	760.0	51	10.6	93	nne.			1		2					3	ssw.	d. clouds.
H. M. S. Sappho, S. 25° 40′, W. 96° 10′	30.25	768.3	68.5	20.3		e.			4		3	e.						d. clouds.
H. M. S. Swiftsure, N. 19° 59′, W. 23° 40′	30.14	765.5	71.5	21.9	75	ene.			3		6	ene.				3	e.	d. clouds.
H. M. S. Sylvia, S. 18° 24′, W. 36° 30′	30.19	766.8	76	24.4	83	se.			1-2		5					2	nne.	d. clouds.
H. M. S. Tenedos, N. 47° 34′ W. 52° 41′	30.10	764.5	53	11.7	100	s.			1-2		0					1	ese.	blue sky.
H. M. S. Thetis, S. 15° 18′, W. 76° 40′	29.98	761.5	67	19.4	90	se.			3		8							d. clouds.
H. M. S. Triumph, Coquimbo, Chili	30.08	764.0	51	10.6	86	calm			0		4	calm				3	sse.	d. clouds.
H. M. S. Woodlark, Muscat, Arabia	29.49	749.0	91.5	33.1	73	nw.			4		0							d. clouds.
Portuguese Naval.																4	nw.	misty.
Rio Lima, Porto Praya, Cape Verd Islands	30.08	763.9	80.1	26.7	78	ne.			2		0							
Tamega, Macao, China	29.81	757.2	86.0	30.0	79	ssw.			3		2					2		blue sky.
Swedish Naval.																		d. clouds.
Sago, N. 50° 34′, W. 3° 06′	29.51	749.6	58.5	14.7	69	wnw.			5		9							overcast.
United States Naval.																		
Navy Yard, Pensacola, Fla.	29.76	755.9	75	23.9	95	se.	5	2.2			8		sw.	2.66	67.6			fair.
N. Yard, Portsmouth, N. H.	29.68	753.9	61	16.1	82	calm	0	0			9		w.	0.2	5.			cloudy.
Naval Hospital, Yokohama, Japan*	29.52	749.8	63.5	17.5	74	calm			0		10		n.	0.66	16.8			light rain.
Adams, Mare Island, Cal.	29.86	758.4	55	12.8	93	w.			4		5							fair.
Alaska, Callao, Peru	29.95	760.7	58	14.4	94	n.			1		5			0	0	sm'h		fair.
Alert, Yokosuka, Japan*	29.52	749.8	67	19.4	95	nnw.			2		10		calm			sm'h		raining.
Alliance, Hampton Roads, Va.	29.92	760.0	69	20.6	85	wsw.			2		2			0	0	sm'h		clear.
Ashuelot, Yokosuka, Japan	29.57	751.1	67	19.4	95	nne.			1		10		n.					raining.
Brooklyn, Rio de Janeiro, Brazil	30.30	769.6	69	20.6	100	s.	5	2.2			10		calm	0.05	1.3	sm'h		rainy.
Colorado, New York, N. Y.	29.72	754.9	72	22.2	67	sw.	4	1.8			8		calm	0	0			cloudy.
Enterprise, Norfolk, Va*	29.91	759.7	71	21.7	100	wsw.			1		2							clear.
Essex, Montevideo, Uruguay	30.54	775.7	46	7.8	84	n.			1		2					sm'h		clear.
Franklin, Norfolk, Va.	29.93	760.2	70	21.1	75	wsw.	8	3.6			0			0	0			clear.
Galena, N. 31° 54′, E. 28° 04′	29.99	761.7	75	23.9	95	ese.			1		0					sm'h		clear.
Independence, Mare Island, Cal.	29.91	759.7	55	12.8	100	wnw.			6		8		wnw.	0	0			cloudy.
Iroquois, San Francisco, Cal*†	29.87	758.7	56	13.3	81	wsw.			4		5		wsw.					fair.
Kearsarge, Hampton Roads, Va.	29.92	760.0	69	20.6	90	wsw.			2		0					sm'h		clear.
Lackawana, Paita, Peru*	29.95	760.7	63	17.2	83	ese.			1		2		se.					clear.
Lancaster, Cadiz, Spain*	29.98	761.5	73	22.8	81	w.			1		0			0	0	sm'h		clear.
Marion, S. 34° 54′, W. 56° 13′	30.45	773.4	44	6.7	100	nw.			1		0			0	0	sm'h		clear.
Michigan, Erie, Pa.	29.92	760.0	58	14.4	100	w.			1		8		e.					cloudy.
Minnesota, Newport, R. I.	29.77	756.1	58	14.4	88	ssw.	7	3.1			2		sw.					clear.
Monocacy, Nagasaki, Japan	29.68	753.9	70	21.1	90	n.			2		10		calm					cloudy.
New Hampshire, Newport, R. I.	29.69	754.1	60	15.6	88	sw.			3		2		sw.			sm'h		clear.
Nipsic, Messina, Sicily	29.96	761.0	72	22.2	58	nw.			4		5					sm'h		fair.
Onward, Callao, Peru†	30.11	764.8	59	15.0	94	ne.			2		10		s.			long	w.	misty.
Palos, Kobe, Japan	29.68	753.9	69	20.6	95	calm			0		10		calm					cloudy.
Passaic, Washington, D. C.	29.87	758.7	69	20.6	85	sw.			1		2		sw.					clear.
Pensacola, Callao, Peru	30.00	762.0	59	15.0	94	n.	5	2.2			10			0	0	sm'h		cloudy.
Powhatan, Norfolk, Va.	29.92	760.0	72	22.2	76	sw.			1		2							clear.
Portsmouth, Portsmouth, Eng*†	29.71	754.6	58	14.4	100	nw.			5		10					sm'h		cloudy.
Quinnebaug, N. 33° 06′, W. 19° 23′	30.23	767.8	66	18.9	74	nne.			6		8		ne.			hv'y	ne.	squally.
Ranger, N. 37° 10′, W. 122° 28′*	29.87	758.7	57	13.9	81	nw.			5		10		nw.	0	0	mod.	nw.	cloudy.
Richmond, Kobe, Japan*	29.62	752.3	66	18.9	?	calm			0		10			0.165	4.2			raining.
Saratoga, Cowes. Eng.	29.50	749.3	59	15.0	65	nnw.			4		5?		w.	h'vy	h'vy	sm'h		cloudy.?
St. Louis, League Island, Pa.	30.04	763.0	69	20.6	75	sw.	9	4.0			2		wsw.	0	0			clear.
Swatara, Nagasaki, Japan*	29.50	749.3	68	20.0	84	nnw.			1		5		calm			sm'h		fair.
Tennessee, Fort Monroe, Va.	29.93	760.2	71	21.7	85	ssw.	6	2.7			0			0	0			clear.
Vandalia, Hampton Roads, Va*†	29.89	759.2	69	20.6	90	wsw.			3		2		calm					fair.
Wabash, Boston, Mass.	29.70	754.4	66	18.9	84	sw.	6	2.7			10		sw.	0	0			cloudy.
Wachusetts, Fort Wrangle, Alaska	30.03	762.7	42	5.6	100	se.			1		2			0	0	sm'h		fair.
Wyoming, Port Royal, S. C.	30.00	762.0	67	19.4	100	ssw.	4	1.8			10		ssw.	0.24	6.1			raining.
Yantic, Hampton Roads, Va*	29.89	759.2	68	20.0	90	sw.			2		0							hazy.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
Allan Line.																		
S. S. Nova Scotian, N. 52° 58′, W. 35° 10′	30.12	765.0	46	7.8		ne.			3		10		ene.			sli't	w.	hazy.
S. S. Prussian, N. 49° 23′, W. 49° 23′*	30.00	762.0	50	10.0		ne.			3		7		ese.	0	0	sm'h	ne.	cloudy.
S. S. Scandinavian, East Boston, Mass.*	29.59	751.6	66	18.9		sw.			3		10			0	0			overcast.
S. S. Waldensian, Galway, Ireland*	29.63	752.6				nw.			5		2		nw.	0	0	h'vy	nnw.	clear.
American Steamship Company.																		
S. S. Illinois, Liverpool, Eng.	29.29	744.0	60	15.6	94	wsw.			6		5		sw.					
S. S. Indiana, N. 43° 33′, W. 42° 25′†	30.19	766.8	63	17.2	83	nw.			4		10		w.			mod.	nw.	overcast.
S. S. Lord Clive, N. 51° 13′, W. 13° 02′*†	29.73	755.1				wnw.			5		4		wnw.	2 h'r	2 h'r	high	w.	fine.
Anchor Line.																		
S. S. Bolivia, N. 44° 16′, W. 39° 36′†	29.94	760.5	60	15.6		ssw.			3		8		ssw.	6 h'r	6 h'r	sm'h		cloudy.
S. S. Ethiopia, N. 44° 40′ W. 41° 56′	29.98	761.5	52	11.1	93	wsw.			4		10		w.	4 h'r	4 h'r	sli't	w.	overcast.
S. S. India, N. 39° 57′, E. 14° 34′*	29.91	759.7	70	21.1	90	ssw.			4		3					sm'h		fair.
S. S. Utopia, Messina, Italy†	30.19	766.8	78	25.6	49	nw.			3		6		nw.	0	0			fair.
Atlas Line.																		
S. S. Ailsa, Savanilla, U. S. C.†	29.91	759.7	84	28.9	83	ne.			2		2		ne.	0	0			fair.
S. S. Alvena, Miragoane, Hayti, W. I.†	29.90	759.4	83	28.3	75	ssw.			1		0			0	0			fine.
S. S. Alvo, Cartagena, U. S. C.	29.90	759.4				var.			2		2			0	0			
S. S. Antillas, N. 28° 00′, W. 74° 00′						ne.							nw.	0	0	sm'h		cloudy.
Boston and Halifax Line.																		
S. S. Carroll, Boston, Mass.	29.61	752.1				w.			3				nw.	0	0			clear.
British Meteorological Office.																		
Bk. Arran, S 38° 07′, E. 52° 15′	30.30	769.6	61.5	16.4	77	calm			0		4							d. clouds.
British Merchant, N. 5° 47′, W. 25° 36′	30.05	763.3	79.9	26.6	78	s.			2–3		7							showery.
Bk. Commewyne, N. 6° 20′, W. 56° 05′	30.07	763.8	73.3	22.9	98	e.			5		10							heavy rain.
S. S. Glencairn, S. 21° 46′, E. 1° 46′	30.31	769.9	71	21.7	80	s.			4–5		6							d. clouds.
S. S. May Hulse, S. 54° 21′, W. 78° 45′	30.08	764.0	39	3.9	91	nnw.			4		10							overcast.
S. S. Pole Star, S. 38° 53′, W. 36° 14′	30.12	765.0	50.5	10.3	90	ssw.			4		6							showery.
Cromwell Line.																		
S. S. Hudson, N. 24° 30′, W. 83° 15′†	29.98	761.5	79	26.1		sse.			3		6		s.	4 h'r	4 h'r	mod.	se.	fair.
Cunard Line.																		
S. S. Bothnia, N. 51° 48′, W. 8° 00′	29.56	750.8	60	15.6	76	n.			5–6		8		w.	1 h'r	1 h'r		nw.	showery.
S. S. Marathon, N. 46° 36′, W. 38° 37′	30.01	762.2	60	15.6		s.			2		7		s.	0	0	r'gh	ene.	foggy.
General Trans-Atlantic Company.																		
S. S. St. Laurent, N. 40° 25′, W. 60° 14′†	30.14	765.5	68.0	20.0	81	ssw.			4					0	0	sm'h	ssw.	clear.
S. S. Ville de Marseilles, N. 41° 22′, W. 31° 17′*†	30.25	768.3	68	20.0		s.			4		3		s.	0	0	sm'h		fair.
Hamburg American Packet Company.																		
S. S. Bohemia, N. 49° 10′, W. 19° 40′*†	30.02	762.5				wnw.			6		7		wnw.	rain	rain	mod.	wnw.	stormy.
S. S. Cimbria, N. 46° 08′ W. 39° 16′	30.01	762.2	64	17.8		s.			4		10		sse.	17 h'r	17 h'r	mod.	s.	covered.
S. S. Gellert, N. 40° 20′ W. 69° 22′	29.87	758.7	59	15.0		sw.			4		2		sw.	0	0	mod.	sw.	fair.
S. S. Herder, N. 45° 18′, W. 23° 35′*†	30.18	766.6	64	17.8		nnw.			3		3?		nne.	0	0	long	wnw.	cloudy.?
S. S. Lessing, Hamburg, Germany	29.52	749.7	70	21.1		sw.			3		8		sw.	0	0			cloudy.
S. S. Wieland, N. 44° 55′, W. 37° 34′	30.14	765.5	62	16.7		ssw.			4		10			0	0	4	sw.	foggy.
Inman Line.																		
S. S. City of Berlin, N. 41° 30′, W. 59° —	30.03	762.7				ssw.			1		5?		s.	0	0	sm'h		cloudy.?
Lampert and Holt's Line.																		
S. S. Hevelius, N. 51° 00′ E. 1° 00′*†	29.72	754.9	60	15.6		wsw.			4		6		w.	6 h'r	6 h'r	sm'h		showery.
S. S. Humboldt, N. 40° 09′, W. 70° 55′*	29.77	756.1	57.5	14.2	97	s.			4		3 k		s.	0	0	3	con.	misty.
Leyland Line.																		
S. S. Iberian, N. 42° 23′, W. 59° 58′	29.84	757.9				sw.			1		1		wsw.	0	0			foggy.
Mallory Line.																		
S. S. Colorado, New York, N. Y.†	28.06	712.7	66	18.9		w.			3		0			0	0			clear.
Merchants' Express Line.																		
S. S. Hermod, N. 33° 34′, W. 72° 04′.*†	29.77	756.1	73.4	23.0		s.			3		10		s.	2 h'r	2 h'r	mod.	ssw.	cloudy.
Merchants' Steamship Company.																		
S. S. Glenfyne, Para River, Brazil	29.54	750.3				se.			4				e.	0	0	mod.	e.	clear.
S. S. Glenapp, Rio de Janeiro, Brazil*†	30.00	762.0				se.			1		8		calm	4 h'r	4 h'r			light rain.
National Line.																		
S. S. Denmark, New York, N. Y.	29.81	757.2	72	22.2		wsw.			3		8		wsw.	0	0			cloudy.
S. S. Greece, N. 50° 28′ W. 2° 30′	29.46	748.3				wsw.			5		8		wsw.	2 h'r	2 h r	mod.	wsw.	
S. S. Holland, N. 46° 27′ W. 29° 53′	30.24	768.1	60	15.6		s.			3		10			0	0	cross		hazy.
New York and Cuba Mail Steamship Company.																		
S. S. Santiago, N. 25° 20′, W 74° 00′†	30.12	765.0	83	28.3		se.			2		8		se.	0	0	long	se.	fine.
S. S. Saratoga, N. 32° 00′, W. 79° 25′†	30.21	767.3	78	25.6	82	sw.			2		10		se.	4 h'r	4 h'r	sm'h		overcast.
New York, Havana and Mexican Mail.																		
S. S. City of Alexandria, Havana, Cuba, W. I.*†	30.06	763.5	81	27.2	91	calm			0		2		calm	0	0			clear.
S. S. City of Washington, Vera Cruz, Mexico*†	29.90	759.4	85	29.4		e.			1		1		e.	0	0			clear.
New York Herald Weather Service.																		
S. S. Maas, N. 46° 56′ W. 27° 39′*†	30.26	768.6	59	15.0		e.			1								w.	hazy.
North German Lloyd																		
S. S. Elbe, N. 49° 43′, W. 5° 55′	29.59	751.5	59.0	15.0	94	wnw.			6		2		wnw.	2 h'r	2 h'r	r'gh	wnw.	clear.
S. S. Gen. Werder, N. 49° 02′ W. 17° 53′	30.00	762.0				wnw.			6		8		wnw.	6 h'r	6 h'r	cross	nw.	cloudy.
S. S. Graf Bismarck, N. 31° 32′, W 15° 00′	30.18	766.6	71.6	22.0		nne.			5–6		6		nne.			high	nne.	hazy.
S. S. Habsburg, N. 40° 49′, W. 56° 27′	30.10	764.5	75.2	24.0		ssw.			2		0			0	0	sm'h		clear.
S. S. Hermann, N. 37° 10′, W. 75° 06′†	29.83	757.7	67.1	19.5		sw.			4		1		sw.	0	0	sm'h	sw.	fair.
S. S. Oder, N. 49° 31′ W. 10° 04′	29.79	756.7	62.6	17.0		wnw.			5		6		wnw.	0	0	mod.	wnw.	fair.
S. S. Ohio, N. 44° 48′ W. 33° 00′	30.29	769.4				sw.			3		6		sw.	0	0	sm'h	sw.	fair.
S. S. Rhein, Bremerhaven, Germany	29.56	750.8				s.			3		4		s.	0	0			fair.
S. S. Salier, Bremerhaven, Germany	29.49	749.0	57.2	14.0		s.			3		8		ssw.	2 h'r	2 h'r			cloudy.
Occidental and Oriental Steamship Company.																		
S. S. Arabic, N. 34° 52′ E. 149° 21′*†	29.76	755.9	68	20.0	90	ssw.			6		8		wsw.	hv'y	hv'y	r'gh	wsw.	showery.
S. S. Belgic. Yokohama, Japan †	29.85	758.2	65	18.3	94	nw.			1		10			rain	rain			cloudy.
S. S. Gaelic, Hong Kong, China †	29.72	754.9	85	29.4	68	se.			3		2		s.					clear.
S. S. Oceanic, N. 43° 07′, W. 134° 11′*	30.18	766.6	53	11.7	79	calm			0		5		w.			3	nw.	fine.
Ocean Steamship Company.																		
S. S. City of Augusta, Savannah, Ga. †	30.05	763.3				nne.			1		10?			0	0			clear?
S. S. City of Columbus, N. 38° 15′, W. 74° 37′†	29.99	761.7				sw.			2		1		sw.			mod.	sw.	clear.
S. S. Seminole, Vineyard Sound, Mass †	29.73	755.1	60	15.6	71	sw.			5		1		sw.	0	0	sm'h	sw.	clear
Oregon Improvement Company.																		
S. S. Willametta, N. 38° 38′, W. 123° 40′†	29.92	760.0	58	14.4	82	nw.			5		5		nw.	0.05	1.3	mod.	nw.	hazy.
Oregon Railway and Navigation Company.																		
S. S. Oregon, Portland, Oregon†	29.93	760.2	54	12.2	93	calm			0		5		e.					fair.
Pacific Coast Steamship Company.																		
S. S. Ancon, San Pedro Bay, Cal.†	29.79	756.7	59	15.0	88	w.			1		10		w.			mod.	w.	cloudy.
S. S. Dakota, Seattle, Wash. Ter.*†	29.96	761.0	57	13.9	81	w.			1		2		w.			sm'h		clear.
S. S. Idaho, N. 48° 22′, W. 124° 37′†	30.02	762.5	49	9.4	93	e.			4		10		e.			sm'h		rainy.
S. S. State of California, Astoria, Oregon†	30.00	762.0	58	14.4	70	nw.			5		6		nw.			sm'h	nnw.	fair.
S. S. Victoria, San Francisco, Cal †	29.73	755.2	55	12.8	100	nw.			2		5					sm'h		fair.
Pacific Mail Steamship Company.																		
S. S. Australia, N. 27° 41′, W. 146° 49′	30.21	767.3	68	20.0	84	se.			3		0			0	0	sm'h		clear.
S. S. City of New York, N. 29° 00′, W. 142° —′†	30.39	771.9	68	20.0	90	var.			4		1		e.	0	0	mod.	e.	clear.
S. S. City of Pekin, N. 30° 31′ W. 129° 29′†	29.77	756.1	71	21.7	90	nw.			5		10		nw.	0	0	sm'h		overcast.
S. S. City of Rio de Janeiro, Panama, Panama*†	30.09	764.3	80	26.7	87	nw.			3		5		nw.	0	0			fair.
S. S. City of Sydney, Sydney, N. S. W.†	30.26	768.6	59	15.0	82	se.			5		8		se.	¼ h'r	¼ h'r	sm'h		light rain.
S. S. City of Tokio, N. 42° 54′, E. 170° 32′†	30.00	762.0	49	9.4	78	n.			3		8		ne.	0	0	mod.	ne.	fine.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
PACIFIC MAIL STEAMSHIP COMPANY.—Continued.																		
S. S. Clyde N. 13° 35′, W. 89° 49′†	29.91	759.7	80	26.7	82	ene.			2		5		ene	1 h'r	1 h'r	long	sse.	cloudy.
S. S. Colima, N. 19° 12′, W. 105° 14′†	29.89	759.2	80	26.7	87	wnw.			4		7		wsw.	o	o	mod.	wnw.	cloudy.
S. S. Colon, Aspinwall, Panama†	29.93	760.2	82	27.8		nw.			1		3		ne.	o	o	mod.	nne.	clear.
S. S. Grenada, N 23° 35′, W. 110° 51′†	29.87	758.7	64	17.8	83	nw.			1		8?		w.	o	o	light	nw.	clear.?
S. S. South Carolina, Punta Arenas, Costa Rica.†	29.97	761.2	79	26.1	100	calm			0		5		ne.	2 h'r	2 h'r	sm'h		
S. S. Zelandia, Sydney, N. S. W.	30.30	769.6	58	14.4	76	se.			2		5		se.			sm'h		fine.
QUEBEC S. S. COMPANY.																		
S. S. Muriel, N. 22° 15′, W. 64° 30′	29.98	761.5	83	28.3		ese.			2		0			o	o	long	se.	clear.
S. S. Bermuda, Castries, St. Lucia, W. I†	30.11	764.8	82	27.8		e.			1		2		e.	o	o			clear.
RED STAR LINE.																		
S. S. Rhynland, Jersey City, N. J.	29.78	756.4	68	20.0	74	sw.			2		4		sw.	o	o			fair.
S. S. Switzerland, N. 49° 45′. W. 5° 38′†	29.71	754.6				w.			6		2		w.	4 h'r	4 h'r	r'gh	w.	fair.
S. S. Vaderland, N. 47° 47′, W. 27° 26′	30.03	762.7	63	17.2	72	wsw.			2		10		wsw.	o	o	long	wsw.	overcast
ROTTERDAM LINE.																		
S. S. W. A Scholten, N. 40° 38′, W. 63° 44	29.79	756.7	67.1	19.5	88	sw.			6		2		sw.	o	o	mod.	sw.	
STATE LINE.																		
S. S. State of Florida, Glasgow, Scotland	29.21	741.9	64	17 8		ene.			3		10		e.	12 h'r	12 h'r			showery.
S. S. State of Georgia, N. 50° 21′, W. 28° 15′†	30.27	768.8	50	10.0		nnw.			5		5		n.			mod.	nw.	fair.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 50° 30′, W. 37° 06′†	30.38	771.6	50.0	10.0	93	e.			3		7		e.	o	o	long	e.	covered.
WHITE STAR LINE.																		
S. S. Adriatic, New York Bay, N. Y†	29.89	759.2	65	18.3	94	nw.			3		2		w.	o	o	sm'h		d. clouds.
S. S. Baltic, N. 48° 30′ W. 29° 47′†	30.31	769.9	53	11.7	93	calm			0		10		nw.	10 h'r	10 h'r	sm'h		d. clouds.
S. S. Celtic, N. 47° 05′ W. 35° 40′†	30.11	764.8	58	14.4	88	ese.			4		10		ese.	24 h'r	24 h'r	mod.	ese.	drizzling
WILSON LINE.																		
S. S. Romano, N. 46° 13′ W. 30° 53′	30.09	764.3	59	15.0		sw.					10					mod.	wsw.	foggy
MISCELLANEOUS.																		
Bg. Abbie Clifford, N. 14° 50′, W. 69° 08′*†	30.07	763.8	82	27.8		e.			5		2		e.	o	o	r'gh	e.	
Schr. Addie Fuller, Deepwater Light, James River, Va†	29.98	761.5	69	20.6	70	w.			2	1c	o			o	o			clear.
Bk. Adelaide, N. 33° 14′, W. 73° 18′*†	30.10	764 5	75	23.9		ssw.			4		8	nw.	sw.	1½h'r	1½h'r	light		cloudy.
Schr. Ajax, Pensacola, Fla†	29.92	760.0				ne.			3		10		ne.	20 h'r	20 h'r			cloudy.
Bk. Alpha, Off Cape St. Nicolas, Hayti, W. I.	29.98	761.5	86	30.0		se.			2		2		e.	o	o	mod.	ne.	fair.
Schr. Annie Lewis, Mobile, Ala†	29.98	761.5	72	22.2		n.			1		10		n.	24 h'r	24 h'r			raining.
Bk. Annie Thormann, S. 6° 50′, W. 33° 00′	30.12	765.1	81.0	27.2	74	ese.			4		3 k		se.	1 h'r	1 h'r	mod	ese.	fair.
S. S. Antonio Lopez, N. 43° 47′, W. 7° 44′	30.08	764.0	61	16.1	97	w.			6		10			o	o	rg'h	w.	foggy.
Schr. Asa Eldridge, Punta Rassa, Fla†	30.07	763.8				se.			3		8		s.	3 h'r	3 h'r			fair.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.44	773.2	74	23.3		s.			5		10		sw.					rainy.
S. Annie M. Small, N. 18° 41′ E. 116° 20′*†	29.85	758.2												o	o			
Bk. Bergenseren, N. 40° 46′, W 44° 15′†	30.10	764.5	64	17.8		wnw.			2				nw.	o	o	3	w.	blue sky.
Bk. Bremen, N. 49° 41′. W. 5° 06′						w.			6		2		w.	6 h'r	6 h'r	r'gh	w.	fair.
Schr. C. R. Flint, Off Tampico Bar. Mexico†	29.97	761.2	84	28.9		w.			1		5		s.	o	o	long	ene.	fair.
Schr. Edith R. Seward, N 37° 28′, W. 76° 09′*†	29.91	759.7	72	22.2		wsw.			1		2		w.	o	o	sm'h	ssw.	clear.
S. E. J. Spicer, N. 47° 20′. W. 24° 50′†	30.27	768.8				nnw.			2		8		nnw.	o	o	mod.	nnw.	
Bk. Essex, N. 8° 54′ W. 29° 50′*†	30.03	762.7	84	28.9		ene.			3		1		e.	o	o	cross		clear.
S. Exporter, S. 39° 50′, E. 53° 02′*†	30.30	769.6				se.10 w			4		1		w.	o	o	....	w.	fine.
Bk. Freya, N. 46° 35′, W. 26° 05′			59	15.0		wnw.			2					7 h'r	7 h'r	mod	w.	foggy.
Bk. Godfrey, Off Ormes Head, Wales	29.38	746.2	54.1	12.3	88	wsw.			5–6		5		wsw.	o	o			fair.
S. Grecian, N. 11° 50′, E. 111° 18′*†	29.75	755.6	80	26.7		se.			4		5?		se.	4 h'r	4 h'r	sm'h	sw.	clear.?
Bk. Hattie G. McFarland, Sydney, Cape Breton*†	29.80	756.9	46	7.8		sw.			1		5		w.	o	o			clearing.
S. Hedwig, N. 38° 24′, W. 56° 24′	30.13	765.2	69.8	21.0	89	sw.			5		8		sw.	h'vy	hv'y	long	sw.	overcast.
Bk. Horace Scudder, N. 33° 35′, W. 74° 35′†	29.99	761.7	72	22.2		wnw.			2		8		n.	1 h'r	1 h'r	hv'y	sw.	hazy.
S. Ismir, S. 20° 18′, W. 35° 45′†	30.22	767.6				se.			4		4		se.			sm'h	se.	fine.
Schr. James Slater, N. 17° 36′, W. 46° 20′*†	30.40	772.1	80	26.7		e.			3		2		ese.	o	o	long	ene.	
Schr. Jennie N. Huddle, New York. N. Y.†	29.95	760.7	67	19.4	90	w.			3		2		nw.	o	o			hazy.
Schr. John L. Thomas, Albuquerque Id's, C. A*†	29.99	761.7				ene.			3		2		ene.	o	o			clear.
Bkt. Josephine, N. 27° 36′ W. 74° 17′†	30.23	767.8	82	27.8	83	ese.			3		10		sse.	o	o	sm'h		cloudy.
Bk. Julia H., Havana, Cuba, W. I.	29.98	761.5	80.6	27.0	87	sse.			3		4		nw.					d. clouds.
S. S. Laurel, Key West, Florida†	30.01	762.2	84	28.9		s.			3		9		s.	1 h'r	1 h'r			cloudy.
S. Minnie N. Gerow, N 41° 36′, W. 48° 38′*†	30.00	762.0				nnw.			2		10		n.			sm'h	wsw.	fair.
S. M. P. Grace, N. 31° 36′, W. 41° 00′*	30.15	765.8	76	24.4		se.			2				se.	o	o	sm'h	e.	
S. S. Nebo, St John, N. S.*†	30.15	765.8				w.			4		o			3 h'r	3 h'r			clear.
S. Paramita, S. 48° 00′ W. 56° 31′†	30.08	764.0	41	5.0		w.			4		6		sw.	o	o	long	ne.	foggy.
Bk. Pawashick, St. Nazaire, France*†	30.00	762.0				wnw.			6		5		nw.					showery.
Bk. Peppina, N. 45° 30′, W. 2° 39′†	29.91	759.7	60	15.6	88	w.			6		8		w.	sh'rs	sh'rs		wnw.	cloudy.
Bg. Potomac, N. 29° 37′, W. 60° 00′*†	30.10	764.5				ese.			1				nw.	h'vy	h'vy	mod.	nw.	cloudy.
Bk. Princessen, N. 57° 13′, E. 11° 45′†	29.70	754.3	59	15.0		s.			3		2			o	o	sm'h		fair
Bk. Rosebud, S. 11° 31′ W. 30° 00′*†	30.15	765.8	80	26.7	82	sse.			4		5		sse.	sh'rs	sh'rs	short	sse.	showery.
S. Salisbury, S. 39° 00′, E. 70° 01′*.	30.01	762.2	57.2	14.2	89	se.e			5		4		se.	1 h'r	1 h'r	r'gh	se.	fair.
Bk. Stella, N. 20° 11′, W. 151° 34′*.	29.94	760.5	72.7	22.6	90	ene.			3		7		e.	o	o	mod.	ne.	
Bg. Teneriffe, N. 28° 38′, W. 72° 45′	30.09	764.3				sse.			2		8		sw.	o	o	mod.		
Bk. Truro, Havre, France*†	29.65	753.1				w.			5		2		w.	6 h'r	6 h'r			showery.
U. S. F. C. S. Fish Hawk, Havre de Grace, Md†	30.07	763.8	73	22.8	95	wsw.			3		4		calm	o	o			clear.
Yacht Vega, N. 20° 57′, W. 66° 10′*†	30.30	769.6	81	27.2		ese.			3		1		ese.	o	o		ene.	fair.
S. S. Victoria J. Peed, Salamanca Id, U. S. C*†	29.11	739.4				ne.			2		1							
Bk. Vincenzo Accame, N. 38° 50′, W. 37° 30′†	30.43	773.0	73.4	23.0		s.			4									
Schr. Viola Reppard, Brunswick, Ga†	29.86	758.4	78	25.6		sse			2		10		sse.	o	o			misty.
Bk. Warden Law, N. 40° 15′, W. 55° 16′*	30.25	768.3				ssw.			2		2		ssw.	o	o	sm'h	wsw.	fair.
Bk. Wm. Wilcox, N. 5° 20′, W. 25° 15′*†	30.18	766.6	81	27.2		sw.			2		5		sw.	2 h'r	2 h'r	sm'h		fair.

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



UNITED STATES OF AMERICA

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 10, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours			30.02	762.6	75.2	24.0	75	n.			2		2			0	0	fair	Moiroud.
Algiers			30.00	762.0	86.7	30.4	26	w.			3		0			0	0	clear	Nicolas.
La Galle			30.04	763.1	85.6	29.8	35	e.			2		2			0	0	fair	Fonfrède.
Tunis			30.02	762.6															Jacques.
Saida			30.10	764.4	96.1	35.6	48	e.			1		3			0	0	pretty fair	Perès.
Tebessa			30.11	764.7	79.5	26.4	24	ne.			2		0			0	0	clear	Derché.
Geriville					93.2	34.0	51	w.			1		1			0	0	very fair	Lonchamp.
Laghouat			30.12	765.1	93.2	34.0	16	w.			2		2			0	0	fair	Abraham.
Biskra			30.10	764.5	88.5	31.4	22	se.			1		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	30.05	763.3	30.14	765.5	46.0	7.8	95	nne.	2	0.9			0			0	0	clear	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.19	741.3	29.73	755.1	55.9	13.3	94	sw.			1		10			0.535	13.6	raining	Prof. Ivan Stozir.
Cracow, I. R Observatory	28.88	733.5	29.62	752.3	66.6	19.2	51	w.	13.6	6.1			7			0	0		Dr. Wierzbiski.
Eperies	28.74	729.9	29.57	751.1	72.7	22.6	58	s.			3	0	7 s		n.	0.079	2.0		Julius Mikolik.
Gratz	28.50	723.8	29.72	755.0	58.8	14.9	90	s.			2		10			0.287	7.3		Andreas Rospini.
Hermannstadt	28.33	719.5	29.72	754.8	68.0	20.0	54	nw.			3		6			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.39	721.2	29.72	754.8	55.2	12.9	88	sw.			1		9			0.134	3.4	raining	The Staff.
Lemberg	28.66	727.9	29.60	751.9	69.8	21.0	56	sw.			3		8			0.220	5.6		Dr. T. Stanecki.
Pola	29.61	752.2	29.72	754.9	75.0	23.9	64	sse.			3		4			0.075	1.9		I. R. Hydrographic Office.
Szathmar	29.23	742.4	29.67	753.7	67.6	19.8	72	sw.			5		10			0.118	3.0		Joseph Midlinszky, S. J.
Szegedin	29.44	747.8	29.71	754.6	71.2	21.8	51	s.			2		5			0.134	3.4		Karl Stancel.
Trieste	29.61	752.1	29.71	754.7	70.9	21.6	69	se.			1		10			0.071	1.8		Royal Academy.
Vienna	29.03	737.4	29.73	755.2	61.2	16.2	65	w.			1		10			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.68	753.9	29.77	756.1	51.8	11.0	56	nnw.	24	10.7			7			0.035	0.9	squally	W. Boswell
Armagh, Observatory	29.73	755.1	29.98	761.5	54.0	12.2	86	nnw.	12	5.4			9					d clouds	S. Call.
Bidston, Liverpool Obs'y			29.75	755.6	56.0	13.3	68	nw	26	11.6			10					overcast	John Hartnup.
Bolton, Sharples	29.18	741.2	29.70	754.4	56.8	13.8	68	nnw.	24	10.7			9					overcast	Thomas Mackereth. [A.S.
Bradford, Yorkshire	29.30	744.2	29.70	754.4	53.9	12.2	68	ne.			3		10			0.01	0.3	overcast	J. McLandsborough, F. R.
Bridgetown, Barbadoes																			Corpl. J. Surgenor, A. H. C.
Cardington																			John McLaren.
Chatham, School M. E.	29.49	749.0	29.62	752.3	56.1	13.4	75	nw.			1		10					misty	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.67	753.6	29.90	759.4	56.0	13.3	83	nnw.			4		9					foggy	The Staff.
Fort Napier, Natal	27.86	707.6	30.08	764.0	72.0	22.2	49	e.			1		0					blue sky	Pvt. Lane, A. H. C
Free Town, Sierra Leone	29.68	753.9	29.91	759.7	82.0	27.8	87	w.			1		5					blue sky	Sergt. John Robinson.
Gibraltar, Mediterranean	29.92	760.0	29.97	761.2	82.5	28.1	70	sw.			2		0					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.62	752.3	29.83	757.7	57.2	14.0	78	nw.			4		7					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.45	748.0	29.62	752.3	56.8	13.8	71	nnw.			4		10					showery	The Staff.
Guernsey	29.52	749.8	29.81	757.2	60.0	15.6	85	wnw.			2		9					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.62	752.3	29.66	753.4	57.5	14.2	62	wnw.	17	7.6			10					threatening	The Staff.
Leicester, Museum	29.40	746.7	29.65	753.1	55.8	13.2	70	nw.			3		10					overcast	J. C. Smith.
Malta, Mediterranean	29.93	760.2	30.00	762.0	74.6	23.7	70	ne.			2		1					blue sky	I. H. Whysall.
Nassau, Bahamas	30.02	762.5	30.07	763.8	80.5	26.9	86	sw.			2		10			blank	blank	overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.19	741.4	29.71	754.6	56.5	13.6	66	n.			5		10					showery	Warren Middleton.
Oxford, Radcliffe Obs'y	29.45	748.0	29.68	753.9	58.1	14.5	69	nw.			6		10					squally	The Staff.
Plymouth	29.75	755.6	29.82	757.4	61.5	16.4	74	nw.			4		8					d. clouds	John Merrifield.
Sandwick Manse, Orkneys			29.88	758.9	50	10.0	85	n.	30	13.4			8					showery	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.73	755.1	29.79	756.7	82.0	27.8	49	sw.			1		1					blue sky	W. H. Lyne.
Sheffield	29.47	748.5	29.75	755.6	58.3	14.6	67	nne.			2		10			0.06	1.5	overcast	W. F. Cooper.
Siloth Rectory	29.74	755.4	29.77	756.1	60.1	15.6	64	n.			3		10			0	0	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.78	756.4	55.4	13.0	65	nnw.	16	7.2			8					d. clouds	J. New.
Stratfield Turgiss	29.46	748.3	29.68	753.9	59.9	15.5	73	nw.			3		10					showery	Rev. O. H. Griffiths, F.M.S
Truro, Royal Institution	29.93	760.2	29.95	760.7	62	16.7	71	nw.			7		6					d. clouds	W. Newcombe.
Valencia, Observatory	30.12	765.0	30.14	765.5	55.3	12.9	76	nnw.	29	13.0			7					squally	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.76	755.9	29.80	756.9	54	12.2	74	sw.	15	6.7		2 cs	5 s		sw.	0.240	6.1	fair	H. J. Cundall, C. E.
Chatham, N. B*	29.66	753.4	29.73	755.1	55	12.8	64	sw.	12	5.4		3 ck	0	sw.		0.68	17.3	fair	G. A. Blair.
Father Point, Quebec*	29.70	754.4	29.71	754.6	47	8.3	86	w.	25	11.2		0	5 ks		calm	0.60	15.2	fair	J. McWilliams.
Halifax, N. S*	29.78	756.4	29.91	759.7	60	15.6	65	sw.	7	3.1		c	0	w.		0.104	2.6	clear	A. Allison.
Kingston, Ontario*	29.54	750.3	29.88	758.9	52	11.1	80	ne.	3	1.3			10 s		s.	0	0	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.63	752.6	29.84	757.9	52	11.1	64	nw.	5	2.2			10 n		nw.	0.05	1.3	light rain	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.17	740.9	29.85	758.2	51	10.6	80	n.	8	3.6		0	0			0	0	clear	Rev. R. Mosley.
Port Dover, Ontario	29.12	739.6	29.80	756.9	53	11.7	93	calm	0	0		4 ck	0	sw.		0	0	fair	H. Morgan.
Port Stanley, Ontario	29.18	741.2	29.81	757.2	55	12.8	69	nw.	8	3.6		5 ck	0	nw.		0	0	fair	M. Payne.
Quebec, Quebec*	29.48	748.8	29.81	757.2	47	8.3	93	w.			3		8 s		w.	0.23	5.8		Capt. Ashe, R. N.
Rockliffe, Ontario*	29.38	746.2	29.83	757.7	52	11.1	72	w.	2	0.9		2 k	0	w.		0	0	fair	W. H. McIntyre.
Saugeen, Ontario*	29.13	739.9	29.84	757.9	52	11.1	93	nw.	5	2.2		0	0			0	0	clear	
St. Andrews, N. B	29.81	757.2	29.86	758.4	53	11.7	73	w.	2	0.9		0	0			0.27	6.9	clear	
Sydney, C. B*	29.77	756.1	29.83	757.7	54	12.2	77	sw.	21	9.4		0	0			0.02	0.5	clear	T. C. Hill, C. E
Toronto, Ontario*	29.48	748.8	29.86	758.4	54	12.2	66	n.	6	2.7			10 ks		nw.	0.01	0.3	light rain	Magnetic Observatory.
Yarmouth, N. S*	29.84	757.9	29.91	759.7	52	11.7	80	sw.	3	1.3		8 k	0	w.		0	0	cloudy	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest																			Wm. Wylie.
St. Johns, Newfoundland	29.98	761.5	30.23	767.8	51	10.6	100	s.	3	1.3		5 k	5 s			0	0		John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.17	766.3	30.20	767.1	65.0	18.3	68	w.	10.8	4.8		6 cs	0			0.160	4.1	light haze	John Duthie.
Cape Town, C. G. H. Obs'y	30.27	768.8	30.31	769.9	62.0	16.7	82	nw.	18	8.0		10	10			0.245	6.2		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Chinese (*Sub-series*).																			
Hankow	29.68	753.9	29.96	761.0	71.6	22.0	83	ssw.			3		2			0.27	6.9	blue sky	N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.76	756.0	29.79	756.6	62.6	17.0	90	ese.	2.9	1.3			10			0.677	17.2	covered	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.27	743.5	29.32	744.7	57.0	13.9	78	wsw.	18	8			10					raining	Oversergent Fischer.
Fanöe	29.37	746.0	29.39	746.5	61.7	16.5	77	w.			2		9						Overloerer Lauridsen.
Godthaab, Greenland	29.94	760.5	29.98	761.6	40.5	4.7	97	calm			0		10			0.201	5.1	raining	S. Kleinschmidt.
Stykkisholm, Iceland	30.14	765.6	30.19	766.7	33.8	1.0	87	ne.			7		5						A. O. Thorlacius.
Thorshavn	30.04	763.1	30.08	764.0	44.2	6.8	73	nne.	18	8			6						Overloerer Bergh.
Vestervig	29.32	744.8	29.41	747.1	55.0	12.8	85	ne.			4		10					raining	Loearer Oesterbol.
French.																			
Agen, Normal School	29.36	745.8	30.01	762.2	64.0	17.8	69	wnw.			2	2 c	kn		w.	0	0		M. Labroue, Director.
Alençon, Normal School	29.26	743.3	29.82	757.3	59.0	15	87	sw.			2		n	n.	n.	0.024	0.6		M. Nicot, Director.
Arras, Engineer School	29.35	745.6	29.61	752.0	55.0	12.8	90	nw.			4		10 n		nw.	0.157	4.0	raining	M. Fénéon, Command't.
Avignon, Normal School	29.79	756.7	29.87	758.7	74.1	23.4	36	nw.			2		2		nw.	0	0	slightly cl'dy	M. Giraud, Director.
Bar-sur-Seine	29.21	742.0	29.75	755.7	60.6	15.9	62	wsw.			4		10		w.	0.224	5.7	covered	M. Saillard, Director.
Beauvais, Normal School	29.41	747.0	29.67	753.6	61.7	16.5	69	w.			2		8		nw.	0.083	2.1	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	28.85	732.7	29.72	754.9	59.9	15.5	78	ssw.			2	10 ck	0	ene.		0.240	6.1	raining	M. Gobin, Director.
Bordeaux, Observatory	29.73	755.1	29.99	761.7	59.9	15.5	71	w.			2		10		w.	0.154	3.9	covered	M. Rayet, Director.
Bourges, Normal School	29.28	743.6	29.82	757.3	62.6	17	52	w.			6		n		w.	0.012	0.3		M. Postel, Director.
Brest, Naval Observatory	29.70	754.3	29.94	760.5	58.6	14.8	84	nnw.			2		10		nnw.	0.118	3.0	raining	M. de Kermaree, Dir.
Caen, Normal School	29.65	753.0	29.72	754.9	63.3	17.4	72	nnw.			1		5		nnw.	0.055	1.4	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.35	745.4	29.65	753.2	59.4	15.2	72	sw.			4		10		sw.	0.091	2.3	covered	M. Jadot, Director.
Charleville, Normal School	29.10	739.2	29.61	752.2	55.0	12.8	75	w.			4		10			0.287	7.3	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.54	725.0	29.87	758.7	63.5	17.5	53	wsw.			2		8		w.	0.024	0.6	¾ covered	M. Allnard, Director.
Cluny, Normal School	29.02	737.2	29.85	758.2	62.8	17.1	55	w.			3		6		w.	0.094	2.4		M. de Villemontée, Dir.
Commercy, Normal School	28.85	732.9	29.69	754.2	58.1	14.5	70	wnw.			4		10 kn	wnw.	wnw.	0.618	15.7	light rain	Dr. Coulet, Director.
Gap, Normal School	27.34	694.5	29.80	756.8	68.7	20.4	43	sw.			1	0	1 k		w.	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.76	730.5	29.85	758.2	70.2	21.2	33	nw.			3		3		w.	0	0		M. Kina, Director.
Grenoble, Normal School	29.11	739.5	29.82	757.5	65.5	18.6	54	wnw.			1		k		sw.	0.24	6.		M. Ablard, Director.
Guéret, Normal School	28.33	719.6	29.89	759.2	59.0	15	61	w.			3		5		sw.	0.362	9.2	cloudy	M. Rivoire, Director.
Lamballe, Normal School	29.58	751.2	29.85	758.2	62.6	17	70	wnw.			3		8		wnw.	0.955	1.4	very cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.47	748.4	30.02	762.6	62.6	17	70	wsw.					10			0	0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.82	757.5	29.93	760.1	65.3	18.5	77	nw.			2		10		nw.	0.039	1.0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.85	732.7	29.88	759.0	66.9	19.4	61	w.			1		5		w.	0.272	6.9	light rain	M. André, Director.
Mans, Normal School	29.50	749.3	29.81	757.1	58.1	14.5	95	nw.			4		5		nw.	0.094	2.4	cloudy	M. Piboeu, Director.
Marseille, Observatory	29.62	752.3	29.88	759.0	72.3	22.4	60	w.			4		4		wsw.	0	0		M. Stephan, Director.
Montlouis	24.77	629.1	29.61	752.1	52.3	11.3	53	ne.	7.4	3.3			6			0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.77	756.2	29.90	759.4	72.3	22.4	47	nw.			3		2			0	0	slightly cl'dy	M. Galzin, Director.
Nancy, Normal School	28.92	734.6	29.69	754.0	62.2	16.8	53	ssw.			3		kn		sw.	0.421	10.7		M. Hasse, Director
Nantes, Observatory	29.75	755.6	29.91	759.7	58.3	14.6	86	wnw.			1–3		10 n		wnw.	0.047	1.2	rainy	M. Larocque, Director.
Perpignan, Observatory	29.86	758.5	29.97	761.2	65.1	18.4	52	sw.	29.8	13.3			10		nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.22	539.1			35.2	1.8		sw.			2		5		sw.	0.008	0.2	cloudy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.82	732.0	29.85	758.2	69.4	20.8	34	w.			1		5 k	e.	e.	0	0	cloudy	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.00	635.0			39.7	4.3	100	w.			6		10			0.496	12.6	rain and fog.	M. Allnard, Director.
Rochefort, Naval Obs'y	29.93	760.1	29.96	760.9	64.2	17.9	75	w.			4		8		w.	0.16	4.	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.68	753.8	29.89	759.2	63.3	17.4	68	ssw.			1		10		w.	0	0	covered	M. Mouillot, Director.
Rodez, Normal School	27.91	708.8	30.04	762.9	56.1	13.4	66	se.			1		kn		s.	0.110	2.8		M. Seger, Director.
Rouen, Normal School	29.64	752.9	29.69	754.1	60.8	16	69	wnw.			2		10	sw.		0.08	2.	covered	M. Brotier.
Saint Maur, Observatory	29.55	750.6	29.72	754.8	58.8	14.9	78	wsw.			2		10		wsw.	0.091	2.3		M. Renou, Director.
Toulouse, Observatory	29.35	745.4	30.07	763.8	61.0	16.1	67	w.			3		5	w.		0.024	0.6	cloudy	M. Baillaud, Director.
Tours	29.63	752.7	29.81	757.2	63.7	17.6	71	w.			2		10	nw.	wnw.			rainy	M. de Tastes.
Versailles, Observatory	29.24	742.6	29.73	755.1	54.3	12.4	86	w.			3					0.031	0.8		Dr. A. Berigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.43	747.6	29.72	755.0	56.1	13.4	86	wsw.			2		9		wsw.	0.059	1.5	light rain	M. Marié Davy, Director
German.																			
Bamberg	28.81	731.8	29.65	753.2	57.7	14.3	67	sw.			4	0	7 n		sw.	0.437	11.1	raining	Prof. Dr. Hoh.
Berlin	29.42	747.2	29.59	751.6	61.5	16.4	55	se.			2		9			0.028	0.7		Prof. Dr. Arndt.
Breslau	29.09	738.9	29.61	752.2	64.2	17.9	54	wsw.			2		9			0.035	0.9		Royal University Obs'y.
Carlsruhe	29.24	742.6	29.66	753.4	60.6	15.9	70	sw.			10		5	sw.		0.110	2.8	raining	Albert Senz.
Cassel	28.80	731.4	29.51	749.5	51.4	10.8	81	sw.			4		8	sw.		0.354	9.0		Dr. H. Möhl.
Frankfort-on-the-Main	29.22	742.1	29.57	751.0	63.0	17.2	54	sw.			3		10			0.401	11.7		Physical Society.
Friedrichshafen	28.33	719.6	29.73	755.1	61.9	16.6	57	w.			6		4	w.		0.028	0.7		Wilhelm, Chief Tel.
Hamburg	29.35	745.4	29.44	747.8	60.3	15.7	69	sw.			4		9			0.189	4.8		E. Preller.
Kiel	29.37	746.1	29.39	746.5	61.7	16.5	62	wsw.			3		9			0.142	3.6		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.14	740.1	29.55	750.5	63.1	17.3	72	sw.			4		7	sw.		0.091	2.3		H. Leppig, Asst.
Magdeburg	29.31	744.4	29.49	749.0	60.6	15.9	57	w.			4	0	8 ks;n		sw.	0.490	12.0		Dr. Assmann.
Memel	29.45	748.0	29.49	749.1	61.7	16.5	83	s.			4		10 sn					showery	Isermann.
Munich	27.93	709.4	29.78	756.3	62.2	16.8	51	nw.			4		5	sw.		0.299	7.6		Central Station
Neufahrwasser	29.44	747.8	29.46	748.2	65.1	18.4	54	ssw.			3		9			0.177	4.5		A. Lothes.
Neustadt, Palatinate	29.09	738.8	29.61	752.0	62.1	16.7	65	s.			3		9	sw.		0.157	4.0		Dicknether.
Stuttgart	28.74	730.1	29.62	752.3	59.9	15.5	63	sw.			3		8	w.		0.118	3.0		Prof. Dr. Schoder.
Wustrow	29.39	746.6	29.42	747.2	59.4	15.2	98	wsw.			3		10 s			0.280	7.1		Profs. Brandes & Reimer
Greek.																			
Athens	29.53	750.1			84.0	28.9		sw.			2.0		0			0	0	clear	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.46	748.2	29.50	749.4	89.0	31.7	80	sw.	28.0	12.5			6			0	0	misty	
Deesa								sw.	11.4	5.1						0.80	20.3		
Bombay	29.46	748.3	29.50	749.2	83.0	28.3	85	wsw.	20.0	8.9			10		ssw.	0	0	overcast	
Poona, Yarrowda	27.68	703.1	29.52	749.8	77.3	25.2	69	ssw.	21.0	9.4			10		sw.	0.05	1.3	overcast	
Trichinopoly	29.45	748.0	29.73	755.1	85.2	29.6	53	w.	2.0	0.9			10			0	0	overcast	
Bellary	28.15	715.0	29.61	752.0	80.0	26.7	67	w.	10.5	4.7			10			0	0	overcast	
Belgaum	27.12	688.8	29.68	753.9	66.9	19.4	92	wsw.	16.0	7.2			10			0.69	17.5	drizzling	
Lahore	28.55	725.2	29.23	742.5	113.3	45.2	18	w	1.9	0.8			0			0	0	blue sky	
Roorkee	28.43	722.1	29.27	743.3	107.3	41.8	34	e.	3.9	1.7			7			0	0		
Agra	28.78	730.9	29.30	744.2	107.1	41.7	25	e.	5.9	2.6			4		e.	0	0	d. clouds	
Nagpur	28.42	721.7	29.44	747.9	79.4	26.3	87	nw.	5.1	2.3			10		w.	0.41	10.4	overcast	
Jubbulpore	28.10	713.9	29.44	747.8	79.3	26.3	87	sw.	5.5	2.5			10		s.	0	0	overcast	
Lucknow	28.98	736.0	29.33	745.1	101.4	38.6	41	e.	3.0	1.3			0			0	0	blue sky	
Allahabad	29.04	737.6	29.33	745.1	98.2	36.8	46	e.	3.8	1.7			0			0	0	blue sky	
Patna	29.25	743.0	29.43	747.5	94.7	34.8	55	ene.	9.0	4.0			2	ene.	ene.	0	0		
Hazaribagh	27.50	698.5	29.48	748.9	79.8	26.6	79	ese.	10.4	4.6			5	se	nw.	0.13	3.3	thud'rstorm	
Cuttack	29.35	745.4	29.43	747.4	84.6	29.2	78	n.	0.2	0.1			7			0.02	0.5	d. clouds	
Calcutta, Alipore	29.42	747.3	29.44	747.8	81.1	27.3	91	ssw.	2.0	0.9			10		e.	0.28	7.1	overcast	
Dhubri	29.35	745.6	29.47	748.5	88.7	31.5	76	calm	1.7	0.8			1			0	0	d. clouds	
Chittagong	29.44	747.8	29.53	750.1	82.7	28.2	84	sse.	5.1	2.3			8			0.01	0.3	d. clouds	
Sibsagar	29.14	740.1	29.47	748.5	89.1	31.7	71	ne.	1.6	0.7			0			0.30	7.6	blue sky	
Jeypore	27.92	709.1	29.26	743.2	109.4	43.0	24	s.	2.4	1.1			4		s.	0	0	d. clouds	
Zanzibar, Africa	30.06	763.5			83.2	28.4	57	se.	5.5	2.5			7			0	0	d. clouds	
Italian.																			
Udine	29.32	744.8	29.72	754.9	63.3	17.4	67	calm	0	0			10			0.811	20.6		Prof. Giovanni Clodig.
Milan	29.18	741.2	29.68	753.8	75.4	24.1	48	sw.	3.8	1.7			5	wsw.		0	0		Prof. Schiaparelli.
Padua	29.61	752.2	29.72	754.9	73.2	22.9	52	wsw.	9.4	4.2			3	wsw.		0.035	0.9		Prof. Dott. Lorenzoni.
Moncalieri	28.78	730.9	29.65	753.0	73.4	23.0	45	se.	3.8	1.7			2	sw.		0	0		Prof. P. F. Denza.
Genoa	29.54	750.4	29.73	755.1	69.8	21.0	56	e.	16.1	7.2			4	se.		0	0		Prof. G. M. Garibaldi.
Mondovi	27.78	705.7	29.63	752.6	73.8	23.2	48	se.			6		1	wsw.		0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	29.67	753.7	29.72	754.9	79.2	26.2	38	w.	11.2	5.0			3			0	0		Prof. Luigi Guidi.
Florence	29.56	750.9	29.81	757.2	70.9	21.6	52	sw.			6		5			0.067	1.7		Prof. Costantino Pitter.
Leghorn	29.69	754.0	29.77	756.1	70.0	21.1	58	w.	18.1	8.1			10	w.		0	0		Prof. P. Monte.
Rome	29.74	755.4	29.91	759.7	74.8	23.8	55	ssw.	8.1	3.6			9			0	0		Prof. P. S. Ferrari.
Lecce	29.69	754.1	29.93	760.3	82.6	28.1	40	s.	17.4	7.8			3			0	0		Prof. C. de Giorgi.
Cosenza	29.07	738.3	29.92	759.9	80.6	27.0	72	sse.	3.1	1.4			4	se.		0	0		Prof. D. Conti.
Cagliari	29.68	753.9	29.87	758.6	73.9	23.3	48	sse.			4		0			0	0		Prof. A. Pacinotti.
Palermo	29.75	755.6	29.99	761.8	76.1	24.5	46	ne.	8.1	3.6			0			0	0		Prof. G. Ciacciatore.
Syracuse	29.95	760.6	29.99	761.7	77.2	25.1	56	sse.	6.9	3.1			2	sw.		0	0		Prof. Vincenzo Gulliano
Sub-series.																			
Naples, S. R	29.44	747.8	29.95	760.8	72.0	22.2	64	ssw.	9.8	4.4			1			0.091	2.3		Prof. T. Brioschi.
Stelvio	21.96	557.9			44.6	7.0	55	sw.			4		8			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.04	559.9			42.6	5.9	54	n.			6		4			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.71	754.6	29.74	755.4	59.6	15.3	90	sw.	4.9	2.1			10ks;s			0.028	0.7	covered	K. Ogawa.
Hakodate	29.71	754.6	29.72	754.9	54.5	12.5	96	calm	0	0			1			0.025	0.6	clear	
Hiroshima, I. M. Obs'y	29.76	755.9	29.78	756.4	61.6	16.4	92	ese.	0.5	0.2			10 n			0.846	21.5	raining	I. Sogawa.
Kanazawa	29.80	756.9	29.91	759.7	61.7	16.5	91	n.	1.6	0.7		8ck;cs	0			0.120	3.0	dull	S. Endo.
Kioto	29.59	751.6	29.76	755.9	64.0	17.8	78	calm	0	0			10 n			0.506	12.8	light rain	M. Tojima.
Kochi	29.77	756.1	29.79	756.6	65.5	18.6	87	nnw.	4.8	2.1			10 n			0.540	13.7	light rain	K. Kusunose.
Nagasaki, I. M. Obs'y	29.54	750.3	29.74	755.4	58.9	14.9	82	ne.	7.0	3.1			10 n	nne.		0.960	24.4	raining	S. Takehayashi.
Nemuro	29.72	754.9	29.78	756.4	51.3	10.6	86	calm	0	0		10	0			0	0	overcast	
Niigata	29.78	756.4	29.81	757.2	61.3	16.3	89		0.7	0.3		10 ck	0			0	0	cloudy	M. Morita.
Nobiru	29.73	755.1	29.75	755.6	62.5	16.9	74	nnw.	18.3	6.8			10 s			0.005	0.1	covered	H. Midzushina.
Supporo					53.0	11.7	93	n.	6.6	2.9			10			0	0	covered	
Tokei Obs'y, Yeddo	29.70	754.4	29.76	755.9	68.4	20.2	80	s.	2.0	0 9			10 s			0.355	9.0	cloudy	The Staff.
Wakayama	29.72	754.9	29.77	756.1	66.8	19.3	76	calm	0	0			10 n			0.358	9.1	light rain	Y. Kuwamuea.
MAURITIUS																			
Mauritius Observatory	30.02	762.5	30.21	767.3	71.6	22.0	63	se.	11.0	4.9		0	5 ks;n		se.	0.02	0.5	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.67	601.2	29.89	759.2	64.6	18.1	81	calm	0	0		0	7 pk;s		w.	0.039	1.0	fair	Prof. Vicente Fernandez.
Leon	24.30	617.2	29.93	760.2	60.8	16.0	90	nw.			1	7 c	0	s.		0.045	1.2	cloudy	Prof. M. Leal.
Mazatlan	29.68	753.9	29.94	760.5	73.0	22.8	95	ese.	1.6	0.8		1 cs	0			0	0	clear	F. Quijano, C. E.
Mexico, Central Obs'y	23.10	586.7	30.10	764.6	56.1	13.4	85	calm	0	0		1 c	1 k			0.130	3.4	fine	The Staff.
Morelia	24.20	614.6	30.25	768.4	61.3	16.3	67	ne.			3	1	2	s.	s.	0	0	clear	M. Tena, M. D.
Pabellon, Aguascalientes	23.89	606.8	29.85	758.1	61.5	16.4	92	calm			0					0.060	1.5		M. Y. de Leon, M. E.
Puebla, Catholic Institute	23.44	595.4	30.19	767.0	54.1	12.3	88	calm	0	0		0	0			1.032	25.4	clear	Prof. P. Spina.
San Luis Potosi	24.19	614.3	30.06	763.4	66.4	19.1	78	ssw.				1	6	w.	w.	0.445	11.3		G. Barroeta, M. D.
Zacatecas	22.51	571.7	30.05	763.1	58.1	14.5	68					0	0			0	0	fine	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.48	748.8	29.48	748.8	57.9	14.4		wnw.			4					0.571	14.5		
Groningen	29.33	744.9	29.38	746.3	59.4	15.2		s.			1					0.087	2.2		
Helder	29.39	746.4	29.39	746.4	54.7	12.6		nw.			1					0.248	6.3		
Hellevoetsluis	29.42	747.3	29.42	747.3	58.1	14.5	77	nw.			1					0.642	16.3		
Utrecht	29.34	745.2	29.39	746.4	59.9	15.5	76	sw.			4		8			0.563	14.3	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.50	749.3	29.56	750.9	58.3	14.6	74	nnw.	16	7			8			0.394	10.0		
Brono	29.70	754.3	29.74	755.3	52.2	11.2	59	n.	18	8			8			0.079	2.0		
Christiania	29.37	746.0	29.51	749.6	60.1	15.6	76	e.	0	0			10			0.157	4.0	thund'r st'm	
Gjessvær	29.94	760.5	29.97	761.1	40.6	4.8		nne.			4		8						
Lodingen	29.91	759.7	29.96	760.9	44.8	7.1	40	ne.			6		0			0	0		
PORTUGUESE.																			
Angra, Azores					66.6	19.2	77	e.	15.0	6.7			2			0	0		Dr. J. A. Sampaio.
Campo Major	29.03	737.4	29.99	761.8	79.7	26.5	34	wnw.	6.3	2.8			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.08	764.0	30.17	766.3	69.8	21.0	75	sw.	6.9	3.1			1			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.80	757.0	30.16	766.0	66.6	19.2	51	n.	26.2	11.7			0			0	0		The Staff.
Ponta Delgada, Azores	30.38	771.7	30.45	773.5	66.6	19.2	58	ne.	15.0	6.7			4			0	0		
Saint Paul de Loando	29.85	758.1	30.05	763.3	72.1	22.3	96	nne.	0.7	0.3			10			0	0		
Serra da Estrella	25.36	644.2	30.07	763.7	52.3	11.3	56	nw.	24.8	11.1			0			0	0		
RUSSIAN.																			
Akmolinski	28.59	726.2	29.63	752.5	65.3	18.5	71	sw.	9	4		0	6			0.165	4.2		Major K. Lasarew.
Archangel	29.97	761.1	29.98	761.6	54.5	12.5	56	calm	0	0		0	8 ks			0	0		Capt. Sselliwerstow.
Astrakhan	30.15	765.7	30.06	763.6	84.4	29.1	42	wsw.	2	1		0	1 ks			0	0		Capt. Wisganow.
Barnaul	29.26	743.3	29.74	755.4	68.9	20.5	51	nw.	22	10			9			0	0		Meteorological Obs'y.
Dorpat	29.30	744.1	29.52	749.9	75.9	24.4	56	ese.	16	8		0	2 ks			0.016	0.4		Observatory.
Ekaterinburg	28.68	728.4	29.60	751.7	69.1	20.6	43	n.	18	8		0	5 k			0.024	0.6		Meteorological Obs'y.
Kasan	29.66	753.3	29.91	759.7	76.6	24.8	32	nw.	4	2		0	0			0	0		Observatory.
Kertch	29.82	757.5	29.84	758.0	64.2	17.9	90	sse.	11	5		0	0			0	0		Lagorio & Sastyrez.
Kieff	29.02	737.0	29.60	751.9	84.2	29.0	29	se.	16	7		c	3 k;ks			0.039	1.0	solar halo	Observatory.
Lugan	29.66	753.4	29.85	758.3	86.5	30.3	31	sse.	13	6			7			0	0		Meteorological Obs'y
Moscow	29.33	744.9	29.76	756.0	82.9	28.3	42	s.	7.8	3.5			0						Meteorological Obs'y.
Nikolaiev	29.71	754.6	29.78	756.4	82.4	28.0	42	s.	45	20		0	0			0.024	0.6		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.65	753.2	29.74	755.4	46.6	8.1	59	calm	0	0			0			0	0		Lieut. Iwanow.
Pekin, China	29.61	752.2	29.76	755.8	70.3	21.3	39	calm	0	0		0	3 k			0	0		Physical Observatory
St. Petersburg	29.69	754.2	29.71	754.6	68.4	20.2	56	e.	16	7		0	8 ks;n			0	0		Central Physical Obs'y.
Semipalatinsk	29.04	737.6	29.65	753.2	77.4	25.2	38	nnw.	7	3		0	5			0.311	7.9		Major Lasarew.
Tashkend, Laboratory	28.39	721.2	29.88	758.9	81.3	27.4	40	calm	0	0			0						Teich, A. M.
Tiflis	28.65	727.8	30.00	762.0	82.0	27.8	43	se.				0	0			0	0		Physical Observatory
Vladivostock	29.68	753.9			53.4	11.9	89	calm	0	0			9 k						
Warsaw	29.15	740.5	29.56	750.8	67.5	19.7	57	nw.	11	5			10 ks			blank	blank		Astronomical Obs'y
Wilna	29.15	740.4	29.55	750.6	67.5	19.7	71	sw.	7	3			10			0.106	2.7	heavy clouds	Berg, Assistant.
SPANISH.																			
Barcelona, Met. Oos'y	29.84	757.9	29.94	760.5	69.1	20.6	62	e.	3.4	1.5			9			0	0	covered	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.09	764.2	30.15	765.7	65.8	18.8	66	nw.	5.8	2.6		2	7	nw.		0.020	0.5	almost cov'd	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.15	689.5	30.08	763.9	60.8	16.0	67	ne.	7.4	3.3			5			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.74	704.7	29.87	758.8	76.3	24.6	36	nw.	17.4	7.8		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.72	755.0	29.88	758.9	82.8	28.2	43	ene.	4.5	2.0		0	0			0	0	clear	Olayo Diaz, Director.
Santiago, Met. Obs'y.A	29.29	744.0	30.19	766.9	58.5	14.7	67	n.	10.5	4.7			10			0.035	0.9	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	29.92	759.9	29.98	761.6	80.5	26.9	86	calm	0	0		2 c	: k;s	w.	s.	0.370	9.4	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.78	756.4	29.84	757.9	83.3	28.5	74	sw.	4.4	2.0			9 kn		e.	0.177	4.5	threatening	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.88	759.0	29.98	761.4	79.5	26.4	57	wnw.	10.6	4.7		0	2		nw.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.02	762.6	30.11	764.9	82.4	28.0	81	se.	4.5	2.0		0	2 k		se.	0	0	clear	Manuel Maese.
Tuguegarao, Philippine Id's	29.67	753 6	29.80	756.9	85.7	29.8	75	nw.	4.5	2.0		0	6 k		sw.	0	0	cloudy	José L. Yrastorza.
SWEDISH																			
Haparanda	29.93	760.1	29.97	761.1	51.1	10.6	77	calm			0		8			0	0		
Umea	29.80	756.8	29.85	758.1	56.5	13.6	60	e.			6		5			0.354	9.0		
Hernosand	29.70	754.4	29.75	755.7	51.8	11.0	68	ne.			4		8			0	0		
Stockholm	29.34	745.3	29.52	749.8	52.5	11.4	86	ne.			7		10					raining	
Wisby	29.32	744.8	29.38	746.3	55.0	12.8	94	sse.			4		10			0.031	0.8	raining	
Sub-series.																			
Upsala	29.44	747.8	29.53	750.0	56.3	13.5	72	ne.	13.9	6.2			10		ne.	0.331	8.4	raining	S. G. Flueman.
SWISS.																			
Geneva	28.47	723.1	29.87	758.7	62.2	16.8	66	ssw.			2					0	0	covered	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
SCOTTISH.																			
Monach Lt			30.00	762.0	50	10.0	93	n.			7	5	5	n.		0.1	3.	showery	J. Youngclause.
TURKISH.																			
Constantinople			29.81	757.2	82.4	28.0	42	sw.	16	7.0			3		sw.	0	0		The Observatory.
Valona			30.09	764.2	77.4	25.2		sw.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.95	760.6	77.9	25.5	63	ne.			1	0	0			0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.80	756.9	29.88	758.9	60	15.6	81	w.	2	0.9			10 s			0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.27	743.4	29.92	760.0	51	10.6	66	ne.	10	4.5		0	0			0	0	clear.	Jas. J. Fitzgerald.
Atlanta, Georgia	28.75	730.2	29.90	759.4	67.5	19.7	93	e.	2	0.9			10 s			0.23	5.8	threatening.	H. Hall.
Atlantic City, New Jersey	29.82	757.4	29.83	757.7	60.3	15.7	90	ne.	2	0.9		7 ck	3 s	sw.		0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.74	755.4	29.93	760.2	72	22.2	87	se.	2	0.9			10 s			inap.	inap.	cloudy	John Healy.
Baltimore, Maryland	29.81	757.2	29.86	758.4	70	21.1	76	n.	4	1.8		5 cs	0	w.		inap.	inap.	fair	Robert Seyboth.
Barnegat, New Jersey	29.83	757.7	29.85	758.2	58.0	14.4	83	n.	10	4.5		8 ck	0	sw.		0.05	1.3	cloudy	Chas. F. Merritt.
Behring Island, Behring Sea	29.81	757.2	29.83	757.7	35.0	1.7		e.	2	0.9		0	6 s			0	0	fair	Dr. L. Steineger.
Bismarck, Dakota	28.20	716.3	29.94	760.5	50	10.0	58	ne.	10	4.5		0	hz.			inap.	inap.	clear	Cyrus Cramer.
Boise City, Idaho	27.02	686.3	29.80	756.9	51	10.6	66	w.	2	0.9			10 s		calm	0	0	cloudy	B. E. Light.
Boston, Massachusetts	29.78	756.4	29.93	760.2	57.0	13.9	74	w.	2	0.9			10s;fg		w.	inap.	inap.	cloudy	O. B. Cole.
Brownsville, Texas	29.72	754.9	29.76	755.9	80.0	26.7	88	se.	6	2.7		0	4 s		se.	0	0	fair	M. McCarty.
Buffalo, New York	29.08	738.6	29.82	757.4	58.4	14.7	50	se.	3	1.3		5 cs	5s;hz	w.	w.	0	0	cloudy	Wm. Finn.
Burlington, Vermont	29.54	750.3	29.83	757.7	57.3	14.1	66	sw.	7	3.1		7 ck	0	w.		0.07	1.8	fair	G. C. Schaeffer.
Cairo, Illinois	29.48	748.8	29.87	758.7	74.8	23.8	77	sw.	1	0.4		0	hz.			0	0	clear	W. H. Ray.
Campo, California	27.30	693.4	29.78	756.4	45.7	7.6	93	sw.	7	3.1			10 n			0.13	3.3	light rain	W. H. Glendenon.
Camp Thomas, Arizona	27.05	687.1	29.68	753.9	53	11.7	40	e.			1	0	0			0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	29.86	758.4	29.88	758.9	73	22.8	76	sw.	12	5.4		4 k	0			0	0	fair	A. K. Alderson.
Cape May, New Jersey	29.80	756.9	29.83	757.7	67	19.4	78	se.	5	2.2			10 ks		sw.	0	0	cloudy	W. Bolton.
Cedar Keys, Florida	29.88	758.9	29.90	759.4	76	24.4	90	sw.	10	4.5			10 s		sw.	1.20	30.5	cloudy	F. W. Mixer.
Champaign, Illinois	28.98	736.1	29.77	756.1	67.8	19.9	84	s.	4	1.8		4 c	0	sw.		0.28	7.1	fair	L. A. Welsh.
Charleston, S. Carolina	29.80	756.9	29.85	758.2	70	21.1	100	nw.	7	3.1			10 n			0.41	10.4	light rain	J. H. Smith.
Charlotte, N. Carolina	29.03	737.3	29.86	758.4	72.0	22.2	82	sw.	2	0.9		10 ck	0	s.		0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.10	739.1	29.91	759.7	72.0	22.2	82	calm	0	0		1 cs	sk.			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	23.94	608.1	29.68	753.9	51.4	10.8	85	w.	3	1.3			10 s			0.36	9.1	cloudy	E. McGovern.
Chicago, Illinois	29.11	739.4	29.80	756.9	61.8	16.6	85	n.	6	2.7		10 k	fg.	w.		0	0	cloudy	J. Mitchell.
Chincoteague, Virginia	29.82	757.4	29.84	757.9	72.5	22.5	90	s.	7	3.1		0	0			0	0	clear	V. P. Temple.
Cincinnati, Ohio	29.18	741.2	29.83	757.7	73	22.8	76	s.	2	0.9		3 ck	0	sw.		inap.	inap.	clear	R. B. Watkins.
Cleveland, Ohio	29.07	738.4	29.80	756.9	60.8	16.0	70	se.	7	3.1			10 s		w.	0	0	cloudy	J. B. Newlin.
Coleman City, Texas	28.01	711.4	29.76	755.9	73	22.8	84	ne.	7	3.1			10 n		sw.	inap.	inap.	light rain	L. Dorman.
Columbus, Ohio	28.98	736.1	29.82	757.4	67	19.4	84	s.	3	1.3		6 ck	3 k	sw.	sw.	0.14	3.6	cloudy	D. Cuthbertson.
Concho, Texas	27.86	707.6	29.73	755.1	75	23.9	90	s.	12	5.4		0	7 s		s.	0	0	cloudy	W. W. McConihe.
Davenport, Iowa	29.12	739.6	29.76	755.9	67	19.4	97	e.	2	0.9		3 k	6 s	w.	w.	0.85	21.6	cloudy	R. R. Martin.
Dayton, Washington T'y	28.16	715.3	29.90	759.4	51.2	10.7	92	calm	0	0		0	8 s		sw.	0.28	7.1	clearing	H. Clifford.
Deadwood, Dakota	25.31	642.9	29.74	755.4	51	10.6	100	e.	2	0.9			fg.			0.11	2.8	dense fog	G. W. Scott.
Decatur, Texas					69	20.6	84	se.	12	5.4			10 n		se.	2.21	56.1	heavy rain	D. J. Carr.
Delaware Breakwater, Del.	29.82	757.4	29.84	757.9	65	18.3	93	se.	4	1.8		3 ck	6s;hz	w.	calm	0	0	cloudy	F. C. Pratz.
Denison, Texas	29.03	737.3	29.81	757.2	68.0	20.0	93	nw.	4	1.8			10 n			0.04	1.0	light rain	J. McGlone.
Denver, Colorado	24.63	625.6	29.67	753.6	55.2	12.9	84	ne.	3	1.3		0	1 s		calm	0.48	12.2	clear	F. M. Neal.
Des Moines, Iowa	28.86	733.0	29.74	755.4	64	17.8	93	e.	8	3.6			10 n		e.	1.72	43.7	thund'r st'm.	F. W. Conrad.
Detroit, Michigan	29.11	739.4	29.80	756.9	61.3	16.3	72	nw.	1	0.4			10 s		calm	0	0	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.15	689.6	29.66	753.4	64	17.8	78	se.	10	4.5		6 cs	0			0.12	3.0	fair	E. A. Thomas.
Dubuque, Iowa	29.10	739.1	29.79	756.7	58.3	14.6	86	ne.	3	1.3			10 n			0.28	7.1	heavy rain	J. Harvey Smith.
Duluth, Minnesota	29.37	746.0	30.06	763.5	48	8.9	63	ne.	8	3.6		hz.	hz.			0	0	dense haze	N. B. Conger.
Eagle Pass, Texas	29.00	736.6	29.80	756.9	78.0	25.6	82	se.	5	2.2			10 s		se.	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.17	639.3	29.76	755.9	43	6.1	63	n.	6	2.7		0	0			0.07	1.8	clear	J. M. Clifford.
Eastport, Maine	29.82	757.4	29.89	759.2	57.5	14.2	64	sw	7	3.1		2 c	0	sw.		0.45	11.4	clear.	D. C. Murphy.
El Paso, Texas	26.15	664.2	29.74	755.4	62	16.7	36	nw.	8	3.6		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.10	739.1	29.82	757.4	61	16.1	60	s.	5	2.2			10 s		w.	0	0	cloudy	Peter Wood.
Escanaba, Michigan	29.33	745.0	29.98	761.5	47	8.3	77	n.	21	9.4		hz.	hz.			0	0	dense haze	C. Dill.
Fort Apache, Arizona	24.88	631.9	29.63	752.6	42	5.6	48	ne.	1	0.4		0	0			0	0	clear	W. O. Barnes.
Fort Assinnaboine, Montana	27.16	689.9	29.95	760.7	57	13.9	86	ne.	6	2.7			10 s		ne.	0.01	0.3	cloudy	B. O. Lenoir.
Fort Bennett, Dakota	28.30	718.8	29.84	757.9	58	14.4	77	n.	4	1.8			10 s		calm	0.23	5.8	cloudy	A. Pritchard.
Fort Benton, Montana																			G. W. Davis.
Fort Buford, Dakota	28.08	713.2	30.04	763.0	55	12.8	69	e.	12	5.4			10 s		e.	0	0	cloudy	A. H. Bell.
Fort Custer, Montana	26.77	679.9	29.83	757.7	56	13.3	93	e.	12	5.4			10 s		calm	0.54	13.7	cloudy	V. Verge.
Fort Davis, Texas	25.04	636.0	29.65	753.1	69	20.6	19	n.	4	1.8		0	0			0	0	clear	J. Williams.
Fort Elliott, Texas	27.00	685.8	29.67	753.6	64	17.8	78	se.	16	7.2		6 c	0	se.		inap.	inap.	fair	W. J. Cundall.
Fort Grant, Arizona	25.10	637.5	29.64	752.8	53	11.7	39	n.	4	1.8		0	0			0	0	clear	Robert C. Lord.
Fort Keogh, Montana	27.43	696.7	29.86	758.4	61	16.1	67	e.	6	2.7		10 cs	0			0	0	cloudy	W. B. Stockman.
Fort Macon, North Carolina	29.89	759.2	29.90	759.4	74	23.3	97	se.	4	1.8			10s;hz		se.	0	0	cloudy	W. W. Thomas.
Fort McKavett, Texas	27.59	700.8	29.79	756.7	70	24.4	58	s.	14	6.3		0	0			0	0	clear	J. E. Thatcher.
Fort Missoula, Montana	26.68	677.7	29.94	760.5	60	15.6	78	n.	1	0.4			10 ks			0.01	0.3	cloudy	J. H. Jones.
Fort St. Michaels, Alaska	29.50	749.3	29.54	750.3	44	6.7	100	e.	5	2.2		0	5 s		e.	0.01	0.3	fair	A. P. Leavitt.
Fort Shaw, Montana	26.35	669.3	29.92	760.0	55	12.8	80	n.	13	5.8		0	8 k		n.	inap.	inap.	cloudy	A. L. Mathews.
Fort Sill, Indian Territory	28.47	723.1	29.67	753.6	66	18.9	87	s.	16	7.2			10 s		s.	0.40	10.2	cloudy	T. Cleary.
Fort Smith, Arkansas	29.30	744.2	29.76	755.9	70.0	21.1	90	e.	4	1.8		0	0			0	0	clear	J. B. Campbell.
Fort Stevenson, Dakota	28.21	716.5	30.01	762.2	49	9.4	71	e.	1	0.4		0	0			0	0	clear	W. Burrows.
Fort Verde, Arizona					57.2	14.0	39	sw.			1	0	0			0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.41	620.0	29.79	756.7	44.7	7.1	94	e.	4	1.8		9 k	0			0.01	0.3	cloudy	T. M. Ambler.
Fredericksburg, Texas	28.06	712.7	29.74	755.4	73	22.8	90	sw.	10	4.5		4 k	0	sw.		0	0	fair	H. S. Miles.
Galveston, Texas	29.78	756.4	29.83	757.7	76	24.4	91	sw.	8	3.6		0	5 k		s.	0	0	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.15	740.4	29.80	756.9	62.0	16.7	68	ne.	6	2.7		4 k	5 s	w.	w.	0	0	cloudy	W. A. Reid.
Hatteras, North Carolina	29.90	759.4	29.92	760.0	74	23.3	97	s.	5	2.2		9 k	0	w.		0	0	cloudy	R. M. Crawford.
Helena, Montana	25.76	654.3	29.88	758.9	57	13.9	83	nw.	2	0.9		10 k	0	nw.		0.02	0.5	cloudy	S. Wheaton.
Henrietta, Texas	28.84	732.5	29.82	757.4	69.0	20.6	100	w.	15	6.7			10 n			0.60	15.2	heavy rain	J. W. Byram
Huron, Dakota	28.46	722.9	29.80	756.9	61.1	16.2	87	ne.	16	7.2			10 ks		ne.	0.06	1.5	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.01	736.8	29.79	756.7	74	23.3	76	nw.	1	0.4		7ck;cs	hz.	w.	calm	inap.	inap.	fair	O. Schutze
Indianola, Texas	29.77	756.1	29.80	756.9	77.6	25.3	90	se.	6	2.7		0	0			0	0	clear	I. A. Reed.
Jacksboro, Texas	28.65	727.7	29.77	756.1	66	18.9	100	n.	8	3.6			10 n		n.	0.87	22.1	thnd'r st'rm	J. P. Sherry.
Jacksonville, Florida	29.85	758.2	29.89	759.2	75	23.9	85	sw.	6	2.7			10 s		sw	0.03	0.8	cloudy	J. W. Smith.
Keokuk, Iowa	29.10	739.1	29.74	755.4	70.0	21.1	90	w.	2	0.9		2 k	8 n	w.	w.	0.28	7.1	heavy rain	F. Z. Gosewisch
Key West, Florida	29.94	760.5	29.96	761.0	84.0	28.9	74	se.	5	2.2		2 cs	0			0.01	0.3	clear	R. H. Paxton.
Kittyhawk, North Carolina	29.91	759.7	29.93	760.2	73	22.8	84	sw.	10	4.5		2 cs	4 k		w.	0	0	fair	E. A. Beals.
Knoxville, Tennessee	28.89	733.8	29.90	759.4	71	21.7	81	s.	2	0.9		0	0			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.09	738.9	29.85	758.2	62	16.7	41	ne.	10	4.5			10 s			0	0	cloudy	S. C. Emery.
La Mesilla, New Mexico	25.99	660.1	29.71	754.6	56.0	13.3	47	calm	0	0		0	0			0	0	clear	N. D. Lane.
Leavenworth, Kansas	28.82	732.0	29.69	754.1	70	21.1	84	s.	14	6.3			10 s		s.	inap.	inap.	cloudy	A. W. Browne.
Lewiston, Idaho	29.05	737.9	29.87	758.7	63	17.2	84	w.	1	0.4		4 ck	0			0.17	4.3	fair	W. Bell.
Little Rock, Arkansas	29.52	749.8	29.83	757.7	71	21.7	90	calm	0	0		0	0			0	0	clear	W. U. Simmons.
Los Angeles, California	29.52	749.8	29.91	759.7	55.8	13.2	80	e.	5	2.2		0	6 s		calm	inap.	inap.	fair	E. F. Kubel.
Louisville, Kentucky	29.25	742.9	29.80	756.9	73	22.8	76	s.	3	1.3		1 k	sk.			0.27	6.9	clear	H. C. Smyth.
Lynchburg, Virginia	29.18	741.2	29.85	758.2	73.5	23.1	66	calm	0	0		hz.	2 s		s.	inap	inap.	clear	W. R. Bushby.
Madison, Wisconsin	28.86	733.0	29.85	758.2	56	13.3	57	ne.	15	6.7			10 s		w.	0	0	cloudy	C. A. Shaw.
Marquette, Michigan	29.32	744.7	30.04	763.0	48	8.9	71	n.	9	4.0		0	0			0	0	clear	J. Gilligan.
Memphis, Tennessee	29.53	750.0	29.86	758.4	75	23.9	76	s.	4	1.8		hz.	hz.			0	0	dense haze	D. T. Flannery.
Milwaukee, Wisconsin	29.11	739.4	29.85	758.2	50	10.0	72	n.	22	9.8		2 ck	7 s	nw.	nw.	0	0	cloudy	W. Line.

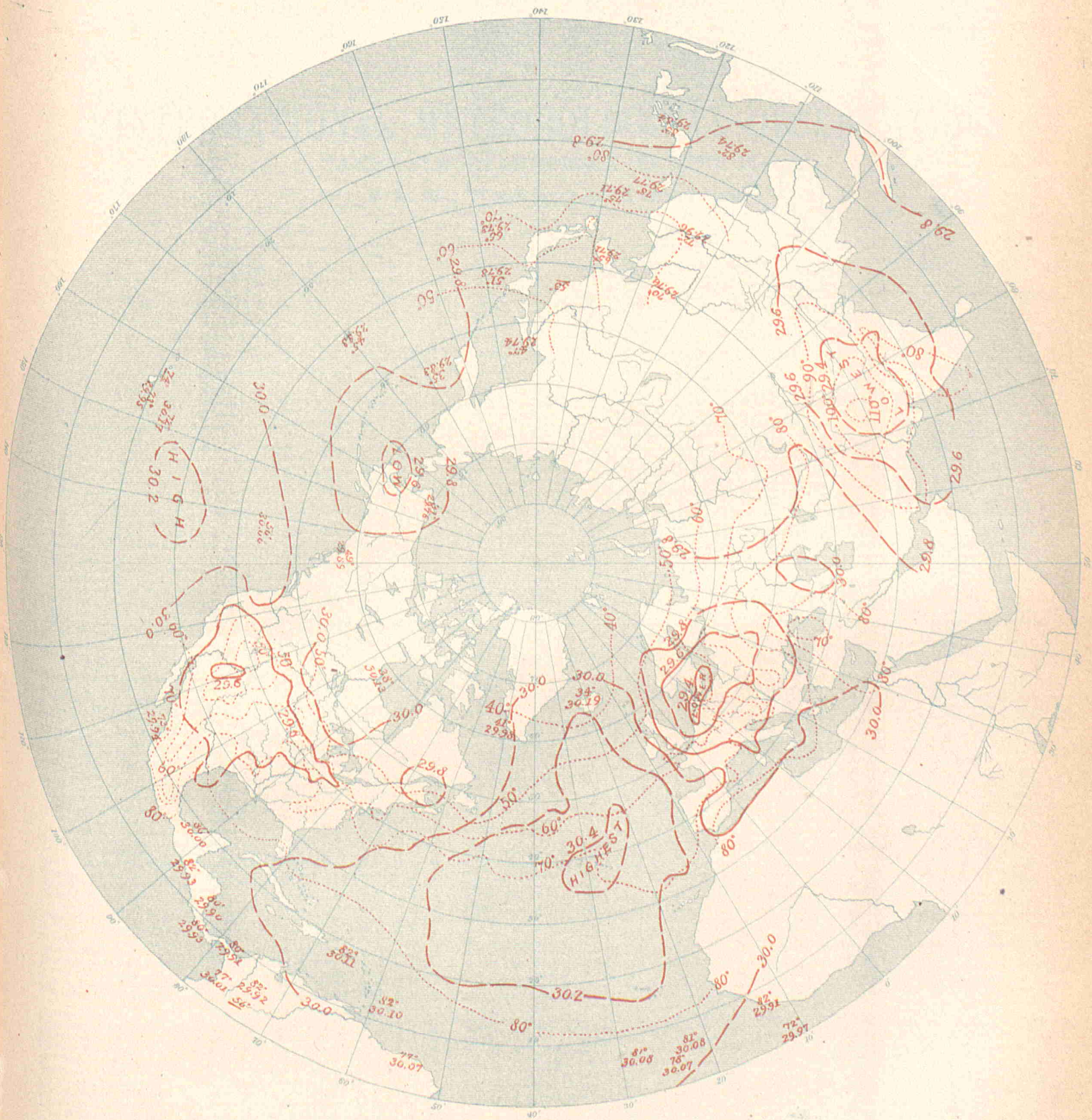
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Mobile, Alabama	29.81	757.2	29.85	758.2	74	23.3	90	n.	2	0.9		1 k	1 ks	n.		0.02	0.5	clear	J. D. Paxton.
Montgomery, Alabama	29.63	752.6	29.86	758.4	71.5	21.9	92	ne.	4	1.8			10 s		e.	inap.	inap.	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	29.00	736.6	29.97	761.2	47.1	8.4	77	ne.	3	1.3		0	0			0	0	clear	H. Bessant.
Morgantown, W. Virginia	28.85	732.8	29.85	758.2	69.0	20.6	89	calm	0	0		0	5 s			inap.	inap.	fair	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.67	601.2	29.79	756.7	33.5	0.8	78	w.	32	14.3		7 cs	sk.	w.	w.	0.62	15.7	fair	J. G. Linsley.
Nashville, Tennessee	29.33	745.0	29.85	758.2	71.0	21.7	82	se.	1	0.4		0	fg.			0	0	clear	L. A. Jesunofsky.
New Haven, Connecticut	29.78	756.4	29.89	759.2	58	14.4	69	ne.	8	3.6			10 s		sw.	inap.	inap.	cloudy	J. H. Sherman.
New London, Connecticut	29.85	758.2	29.90	759.4	64	17.8	58	e.	10	4.5		8 k	0	w.		0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.78	756.4	29.83	757.7	76.2	24.6	85	calm	0	0		4 c	sk.	w.		0.02	0.5	fair	L. Dunne.
Newport, Rhode Island	29.84	757.9	29.89	759.2	62.8	17.1	61	e.	8	3.6		6 k	3 s	nw.		0	0	cloudy	W. McGillivray.
New River, N. Carolina					70	21.1	90	ne.			1	4 ck	5 s	e.		0	0	cloudy	C. C. Corbin.
New Shoreham, Rhode I'd.	29.86	758.4	29.88	758.9	57.6	14.2	80	e	4	1.8		8 cs	0	w.		0.03	0.8	cloudy	W. Davis.
New York, New York	29.72	754.9	29.88	758.9	62	16.7	56	ne.	12	5.4		4 cs	5 s	sw.	sw.	0	0	cloudy	J. B. Merrill.
Norfolk, Virginia	29.87	758.7	29.90	759.4	75	23.9	71	sw.	8	3.6		7 cs	0			0	0	fair	J. T. Elker.
North Platte, Nebraska	26.90	683.2	29.70	754.4	61.6	16.4	88	e.	4	1.8		0	5 s			0.19	4.8	fair	E. F. Brady.
Olympia, Washington T'y	29.98	761.5	30.02	762.5	55.0	12.8	86	calm	0	0			10 s		calm	0	0	cloudy	J. Dascomb.
Omaha, Nebraska	28.55	725.2	29.69	754.1	66.2	19.0	93	e.	10	4.5			10 s		e.	2.27	57.7	cloudy	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	29.76	755.9	29.78	756.4	31.0	— 0.6	100	e.	20	8.9			10s; fg			0	0	cloudy	P. H. Ray.
Oswego, New York	29.51	749.5	29.83	757.7	56.5	13.6	69	n.	2	0.9		5 k	hz.	w.		0	0	fair	S. W. Beall.
Palestine, Texas	29.31	744.5	29.85	758.2	73.0	22.8	79	se.	3	1.3		0	0			0	0	clear	L. M. Pindell.
Pensacola, Florida	29.81	757.2	29.84	757.9	73.8	23.2	97	sw.	4	1.8		0	4 s		w.	0.25	6.3	fair	M. McGauran.
Philadelphia, Pa.	29.78	756.4	29.88	758.9	67	19.4	51	ne.	11	4.9		8 ck	2 ks	ne.	sw.	0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.76	451.1	29.58	751.3	23	— 5.0	80	n.	32	14.3		0	8 s		w.	0.03	0.8	cloudy	L. M. Dey.
Pioche, Nevada	23.84	605.5	29.64	752.8	47	8.3	54	s.	5	2.2		10 cs	0	s.		0	0	cloudy	C. N. Kitchel.
Pittsburg, Pennsylvania	29.01	736.8	29.80	756.9	67.1	19.5	84	calm	0	0		4 ks	5 s	nw.	w.	inap.	inap.	cloudy	J. H. Bryce.
Poplar River, Montana	27.89	708.4						se.			1		10 s		calm	0.02	0.5	cloudy	U. D. Maxwell.
Port Eads, Louisiana	29.86	758.4	29.87	758.7	75.6	24.2	90	sw.	6	2.7			10 s		sw.	0	0	cloudy	H. G. Christian.
Port Huron, Michigan	29.17	740.9	29.84	757.9	49.5	9.7	96	n.	12	5.4			10 s			0	0	cloudy	W. O. Bailey.
Portland, Maine	29.83	757.7	29.88	758.9	59.0	15.0	60	s.	2	0.9		9 c; k	0	w; sw		inap.	inap.	cloudy	W. W. Eichelberger.
Portland, Oregon	29.95	760.7	30.02	762.5	56.2	13.4	80	nw.	6	2.7			10 s		n.	0	0	cloudy	M. L. Hearne.
Portsmouth, N. Carolina					76	24.4	82	se.	1	0.4			10 s		calm	0	0	cloudy	F. P. Chaffee.
Prescott, Arizona	24.57	624.1	29.59	751.6	57	13.9	21	sw.	8	3.6		0	2 s			0	0	clear	J. McN. Wright.
Provincetown, Mass.	29.87	758.7	29.90	759.4	63	17.2	73	se.	12	5.4			10 s		se.	inap.	inap.	cloudy	P. T. Jenkins.
Punta Rassa, Florida	29.92	760.0	29.92	760.0	84.5	29.2	66	sw.	7	3.1		7 ck	0	sw.		0.07	1.8	fair	W. J. Evans.
Red Bluff, California	29.42	747.3	29.78	756.4	59.0	15.0	78	n.	9	4.0		2 cs	3 s	n.	n.	0	0	fair	J. M. Frantz.
Rio Grande City, Texas	29.54	750.3	29.77	756.1	81	27.2	79	se.	4	1.8			10 ks		se.	0	0	cloudy	P. M. Wilson.
Rochester, New York	29.15	740.4	29.80	756.9	55	12.8	69	sw.	9	4.0		roc; cs	hz.	w.		0	0	cloudy	E. W. McGann.
Roseburg, Oregon	29.47	748.5	30.02	762.5	56	13.3	74	nw.	2	0.9			10 s		n.	inap.	inap.	threatening.	J. J. Nanry.
Sacramento, California	29.72	754.9	29.79	756.7	55.5	13.1	86	se.	4	1.8		0	5 s		n.	0.10	2.5	fair	J. A. Barwick.
St. Louis, Missouri	29.22	742.2	29.80	756.9	73.0	22.8	84	s.	5	2.2		3 c; hz	0			0	0	clear	J. H. Webber.
St. Paul, Minnesota	29.04	737.6	29.89	759.2	54.0	12.2	55	ne.	13	5.8		8 cs	hz.	w.		0	0	cloudy	P. F. Lyons
St. Vincent, Minnesota	29.22	742.2	30.07	763.8	43	6.1	83	ne.	4	1.8		hz.	4 s	calm	calm	0	0	fair	G. Kingsbury.
Salt Lake City, Utah	25.40	645.1	29.62	752.3	59	15.0	46	calm	0	0		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.08	738.6	29.76	755.9	77	25.0	90	se.	2	0.9		0	5 ks		w.	0	0	fair	E. Lane.
San Diego, California	29.82	757.4	29.80	759.2	58.7	14.8	73	sw.	7	3.1			10 s		w.	0	0	cloudy	A. O. Dobbins.
Sandusky, Ohio	29.11	739.4	29.78	756.4	63.1	17.3	78	se.	2	0.9			10 s			0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.83	757.7	29.87	758.7	61.0	16.1	78	ne.	10	4.5		3 k	3 s	ne.	ne.	0	0	fair	B. A. Blundon.
San Francisco, California	29.75	755.6	29.82	757.4	54	12.2	86	sw.	2	0.9		3 k	2 s	n.	n.	inap.	inap.	fair	N. Gorom.
Santa Fé, New Mexico	23.14	587.7	29.64	752.8	48	8.9	42	ne.	5	2.2		0	0			0.03	0.8	clear	H. U. Jones.
Savannah, Georgia	29.79	756.7	29.88	758.9	72.5	22.5	90	n.	3	1.3			10 n		n.	0.37	9.4	light rain	H. W. Ford.
Shreveport, Louisiana	29.60	751.8	29.82	757.4	69	20.6	93	e.	1	0.4		2 c	0			0	0	clear	E. N. Meekins.
Silver City, New Mexico	24.20	614.7	29.70	754.4	44	6.7	71	sw.	3	1.3		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	29.83	757.7	29.89	759.2	49.1	9.5	77	nw.	2	0.9			10 n		nw.	inap.	inap.	light rain	J. J. McLean.
Smithville, North Carolina	29.83	757.7	29.87	758.7	73	22.8	90	s.	3	1.3			10 s		s.	inap.	inap.	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.90	708.6	29.04	760.5	58	14.4	86	calm	0	0		5 ck	0			0.03	0.8	fair	D. Moore.
Springfield, Illinois	29.12	739.6	29.78	756.4	72	22.2	82	ne.	1	0.4		5 c; cs	2 s	w.	w.	0	0	fair	T. B. Jennings.
Springfield, Massachusetts	29.79	756.7	29.92	760.0	55.0	12.8	80	e.	2	0.9			10 s		w.	0.01	0.3	cloudy	T. S. Outram.
Springfield, Mo.	28.38	720.8	29.84	757.9	70	21.1	87	s.	7	3.1		2 cs	0			0.24	6.1	clear	J. B. Marbury.
Starkville, Miss.	29.40	746.7	29.87	758.7	75	23.9	85	calm	0	0		0	1 k			0	0	clear	M. J. Wright.
Stockton, Texas	26.81	681.0	29.73	755.1	66.7	19.3	45	w.	12	5.4		0	0			0	0	clear	J. O'Dowd.
Thatcher's Island, Mass.	29.90	759.4	29.95	760.7	57.0	13.9	80	w.	3	1.3			10 s		w.	inap.	inap.	cloudy	G. Liebmann.
Toledo, Ohio	29.10	739.1	29.78	756.4	62	16.7	60	calm	0	0			10s; sk		w.	0	0	cloudy	A. Buell.
Tucson, Arizona	27.39	695.7	29.69	754.1	54	12.2	51	s.	3	1.3		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.55	750.6	29.91	759.7	61.5	16.4	68	calm	0	0		5 ck	2 s	ne.		0.08	2.0	fair	J. Daly.
Uvalde, Texas	28.80	731.5	29.74	755.4	75	23.9	90	se.	2	0.9			10 ks		se.	0.05	1.3	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.62	752.3	29.87	758.7	73	22.8	84	calm	0	0		1 cs	0			0	0	clear	H. P. Brisbane.
Visalia, California	29.46	748.3	29.83	757.7	59	15.0	72	calm	0	0			10 s		nw.	0	0	cloudy	W. L. Seward.
Washington, D. C.	29.74	755.4	29.86	758.4	72.4	22.4	84	calm	0	0			9 n; ks		w.	0.12	3.0	light rain	B. M. Purssell.
West Las Animas, Colorado	25.86	656.8	29.64	752.8	62.9	17.2	63	se.	13	5.8		0	6 s		w.	0	0	fair	F. W. Brandenburg.
Williamsport, Pa.	29.28	743.7	29.88	758.9	59	15.0	70	calm	0	0		3 cs	7ks; fg	w.	w.	0.01	0.3	cloudy	B. F. Hough.
Wilmington, N. Carolina	29.82	757.4	29.87	758.7	71	21.7	90	e.	3	1.3			10 s			0	0	cloudy	A. T. Sherwood.
Winnemucca, Nevada	25.42	645.7	29.68	753.9	45	7.2	86	ne.	8	3.6		0	0			0.27	6.9	clear	J. R. Williams.
Yankton, Dakota	28.49	723.6	29.77	756.1	63	17.2	90	ne.	5	2.2			10 s			0.26	6.6	cloudy	J. H. Attfield.
Yuma, Arizona	29.62	752.3	29.76	755.9	59.2	15.1	52	w.	7	3.1		0	2 s			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.06	560.3			56.0	13.3	67	sw.	4	1.8			9 n; s		w.	0.03	0.8	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.00	764.3	30.10	764.5	82	27.8	95	e.				5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.98	761.5	30.01	762.2	77	25.0	95	s.	4	1.8			10 n		s.	0.85	21.6	raining	J. I. Plume.
Havana, Cuba, W. I.	29.95	760.7	30.00	762.0	83	28.3	82	calm	0	0		3 cs	2 ks			0.25	6.3	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.01	762.2	30.02	762.5	82.0	27.8	82	e.	6	2.7		5 c	0			0	0	fine	Robert Johnston.
Magua, San Domingo, W. I.					76	24.4		e.			2	0	0			0	0		S. M. Pike.
Paramaribo, S. A.	30.07	763.8	30.07	763.8	77	25.0	86	e.			2	5 ck	3 s	e.		0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.46	748.3	29.92	760.0	82	27.8	72	s.			1	0	8 s		calm	0	0	foggy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							96	ne.			1					0	0	cloudy	Earl Flint.
Santiago de Cuba, W. I.	30.01	762.2	30.04	763.0	81	27.2	78	calm	0	0		8 cs	2 ks		se.	0	0	cloudy	Robert Mason.
York Factory, B. A.	30.07	763.8	30.13	765.3	38.0	3.3	100	n.	8	3.6			10 s		n.	inap.	inap.	raining	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	Upper. 0-10	Lower. 0-10	Upper. From.	Lower. From.	Inch.	Mill.			
British Naval.																		
H. M. S. Alert, Algoa Bay, Cape Colony, Africa	30.16	766.1	70	21.1	49	wsw.			1-2		2							misty.
H. M. S. Alexandra, N. 31° 31′ E. 29° 34′	30.01	762.2	76	24.4	81	nnw.			1		1							misty.
H. M. S. Amethyst, S. 25° 32′, W. 43° 59′	30.42	772.7	69	20.6	75	ese.			3		8	se.				3	sse.	d. clouds.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.83	757.7	81	27.2		var.			1-2		2	ssw.						d. clouds.
H. M. S. Bacchante, Corfu, Ionian Islands	30.00	762.0	75	23.9	76	var.			1		4	calm						d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.26	768.6	61	16.1		w.			2-3		0							blue sky.
H. M. S. Champion, Honolulu, Sandwich Islands			74	23.3		ne.			2		4							
H. M. S. Cleopatra, N. 26° 12′, E. 122° 26′	29.77	756.1	77.5	25.3	95	n.			3		8					3	con.	d. clouds.
H. M. S. Cockatrice, N. 42° 13′, E. 29° 02′	29.82	757.4	74	23.3		nnw.			1		1	nnw.				2	ene.	misty.
H. M. S. Coquette, Port Said, Egypt	30.04	763.0	75	23.9		n.			2		0							blue sky.
H. M. S. Cruiser, Corfu, Ionian Islands	29.98	761.5	74	23.3		ese.			2		1	ese.				1	ese.	blue sky.
H. M. S. Diamond, S. 21° 55′, E. 164° 28′	29.90	759.4	72	22.2	90	sse.			2-3		9					1	s.	d. clouds.
H. M. S. Dido, N. 10° 30′, W. 61° 30′						ene.			1							4	e.	d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	30.05	763.3	74	23.3	81	sse.			1-2		5	sse.						d. clouds.
H. M. S. Dwarf, S. 25° 16′, W. 57° 45′	29.96	761.0	57.5	14.2	93	calm			0		4							d. clouds.
H. M. S. Eclipse, S. 6° 25′, E. 50° 48′	30.00	762.0	79	26.1		se.			5		5					3	ese.	d. clouds.
H. M. S. Emerald, S. 56° 55′ W. 66° 40′	29.80	756.9	46	7.8	?	nnw.			5							3	wnw.	overcast.
H. M. S. Euryalus, N. 11° 24′, E. 74° 36′	29.78	756.4	81	27.2	87	sw.			5-6		10	sw.				7	sw.	raining.
H. M. S. Fantome, N. 10° 55′, W. 83° 43′	29.90	759.4	80	26.7		nw.			1		9	nw.				3	nw.	raining.
H. M. S. Flying Fish, N. 37° 27′, E. 126° 33′	29.71	754.6	64.5	18.1	86	sw.			1		4					1	sw.	misty.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.03	762.7	52	11.1	86	se.			0-1		8	nw.						misty.
H. M. S. Garnet, Montevideo, Uruguay.	30.49	774.4	48	8.9	85	s.			1		3							blue sky.
H. M. S. Griffon, N. 48° 10′, W. 52° 55′	29.97	761.2	46	7.8	92	ese.			2		10							misty.
H. M. S. Inconstant, N. 1° 00′ W. 11° 20′	30.07	763.8	72	22.2	95	sse.			2		6	se.				2	sse.	misty.
H. M. S. Iron Duke, N. 33° 32′, E. 135° 14′	29.98	761.5	72	22.2	85	sw.			1-2		3	sw.						d. clouds.
H. M. S. Kingfisher, N. 7° 50′, W. 83° 20′	29.93	760.2	80	26.7		wnw.			3		1					3	w.	blue sky.
H. M. S. Lark, S. 10° 37′, E. 162° 30′	29.84	757.9	82.3	27.9		e.			2		10					3	e.	showery.
H. M. S. Magpie, N. 34° 56′, E. 139° 52′	29.73	755.1	69.5	20.8	82	e.			1		10							d. clouds.
H. M. S. Minotaur, Gibraltar, Mediterranean	29.94	760.5	70	21.1	56	wsw.			1		0							blue sky.
H. M. S. Nelson, S. 41° 17′, E. 174° 48	30.13	765.3	57	13.9	87	calm			0		5							d. clouds.
H. M. S. Northampton, Halifax, Nova Scotia	29.84	757.9	57	13.9	78	wnw.			2		2	wnw.						d. clouds.
H. M. S. Phœnix, N. 18° 25′, W. 77° 08′	30.01	762.2	81	27.2	95	calm			0		5							d. clouds.
H. M. S. Rambler, Ambriz, Lower Guinea	30.02	762.5	71	21.7	100	s.			2		0					2	ssw.	blue sky.
H. M. S. Rocket, Esquimalt, Vancouver Island	29.94	760.5	53	11.7	93	wsw.			2		2							d. clouds.
H. M. S. Sappho, S. 25° 53′, W. 98° 15′	30.26	768.6	68.5	20.3		e.			3		3	e.				3	e.	d. clouds.
H. M. S. Swiftsure, N. 18° 45′, W. 24° 20′	30.24	768.1	71.5	21.9	75	ene.			2-3		6	ene.				2	nne.	d. clouds.
H. M. S. Sylvia, S. 20° 01′, W. 37° 32′	30.26	768.6	73.5	23.1	90	se.			3-4		8					3	sse.	showery.
H. M. S. Tenedos, N. 46° 47′ W. 52° 50′	30.06	763.5	43.5	6.4	96	sse.			3		10					3	n.	foggy.
H. M. S. Thetis, S. 13° 39′ W. 77° 19	30.00	762.0	65	18.3	89	se.			3-4		3					2	sse.	d. clouds.
H. M. S. Triumph, Coquimbo, Chili	29.98	761.5	51	10.6	93	calm			0		3	nnw.						d. clouds.
H. M. S. Woodlark, N. 24° 30′ E. 58° 30′	29.50	749.3	90.5	32.5	80	wnw.			2		0							blue sky.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verde Islands	30.16	766.0	78.8	26.0	84	ne.			2		1					2		blue sky.
Tamega, Macao, China	29.74	755.4	86.0	30.0	80	sw.			4		2		sw.	1 h'r	1 h'r			d. clouds.
Swedish Naval.																		
Saga, N. 49° 44′, W. 4° 16′	29.83	757.6	58.1	14.5	86	nw.			4		9							overcast.
United States Naval.																		
Navy Yard, Pensacola, Fla	29.78	756.4	73	22.8	95	w.	4	1.8			10		w.	0.04	1.0			cloudy.
Navy Yard, Portsmouth, N. H.	29.90	759.4	59	15.0	70	calm	0	0			10		w.	0	0			cloudy.
Naval Hospital, Yokohama, Japan*	29.58	751.3	67	19.4	89	calm			0		10		e.	0.01	0.3			cloudy.
Adams, Mare Island, Cal	29.88	758.9	58	14.4	94	sw.			2		5		ne.					fair.
Alaska, Callao, Peru	29.97	761.2	58	14.4	100	calm			0		10			0	0	sm'h		cloudy.
Alert, Yokosuka, Japan*	29.63	752.6	70	21.1	85	calm			0		10		calm			sm'h		raining.
Alliance, Hampton Roads, Va	29.90	759.4	72	22.2	90	ssw.			2		5			0	0	sm'h		fair.
Ashuelot, Yokohama, Japan	29.64	752.8	71	21.7	80	calm			0		10		calm					cloudy.
Brooklyn, Rio de Janeiro, Brazil	30.41	772.4	67	19.4	95	ne.	3	1.3			10		calm	0.65	16.5	sm'h		cloudy.
Colorado, New York, N. Y	29.89	759.2	61	16.1	66	nne.	7	3.1			10		w.	0	0			overcast.
Enterprise, Norfolk, Va*	29.88	758.9	74	23.3	81	sw.			1		2							clear.
Essex, Montevideo, Uruguay	30.51	774.9	53	11.7	80	ese.			3		2					sm'h		clear.
Franklin, Norfolk, Va	29.92	760.0	72	22.2	85	ssw.	10	4.5			5		sw.	0	0			fair.
Galena, Alexandria, Egypt	30.01	762.2	79	26.1	82	n.			2		0					sm'h		clear.
Independence, Navy Yard, Mare Island, Cal	29.89	759.2	56	13.3	100	sw.			2		5		sw.	0	0			hazy.
Iroquois, San Francisco, Cal*†	29.80	756.9	57	13.9	87	calm			0		5							fair.
Kearsarge, Hampton Roads, Va	29.88	758.9	71	21.7	95	sw.			2		5		sw.			sm'h		fair.
Lackawanna, Paita, Peru*	29.97	761.2	64	17.8	78	sse			2		5?		se.					cloudy?
Lancaster, Cadiz, Spain*	29.90	759.4	76	24.4	82	nw.			3		0			0	0	sm'h		clear.
Marion, S. 34° 54′, W. 56° 13′	30.44	773.2	48	8.9	100	e.			1		0			0	0	sm'h		hazy.
Michigan, Erie, Pa	29.76	755.9	60	15.6	100	ssw.			1		8		sw.					fair.
Minnesota, Newport, R. I.	29.91	759.7	60	15.6	82	e.	1	0.4			2							fair.
Monocacy, Nagasaki, Japan	29.74	755.4	61	16.1	100	ne.			1		10		n.					rainy.
New Hampshire, Newport, R. I.	29.90	759.4	60	15.6	82	se.			2		10					sm'h		cloudy.
Nipsic, Messina, Sicily	30.02	762.5	75	23.9	60	ne.			3		2					sm'h		clear.
Onward, Callao, Peru†	30.13	765.3	59	15.0	94						10					long	w.	cloudy.
Palos, Kobe, Japan	29.77	756.1	67	19.4	95	nne.			1		10		calm					rainy.
Passaic, Washington, D. C.	29.86	758.4	72	22.2	?	calm			0		10		w.					cloudy.
Pensacola, Callao, Peru	30.02	762.5	59	15.0	94	calm	0	0			10			0	0	sm'h		foggy.
Powhatan, Norfolk, Va	29.90	759.4	74	23.3	86	ssw.			1		5		sw.					fair.
Portsmouth, Portsmouth, Eng*†	29.91	759.7	64	17.8	83	nnw.			5		8		nw.			sm'h		cloudy.
Quinnebaug, N. 32° 51′, W. 18° 06′	30.22	767.6	66	18.9	89	nne.			6		8		ne.			mod.	ne	cloudy.
Ranger, San Francisco, Cal.*	29.78	756.4	62	16.7	72	calm			0		8		calm	0	0	sm'h		cloudy.
Richmond, N. 34° 27′, W. 134° 05′*	29.72	754.9	66	18.9	89	wsw.			2		10?			0.01	0.3			clear.?
Saratoga, Cowes, Eng	29.68	753.9	60	15.6	76	nw.			3-5		8		nw.	light	light	sm'h		cloudy.
St. Louis, League Island, Pa	30.12	765.0	65	18.3	58	ne.	10	4.5			8		w.	0	0			cloudy.
Swatara, Nagasaki, Japan*	29.62	752.3	62	16.7	88	ne.			2		10		e.			sm'h		light rain.
Tennessee, Fort Monroe, Va	29.91	759.7	73	22.8	85	wsw.	7	3.1			8		wsw.	0	0			cloudy.
Vandalia, Hampton Roads, Va*	29.87	758.7	71	21.7	95	sw.			2		5		calm					fair.
Wabash, Boston, Mass	29.91	759.7	60	15.6	83	wnw.	1	0.4			10		nw.	0	0			cloudy.
Wachusetts, Fort Wrangle, Alaska	29.86	758.4	51	10.6	79	e.			1		10			0	0	sm'h		cloudy.
Wyoming, Port Royal, S. C.	29.87	758.7	70	21.1	100	n.	10	4.5			10		ne.	0.33	8.4			raining.
Yantic, Hampton Roads, Va*	29.87	758.7	71	21.7	95	sw.			2		2							clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Nova Scotian, N. 54° 22′ W. 27° 55′	30.29	769.4	55	12.8	.....	ese.	.....	.....	3	.....	5	.....	e.	.....	.....	mod.	e.	fair.
S. S. Prussian, N. 50° 24′ W. 38° 46′*	29.91	759.7	53	11.7	.....	ne.	.....	.....	5	.....	6	.....	ne.	8 h'r	8 h'r	mod.	ene.	cloudy.
S. S. Scandinavian, East Boston, Mass.*	29.83	757.7	58	14.4	.....	ssw.	.....	.....	1	.....	9	.....	ssw.	o	o	.....	.....	misty.
S. S. Waldensian, N. 53° 12′, W. 13° 44′*	30.28	769.1	54	12.2	.....	wsw.	.....	.....	5	.....	5?	.....	wsw.	o	o	short	cross	cloudy.?
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, Liverpool, Eng	29.74	755.4	60	15.6	94	nw.	.....	.....	7	.....	10	.....	nnw.	.....	.....	.....	.....	overcast.
S. S. Indiana, N. 46° 02′, W. 35° 58′†	30.38	771.6	68	20.0	95	w.	.....	.....	4	.....	5	.....	w.	.....	.....	mod.	w.	fair.
S. S. Lord Clive, N. 50° 47′, W. 18° 50′ *†	30.00?	762.0?	.....	.....	.....	nw.	.....	.....	2	.....	1	.....	nw.	1 h'r	1 h'r	st'g	nw.	fine.
ANCHOR LINE.																		
S. S. Boliva, N. 47° 16′, W. 33° 44′†	30.17	766.3	54	12.2	.....	sw.	.....	.....	4	.....	10	.....	sw.	sh's	sh's	mod.	sw.	overcast.
S. S. Ethiopa, N. 41° 54′, W. 46° 50′	30.35	770.9	66	18.9	79	calm	.....	.....	0	.....	1	.....	se.	1 h'r	1 h'r	.....	.....	clear.
S. S. Utopia, Palermo, Sicily†	30.21	767.3	70	21.1	61	ene.	.....	.....	2	.....	1	.....	ene.	o	o	.....	.....	clear.
ATLAS LINE.																		
S. S. Ailsa, Savanilla, U. S. C. †	29.92	760.0	81	27.2	91	calm	.....	.....	0	.....	0	.....	.....	o	o	.....	.....	fair.
S. S. Alvena, Miragoane, Hayti, W. I.†	29.92	760.0	82	27.8	75	ssw.	.....	.....	1	.....	0	.....	.....	o	o	.....	.....	fine.
S. S. Alvo, Cartagena, U. S. C.	29.90	759.4	.....	.....	.....	calm	.....	.....	0	.....	4	.....	.....	o	o	.....	.....	hazy.
S. S. Antillas, N. 32° 00′ W. 74° 05′*†	30.00	762.0	78	25.6	.....	s.	.....	.....	3	.....	5	.....	s.	rain	rain	sm'h	s.	squally.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 38° 05′ E. 54° 30′	30.25	768.3	59.5	15.3	88	n.	.....	.....	5	.....	8	.....	.....	.....	.....	.....	.....	d. clouds.
S. Baroda, N. 5° 36′. E. 94° 10′	29.81	757.2	82.5	28.1	87	ssw.	.....	.....	3	.....	8	.....	.....	.....	.....	.....	.....	d. clouds.
British Merchant, N. 7° 30′, W. 25° 57′	30.08	764.0	80.5	26.9	76	s.	.....	.....	2	.....	7	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Cipero, N. 24° 58′, W. 48° 01′	30.29	769.4	73	22.8	90	var.	.....	.....	1	.....	9	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Glencairn, S. 21° 06′, W. 0° 42′	30.30	769.6	70	21 1	78	s.	.....	.....	5	.....	9	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Gordon Castle, N. 2° 00′, E. 102° 23′	29.79	756.7	86	30.0	72	w.	.....	.....	2	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
Bkt. May Hulse, S. 56° 55′, W. 76° 14′	29.61	752.1	43	6.1	96	nnw.	.....	.....	7	.....	10	.....	.....	.....	.....	.....	.....	raining.
S. S. Minho, S. 21° 41′, W. 39° 46′	30.36	771.1	72.5	22.5	83	se.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	.....	misty.
S. S. Pole Star, S. 36° 23′, W. 34° 27′	30.38	771.6	57.1	13.9	93	sw.	.....	.....	6	.....	5	.....	.....	.....	.....	.....	.....	squally
CROMWELL LINE.																		
S. S. Hudson, N. 27° 50′, W. 79° 37′†	29.98	761.5	76	24.4	.....	waw.	.....	.....	3	.....	4	.....	sw.	o	o	mod.	sw.	fair.
CUNARD LINE.																		
S. S. Marathon, N. 48° 18′, W. 32° 32′	30.17	766.3	59	15.0	.....	sw.	.....	.....	3	.....	10	.....	sw.	o	o	mod.	.....	hazy.
GENERAL TRANS-ATLANTIC COMPANY																		
S. S. St. Laurent, N. 41° —′, W. 53° 40′†	30.37	771.5	68.0	20.0	91	sw.	.....	.....	3	.....	.....	.....	.....	hail	hail	sm'h	sw.	clear.
S. S. Ville de Marseilles, N. 40° 45′, W. 26° 00′ *†	30.45	773.4	72	22.2	.....	ene.	.....	.....	2	.....	10	.....	e.	o	o	sm'h	.....	cloudy.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S Bohemia, N. 48° 14′, W. 26° 05′*†	30.25	768.3	.....	.....	.....	ssw.	.....	.....	5	.....	3	.....	s.	sq 'lls	sq 'lls	mod.	sw.	foggy.
S. S. Cimbria, N. 48° 15′, W. 31° 25′	30.21	767.3	58	14.4	.....	s.	.....	.....	3	.....	10	.....	s.	12 h'r	12 h'r	sm'h	s.	foggy.
S. S. Gellert, N. 40° 20′, W. 63° 00′	30.07	763.8	75	23.9	.....	sw.	.....	.....	4	.....	5	.....	s.	o	o	mod.	sw.	fair.
S. S. Herder, N. 48° 15′, W. 15° 49′*†	30.19	766.8	67	19.4	.....	nne.	.....	.....	4	.....	3?	.....	nne.	o	o	mod.	nnw.	cloudy.?
S. S. Lessing, Hamburg, Germany	29.44	747.7	68	20.0	.....	nw.	.....	.....	2	.....	8	.....	nw.	o	o	.....	.....	cloudy.
S. S. Wieland, N. 43° 19′, W. 44° 03′	30.40	772.1	65	18.3	.....	calm	.....	.....	0	.....	2	.....	e.	o	o	.....	.....	fair.
INMAN LINE.																		
S. S. City of Berlin, N. 41° —′, W. 66° —′	29.99	761.7	.....	.....	.....	calm	.....	.....	0	.....	10	.....	.....	sh'rs	sh'rs	sm'h	.....	hazy.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, Antwerp, Belgium*†	29.64	752.8	60	15.6	.....	s.	.....	.....	4	.....	10	.....	sw.	9 h'r	9 h'r	.....	.....	light rain.
S. S. Humboldt, N. 40° 15′, W. 65° 19′*	29.98	761.5	72.5	22.5	80	s.	.....	.....	3	.....	4 k	.....	s.	o	o	3	.....	misty.
LEYLAND LINE.																		
S. S. Iberian, N. 41° 57′. W. 53° 18′	30.03	762.7	.....	.....	.....	s.	.....	.....	1	.....	fg	.....	.....	o	o	.....	.....	foggy.
MALLORY LINE.																		
S. S. Colorado, New York, N. Y†	29.88	758.9	63	17.2	.....	ne.	.....	.....	3	.....	10	.....	ne.	o	o	.....	.....	cloudy.
MERCHANTS EXPRESS LINE.																		
S. S. Hermod, N. 34° 31′ W. 68° 45′*†	29.79	756.7	82.4	28.0	.....	nw.	.....	.....	1	.....	3	.....	nw.	o	o	sm'h	w.	fair.
MERCHANT STEAMSHIP COMPANY.																		
S. S. Glenfyne, Para, Brazil	29.55	750.6	.....	.....	.....	e.	.....	.....	2	.....	.....	.....	e.	4 h'r	4 h'	.....	e.	clear.
S. S. Glenapp, Rio de Janeiro, Brazil *†	30.00	762.0	.....	.....	.....	se.	.....	.....	1	.....	9	.....	calm	4 h'r	4 h'	.....	.....	light rain.
NATIONAL LINE.																		
S. S. Denmark, New York, N. Y	29.93	760.2	64	17.8	.....	nnw.	.....	.....	3	.....	10	.....	w.	o	o	.....	.....	cloudy.
S. S. England, New York, N. Y.	29.88	758.9	.....	.....	.....	se.	.....	.....	3	.....	8	.....	se.	o	o	.....	.....	cloudy.
S. S. Greece, N. 49° 45′, W. 8° 16′	30.03	762.7	.....	.....	.....	nnw.	.....	.....	5	.....	2	.....	nnw.	o	o	r'gh	nnw.	
S. S. Holland, N. 47° 31′, W. 24° 00′	30.39	771.9	56	13.3	.....	se.	.....	.....	3	.....	10	.....	.....	o	o	sm'h	nw.	hazy.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, N 29° 26′, W. 73° 57′†	30.02	762.5	75	23.9	.....	sse.	.....	.....	2	.....	10	.....	w.	2 h'r	2 h'r	sm'h	.....	cloudy.
S. S. Saratoga, N. 36° 30′, W. 74° 30′†	30.11	764.8	76	24.4	81	w.	.....	.....	3	.....	5?	.....	wnw.	o	o	sm'h	.....	cloudy.?
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, Havana, Cuba, W.I*†	30.08	764.0	85	29.4	95	s.	.....	.....	1	.....	2	.....	ssw.	3 h'r	3 h'r	.....	.....	clearing.
S. S. City of Washington, N. 18° 38′, W. 92° 47′*†.	30.10	764.5	86	30.0	.....	e.	.....	.....	4	.....	1	.....	e.	o	o	.....	e.	clear.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Maas, N. 47° 54′, W. 21° 50′*†	30.40	772.1	56	13.3	.....	se.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	nw.	
NORTH GERMAN LLOYD.																		
S. S. Elbe, N. 49° 20′, W. 13° 40′	30.30	769.7	58.1	14.5	84	wnw.	.....	.....	5–6	.....	8	.....	w.	o	o	high	wnw.	cloudy.
S. S. Gen. Werder, N. 48° 00′, W. 24° 25′	30.37	771.4	.....	.....	.....	s.	.....	.....	3	.....	10	.....	.....	o	o	long	nw.	misty.
S. S. Graf Bismark, N. 33° 30′, W. 14° 27′	30.24	768.1	68.9	20.5	.....	nne.	.....	.....	6	.....	6	.....	nne.	.....	.....	high	nne.	fair.
S. S. Habsburg, N. 41° 18′, W. 49° 37′	30.31	769.9	69.8	21.0	.....	sse	.....	.....	4	.....	2	.....	sse.	o	o	mod.	sse.	fair.
S. S. Hermann, N. 38° 46′, W. 69° 30′†	29.84	757.9	66.2	19.0	.....	wsw.	.....	.....	3	.....	2	.....	sw.	o	o	mod.	sw.	fair.
S. S. Oder, N. 50° 33′. W. 1° 58′	29.73	755.1	59.0	15.0	.....	n.	.....	.....	5	.....	7	.....	n.	3 h'r	3 h'r	sm'h	nnw.	cloudy.
S. S. Ohio, N. 48° 32′ W. 26° 31′	30.42	772.7	.....	.....	.....	s	.....	.....	2	.....	10	.....	.....	o	o	sm'h	sw.	cloudy.
S. S. Salier, Bremerhaven, Germany.	29.48	748.8	58.1	14.5	.....	ssw.	.....	.....	4	.....	8	.....	sw.	2 h'r	2 h'r	.....	.....	cloudy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 34° 47′, E. 145° 04′*†	29.63	752.6	65	18.3	100	nw.	.....	.....	1	.....	8	.....	ssw.	sh'rs	sh'rs	sm'h	.....	d. clouds.
S. S. Belgic, Yokahama, Japan†	29.76	755.9	71	21.7	76	w.	.....	.....	1	.....	2	.....	nw.	o	o	.....	.....	clear.
S. S. Gaelic, Hong Kong, China†	29.70	754.4	84	28.9	75	w.	.....	.....	4	.....	3	.....	sw.	.....	.....	.....	.....	clear.
S. S. Oceanic, N. 45° 00′, W. 139° 40′*	30.06	763.5	56	13.3	87	wsw.	.....	.....	3	.....	8	.....	w.	.....	.....	4	wsw.	misty.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga†	29.91	759.7	.....	.....	.....	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	raining.
S. S. City of Columbus, New York, N. Y.†	29.87	758.7	.....	.....	.....	nne.	.....	.....	4	.....	10	.....	w.	.....	.....	.....	.....	cloudy.
S. S. Seminole, N. 39° 00′, W 73° 30′†	29.87	758.7	65	18.3	68	sw.	.....	.....	1	.....	8	.....	nw.	o	o	mod.	ssw.	cloudy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, N. 44° 12′, W. 124° 22′†	30.13	765.3	56	13.3	81	nw.	.....	.....	2	.....	8	.....	nw.	.....	.....	.....	.....	cloudy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 34° 23′ W. 120° 06′†	29.81	757.2	55	12.8	80	nw.	.....	.....	4	.....	5	.....	nw.	.....	.....	mod.	w.	fair.
S. S. Dakota, Esquimalt, Vancouver Id., B. C.*†	29.98	761.5	56	13.3	81	nw.	.....	.....	2	.....	8	.....	nw.	.....	.....	sm'h	.....	cloudy.
S. S. Idaho, Victoria, B. C.†	30.30	769.6	50	10.0	93	calm	.....	.....	0	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
S. S. State of California, Portland, Oregon. †	30.01	762.2	57	13.9	75	nw.	.....	.....	1	.....	4	.....	nw.	.....	.....	.....	.....	fair.
S. S. Victoria, San Francisco, Cal. †	29.69	754.2	55	12.8	93	calm	.....	.....	0	.....	2	.....	.....	.....	.....	sm'h	.....	fair.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, N. 24° 49′, W. 151° 42′	30.17	766.3	72	22.2	85	se.	.....	.....	5	.....	1	.....	se.	o	o	sm'h	.....	clear.
S. S. City of New York, N. 31° 58′, W. 137° —′†	30.42	772.7	69	20.6	95	n.	.....	.....	4	.....	1	.....	e.	o	o	mod.	e.	clear.
S. S. City of Pekin, N. 28° 16′, E. 125° 16′†	29.71	754.6	75	23.9	90	w.	.....	.....	3	.....	10	.....	w.	o	o	light	e.	cloudy.
S. S. City of Rio de Janeiro, Panama, Panama*†	30.08	764.0	79	26.1	86	nw.	.....	.....	3	.....	10	.....	nw.	o.1	3.	.....	.....	cloudy.
S. S. City of Sydney, Sydney, N. S. W.†	30.29	769.4	58	14.4	76	se.	.....	.....	4	.....	10	.....	se.	o	o	sm'h	.....	cloudy.
S. S. City of Tokio, N. 42° 48′, E. 176° 48′†	29.88	758.9	45	7.2	92	ssw.	.....	.....	4	.....	10	.....	ne.	o	o	light	se.	fine.
S. S. Clyde, N. 13° 30′, W. 89° 16′†	29.93	760.2	82	27.8	83	ne.	.....	.....	1	.....	2	.....	ne.	3 h'r	3 h'r	long	sse.	clear.
S. S. Colima, Mazatlan, Mexico †	29.93	760.2	75	23.9	90	ene.	.....	.....	3	.....	1	.....	.....	o	o	mod.	sw.	clear.
S. S. Colon, Aspinwall, Panama†	29.91	759.7	80	26.7	.....	w.	.....	.....	2	.....	6	.....	ne.	2 h'r	2 h'r	mod.	nne.	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
PACIFIC MAIL STEAMSHIP COMPANY.—CONTINUED.																		
S. S. Grenada, N. 23° 02′ W. 107° 44′.†...	29.89	759.2	76	24.4	91	se.			2		0			0	0	light	wsw.	clear.
S. S. South Carolina, Off Cape Malapalo, Costa Rica†	30.01	762.2	82	27.8	83	sse.			2		10		se.	½ h'r	½ h'r	light	sw.	cloudy.
S. S. Zealandia, Sydney, N. S. W.	30.21	767.3	53	11.7	80	nw.			2		0					sm'h		fine
QUEBEC STEAMSHIP CO.																		
S. S. Muriel, N. 25° 30′, W. 65° 28′	29.96	761.0	81	27.2		ese.			1		0			0	0	sm'h		clear.
S. S. Bermuda, Bridgetown, Barbadoes, W. I†	30.11	764.8	81	27.2		e.			3		7		e.	0	0	g'tl	se.	fine.
RED STAR LINE.																		
S. S. Rhynland, Jersey City, N. J.	29.88	758.9	64	17.8	83	wnw.			2		10		wnw.	0	0			cloudy.
S. S. Switzerland, N. 49° 27′, W. 11° 00′†	30.23	767.8				nnw.			6		5		nnw.	0	0	h'vy	nw.	fair.
S. S. Vaderland, N. 46° 15′, W. 33° 00′	30.03	762.7	62	16.7	77	w.			4		8		w.	0	0	mod.	wsw.	cloudy.
ROTTERDAM LINE.																		
S. S. W. A. Scholten, N. 41° 09′ W. 57° 43′	30.06	763.5	68.0	20.0	91	sw.			3		3		sw.	0	0	sm'h	sw.	
STATE LINE.																		
S. S. State of Florida, Larne, Ireland	29.73	755.1	65	18.3		nnw.			7		4		nnw.	4 h'r	4 h'r			fair.
S. S. State of Georgia, N. 52° 38′ W. 21° 28′†	30.53	775.4	54	12.2		ne.			2		2		e.			sli't	wnw.	fair.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 47° 33′, W. 41° 30′†	30.44	773.2	56 5	13.6	60	wnw.			4		6		wnw.	6 h'r	6 h'r	r'gh	wnw.	covered.
WHITE STAR LINE.																		
S. S. Baltic, N. 50° 14′ W. 20° 30′†	30.48	774.2	56	13.3	87	calm			0		10		se.	2 h'r	2 h'r	con.	sw.	d. clouds.
S. S. Celtic, N. 48° 56′, W 28° 04′†	30.30	769.6	57	13.9	100	ssw.			4		10			8 h'r	8 h'r	mod.	ne.	foggy.
S. S. Germanic, N. 50° 52′, W. 14° 52′†	29.95?	760.7?	54	12.2		nnw.			5		2		nnw.			short	wnw.	d. clouds.
WILSON LINE.																		
S. S. Romano, N. 45° 06′, W. 35° 31′	30.16	766.1	59	15.0		wsw.					8			0	0		w.	cloudy.
MISCELLANEOUS.																		
Bg. Abbe Clifford, N. 16° 34′ W. 71° 25′.*†	30.08	764.0	84	28.9		ese.			5		3		ese.	0	0	mod.	e.	fair.
Schr. Addie Fuller, Newport News, Va†	29.98	761.5	70	21.1	90	sw.			3	6 ck	0	sw.		0	0			fair.
Bk. Adelaide, N. 35° 12′, W. 74° 24′*†	30.07	763 8	80	26.7		s.			4		3		ssw.	0	0	sm'h	w.	fair.
Schr. Ajax, Pensacola, Fla.†	29.94	760.5				calm			0		5		nw.	0	0			clearing.
Bk. Alpha, N. 21° 20′, W. 74° 00′†	29.98	761.5	84	28.9		se.			2		4		se.	0	0	sm'h		fair.
Schr Annie Lewis, Mobile, Ala†	29.89	759.2	74	23.3		ne.			1		2		ne.	0	0			clearing.
Bk. Annie Thormann, S. 7° 58′ W. 33° 12′	30.15	765.7	81.9	27.7	79	e.			5		3 k		ese.	1 h'r	1 h'r	mod	ese.	fair.
S. S. Antonio Lopez, N. 39° 34′, W. 9° 22′	30.15	765.8	64	17.8	62	n.			6		2 s			0	0	mod.	n.	clear.
Schr. Asa Eldridge, Punta Rassa, Fla†	30.01	762.2				sw.			3		5		ssw.	1½ hr	1½ hr			fair.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.55	776.0	74	23.3		e.			2		10		ne.	15 h'r	15 h'r			hazy.
Schr. Annie M. Smull, N. 19° 42′. E. 117° 18′*†	29.85	758.2												0	0			
Bk. Bergenseren. N. 40° 30′, W. 45° 20′†	30.34	770.6	66	18.9		ssw.			2				w.	0	0	4	nw.	fair.
Bk. Bremen, N. 50° 33′, W. 0° 48′						nnw.			3		8		nnw.	0	0	sm'h		hazy.
Schr. C. R. Flint, Off Tampico Bar, Mexico†	30.00	762.0	81	27.2		calm			0		1		se.	0	0	long	ese.	clear.
Schr. Edith R. Seward, N. 36° 15′ W. 75° 45′*†	29.92	760.0	70	21.1		ssw.			1		4		sw.	0	0	sm'h	s.	fair.
S. E. J. Spicer, N. 47° 38′, W. 26° 28′†	30.37	771 4				w.			3		8		w.	4 h'r	4 h'r	mod.	wnw.	
Bk. Essex, N. 7° 52′ W. 29° 04′*†	30.08	764.0	81	27.2		sw.			1		5?		sw.	1 h'r	1 h'r	cross		cloudy?
S. Exporter, S. 39° 42′, E. 57° 00′*†	30.38	771.6				w.			6		1		w.	0	0		w.	fine.
Bk. Freya, N. 46° 30′ W. 26° 30′			61	16.1		ssw.			3		2		sw.	0	0	sm'h		fair.
S. Grecian, N. 14° 06′ E. 112° 44′*†	29.74	755.4	82	27.8		se.			6		5?		se.	2 h'r	2 h'r	sm'h		clear.?
Bk. Hattie G. McFarland, Sydney, Cape Breton*†	29.82	757.4	52	11.1		w.			3		3		nw.	4 h'r	4 h'r			fair.
S. Hedwig, N. 38° 38′, W. 53° 32′	30.30	769.6	71.2	21.8	86	s.			4		4		ssw.	0	0	long	nw.	fine.
Bk. Horace Scudder, N. 33° 25′, W. 75° 35′†	29.89	759.2	74	23.3		s.			1		10			light	light	light	sw.	raining.
S. Ismir, S. 21° 10′, W. 37° 00′†	30.32	770.1				sse.			2		8		sse.			r'gh		squally.
Schr. James Slater, N. 14° 42′ W. 46° 04′*†	30.40	772.1	80	26.7		e.			4		2		se.	0	0	short	ese.	
Schr. Jennie N. Huddle, Off New Haven, Conn†	29.95	760.7	64	17.8	83	nne.			1		5		n.	h'vy	h'vy			heavy rain.
Schr. John L. Thomas, Albuquerque Id's, C. A*†	30.00	762.0				ne.			3		2		e.	0	0			clear.
Bkt. Josephine, N. 29° 35′ W. 74° 05′†	30.12	765.0	79	26.1	90	sse.			5		10		sse.	8 h'r	8 h'r	mod	sse.	cloudy.
Bk. Julia H., Havana, Cuba, W. I.	30.00	762.0	78.8	26.0	88	se.			1		3							d. clouds.
Light House Tender, Laurel, Key West, Fla†	30.00	762.0	84	28.9		se.			2		1		se.	1 h'r	1 h'r			clear.
S. Minnie N. Gerow, N. 41° 32′, W. 49° 47′*†	30.29	769.4				ssw.			3		4		sw.			sm'h	sw.	fine.
S. M. P. Grace, N. 29° 54′, W. 41° 20′*	30.15	765.8	72	22.2		ese.			3				ese.	shr's	shr's	sm'h	e.	squally.
S. S. Nebo, St. John's, N. B*†	30.13	765.3				nnw.			3		8		s.	8 h'r	8 h'r			misty.
S. Paramita, S. 48° 01′ W. 58° 40′†	30.48	774.2	40	4.4		sw.			3		5		sw.	0	0	long	ene.	
Bk. Peppina, N. 45° 34′, W. 2° 36′.†	29.96	761.0	60	15.6	82	w.			7		5		w.	shr's	shr's		wnw.	fair.
S. S. Ponca, Bahia, Brazil†	30.06	763.5	82	27.8		se.			2		2		se.	light	light			clear.
Bg. Potomac, N. 29° 04′, W. 60° 00′*†	30.05	763.3				ese.							ese.	hv'y	hv'y	sm'h		cloudy.
Bk. Princessen, N. 56° 03′, E. 11° 00′†	29.41	746.9	58	14.4		nne.			3		10			8 h'r	8 h'r	sm'h		drizzling.
Bk. Rosebud, S. 14° 10′, W. 30° 48*†	30.20	767.1	77	25.0	86	se.			5		3		se.	shr's	sh'rs	short	se.	clear.
S. Salisbury, S. 37° 00′ E. 74° 02′*	29.82	757.5	57.6	14.2	89	s.			7		5		sse.	2 h'r	2 h'r	hv'y	se.	fair.
Bk. Stella, N. 20° 05′, W. 154° 24′*	29.95	760.7	73.4	23.0	91	ene.			4		8		e.	0	0	mod.	ene.	
Bg. Teneriffe, N. 27° 40′, W. 73° 10′	30.01	762.2				sse.			2		10		sw.	rain	rain	sm'h		rainy.
Bk. Truro, Havre, France*†	29.76	755 9				wnw.			4		5		wnw.	2 h'r	2 h'r			fair.
U.S.F.C.S.S.Fish Hawk, Havre de Grace, Md†	30.04	763 0	70	21.1	90	ne.			3		5		ne.	0	0			fair.
Yacht Vega, N. 22° 45′, W. 66° 36′*†	30.30	769.6	80	26.7		sse.			1		1		ese.	0	0		ese.	fair.
Bk. Vincenzo Accame N. 38° 50′, W. 35° —†.	30.59	777.0	71.6	22.0		s.			3									
Schr Viola Reppard, Brunswick, Ga†	29.78	756.4	77	25.0		wnw.			1		6		wnw.	6 h'r	6 h'r			fair.
Bk. Warden Law, N. 40° 30′ W 53° 40′*	30.33	770.4				se.			2		2		se.	0	0	sm'h	wsw.	fair.
Bk. Wm. Wilcox, N. 5° 16′ W. 25° 30′*†	30.22	767.6	78	25.6		sse.			1		10		s.	2 h'r	2 h'r	sm'h		squally.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 11, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.00	762.0	75.4	24.1	85	ne.			5		3			0	0	pretty fair	Moiroud.
Algiers			30.01	762.3	72.3	22.4	68	ene.			4		1			0	0	very fair	Nicolas.
La Calle			30.00	762.0	78.1	25.6	59	n.			3		•3			0	0	pretty fair	Fonfréde.
Tunis			29.97	761.3															Jacques.
Saida			30.10	764.5	90.3	32.4	53	ese.			3		5			0	0	cloudy	Perés.
Tebessa			30.10	764.6	84.9	29.4	18	n.			6		4			0	0	cloudy	Derché.
Geriville					93.6	34.2	25	w.			4		10			0.094	2.4	covered	Lonchamp.
Laghouat			30.13	765.2	94.3	34.6	26	e.			4		3			0	0	pretty fair	Abraham.
Biskra			30.10	764.4	94.6	34.8	27	w.			1		7			0	0	very cloudy	Malau.
Australian.																			
Melbourne, Victoria	29.92	759.9	30.01	762.2	50.6	10.3	85	nne.	4	1.8			10			0	0	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.24	742.8	29.78	756.4	62.6	17.0	88	ne.			2		10			0.701	17.8	raining	Prof. Ivan Stozir.
Cracow, I. R Observatory	28.91	734.3	29.05	753.1	68.4	20.2	40	sw.	15.0	6.7			2			0	0		Dr. Wierzbiski.
Eperies	28.84	732.4	29.68	753.8	67.6	19 8	72	s.			2		10 s		n.	0	0		Julius Mikolik.
Gratz	28.52	724.5	29.75	755.6	60.1	15.6	79	nw.			3		7			0.181	4.6		Andreas Rospini.
Hermannstadt	28.41	721.0	29.78	756.5	69.4	20.8	69	nw.			3		8			0.480	12.2		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.48	723.4	29.84	757.9	57.4	14.1	80	sw.			1		10			0.398	10.1	rainy	The Staff.
Lemberg	28.74	730.1	29.09	754.1	69.6	20.9	53	sw.			2		8			0	0		Dr. T. Stanecki.
Pola	29.65	753.2	29.70	755.9	73.2	22.9	63	wnw.			1		8			0	0	thunder	I. R. Hydrographic Office.
Szathmar	29.29	744.0	29.74	755.3	73.8	23.2	58	s.			2		8			0.925	23.5		Joseph Midlinszky, S. J.
Szegedin	29.49	749.0	29.70	755.9	63.5	17.5	87	s.			1		10			0	0		Karl Stancel.
Trieste	29.67	753.5	29.77	756.1	70.0	21.1	62	calm			0		6			0	0		Royal Academy.
Vienna	29.09	738.8	29.78	756.5	64.0	17.8	55	sw.			2		9			0.008	0.2		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.72	754.9	29.82	757.4	52.0	11.1	50	wnw.	13	5.8			6			0.510	13.0	d. clouds	W. Boswell
Armagh, Observatory	29.80	756.9	30.05	763.3	54.4	12.4	70	wnw.	9	4.0									S. Call.
Bidston, Liverpool Obs'y			30.02	762.5	55.7	13.2	66	w.	28	12.5			7					d. clouds	John Hartnup.
Bolton, Sharples	29.45	748.0	29.99	761.7	50.7	10.4	69	nw.	18	8.0			9					overcast	Thomas Mackereth, A.S.
Bradford, Yorkshire																0.22	5.6		J. McLandsborough, F. R
Bridgetown, Barbadoes																			Corpl. J. Surgenor, A. H.C.
Cardington																			John McLaren.
Chatham, School M. E.	29.89	759.2	30.02	762.5	58.6	14.8	53	nw.			1		8			blank	blank	d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.99	761.7	30.22	767.6	55.3	12.9	65	wnw.			3		5					d. clouds	The Staff.
Fort Napier, Natal	27.88	708.1	30.10	764.5	72.1	22.3	45	ne.			1		0					blue sky	Pvt. Lane, A.H.C
Free Town, Sierra Leone	29.70	754.4	29.93	760.2	86.0	30.0	83	nw.			1		3					raining	Sergt. John Robinson.
Gibraltar, Mediterranean	29.97	761.2	30.02	762.5	75.6	24.2	74	e.			4		5					d. clouds	Cpl. O. Baldwin.
Glasgow, Observatory	29.59	751.6	29.80	756.9	52.7	11.5	65	wsw.			5		6 k					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.86	758.4	30.03	762.7	53.3	11.8	79	nnw.			1		8					showery	The Staff.
Guernsey	29.89	759.2	30.19	766.8	55.9	13.3	68	nnw.			3		5					squally	A. Collenette, F. M. S.
Kew, Observatory	30.01	762.2	30.04	763.0	50.7	13.7	55	w.	16	7.2			8					threatening	The Staff.
Leicester, Museum	29.74	755.4	30.00	762.0	55.5	13.1	58	nw.			3		8					overcast	J. C. Smith.
Malta, Mediterranean	29.85	758.2	29.92	760.0	78.0	25.6	65	e.			2		2					blue sky	I. H. Whysall.
Nassau, Bahamas	30.04	763.0	30.08	764.0	72.2	22.3	95	s.			1		10					overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.51	749.5	30.03	762.7	53.8	12.1	63	nnw.			4		5					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.81	757.2	30.04	763.0	56.8	13.8	55	wnw.			3		8					threatening	The Staff.
Plymouth	30.10	764.5	30.17	766.3	61.4	16.3	61	wnw.			3		8					d. clouds	John Merrifield.
Sandwick Manse, Orkneys			29.78	756.4	47	8.3	68	nnw.	20	8.9			5					gloomy	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.83	757.7	29.90	759.4	82.8	28.2	49	s.			1		0					blue sky	W. H. Lyne.
Sheffield	29.69	754.1	29.97	761.2	61.1	16.2	54	ne.			3		10			0.05	1.3	d. clouds	W. F. Cooper.
Silloth Rectory	29.90	759.4	29.93	760.2	59.8	15.4	54	nw.			3		4			0.080	2.0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.00	762.0	54.0	12.2	54	w.	24	10.7			7					d. clouds	J. New.
Strathfield Turgiss	29.85	758.2	30.07	763.8	57.2	14.0	60	nw.			2		9					d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	30.17	766.3	30.19	766.8	62	16.7	61	nw.			6		6					d. clouds	W. Newcombe.
Valencia, Observatory	30.21	767.3	30.23	767.8	55.5	13.1	73	w.	22	9.8			8			blank	blank	d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.91	759.7	29.95	760.7	52	11.1	87	calm	0	0			10 n			0	0	threatening	H. J. Cundall, C. E.
Chatham, N. B*	29.91	759.7	29.97	761.2	47	8.3	93	calm	0	0		0	0			0.19	4.8	clear	G. A. Blair.
Father Point, Quebec*	29.91	759.7	29.93	760.2	47	8.3	89	w.	15	6.7		0	2 k			0	0	clear	J. McWilliams.
Halifax, N. S*	29.83	757.7	29.90	761.0	51	10.6	100	e.	3	1.3			10 n			0.693	17.6	light rain	A. Allison.
Kingston, Ontario*	29.72	754.9	30.05	763.3	56	13.3	67	e.	6	2.7		0	0			c	0	clear	A. P. Knight, M. A.
Montreal, Quebec*	29.78	756.4	29.98	761.5	55	12.8	77	s.				5 c	sk	w.		0.23	5.8	fair	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.41	747.0	30.11	764.8	51	10.6	59	e.	5	2.2		0	0			0	0	clear	Rev. R. Mosley.
Port Dover, Ontario	29.37	746.0	30.06	763.5	53	11.7	67	ne.	12	5.4		0	0			0	0	clear	H. Morgan.
Port Stanley, Ontario	29.41	747.0	30.05	763.3	55	12.8	57	ne.	5	2.2		2 ck	0	w.		0	0	clear	M. Payne.
Quebec, Quebec*	29.64	752.8	29.97	761.2	47	8.3	86	w.			1	0	5 s		w.	0.02	0.5	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.61	752.1	30.07	763.8	51	10.6	66	nw.	2	0.9		0	0			0	0	clear	W. H. McIntyre.
Saugeen, Ontario*	29.37	746.0	30.09	764.3	45	7.2	83	se.	1	0.4		0	0			0	0	clear	
St. Andrews, N. B	29.89	759.2	29.95	760.7	51	10.6	85	calm	0	0			10 n			0	0	cloudy	
Sydney, C. B*	29.91	759.7	29.97	761.2	49	9.4	96	e.	1	0.4			10 n			0.41	10.4	cloudy	T. C. Hill, C. E
Toronto, Ontario*	29.71	754 6	30.10	764.5	55	12.8	53	n.	2	0.9		0	0			inap.	inap.	clear	Magnetic Observatory.
Yarmouth, N. S*	29.85	758.2	29.92	760.0	52	11.1	96	calm	0	0			fg			0.23	5.8	light fog	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28 69	728 7	30.16	766.1	48.0	8.9	70	nw.				0	0			0	0	clear	Wm. Wylie.
St. Johns, Newfoundland	30.07	763.8	30.32	770.1	64	17.8	82	s.	4	1.8		5 k	5 s			0.23	5.8		John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.22	767.6	30.25	768.3	65.6	18.7	80	wsw.	12.2	5.5		4 c	0			0	0		John Duthie.
Cape Town, C. G. H. Obs'y	30.21	767.3	30.25	768.3	61.1	16.2	85	nnw.	9	4.0		1	2			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow	29.73	755.1	30.00	762.0	75.0	23.9	84	calm			0		2			0	0	blue sky	N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.86	758.4	29.88	759.0	66.6	19.2	88	e.	3.8	1.7			9			0	0	covered	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.27	743.5	29.32	744.7	57.0	13.9	68	wnw.	25.7	11.5			10						Oversergent Fischer.
Fanöe	29.48	748.9	29.50	749.4	52.3	11.3	93	wnw.			6		10						Overloerer Lauridsen.
Godthaab, Greenland	29.61	752.2	29.66	753.3	40.3	4.6	89	s.			4		10			0.630	16.0	raining	S. Kleinschmidt.
Stykkisholm, Iceland	30.30	769.7	30.35	770.8	32.7	0.4	89	nw.			4		0						A. O. Thorlacius.
Thorshavn	29.94	760.5	29.98	761.4	43.5	6.4	73	nne.	22	10			8						Overloerer Bergh.
Vestervig	29.28	743.6	29.37	745.9	52.3	11.3	88	wnw.			7		10						Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.56	750.8	30.21	767.3	62.2	16.8	63	calm			0		k;kn			0	0		M. Labroue, Director.
Alençon, Normal School	29.56	750.7	30.11	764.7	55.4	13	90	w.			1		n	ne.	ne.	0.181	4.6		M. Nicot, Director.
Arras, Engineer School	29.85	758.4	30.12	765.0	53.6	12.0	61	nw.			4		kn		nw.	0.098	2.5		M. Fénéon, Command't.
Avignon, Normal School	29.96	760.9	30.04	762.9	68.7	20.4	53	nw.			2		5		s.	0	0	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.51	749.5	30.07	763.7	53.6	12	82	nnw.			1		10		w.	0	0	covered	M. Saillard, Director.
Beauvais, Normal School	29.81	757.1	30.07	763.8	57.7	14.3	44	nw.			3		8		nw.	0.150	3.8	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.09	738.9	30.05	763.2	62.0	17	59	ssw.			1		ck	c		0.224	5.7		M. Gobin, Director.
Bordeaux, Observatory	30.00	762.0	30.26	768.6	61.0	16.1	51	nw.			1		10		w.	0.154	3.9	covered	M. Rayet, Director.
Bourges, Normal School	29.61	752.2	30.17	766.2	59.0	15	62	nw.			4		k		nw.	0.185	4.7		M. Postel, Director.
Brest, Naval Observatory	30.03	762.8	30.28	769.0	60.8	16.0	66	nnw.			2		6		nnw.	0.039	1.0		M. de Kermaree, Dir.
Caen, Normal School	30.07	763.8	30.15	765.7	60.4	15.8	49	nnw.			2		5		nnw.	0.004	0.1	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.67	753.6	29.99	761.7	54.3	12.4	62	w.			4		5		w.	0.024	0.6	cloudy	M. Jadot, Director.
Charleville, Normal School	29.47	748.4	29.98	761.4	55.0	12.8	66	nw.			2		10			0.366	9.3	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.73	729.7	30.08	764.1	55.4	13.0	66	w.			2		8			0.059	1.5	¾ covered	M. Alluard, Director.
Cluny, Normal School	29.24	742.7	30.07	763.8	60.3	15.7	66	wsw.			2		6		s.	0.071	1.8		M. de Villemontée, Dir.
Commercy, Normal School	29.15	740.3	30.00	762.1	57.0	13.9	79	wnw.			4		kn	wnw.	wnw.	0.189	4.8		Dr. Coulet, Director.
Gap, Normal School	27.43	696.6	29.91	759.7	65.8	18.8	53	n.			3	0	1 kn		ne.	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.87	733.2	29.97	761.1	67.6	19.8	36	nw.			6		1		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.32	744.8	30.09	764.3	55.8	13.2	95	n.			1		10 n		ne.	0.508	12.9	raining	M. Ablard, Director.
Guéret, Normal School	28.52	724.3	30.08	764.1	58.1	14.5	57	nw.			6		5		w.	0.31	8.	cloudy	M. Rivoire, Director.
Lamballe, Normal School	29.95	760.6	30.22	767.6	60.1	15.6	59	w.			3		5		w.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.50?	749.3?	30.06?	763.5?	62.6	17	64	nw.			4		8			0.480	12.2	very cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	30.19	766.7	30.29	769.3	63.5	17.5	52	nw.			2		8		nw.	0.118	3.0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.06	738.0	30.12	765.0	56.1	13.4	80	n.			2		10	wnw.	nw.	0.335	8.5	raining	M. André, Director.
Mans, Normal School	29.86	758.5	30.17	766.4	58.8	14.9	53	nw.			3		5		nnw.	0.736	18.7	cloudy	M. Piboen, Director.
Marseille, Observatory	29.71	754.7	29.98	761.4	70.9	21.6	51	nw.			6		2		nw.	0	0		M. Stephan, Director.
Montlouis	24.95	633.6	29.79	756.6	53.6	12.0	33	nw.	13.0	5.8			5	w.		0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.93	760.2	30.06	763.4	69.8	21	49	nw.			3		2			0	0	slightly cl'dy	M. Galzin, Director.
Nancy, Normal School	29.21	742.0	29.99	761.7	58.3	14.6	58	sw.			2		kn		wnw.	0.08	2.		M. Hasse, Director
Nantes, Observatory	30.06	763.4	30.22	767.5	61.0	16.1	50	nw.			2–3	0	8 kn		nw.	0.16	4.		M. Larocque, Director.
Perpignan, Observatory	30.06	763.6	30.17	766.3	67.3	19.6	42	w.	37.4	16.7			6		nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.31	541.2			28.8	— 1.8		e.			1		10		e.	0.591	15.0	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	29.01	736.8	30.06	763.5	63.9	17.7	53	n.			1		5 k	s.	s.	0	0	cloudy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.21	640.4			37.2	2.9	100	wnw.			4		8			0.453	11.5	foggy	M. Alluard, Director.
Rochefort, Naval Obs'y	30.20	767.1	30.23	767.9	66.2	19.0	100	w.			2		5		w.	0	0	½ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.03	762.7	30.24	768.2	58.3	14.6	70	wnw.			1		5		s.	0.024	0.6	cloudy	M. Mouillot, Director.
Rodez, Normal School	28.04	712.3	30.18	766.6	56.5	13.6	72	nw.			1		cn		s.	0.248	6.3		M. Seger, Director.
Rouen, Normal School	30.03	762.8	30.08	764.0	58.3	14.6	55	nw.			1		5	nw.		0.109	4.3	cloudy	M. Brotier.
Saint Maur, Observatory	29.91	759.7	30.08	763.9	57.0	13.9	65	nw.			2		9		nw.	0.140	3.7		M. Renou, Director.
Toulouse, Observatory	29.53	750.1	30.26	768.6	64.0	17.8	52	wnw.			4		5	w.		0	0	cloudy	M. Baillaud, Director.
Tours	29.97	761.3	30.15	765.8	61.9	16.6	51	nw.			2		5	n.	nw.	0.228	5.8	cloudy	M. de Tastes.
Versailles, Observatory	29.58	751.3	30.07	763.8	58.3	14.6	52	n.			6					0.063	1.6		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.78	756.5	30.08	763.9	55.2	12.9	65	wnw.			3		10		nw.	0.047	1.2	raining	M. Marié Davy, Director
GERMAN.																			
Bamberg	28.94	735.0	29.78	756.5	53.6	12	77	w.			4	0	8 k		w.	0.177	4.5	rainy	Prof. Dr. Hoh.
Berlin	29.47	748.5	29.64	752.9	56.8	13.8	90	w.			3		8			0.476	12.1		Prof. Dr. Arndt.
Breslau	29.13	739.8	29.65	753.1	62.8	17.1	56	sw			3		9					rainy	Royal University Obs'y.
Carlsruhe	29.49	749.1	29.93	760.1	60.4	15.8	59	sw.			5		9	w.		0.094	2.4	rain & hail	Albert Senz.
Cassel	28.98	736.0	29.69	754.1	55.8	13.2	73	w.			6		8	nw.		0.224	5.7		Dr. H. Möll.
Frankfort-on-the-Main	29.45	748.0	29.81	757.2	56.3	13.5	66	sw.			3		10			0.043	1.1		Physical Society.
Friedrichshafen	28.52	724.5	29.94	760.5	59.0	15.0	60	sw.			6		6	w.		0.075	1.9		Wilhelm, Chief Tel.
Hamburg	29.47	748.4	29.56	750.8	56.1	13.4	81	nw.			6		10			0.413	10.5	rainy	E. Preller.
Kiel	29.47	748.6	29.49	749.0	57.4	14.1	72	wnw.			4		8			0.165	4.2		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.21	742.0	29.62	752.4	62.4	16.9	59	sw.			5		9	sw.		0.102	2.6		H. Leppig, Asst.
Magdeburg	29.39	746.6	29.58	751.3	61.3	16.3	70	w.			5	0	8 ks		w.	0.339	8.6		Dr. Assmann.
Memel	29.41	747.1	29.46	748.2	60.8	16.0	73	ssw.			4	0	8 ks;n					showery	Issermann.
Munich	28.06	712.8	29.92	759.9	57.0	13.9	61	nw.			5		7	sw.		0.098	2.5	raining	Central Station
Neufahrwasser	29.44	747.7	29.45	748.1	54.7	12.6	86	sw.			4		10			0.028	0.7	raining	A. Lothes.
Neustadt, Palatinate	29.35	745.5	29.88	758.9	57.7	14.3	56	w.			5		7	w.		0.118	3.0		Dicknether.
Stuttgart	28.95	735.5	29.84	757.8	61.2	16.2	58	w.			4		5	w.		0.016	0.4		Prof. Dr. Schoder.
Wustrow	29.38	746.3	29.41	747.0	59.5	15.3	100	wnw.			5	0	8 k			0.173	4.4		Profs. Brandes & Reimer
GREEK.																			
Athens	29.58	751.3			83.5	28.6		sw.			2.0		0			0	0	clear	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.32	744.7	29.37	745.9	89.3	31.8	76	sw.	40.0	17.9			7		w.	0	0	misty	
Deesa	28.84	732.6	29.30	744.1	92.3	33.5	59	sw.	11.9	5.3			10	w.		0	0	overcast	
Bombay	29.41	747.0	29.45	748.0	80.3	26.8	91	wsw.	27.0	12.1			10		wsw.	3.42	86.9	raining	
Poona, Yarrowda	27.64	702.0	29.49	749.0	73.8	23.2	88	sw.	15.0	6.7			10		wsw.	2.26	57.4	raining	
Trichinopoly	29.42	747.2	29.70	754.3	84.6	29.2	58	wnw.	6.0	2.7			10			0	0	overcast	
Bellary	28.12	714.2	29.58	751.2	79.0	26.1	70	sw.	15.4	6.9			10			0	0	gloomy	
Belgaum	27.06	687.4	29.61	752.0	69.8	21.0	92	sw.	18.0	8.0			10		sw.	0.49	12.4	showery	
Lahore	28.49	723.6	29.19	741.4	100.2	37.9	34	se.	6.6	3.0			5			0	c	misty	
Roorkee	28.44	722.5	29.32	744.6	85.4	30.2	61	se.	7.1	3.2			7			1.03	26.2		
Agra	28.76	730.5	29.32	744.7	79.1	26.2	87	se.	7.4	3.3			6		se.	1.10	27.9	d. clouds	
Nagpur	28.31	719.1	29.33	745.0	81.2	27.3	84	calm	5.0	2.2			10		s.			drizzling	
Jubbulpore	28.00	711.1	29.34	745.3	73.0	23.1	97	e.	3.8	1.7			10		e.	0.36	9.1	raining	
Lucknow	28.94	735.2	29.30	744.3	97.0	36.1	44	wsw.	3.3	1.5			0			0	0	blue sky	
Allahabad	28.96	735.6	29.26	743.1	96.8	36.0	48	ene.	3.9	1.7			9	w.		0	0	d. clouds	
Patna	29.17	740.9	29.35	745.5	90.6	32.6	65	ene.	9.0	4.0			5	ene.	ene.	0	0	d. clouds	
Hazaribagh	27.40	696.0	29.35	745.5	85.8	29.9	48	e.	9.2	4.1			10					thund'r st'm	
Cuttack	29.26	743.3	29.34	745.4	81.4	27.4	89	wsw.	0.4	0.2			10			0.66	16.8	showery	
Calcutta, Alipore	29.28	743.8	29.30	744.3	81.4	27.4	85	ese.	7.0	3.1			10		se.	0.36	9.1	overcast	
Dhubri	29.28	743.6	29.35	746.5	86.7	30.4	73	ene.	5.7	2.6			5	ene.		0.09	2.3	d. clouds	
Chittagong	29.34	745.2	29.43	747.5	81.2	27.3	82	se.	7.5	3.4			10			0	0	overcast	
Sibsagar	29.12	739.6	29.44	747.9	87.2	30.7	73	sw.	1.8	0.8			5	sw.	e.	1.00	25.4	d. clouds	
Jeypore	27.89	708.3	29.27	743.4	92.7	33.7	40	e.	7.1	3.2			9		e.	0	0	d. clouds	
Zanzibar, Africa	30.03	762.7			84.7	29.3	56	s.	6.6	3.0			5		sse.	0	0	d. clouds	
ITALIAN.																			
Udine	29.37	746.0	29.77	756.2	62.6	17.0	83	ne.	2.5	1.1			8			0.583	14.8		Prof. Giovanni Clodig.
Milan	29.26	743.3	29.77	756.1	74.5	23.6	44	nw.	8.1	3.6			6	wnw.		0.240	6.1		Prof. Schiaparelli.
Padua	29.68	753.9	29.79	756.6	66.9	19.4	51	nne.	9.4	4.2			10	ne.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.88	733.5	29.76	755.8	75.2	24.0	15	n.	7.4	3.3			4	nw.		0	0		Prof. P. F. Denza.
Genoa	29.61	752.2	29.80	757.0	71.2	21.8	55	sw.	5.6	2.5			0			0	0		Prof. G. M. Garibaldi.
Mondovi	27.91	709.0	29.77	756.1	73.8	23.2	23	w.			4		2	w.		0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
ITALIAN.—Continued.																			
Pesaro	29.72	754.9	29.77	756.1	70.2	21.2	55	n.	9.8	4.4			8			0	0		Prof. Luigi Guidi.
Florence	29.58	751.4	29.83	757.7	69.8	21.0	63	sw.			6		10	sw.		0	0		Prof. Costantino Pitter.
Leghorn	30.12	765.1	29.81	757.2	67.1	19.5	62	wsw.	13.6	6.1			7	wsw.		0	0		Prof. P. Monte.
Rome	29.73	755.1	29.90	759.4	70.2	21.2	59	sw.	15.0	6.7			7			0.051	1.3		Prof. P. S. Ferrari.
Lecce	29.65	753.1	29.89	759.3	81.9	27.7	45	s.	21.0	9.4			1			0	0		Prof. C. de Giorgi.
Cosenza	29.04	737.6	29.90	759.5	84.9	29.4	74	sw.	3.8	1.7			4	w.		0	0		Prof. D. Conti.
Cagliari	29.76	755.9	29.95	760.7	76.5	24.7	29	nw.			6		1			0	0		Prof. A. Pacinotti.
Palermo	29.72	755.0	29.97	761.3	76.1	24.5	63	ne.	8.7	3.9			1			0	0		Prof. G. Giacciatore.
Syracuse	29.87	758.7	29.91	759.8	77.7	25.4	65	sse.	8.1	3.6			7	sw.		0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.39	746.4	29.89	759.3	74.1	23.4	68	sw.	8.1	3.6			8	w.		0	0		Prof. T. Brioschi.
Stelvio	22.06	560.3			37.4	3.0	56	ssw.			2		10			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.12	561.8			39.2	4.0	65	n.			6		10			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.77	756.1	29.80	756.9	56.4	13.6	91	nne.	4.0	1.8		0	9 s			0	0	cloudy	K. Ogawa.
Hakodate	29.79	756.6	29.80	756.9	52.0	11.1	93	calm	0	0			5		w.	0	0	fair	
Hiroshima, I. M. Obs'y	29.73	755.1	29.75	755.6	63.6	17.6	90	ssw.	1.1	0.5		ck	10 s			0	0	covered	I. Sogawa.
Kanazawa	29.81	757.2	29.91	759.7	60.4	15.8	96	e.	1.8	0.8			10 ks			0.435	11.0	overcast	S. Endo.
Kioto	29.57	751.1	29.74	755.4	63.2	17.3	96	w.	0.1	0.04			10 s			0.249	6.3	cloudy	M. Tojima.
Kochi	29.75	755.6	29.77	756.1	67.4	19.7	89	n.	2.8	1.3			10 s		sw.	0.068	1.7	cloudy	K. Kusunose.
Nagasaki, I. M. Obs'y	29.64	752.8	29.84	757.9	63.3	17.4	85	sw.	0.7	0.3			10 s			0	0	overcast	S. Takehayashi.
Nemuro	29.78	756.4	29.84	757.9	47.8	8.8	86	calm	0	0		3	0			0	0	fair	
Niigata	29.68	753.9	29.72	754.9	61.2	16.2	93		0.7	0.3		10 ck	0			0.105	2.7	covered	M. Morita.
Nobiru	29.78	756.4	29.80	756.9	58.6	14.8	96	n.	3.4	1.5			10 n			0.365	9.3	light rain	H. Midzushina.
Supporo					53.5	11.9	77	calm	0	0			1			0	0	clear	
Tokei Obs'y, Yeddo	29.69	754.1	29.76	755.9	61.3	16.3	98	nne.	3.3	1.5			10 n			0.650	16.5	raining	The Staff.
Wakayama	29.72	754.9	29.77	756.1	63.4	17.4	92	calm	0	0		ck	10 s			0.116	3.0	cloudy	Y. Kuwamura.
MAURITIUS																			
Mauritius Observatory	29.98	761.5	30.17	766.3	71.5	21.9	69	se.	12.0	5.4		0	6 k;ks		se.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.68	601.5	29.90	759.5	66.2	19.0	77	calm	0	0		1 ck	0			0.010	0.3	clear	Prof. Vicente Fernandez.
Leon	24.30	617.2	29.93	760.2	61.2	16.2	90	nw.			1	2 c	0	sw.		0.843	21.4	clear	Prof. M. Leal.
Mazatlan	29.05	753.0	29.90	759.6	75.5	24.2	93	ene.				1 cs	0			0	0	hazy	F. Quijano, C. E.
Mexico, Central Obs'y	23.12	587.1	30.10	764.6	59.0	15.0	81	calm	0	0		3 c	2 k			0.055	1.4	½ clouded	The Staff.
Morelia	24.22	615.2	30.28	769.1	60.8	16.0	65	ne.			2	1	1	s.	s.	0.205	5.2	clear	M. Tena, M. D.
Pabellon, Aguascalientes	23.88	606.5	29.77	756.2	65.7	18.7	87	se.			1					0	0		M. V. de Leon, M. E.
Puebla, Catholic Institute	23.42	594.9	30.13	765.2	57.0	13.9	88	calm	0	0		0	4		s.	0.709	18.0	½ clouded	Prof. P. Spina.
San Luis Potosi	24.20	614.7	30.08	764.0	65.3	18.5	63	sse.				2	3	w.	e.	0	0	½ clouded	G. Barroeta, M. D.
Zacatecas	22.54	572.4	30.05	763.3	61.0	16.3	71					5 cs	0	se.		0.114	2.9	½ clouded	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.96	760.9	29.96	760.9	54.5	12.5		nw.			5					0.354	9.0		
Groningen	29.67	753.6	29.72	755.0	55.0	12.8		n.			5					0.539	13.7		
Helder	29.80	756.8	29.80	756.8	52.7	11.5		nw.			6					0.031	0.8		
Hellevoetsluis	29.89	759.1	29.89	759.1	51.4	10.8	80	nw.			4					0.425	10.8		
Utrecht	29.80	756.8	29.84	758.0	53.0	12.0	84	wnw.			4		8			0.476	12.1	dull	H. van der Brink.
NORWEGIAN.																			
Bergen	29.20	741.7	29.26	743.3	59.0	15.0	66	nnw.	18	8			4			0	0		
Brono	29.53	750.1	29.57	751.1	51.4	10.8	43	ene.	22	10			10			0	0		
Christiania	29.02	737.2	29.17	740.8	51.1	10.6	79	nnw.	9	4			10			0.402	10.2	raining	
Gjæsvær	29.98	761.6	30.01	762.2	41.7	5.4		wnw.			2		3						
Lodingen	29.76	755.8	29.80	757.0	52.3	11.3	37	ene.			4		2			0	0		
PORTUGUESE.																			
Angra, Azores					67.3	19.6	77	se.	10.5	4.7			4			0	0		Dr. J. A. Sampaio.
Campo Major	29.11	739.4	30.07	763.8	79.7	26.5	24	nne.	8.1	3.6			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.10	764.4	30.19	766.7	70.2	21.2	73	sw.	8.1	3.6			10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.78	756.5	30.13	765.4	73.6	23.1	29	nne.	22.4	10.0			0			0	0		The Staff.
Ponta Delgada, Azores	30.41	772.3	30.48	774.1	66.6	19.2	79	se.	6.9	3.1			3			0	0		
Saint Paul de Loando	29.84	757.8	30.04	763.0	71.6	22.0	92	sse.	0.7	0.3			1	s.		0	0		
Serra da Estrella	25.47	646.8	30.16	766.0	54.9	12.7	42	se.	18.6	8.3			0			0	0		
RUSSIAN.																			
Akmolinski	28.79	731.2	29.83	757.6	66.7	19.3	37	nnw.	11	5		0	2			0	0		Major K. Lasarew.
Archangel	29.73	755.2	29.75	755.7	43.3	6.3	87	ene.	9	4			10			0.335	8.5	raining	Capt. Sseliwerstow.
Astrakhan	30.00	763.5	29.98	761.4	82.9	28.3	39	sse.	11	5		0	0			0	0		Capt. Wisganow.
Barnaul	28.96	735.5	29.44	747.7	61.9	16.6	80	wsw.	13	6			10			0.193	4.9		Meteorological Obs'y.
Dorpat	29.22	742.2	29.45	748.1	68.5	20.3	51	wsw.	7	3		9 ck	0			0.110	2.8		Observatory.
Ekaterinburg	29.08	738.6	30.01	762.3	68.4	20.2	31	w.	9	4		1 c	0			0	0	light clouds	Meteorological Obs'y.
Kasan	29.68	753.8	29.94	760.4	71.4	21.9	50	sse.	13	6			10			0	0		Observatory.
Kertch	29.85	758.1	29.87	758.6	72.1	22.3	69	sse.	9	4		0	7 ks			0	0		Lagorio & Sastyrex.
Kieff	29.03	737.4	29.63	752.6	75.6	24.2	47	sw.	7	3		c;ck	9 k;ks			0.268	6.8		Observatory.
Lugan	29.58	751.4	29.78	756.4	80.2	26.8	48	ssw.	18	8			2			0	0		Meteorological Obs'y
Moscow	29.02	737.1	29.45	748.1	84.4	29.1	27	s.	13	6			6 ks						Meteorological Obs'y.
Nikolaiev	29.76	755.9	29.83	757.7	85.5	29.7	39	sw.	22	10		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor.	29.56	750.8	29.65	753.0	57.4	14.1	85	calm	0	0			10			0	0		Lieut. Iwanow.
Pekin, China	29.48	748.8	29.62	752.4	77.9	25.5	25	ne.	7	3		0	3 k			0	0		Physical Observatory
St. Petersburg	29.40	746.8	29.42	747.2	64.4	18.0	80	s.	2	1			10 n			0.130	3.3	light rain	Central Physical Obs'y.
Semipalatinsk	29.02	737.1	29.65	753.2	63.0	17.2	78	wsw.	11	5			10 n			0.146	3.7		Major Lasarew.
Tashkend, Laboratory	28.37	720.6	29.85	758.3	81.3	27.4	34	calm	0	0			0						Teich, A. M.
Tiflis	28.55	725.1	29.88	759.0	84.7	29.3	33	e.	2	1		0	0			0	0		Physical Observatory
Vladivostock	29.03	752.5			51.8	11.0	94	se.	13	6		0	8 n						Astronomical Obs'y
Warsaw	29.17	741.0	29.58	751.3	66.6	19.2	52	nw.	16	7			8 ks						
Wilna	29.13	739.9	29.54	750.2	65.1	18.4	63	w.	7	3			9			0	0	heavy cl'ds.	Berg, Assistant.
SPANISH.																			
Barcelona, Met. Obs'y	29.95	760.8	30.06	763.4	71.2	21.8	55	se.	4.0	1.8			0			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.30	769.5	30.35	771.0	68.0	20.0	57	nw.	6.3	2.8		2	7	n.		0.142	3.6	almost cov.	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.37	695.1	30.34	770.5	60.1	15.6	62	ne.	8.1	3.6			4			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.98	710.6	30.15	765.9	71.2	21.8	35	ne.	15.4	6.9		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.98	761.4	30.12	765.1	77.0	25.0	51	e.	6.3	2.8		0	3			0	0	almost clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.38	746.2	30.27	768.9	63.5	17.5	56	n.	14.3	6.4			2			0	0	light clouds	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	29.93	760.2	30.00	761.9	83.7	28.7	80	calm	0	0		0	2 k		s.	0.008	0.2	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.74	755.4	29.80	756.9	80.2	26.8	78	e.	2.2	1.0			10 n		n.	0.295	7.5	misty	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.94	760.5	30.04	762.9	81.5	27.5	43	e.	17.3	7.8		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.01	762.2	30.10	764.5	82.0	27.8	78	se.	3.1	1.4		0	2 k		se.	0	0	clear	Manuel Maese.
Tuguegarao, Philippine Id's	29.65	753.1	29.79	756.7	80.1	26.7	89	nnw.	3.7	1.7		7 cs	3 ks		ese.	0.10	2.5	dull	José L. Yrastorza.
SWEDISH																			
Haparanda	29.68	753.8	29.72	754.8	41.7	5.4	100	ne.			6		10			0.984	25.0	raining	
Umea	29.47	748.6	29.52	749.9	43.5	6.4	94	ne.			8		10			0.205	5.2		
Hernosand	29.36	745.8	29.41	747.1	43.2	6.2	93	ne.			8		10			0	0		
Stockholm	29.11	739.4	29.29	743.9	57.4	14.1	86	se.			6		10			0.563	14.3	raining	
Wisby	29.21	742.0	29.27	743.5	59.0	15.0	72	sw.			4		10			0.475	11.6		
Sub-series.																			
Upsala	29.16	740.6	29.24	742.8	57.2	14.0	80	sse.	12.5	5.6			10		s.	0.118	3.0	raining	S. G. Flueman.
SWISS.																			
Geneva	28.63	727.2	30.04	762.9	60.4	15.8	52	ssw.			2					0.138	3.5	covered	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Scottish.																			
Monach Lt			29.88	758.9	48	8.9	93	nw.			4	10	5	nw.		1.0	25.	light clouds	J. Youngclause.
Turkish.																			
Constantinople			29.92	759.9	83.5	28.6	41	ssw.	7	3.0			0			0	0		The Observatory.
Valona			30.04	762.9	81.5	27.5		sw.			1		2			0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.89	759.3	82.0	27.8	60	wsw.			2	0	0			0	0		Prof. C. V. A. van Dyck.
United States.																			
Albany, New York	29.91	759.7	29.99	761.7	59.3	15.2	65	n.	5	2.2		3 c	4 s		nw.	0	.0	fair	J. O. Barnes.
Alpena, Michigan	29.47	748.5	30.12	765.0	50	10.0	59	nw.	6	2.7		0	0			0	0	clear	Jas. J. Fitzgerald.
Atlanta, Georgia	28.75	730.2	29.90	759.4	75.0	23.9	74	nw.	4	1.8		4 k	0			0.01	0.3	fair	H. Hall.
Atlantic City, New Jersey	29.80	756.9	29.81	757.2	62.8	17.1	93	ne.	7	3.1			10 s			0.14	3.6	cloudy	Jas. M. Watson.
Augusta, Georgia	29.71	754.6	29.90	759.4	72	22.2	87	calm	0	0		3 ck	0			0	0	clear	John Healy.
Baltimore, Maryland	29.83	757.7	29.88	758.9	70	21.1	76	ne.	9	4.0		1 cs	hz.	nw.		0.59	15.0	clear	Robert Seyboth.
Barnegat, New Jersey	29.82	757.4	29.84	757.9	58.0	14.4	96	n.	11	4.9			fg.			1.10	27.9	dense fog	Chas. F. Merritt.
Behring Island, Behring Sea	29.73	755.1	29.75	755.6	36.8	2.7		se.	16	7.2			fg.			inap.	inap.	dense fog	Dr. L. Steineger.
Bismarck, Dakota	28.28	718.3	30.03	762.7	49	9.4	80	e.	4	1.8		4 cs	hz.	w.		0	0	fair	Cyrus Cramer.
Boise City, Idaho	26.98	685.3	29.76	755.9	53	11.7	57	w.	3	1.3		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.80	756.9	29.95	760.7	52.0	11.1	100	n.	3	1.3			10 n			0.29	7.4	light rain	O. B. Cole.
Brownsville, Texas	29.76	755.9	29.80	756.9	81.7	27.6	85	s.	10	4.5		0	2 s		s.	0	0	clear	M. McCarty.
Buffalo, New York	29.32	744.7	30.06	763.5	54.6	12.6	55	ne.	7	3.1		1 cs	0			0	0	clear	Wm. Finn.
Burlington, Vermont	29.70	754.4	29.99	761.7	54.0	12.2	74	ne.	5	2.2		0	0			inap.	inap.	clear	G. C. Schaeffer.
Cairo, Illinois	29.50	749.3	29.89	759.2	73.3	22.9	88	sw.	8	3.6			10 s			0	0	threatening	W. H. Ray.
Campo, California	27.38	695.4	29.86	758.4	47.3	8.5	93	w.	3	1.3			10 n		w.	0.11	2.8	light rain	W. H. Clendenon.
Camp Thomas, Arizona	27.13	689.1	29.76	755.9	53	11.7	50	calm			0	0	0			0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	29.79	756.7	29.81	757.2	69	20.6	93	nw.	10	4.5			10 s		nw.	0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	29.77	756.1	29.80	756.9	68	20.0	93	ne.	4	1.8			fg.			0.02	0.5	dense fog	W. Bolton.
Cedar Keys, Florida	29.93	760.2	29.95	760.7	78	25.6	88	sw.	9	4.0		0	3 k		sw.	0.45	11.4	clear	F. W. Mixer.
Champaign, Illinois	29.10	739.1	29.90	759.4	54.3	12.4	83	ne.	26	11.6			10 n		ne.	2.42	61.5	heavy rain	L. A. Welsh.
Charleston, S. Carolina	29.82	757.4	29.87	758.7	75	23.9	85	nw.	6	2.7		0	0			0.18	4.6	clear	J. H. Smith.
Charlotte, N. Carolina	28.99	736.3	29.82	757.4	77.0	25.0	69	sw.	2	0.9		2 ck	0			inap.	inap.	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.08	738.6	29.89	759.2	74.0	23.3	76	w.	6	2.7		2 cs	0	sw.		0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.05	610.9	29.79	756.7	50.1	10.1	86	sw.	10	4.5			10 n		sw.	0.29	7.4	light rain	E. McGovern.
Chicago, Illinois	29.34	745.2	30.03	762.7	51.1	10.6	69	ne.	16	7.2		10 c	0			0.01	0.3	cloudy	J. Mitchell.
Chincoteague, Virginia	29.77	756.1	29.79	756.7	68	20.0	100	ne.	5	2.2			10 s			0	0	cloudy	V. P. Temple.
Cincinnati, Ohio	29.31	744.5	29.96	761.0	62.8	17.1	78	ne.	4	1.8			10 n		e.	0.01	0.3	light rain	R. B. Watkins.
Cleveland, Ohio	29.33	745.0	30.06	763.5	55.3	12.9	62	ne.	8	3.6		10 c	0	w.		0.12	3.0	cloudy	J. B. Newlin.
Coleman City, Texas	28.07	713.0	29.82	757.4	70	21.1	84	s.	6	2.7		0	6 s		s.	0.01	0.3	fair	L. Dorman.
Columbus, Ohio	29.13	739.9	29.97	761.2	60	15.6	65	ne.	6	2.7			10 s			0.08	2.0	cloudy	D. Cuthbertson.
Concho, Texas	27.95	709.9	29.82	757.4	74	23.3	90	s.	12	5.4			10 s			0	0	cloudy	W. W. McConihe.
Davenport, Iowa	29.36	745.7	30.00	762.0	54	12.2	66	ne.	11	4.9		4 ck	5 k	calm	se.	0.37	9.4	cloudy	R. R. Martin.
Dayton, Washington T'y	28.14	714.7	29.88	758.9	58	14.4	60	sw.	3	1.3		0	8 k		sw.	0	0	cloudy	H. Clifford.
Deadwood, Dakota	25.37	644.4	29.80	756.9	52.5	11.4	93	s.	6	2.7		10 cs	0	s.		0.11	2.8	cloudy	G. W. Scott.
Decatur, Texas					79	26.1	62	se.	9	4.0		0	4 s		se.	0.24	6.1	fair	D. J. Carr.
Delaware Breakwater, Del.	29.80	756.9	29.82	757.4	62	16.7	93	ne.	7	3.1			10s;fg		calm	0.02	0.5	cloudy	F. C. Pratz.
Denison, Texas	29.07	738.4	29.85	758.2	70.4	21.3	90	s.	8	3.6		10 cs	0			0.55	14.0	cloudy	J. McGlone.
Denver, Colorado	24.76	628.9	29.80	756.9	53.5	11.9	84	s.	6	2.7		4 k	2 ks	w.	s.	1.82	40.2	fair	F. M. Neal.
Des Moines, Iowa	29.13	739.9	30.01	762.2	52	11.1	66	e.	7	3.1		3 c	4 s	nw.		1.91	48.5	fair	F. W. Conrad.
Detroit, Michigan	29.38	746.2	30.07	763.8	54.8	12.7	49	ne.	7	3.1		2 cs	0	calm		0	0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.32	693.9	29.83	757.7	59	15.0	100	n.	8	3.6		0	fg.			0	0	light fog	E. A. Thomas.
Dubuque, Iowa	29.35	745.5	30.04	763.0	50.8	10.4	59	ne.	6	2.7		7 c	0	ne.		0.40	10.2	fair	J. Harvey Smith.
Duluth, Minnesota	29.50	749.3	30.19	766.8	45	7.2	76	calm	0	0		hz.	hz.			0	0	dense haze	N. B. Conger.
Eagle Pass, Texas	29.06	738.1	29.85	758.2	78.0	25.6	97	se.	7	3.1			10 s		se.	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.23	640.8	29.82	757.4	47	8.3	61	n.	16	7.2		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.89	759.2	29.96	761.0	49	9.4	86	nw.	1	0.4			10 s		w.	0	0	cloudy	D. C. Murphy.
El Paso, Texas	26.18	665.0	29.77	756.1	57	13.9	44	nw.	3	1.3		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.33	745.0	30.05	763.3	55	12.8	69	ne.	8	3.6		0	0			0	0	clear	Peter Wood.
Escanaba, Michigan	29.51	749.5	30.16	766.1	50	10.0	58	calm	0	0		0	0			0	0	clear	C. Dill.
Fort Apache, Arizona	24.94	633.5	29.69	754.1	37	2.8	58	ne.	1	0.4		0	0			0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.12	688.8	29.91	759.7	54	12.2	86	ne.	11	4.9			10 s		ne.	0	0	cloudy	B. O. Lenoir.
Fort Bennett, Dakota	28.46	722.9	30.00	762.0	54	12.2	80	e.	5	2.2		5 k	5 s	calm	calm	0.01	0.3	cloudy	A. Pritchard.
Fort Benton, Montana																			G. W. Davis.
Fort Buford, Dakota	28.08	713.2	30.04	763.0	49	9.4	66	e.	6	2.7		5 cs	0	calm		0	0	fair	A. H. Bell.
Fort Custer, Montana	26.75	679.4	29.81	757.2	58	14.4	93	e.	1	0.4			10 s		calm	0	0	cloudy	V. Verge.
Fort Davis, Texas	25.08	637.0	29.69	754.1	65	18.3	36	calm	0	0		0	0			0	0	clear	J. Williams.
Fort Elliott, Texas	27.10	688.3	29.77	756.1	62	16.7	78	ne.	8	3.6		8 k	0	ne.		0	0	fair	W. J. Cundall.
Fort Grant, Arizona	25.17	639.3	29.71	754.6	52	11.1	59	nw.	4	1.8		0	0			0	0	clear	Robert O. Lord.
Fort Keogh, Montana	27.45	697.2	29.88	758.9	58	14.4	77	se.	13	5.8		10 cs	0	se.		0.15	3.8	cloudy	W. B. Stockman.
Fort Macon, North Carolina	29.80	756.9	29.81	757.2	71	21.7	94	nw.	4	1.8		5 c;ck	hz.	calm	calm	0.18	4.6	fair	W. W. Thomas.
Fort McKavett, Texas	27.57	700.3	29.77	756.1	76	24.4	66	s.	7	3.1			10 s			0	0	cloudy	J. E. Thatcher.
Fort Missoula, Montana	26.60	675.6	29.86	758.4	57	13.9	83	sw.	1	0.4		5 k	0	s.		0.03	0.8	fair	J. H. Jones.
Fort St. Michaels, Alaska	29.66	753.4	29.70	754.4	47	8.3	85	ne.	6	2.7		0	5 ks		ne.	0.08	2.0	fair	A. P. Leavitt.
Fort Shaw, Montana	26.29	667.8	29.86	758.4	54	12.2	93	calm	0	0		8 k	0			0.05	1.3	cloudy	A. L. Mathews.
Fort Sill, Indian Territory	28.61	726.7	29.81	757.2	70.8	21.6	90	se.	4	1.8		0	8 s		s.	0	0	cloudy	T. Cleary.
Fort Smith, Arkansas	29.39	746.5	29.85	758.2	68.0	20.0	93	e.	2	0.9			fg.			0	0	dense fog	J. B. Campbell.
Fort Stevenson, Dakota	28.24	717.3	30.04	763.0	48	8.9	86	e.	3	1.3		4 ck	0			0	0	fair	W. Burrows.
Fort Verde, Arizona					52.1	11.2	55	nw.			1	0	0			0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.44	620.8	29.82	757.4	49.5	9.7	91	w.	3	1.3			10 k			0.02	0.5	cloudy	T. M. Ambler.
Fredericksburg, Texas	28.14	714.7	29.82	757.4	74	23.3	97	sw.	3	1.3		0	8 ks		sw.	0	0	cloudy	H. S. Miles.
Galveston, Texas	29.84	757.9	29.89	759.2	79	26.1	91	s.	8	3.6		5 ck	hz.	n.		0	0	fair	E. O'C. Macnerney.
Grand Haven, Michigan	29.43	747.5	30.08	764.0	55.5	13.1	56	ne.	8	3.6		3 c	0	w.		0	0	clear	W. A. Reid.
Hatteras, North Carolina	29.79	756.7	29.81	757.2	72	22.2	97	n.	8	3.6		3 cs	3 k	w.		0.04	1.0	fair	R. M. Crawford.
Helena, Montana	25.71	653.0	29.83	757.7	58	14.4	84	calm	0	0		10 k	0			0.02	0.5	cloudy	S. Wheaton.
Henrietta, Texas	28.87	733.3	29.85	758.2	71.0	21.7	66	s.	4	1.8		0	3 s		sw.	0.17	4.3	clear	J. W. Byram.
Huron, Dakota	28.71	729.2	30.05	763.3	48.2	9.0	83	ne.	7	3.1		3 k	4 s	ne.		0	0	fair	S. W. Glenn.
Indianapolis, Indiana	29.17	740.9	29.95	760.7	57	13.9	86	e.	6	2.7			10 n		ne.	1.41	35.8	light rain	O. Schutze
Indianola, Texas	29.85	758.2	29.88	758.9	79.9	26.0	91	se.	7	3.1		8 k	0	sw.		0	0	cloudy	I. A. Reed.
Jacksboro, Texas	28.70	729.0	29.82	757.4	70	21.1	94	s.	4	1.8			fg.			0.21	5.3	dense fog	J. P. Sherry.
Jacksonville, Florida	29.87	758.7	29.91	759.7	77	25.0	85	s.	4	1.8			10 s		s.	0.50	12.7	cloudy	J. W. Smith.
Keokuk, Iowa	29.28	743.7	29.92	760.0	55.0	12.8	86	n.	8	3.6			10 s		n.	2.71	68.8	threatening	F. Z. Gosewisch.
Key West, Florida	29.99	761.7	30.01	762.2	79.0	26.1	77	se.	13	5.8		0	4 ks		se.	2.26	57.4	fair	R. H. Paxton.
Kittyhawk, North Carolina	29.80	756.9	29.82	757.4	65	18.3	90	e.	2	0.9			fg.			inap.	inap.	dense fog	E. A. Beals.
Knoxville, Tennessee	28.90	734.0	29.90	759.4	71.2	21.8	82	se.	2	0.9		4 k	1 ks	w.		0	0	fair	J. A. Cody.
La Crosse, Wisconsin	29.34	745.2	30.10	764.5	54	12.2	55	n.	9	4.0		0	0			0	0	clear	S. C. Emery.
La Mesilla, New Mexico	26.03	661.2	29.75	755.6	50.5	10.3	40	calm	0	0		0	0			0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.00	736.6	29.87	758.7	60	15.6	87	e.	5	2.2			10 s		e.	0.34	8.6	cloudy	A. W. Browne.
Lewiston, Idaho	29.00	736.6	29.82	757.4	66.0	18.9	73	s.	1	0.4		8 k	0			0	0	cloudy	W. Bell.
Little Rock, Arkansas	29.55	750.6	29.86	758.4	71	21.7	90	sw.	4	1.8		0	0			0	0	clear	W. U. Simmons.
Los Angeles, California	29.61	752.1	30.00	762.0	55.1	12.8	86	nw.	1	0.4			10 s		calm	inap.	inap.	cloudy	E. F. Kubel.
Louisville, Kentucky	29.31	744.5	29.86	758.4	68.5	20.3	91	n.	7	3.1			10 s			0	0	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.18	741.2	29.85	758.2	74.0	23.3	68	n.	1	0.4		1 cs	0			0.99	25.1	clear	W. R. Bushby.
Madison, Wisconsin	29.09	738.9	30.08	764.0	50	10.0	58	ne.	8	3.6		4 c	0	w.		0	0	fair	C. A. Shaw.
Marquette, Michigan	29.45	748.0	30.17	766.3	52	11.1	52	calm	0	0		0	0			0	0	clear	J. Gilligan.
Memphis, Tennessee	29.55	750.6	29.88	758.9	75	23.9	76	s.	2	0.9		3 cs	2 s		sw.	0	0	fair	D. T. Flannery.
Milwaukee, Wisconsin	29.36	745.7	30.10	764.5	48	8.9	71	n.	11	4.9		7 c	0			0	0	fair	W. Line.

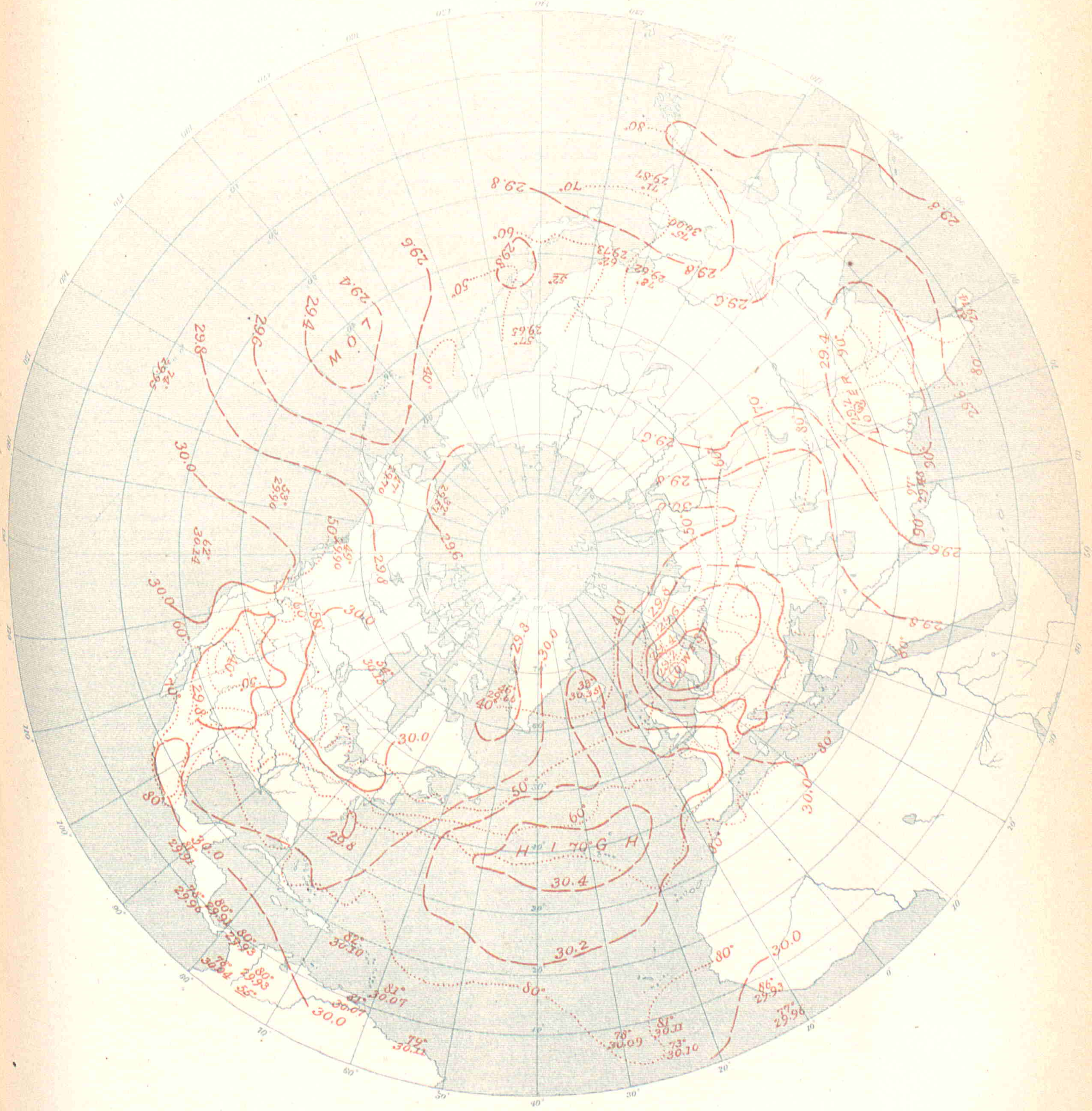
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Mobile, Alabama	29.90	759.4	29.94	760.5	77	25.0	90	w.	2	0.9	.....	4 k	0	sw.	.....	0	0	fair	J. D. Paxton.
Montgomery, Alabama	29.68	753.9	29.92	760.0	75.3	24.1	85	sw.	1	0.4	.....	1 c	0	.....	.....	inap.	inap.	clear	J. B. McLaughlin.
Moorhead, Minnesota	29.13	739.9	30.10	764.5	52	11.1	72	s.	3	1.3	.....	2 k	0	.....	.....	0	0	clear	H. Bessant.
Morgantown, W. Virginia	28.96	735.6	29.96	761.0	63.5	17.5	79	ne.	2	0.9	.....	0	8 s	.....	.....	0.62	15.7	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.77	603.7	29.89	759.2	38.0	3.3	88	calm	0	0	.....	1 c	sk.	nw.	.....	0	0	clear	J. G. Linsley.
Nashville, Tennessee	29.43	747.5	29.95	760.7	72.5	22.5	82	w.	1	0.4	.....	6 cs	0	sw.	.....	0	0	fair	L. A. Jesunofsky.
New Haven, Connecticut	29.80	756.9	29.91	759.7	56	13.3	93	n.	8	3.6	.....	.....	10 s	.....	n.	0.77	19.6	cloudy	J. H. Sherman.
New London, Connecticut	29.89	759.2	29.94	760.5	60	15.6	100	ne.	6	2.7	.....	.....	10 n	.....	ne.	1.26	32.0	heavy rain	J. G. Lynch.
New Orleans, Louisiana	29.87	758.7	29.92	760.0	76.7	24.8	86	sw.	4	1.8	.....	0	3 k	.....	sw.	0	0	clear	L. Dunne.
Newport, Rhode Island	29.88	758.9	29.93	760.2	58.0	14.4	100	ne.	4	1.8	.....	.....	10 n	.....	ne.	1.28	32.5	light rain	W. McGillivray.
New River, N. Carolina	.....	.....	.....	.....	71	21.7	91	w.	.....	.....	1	0	2 s	.....	.....	0.36	9.1	clear	C. C. Corbin.
New Shoreham, Rhode I'd.	29.89	759.2	29.92	760.0	55.0	12.8	100	e.	14	6.3	.....	.....	10 n	.....	e.	0.66	16.8	light rain	W. Davis.
New York, New York	29.73	755.1	29.90	759.4	61	16.1	93	ne.	14	6.3	.....	.....	10 s	.....	ne.	0.10	2.5	cloudy	J. B. Merrill.
Norfolk, Virginia	29.78	756.4	29.81	757.2	72	22.2	90	n.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	J. T. Elker.
North Platte, Nebraska	27.07	687.6	29.87	758.7	59.6	15.3	98	ne.	12	5.4	.....	.....	10 n	.....	.....	1.26	32.0	light rain	E. F. Brady.
Olympia, Washington T'y	29.99	761.7	30.03	762.7	46.0	7.8	93	s.	1	0.4	.....	0	4 s	.....	calm	0	0	fair	J. Dascomb.
Omaha, Nebraska	28.84	732.5	29.98	761.5	55.0	12.8	69	e.	12	5.4	.....	.....	10 s	.....	.....	0.26	6.6	cloudy	A. Pollak.
Ogalaamie, Pt. Barrow, Alas.	29.56	750.8	29.57	751.1	32.0	0.0	98	ese.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	P. H. Ray.
Oswego, New York	29.72	754.9	30.04	763.0	54.0	12.2	61	ne.	10	4.5	.....	0	0	.....	.....	0	0	clear	S. W. Beall.
Palestine, Texas	29.38	746.2	29.92	760.0	73.0	22.8	90	s.	6	2.7	.....	10 cs	0	sw.	.....	0.75	19.0	cloudy	L. M. Pindell.
Pensacola, Florida	29.89	759.2	29.92	760.0	76.1	24.5	97	w.	6	2.7	.....	.....	10 s	.....	w.	0.02	0.5	cloudy	M. McGauran.
Philadelphia, Pa.	29.78	756.4	29.88	758.9	64	17.8	90	ne.	12	5.4	.....	.....	10 s	.....	ne.	inap.	inap.	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.83	452.9	29.65	753.1	24	— 4.4	100	s.	6	2.7	.....	.....	fg.	.....	s.	0.28	7.1	dense fog	L. M. Dey.
Pioche, Nevada	23.94	608.1	29.74	755.4	39.8	4.3	76	calm	0	0	.....	4 k	0	calm	.....	0.03	0.8	fair	C. N. Kitchel.
Pittsburg, Pennsylvania	29.16	740.7	29.95	760.7	62.0	16.7	62	n.	7	3.1	.....	0	0	.....	.....	0.40	10.2	clear	J. H. Bryce.
Poplar River, Montana	27.88	708.1	.....	.....	.....	.....	.....	ne.	.....	.....	1	0	0	.....	.....	c	0	clear	U. D. Maxwell.
Port Eads, Louisiana	29.95	760.7	29.96	761.0	76.1	24.5	94	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear	H. G. Christian.
Port Huron, Michigan	29.42	747.3	30.09	764.3	49.9	9.9	77	ne.	9	4.0	.....	5 c	0	w.	.....	0	0	fair	W. O. Bailey.
Portland, Maine	29.92	760.0	29.97	761.2	57.0	13.9	74	ne.	2	0.9	.....	.....	10s; hz	.....	w.	0	0	cloudy	W. W. Eichelberger.
Portland, Oregon	29.97	761.2	30.04	763.0	55.2	12.9	86	calm	0	0	.....	0	0	.....	.....	0	0	clear	M. L. Hearne.
Portsmouth, N. Carolina	.....	.....	.....	.....	69	20.6	78	ne.	6	2.7	.....	6 c	0	n.	.....	0.02	0.5	fair	F. P. Chaffee.
Prescott, Arizona	24.62	625.3	29.64	752.8	39	3.9	76	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. McN. Wright.
Provincetown, Mass.	29.91	759.7	29.94	760.5	54	12.2	93	e.	4	1.8	.....	.....	10 n	.....	.....	0.89	22.6	light rain	P. T. Jenkins.
Punta Rassa, Florida	29.96	761.0	29.97	761.2	76	24.4	85	s.	10	4.5	.....	.....	10 ks	.....	sw.	0.14	3.6	threatening	W. J. Evans.
Red Bluff, California	29.52	749.8	29.88	758.9	64.9	18.3	73	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.61	752.1	29.84	757.9	84	28.9	80	s.	6	2.7	.....	.....	10 s	.....	s.	0	0	cloudy	P. M. Wilson.
Rochester, New York	29.38	746.2	30.04	763.0	54	12.2	55	ne.	10	4.5	.....	3 cs	sk.	.....	.....	0	0	clear	E. W. McGann.
Roseburg, Oregon	29.50	749.3	30.05	763.3	56	13.3	80	calm	0	0	.....	0	8 ks	.....	n.	0	0	cloudy	J. J. Nanry.
Sacramento, California	29.81	757.2	29.88	758.9	59.4	15.2	81	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.25	742.9	29.84	757.9	69.0	20.6	100	n.	3	1.3	.....	.....	10 ks	.....	sw.	0.11	2.8	cloudy	J. H. Webber.
St. Paul, Minnesota	29.26	743.2	30.11	764.8	54.0	12.2	55	e.	3	1.3	.....	3 cs	hz.	.....	.....	0	0	fair	P. F. Lyons
St. Vincent, Minnesota	29.24	742.7	30.09	764.3	50	10.0	77	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.53	648.5	29.75	755.6	57	13.9	44	n.	2	0.9	.....	3 k	0	e.	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.18	741.2	29.86	758.4	77	25.0	97	calm	0	0	.....	.....	9 k	.....	s.	inap.	inap.	cloudy	E. Lane.
San Diego, California	29.90	759.4	29.97	761.2	57.3	14.1	85	nw.	2	0.9	.....	.....	10 s	.....	.....	0.06	1.5	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.38	746.2	30.06	763.5	56	13.3	69	ne.	21	9.4	.....	.....	10 s	.....	.....	0.82	20.8	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.85	758.2	29.89	759.2	62.0	16.7	93	ne.	15	6.7	.....	.....	10 s	.....	ne.	0.10	2.5	cloudy	B. A. Blundon.
San Francisco, California	29.86	758.4	29.92	760.0	54.5	12.5	86	sw.	15	6.7	.....	.....	fg.	.....	sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.20	589.3	29.71	754.6	51	10.6	34	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Savannah, Georgia	29.80	756.9	29.89	759.2	74	23.3	84	sw.	1	0.4	.....	7 cs	fg.	.....	.....	0.08	2.0	fair	H. W. Ford.
Shreveport, Louisiana	29.66	753.4	29.89	759.2	68	20.0	93	calm	0	0	.....	0	1s; fg	.....	.....	0.63	16.0	clear	E. N. Meekins.
Silver City, New Mexico	24.24	615.7	29.74	755.4	50	10.0	40	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. B. Wallace.
Sitka, Alaska	29.84	757.9	29.90	759.4	49.1	9.5	86	sw.	12	5.4	.....	.....	10 n	.....	sw.	0.10	2.5	light rain	J. J. McLean.
Smithville, North Carolina	29.80	756.9	29.84	757.9	73	22.8	82	nw.	6	2.7	.....	4 cs	0	n.	.....	1.16	29.5	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.83	706.9	29.87	758.7	63	17.2	84	sw.	1	0.4	.....	.....	10 s	.....	sw.	0.29	7.4	cloudy	D. Moore.
Springfield, Illinois	29.21	741.9	29.88	758.9	61	16.1	93	ne.	12	5.4	.....	.....	10 n	.....	ne.	3.04	77.2	thund'r st'm	T. B. Jennings.
Springfield, Massachusetts	29.82	757.4	29.95	760.7	58.0	14.4	74	n.	6	2.7	.....	10 k	0	w.	.....	0.10	2.5	cloudy	T. S. Outram.
Springfield, Mo.	28.45	722.6	29.91	759.7	69	20.6	84	calm	0	0	.....	9 c; k	fg.	w.	.....	0.06	1.5	cloudy	J. B. Marbury.
Starkville, Miss.	29.43	747.5	29.90	759.4	77.5	25.3	82	sw.	7	3.1	.....	4 cs	0	.....	.....	0	0	fair	M. J. Wright.
Stockton, Texas	26.85	682.0	29.77	756.1	66.5	19.2	93	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Thatcher's Island, Mass.	29.93	760.2	29.98	761.5	51.8	11.0	98	ne.	7	3.1	.....	.....	10s; fg	.....	.....	0.15	3.8	cloudy	G. Liebmann.
Toledo, Ohio	29.36	745.7	30.04	763.0	56	13.3	62	n.	20	8.9	.....	7 c	0	sw.	.....	0.42	10.7	fair	A. Buell.
Tucson, Arizona	27.48	698.0	29.78	756.4	54	12.2	45	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.52	749.8	29.88	758.9	64	17.8	58	sw.	17	7.6	.....	1 ck	3 s	ne.	sw.	inap.	inap.	fair	J. Daly.
Uvalde, Texas	28.89	733.8	29.83	757.7	78	25.6	91	se.	2	0.9	.....	.....	10 s	.....	se.	0.02	0.5	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.68	753.9	29.93	760.2	72	22.2	64	calm	0	0	.....	4 c	0	sw.	.....	0	0	fair	H. P. Brisbane.
Visalia, California	29.54	750.3	29.91	759.7	60	15.6	75	se.	2	0.9	.....	.....	10 s	.....	nw.	0	0	cloudy	W. L. Seward.
Washington, D. C.	29.76	755.9	29.87	758.7	68.5	20.3	85	n.	6	2.7	.....	0	2 k	.....	ne.	0.20	5.1	clear	B. M. Purssell.
West Las Animas, Colorado	26.03	661.2	29.81	757.2	55.9	13.3	86	ne.	6	2.7	.....	0	9 s	.....	ne.	0.07	1.8	cloudy	F. W. Brandenburg.
Williamsport, Pa.	29.38	746.2	29.98	761.5	60	15.6	60	n.	4	1.8	.....	4 cs	hz.	.....	.....	0	0	fair	B. F. Hough.
Wilmington, N. Carolina	29.77	756.1	29.82	757.4	72	22.2	85	calm	0	0	.....	3 cs	0	.....	.....	0.17	4.3	clear	A. T. Sherwood.
Winnemucca, Nevada	25.54	648.7	29.80	756.9	46	7.8	100	sw.	7	3.1	.....	3 c	0	ne.	.....	0.08	2.0	clear	J. R. Williams.
Yankton, Dakota	28.76	730.5	30.04	763.0	53	11.7	66	e.	9	4.0	.....	0	0	.....	.....	0.02	0.5	clear	J. H. Attfield.
Yuma, Arizona	29.70	754.4	29.84	757.9	59.6	15.3	61	w.	4	1.8	.....	0	2 ks	.....	se.	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.06	560.3	.....	.....	55.0	12.8	72	se.	6	2.7	.....	.....	10 s	.....	w.	0.34	8.6	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W. I.	30.06	763.5	30.07	763.8	81	27.2	91	e.	.....	.....	.....	0	5 k	.....	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	30.01	762.2	30.04	763.0	78	25.6	90	calm	0	0	.....	.....	10 ks	.....	calm	0.45	11.4	cloudy	J. I. Plume.
Havana, Cuba, W. I.	29.97	761.2	30.02	762.5	85	29.4	80	calm	0	0	.....	0	6 ks	.....	.....	0	0	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.03	762.7	30.04	763.0	81.0	27.2	68	n.	2	0.9	.....	7 c	0	w.	.....	0	0	fine	Robert Johnston.
Magua, San Domingo, W. I.	.....	.....	.....	.....	75	23.9	.....	calm	.....	.....	0	1 ks	0	.....	.....	0	0	.....	S. M. Pike.
Paramaribo, S. A.	30.10	764.5	30.11	764.8	79	26.1	78	se.	.....	.....	2	3 c	0	e.	.....	0	0	clear	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.47	748.5	29.93	760.2	80	26.7	85	calm	.....	.....	0	.....	10 s	.....	calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	96	ne.	.....	.....	1	.....	.....	.....	.....	0	0	cloudy	Earl Flint.
Santiago de Cuba, W. I.	30.02	762.5	30.04	763.0	82	27.8	70	calm	0	0	.....	0	0	.....	.....	0	0	clear	Robert Mason.
York Factory, B. A.	30.09	764.3	30.15	765.8	54.0	12.2	93	se.	3	1.3	.....	5 k	0	se.	.....	0	0	fair	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
British Naval.																		
H. M. S. Alert, S. 34° 11′, E. 25° 25′	30.17	766.3	65.2	18.4	74	wsw.			3		2							misty.
H. M. S. Alexandra, N. 31° 32′, E. 29° 42′	29.99	761.7	72	22.2	85	nnw.			2		6	nnw.						d. clouds.
H. M. S. Amethyst, S. 26° 57′ W. 45° 36′	30.42	772.7	67	19.4	86	e.			3		6	e.				2	se.	d. clouds.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.94	760.5	85	29.4		var.			1–2		1							blue sky.
H. M. S. Bacchante, Corfu, Ionian Islands	30.01	762.2	74	23.3	76	ese.			1		0							blue sky.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.22	767.6	64	17.8		calm			0		0							blue sky.
H. M. S. Champion, Honolulu, Sandwich Islands			74	23.3		calm			0		6							d. clouds.
H. M. S. Cleopatra, N. 26° 15′, E. 122° 47′	29.87	758.7	70.5	21.4	100	ne.			4–5		8					4	sw.	d. clouds.
H. M. S. Cockatrice, N. 45° 03′, E. 29° 44′	29.70	754.4	65	18.3		sse.			1		2	sse.				2	sse.	d. clouds.
H. M. S. Coquette, Port Said, Egypt	29.96	761.0	77	25.0		n.			2		0							blue sky.
H. M. S. Cruiser, Corfu, Ionian Islands	29.97	761.2	76	24.4		sse.			2		1	sse.				1	ese.	blue sky.
H. M. S. Diamond, S. 20° 32′, E. 163° 00′	29.92	760.0	74	23.3	83	se.			3–4		8					1	se.	d. clouds.
H. M. S. Dido, N. 11° 29′, W. 62° 45′						ene.			3		0							blue sky.
H. M. Dock Yard, Bermuda, W. I.	30.05	763.3	74.5	23.6	88	se.			2–3		5	se.						d clouds.
H. M. S. Dwarf, S. 25° 16′, W. 57° 45′	29.96	761.0	56	13.3	97	n.			1		10							overcast.
H M. S. Eclipse, S 5° 00′, E. 52° 47′	29.95	760.7	79	26.1		ese.			3–4		3					3	ese.	d. clouds.
H. M. S. Emerald, S. 56° 10′, W. 62° 50′	29.67	753.6	41	5.0	100	nnw.			2–3							4	nnw.	raining.
H. M. S. Euryalus, N. 8° 00′, E. 77° 08′	29.74	755.4	81	27.2	87	sw.			3–4		2	calm				4	wsw.	d. clouds.
H. M. S. Fantome, N. 10° 55′ W. 83° 43′	29.91	759.7	80	26.7		calm			0		6	ne.				1	n.	d. clouds.
H. M. S. Flying Fish, N. 37° 27′, E. 125° 33′	29.73	755.1	62	16.7	83	wsw.			3		2					1	sw.	d. clouds.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.14	765 5	49	9.4	85	e.			0–1		1							blue sky.
H. M. S. Garnet, Montevideo Uruguay	30.43	772.9	55	12.8	87	e.			4		5							squally.
H. M. S. Griffon, N. 48° 14 W. 53° 55′	30.19	766.8	46	7.8	92	se.			1		10							raining.
H. M. S. Inconstant, N. 2° 30′ W. 13° 15′	30.06	763.5	77	25.0	90	sse.			2–3		6	sse.				2	s.	d. clouds.
H. M. S. Iron Duke, N. 33° 37′, E. 135° 40′	29.65	753.1	68	20.0	100	e.			4–5		7	e.						showery.
H. M. S. Kingfisher, N. 9° 25′, W. 84° 30′	29.96	761.0	78	25.6		nw.			2		3							d. clouds.
H. M. S. Lark, S. 10° 37′, E. 162° 30′	29.88	758.9	83.3	28.5		ese.			2		4					1	e.	d. clouds.
H. M. S. Magpie, N. 34° 56′, E. 139° 52′	29.70	754.4	66.2	19.0	94	n.			1		10					1	nnw.	drizzling.
H. M. S. Minotaur, Gibraltar, Meditterranean	30.08	764.0	70	21.1	75	n.			3–5		5							misty.
H. M. S. Nelson, S. 41° 17′ E. 174° 48′	30.22	767.6	56	13.3	93	calm			0		0							blue sky.
H. M. S. Northampton, Halifax, Nova Scotia	29.88	758.9	54	12.2	100	se.			1		10							overcast.
H. M. S. Phœnix, N. 18° 25′, W. 77° 08′	30.02	762.5	82	27.8	95	e.			1		3	e.						d. clouds.
H. M. S. Rambler, Saint Paul de Loanda, Benguela	30.03	762.7	72	22.2	95	nw.			1		0							blue sky.
H. M. S. Rocket, N. 49° 20′, W. 123° 20′	29.94	760.5	50	10.0	100	calm			0		2							d. clouds.
H M. S. Sappho, S. 26° 09′, W. 100° 40′	30.26	768.6	69.5	20.8		e.			3		3	nw.				4	sw.	d. clouds.
H. M. S. Swiftsure, N. 16° 59′, W. 25° 00	30.21	767.3	72.0	22.2	73	ene.			2–3		6	ene.				2	ene.	d. clouds.
H. M. S. Sylvia, S. 22° 30′, W. 38° 52′	30.34	770.6	73.5	23.1	68	se.			3–4		9	sse.				4	sse.	showery.
H. M. S. Tenedos, N. 46° 55′ W. 52° 46′	30.16	766.1	45	7.2	92	s.			2		10					1	s.	foggy.
H. M. S. Thetis, S. 12° 44′ W. 77° 28′	30.00	762.0	64	17.8	89	se.			3		10					2	sse.	overcast.
H. M. S. Triumph, Coquimbo, Chili	30.12	765.0	48	8.9	92	ene.			1		2	calm						d. clouds.
H. M. S. Woodlark, Jask, Persia	29.38	746.2	96.5	35.8	62	w.			2							1	nw.	dense mist.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verd Islands	30.11	764.8	79.7	26.5	84	ne.			2		1					2		blue sky.
Tamega, Macao, China	29.76	756.0	82.4	28.0	83	e.			1		8			6 h'r	6 h'r			d. clouds.
Swedish Naval.																		
Saga, N. 47° 43′, W. 7° 05′	30.28	769.0	58.6	14.8	73	nw.			3		5							d. clouds.
United States Naval.																		
Navy Yard, Pensacola, Fla	29.91	759.7	77	25.0	91	w.	4	1.8			5		nw.	0	0			fair.
Navy Yard, Portsmouth, N. H.	29.98	761.5	52	11.1	93	ene.	4	1.8			10		ne.	0	0			cloudy.
Naval Hospital, Yokohama, Japan*	29.60	751.8	62	16.7	74	ne.			4		10		ne.	0.85	21.6			drizzling.
Adams, Mare Island, Cal	29.90	759.4	56	13.3	94	ssw.			3–4		10		calm					cloudy.
Alaska, Callao, Peru	29.98	761.5	60	15.6	94	calm			0		10			0	0	sm'h		cloudy.
Alert, Yokohama, Japan*	29.62	752.3	65	18.3	94	nne.			3		10		calm			sm'h		drizzling.
Alliance, Hampton Roads, Va	29.82	757 4	72	22.2	95	nne.			2		10			0	0	sm'h		cloudy.
Ashuelot, Yokohama, Japan	29.72	754.9	65	18.3	94	n.			2		10		calm					misty.
Brooklyn, Rio de Janeiro, Brazil	30.41	772.4	70	21.1	95	n.	3	1.3			5		calm	0.06	1.5	sm'h		fair.
Colorado, New York, N. Y.	29.87	758.7	62	16.7	94	ne.	8	3.6			10		ne.	0.07	1.8			misty.
Enterprise, Norfolk, Va*	29.80	756.9	72	22.2	90	ne.			1		10							cloudy.
Essex, S. 36° 22′, W. 55° 01′	30.53	775.4	54	12.2	87	e.			4		2		e.			sm'h	e.	clear.
Franklin, Norfolk, Va	29.81	757.2	71	21.7	95	ne.	7.5	3.4			8		ne.	0	0			fair.
Galena, Alexandria, Egypt	29.99	761.7	74	23.3	95	nnw.			2		0					sm'h		clear.
Independence, Mare Island, Cal	29.92	760.0	55	12.8	93	sw.			6		10		sw.	0	0			cloudy.
Iroquois, San Francisco, Cal*†	29.87	758.7	55	12.8	87	sw.			4		8							cloudy.
Kearsage, Hampton Roads, Va	29.80	756.9	71	21.7	100	nnw.			2		8		n.			sm'h		cloudy.
Lackawanna, Paita, Peru*	29.99	761.7	63	17.2	89	se.			2		10		se.					cloudy.
Lancaster, Cadiz, Spain*	29.97	761.2	79	26.1	62	sse.			6		0			0	0	mod.	se.	clear.
Marion, S. 34° 54′, W. 56° 13′	30.38	771.6	56	13.3	94	e.			4		5?			0	0	sm'h		cloudy?
Michigan, Detroit, Michigan	30.04	763.0	59	15.0	54	se.			1		2		se.					clear.
Minnesota, Newport, R. I.	29.97	761.2	59	15.0	94	ne.	1	0.4			10							raining.
Monocacy, Nagasaki, Japan	29.85	758.2	69	20.6	90	calm			0		10		calm					cloudy.
New Hampshire, Newport, R. I.	29.88	758.9	57	13.9	100	ne.			2		10					sm'h		overcast
Nipsic, N. 39° 52′ E. 18° 30′	29.97	761.2	72	22.2	85	sse.			5		8		sse.			sm'h		cloudy.
Onward, Callao, Peru†	30.12	765.0	59	15.0	94	nw.			1		10		e.			long		misty.
Palos, Kobe, Japan	29.76	755.9	63	17.2	100	w.			1		10		calm					cloudy.
Passaic, Washington, D. C.	29.88	758.9	69	20.6	95	n.			1		5		n.					fair.
Pensacola, Callao, Peru	30.01	762.2	58	14.4	94	nw.	2	0.9			10			0	0	sm'h		cloudy.
Powhatan, Norfolk, Va	29.82	757 4	71	21.7	100	ne.			1		10							cloudy.
Portsmouth, Portsmouth, Eng*†	30.27	768.8	58	14.4	94	nw.			3		10		nw.			sm'h		cloudy.
Quinnebaug, N. 33° 23′ W. 19° 38′	30.27	768.8	65	18.3	78	ne.			6		10		ne.			mod.	ne.	cloudy.
Ranger, San Francisco, Cal*	29.87	758.7	57	13.9	81	sw.			2		10		sw.	0	0	sm'h		overcast.
Richmond, N. 33° 59′ E. 131° 02′*	29.79	756.7	67	19.4	84	nnw.			4		0			0.53	13.5			clear.
Saratoga, Cowes, Eng	30.04	763.0	59	15.0	70	nw.			3		8		nw.	0	0	sm'h		fair.
St. Louis, League Island, Pa	30.13	765.3	64	17.8	89	nne.	15	6.7			0			0.03	0.8			clear.
Swatara, Nagasaki, Japan*	29.66	753.4	67	19.4	79	calm			0		10		calm			sm'h		cloudy.
Tennessee, Fort Monroe, Va	29.83	757.7	73	22.8	90	n.	10	4.5			10							cloudy.
Vandalia, Hampton Roads, Va*	29.75	755.6	71	21.7	100	n.			1		10		n.					cloudy.
Wabash, Boston, Mass	29.95	760.7	56	13.3	94	ne.	2	0.9			10		e.	0.31	7.9			rainy.
Wachusetts, Fort Wrangle, Alaska	29.85	758.2	49	9.4	93	e.			1		10					sm'h		rainy.
Wyoming, Port Royal, S. C.	29.87	758.7	74	23.3	86	calm	0	0			5		nw.	0.03	0.8			fair.
Yantic, Hampton Roads, Va*	29.78	756.4	70	21.1	100	nnw.			2		8							cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
										Upper.	Lower.	Upper.	Lower.					
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Nova Scotian, N. 55° 10′, W. 19° 57′	30.21	767.3	54	12.2	.....	wnw.	.....	.....	3	.....	5	.....	w.	.....	.....	long	e.	fair.
S. S. Prussian, N 51° 07′ W. 32° 34′*	30.10	764.5	54	12.2	.....	ne.	.....	.....	3	.....	7	.....	sw.	0	0	mod.	e.	cloudy.
S. S. Scandinavian, off Boston Light, Mass*	29.84	757.9	50	10.0	.....	n.	.....	.....	2	.....	10	.....	.....	7½h'r	7½h'r	.....	.....	drizzling.
S. S. Waldensian, N. 52° 30′, W. 20° 45′*	30.33	770.4	55	12.8	.....	ene.	.....	.....	3	.....	10	.....	se.	shr's	shr's	light	cross	overcast.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, off Daunt's Light	30.17	766.3	50	10.0	93	w.	.....	.....	6	.....	8	.....	w.	.....	.....	sm'h	w.	
S. S. Indiana, N. 48° 06′, W. 28° 48′†	30.38	771.6	63	17.2	83	nnw.	.....	.....	4	.....	8	.....	nw.	.....	.....	mod.	nw.	fair.
S. S. Lord Clive, N. 49° 56′, W. 25° 24′ *†	30.10	764.5	.....	.....	.....	sw.	.....	.....	1	.....	7	.....	sw.	3 h'r	3 h'r	light	ne.	cloudy.
S. S. Pennsylvania, N. 38° 48′, W. 69° 47′†	29.81	757.2	70	21.1	.....	e.	.....	.....	3	.....	1	.....	e.	.....	.....	sm'h	se.	foggy.
ANCHOR LINE.																		
S. S. Bolivia, N. 50° 13′, W. 27° 18′†	30.03	762.7	52	11.1	.....	nne.	.....	.....	2	.....	5?	.....	nne.	sh'rs	sh'rs	mod.	nne.	cloudy ?
S. S. Ethiopa, N. 41° 00′, W. 52° 50′	30.37	771.4	66.5	19.2	97	s.	.....	.....	3	.....	3	.....	s.	3 h'r	3 h'r	sm'h	.....	clear.
S. S. Utopia, Palermo, Italy†	30.20	767.1	71	21.7	58	ene.	.....	.....	3	.....	1	.....	calm	0	0	.....	.....	clear.
ATLAS LINE.																		
S. S. Ailsa, Savanilla, U. S. C.†	29.92	760.0	81	27.2	91	wsw.	.....	.....	1	.....	5?	.....	ne.	0	0	.....	.....	overcast?
S. S. Alvena, Aux Cayes, Hayti, W. I.†	29.93	760.2	81	27.2	74	e.	.....	.....	2	.....	8	.....	ene.	0	0	light	ese.	fair.
S. S. Alvo, N. 9° 48′, W. 77° 40′	29.94	760.5	.....	.....	.....	var.	.....	.....	6	.....	8	.....	sw.	2 h'r	2 h'r	.....	.....	cloudy.
S. S. Antillas, N. 35° 50′, W. 74° 10′ *†	29.80	756.9	70	21.1	.....	sw.	.....	.....	4	.....	5?	.....	sw.	0	0	h'vy	sw.	cloudy?
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 38° 16′, E. 57° 55′	29.95	760.7	58.5	14.7	97	nw.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	.....	raining.
S. Baroda, N. 4° 50′, E. 94° 07′	29.60	756.9	82.1	27.8	71	sw.	.....	.....	2	.....	6	.....	.....	.....	.....	.....	.....	d. clouds.
British Merchant, N. 8° 17′ W 26° 07′	30.11	764.8	80.6	27.0	87	nne.	.....	.....	1–2	.....	5	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Cipero, N. 22° 25′ W. 50° 32′	30.16	766.1	78.8	26.0	78	sse.	.....	.....	3	.....	7	.....	.....	.....	.....	.....	.....	d. clouds.
Glencairn, S. 19° 10′, W. 2° 20′	30.28	769.1	70	21.1	85	s.	.....	.....	4–5	.....	6	.....	.....	.....	.....	.....	.....	showery.
S. S Gordon Castle, N. 4° 24′, E. 98° 55′	29.79	756.7	86	30.0	72	nnw.	.....	.....	2	.....	2	.....	.....	.....	.....	.....	.....	blue sky.
May Hulse, S. 57° 19′, W. 72° 20′	29.36	745.7	42	5.6	96	nw.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	.....	raining.
S. S. Minho, S. 16° 57′, W. 38° 27′	30.29	769 4	78.2	25.7	86	se.	.....	.....	6	.....	7	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Pole Star, S. 33° 44′, W. 32° 22′	30.35	770.9	60.2	15.7	88	sw.	.....	.....	5	.....	8	.....	.....	.....	.....	.....	.....	blue sky.
CROMWELL LINE.																		
S. S. Hudson, N. 32° 35′, W. 77° 06′†	29.91	759.7	72	22.2	.....	nw.	.....	.....	3	.....	4	.....	nw.	1 h'r	1 h'r	mod.	nne.	hazy.
CUNARD LINE.																		
S. S. Marathon, N. 49° 42′, W. 25° 30′	30.17	766.3	62	16.7	.....	wsw.	.....	.....	1	.....	8	.....	wsw.	4 h'r	4 h'r	sm'h	.....	cloudy.
S. S. Scythia, off Poor Head, Ireland	30.12	765.0	58	14.4	91	nw.	.....	.....	3	.....	6?	.....	wnw.	2 h'r	2 h'r	.....	.....	clear?
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. St. Laurent, N. 41° 41′, W. 47° 40′†	30.57	776.5	62.6	17.0	70	ssw.	.....	.....	4	.....	.....	.....	.....	0	0	sm'h	ssw.	clear.
S. S. Ville de Marseilles, N. 39° 52′, W. 21° 10′*†	30.50	774.7	68	20.0	.....	e.	.....	.....	2	.....	8	.....	e.	1 h'r	1 h'r	sm'h	.....	cloudy.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 46° 57′, W. 32° 00′ *†	30.30	769.6	.....	.....	.....	n.	.....	.....	5	.....	5	.....	nw.	sq'lls	sq'lls	mod.	nnw.	misty.
S. S. Cimbria, N. 48° 57′, W. 23° 31′	30.20	767.1	62	16.7	.....	sw.	.....	.....	3	.....	10	.....	.....	2 h'r	2 h'r	mod.	sw.	covered.
S. S. Gellert, N. 40° 45′, W. 57° 15′	30.35	770.9	71	21.7	.....	sse.	.....	.....	4	.....	5	.....	se.	0	0	mod.	se.	hazy.
S. S. Herder, N. 49° 41′, W. 7° 31′*†	30.30	769.6	68	20.0	.....	nne.	.....	.....	3	.....	3	.....	n.	0	0	long	nnw.	fair.
S. S. Lessing, Hamburg, Germany	29.49	749.1	68	20.0	.....	wsw.	.....	.....	4	.....	8	.....	w.	0	0	.....	.....	cloudy.
S. S. Wieland, N. 42° 13′, W. 50° 21′	30.44	773.2	64.5	18.1	.....	sse.	.....	.....	2	.....	5	.....	s.	1½h'r	1½h'r	sm'h	.....	fair.
INMAN LINE.																		
S. S. City of Berlin, N. 40° 30′ W. 73° —′	29.88	758.9	.....	.....	.....	ene.	.....	.....	3	.....	10	.....	ne.	shr's	shr's	sm'h	.....	overcast.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, Antwerp, Belgium*†	30.05	763.3	57	13.9	.....	w.	.....	.....	4	.....	10	.....	w.	9 h'r	9 h'r	.....	.....	light rain.
S. S. Humboldt, N. 40° 24′, W. 59° 40′*	30.10	764.5	68.2	20.1	90	s.	.....	.....	4	.....	4 k	.....	s.	0	0	4	ssw.	misty.
LEYLAND LINE.																		
S. S. Iberian, N. 42° 51′, W. 46° 55′	30.38	771.6	.....	.....	.....	se.	.....	.....	3	.....	1	.....	e.	0	0	.....	.....	clear.
MALLORY LINE.																		
S. S. Colorado, N. 37° 56′, W. 74° 42′†	29.78	756.4	65	18.3	.....	calm	.....	.....	0	.....	fg.	.....	.....	sh'rs	sh'rs	small	se.	foggy.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, Massachusetts Bay†	29.20	741.7	53	11.7	100	n.	.....	.....	4	.....	.....	.....	.....	0	0	sm'h	.....	
S. S. Hermod, N. 35° 37′, W. 64° 44′*†	29.80	756.9	77.0	25.0	.....	s.	.....	.....	5	.....	4	.....	sse.	0	0	r'gh	s.	clearing.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, mouth of Amazon river, Brazil	29.57	751.1	.....	.....	.....	e.	.....	.....	2	.....	.....	.....	e.	3 h'r	3 h'r	r'gh	e.	clear.
S. S. Glenapp, Rio de Janeiro, Brazil. *†	30.00	762.0	.....	.....	.....	calm	.....	.....	0	.....	6?	.....	calm	0	0	.....	.....	clear?
NATIONAL LINE.																		
S. S. Denmark, N. 40° 26′, W. 70° 18′	29.89	759.2	56	13.3	.....	ene.	.....	.....	4	.....	10	.....	.....	3½h'r	3½h'r	.....	.....	foggy.
S. S. England, N. 40° 27′, W. 69° 16′	29.92	760 0	.....	.....	.....	ne.	.....	.....	4	.....	2	.....	ne.	0	0	sm'h	.....	clear.
S. S. Greece, N. 49° 07′, W. 14° 37′	30.35	770.9	.....	.....	.....	sw.	.....	.....	2	.....	2	.....	sw.	0	0	sm'h	nnw.	
S. S. Holland, N. 48° 33′, W. 18° 01′	30.31	769.9	58	14.4	.....	s.	.....	.....	3	.....	10	.....	.....	mist	mist	sm'h	w.	cloudy.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, N. 34° 16′, W 74° 00′†	29.77	756.1	74	23.3	.....	n.	.....	.....	3	.....	10	.....	n.	6 h'r	6 h'r	g'ntle	ssw.	light rain.
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, N. 25° 35′, W. 79° 50′ *†	30.11	764.8	82	27.8	87	w.	.....	.....	5	.....	5	.....	wnw.	3 h'r	3 h'r	.....	.....	thnd'r st'rm
S. S. City of Washington, N. 19° 52′ W 90° 48′*†	30.05	763.3	86	30.0	.....	se.	.....	.....	4	.....	1	.....	e.	0	0	.....	s.	clear.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Maas, N. 48° 27′, W. 16° 10′*†	30.33	770.4	52	11.1	.....	sw.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	sw.	
NORTH GERMAN LLOYD.																		
S. S. Elbe, N. 48° 56′, E. 23° 17′	30.18	766.6	61.7	16.5	95	w.	.....	.....	4	.....	5?	.....	sw.	0	0	long	nw.	clear ?
S. S. Gen. Werder, N. 46° 50′, W. 31° 01′	30.30	769.6	.....	.....	.....	nw.	.....	.....	5	.....	8	.....	nw.	4 h'r	4 h'r	r'gh	nw.	cloudy.
S. S. Graf Bismarck, N. 35° 32′, W. 13° 45′	30.25	768.3	68.9	20.5	.....	nne.	.....	.....	6	.....	6	.....	nne.	.....	.....	high	nne.	fair.
S. S. Habsburg, N. 43° 17′, W. 43° 12′	30.56	776.2	63.5	17.5	.....	se.	.....	.....	3	.....	0	.....	.....	0	0	mod.	se.	clear.
S. S. Hermann, N. 40° 22′, W. 62° 52′†	29.89	759.2	71.6	22.0	.....	ssw.	.....	.....	6	.....	4	.....	sw.	0	0	mod.	ssw.	fair.
S. S. Leipzig, N. 49° 28′, W. 12° 44′	30.36	771.1	66.0	18.9	68	w.	.....	.....	2	.....	8	.....	.....	0	0	mod.	nnw.	fair.
S. S. Mosel, N. 40° 24′, W. 69° 45′	29.96	761.0	50	10.0	.....	ene.	.....	.....	3	.....	10	.....	ene.	2½h'r	2½h'r	sm'h	.....	rainy.
S. S. Oder, N. 52° 40′, E. 3° 30′	29.83	757.7	51.8	11.0	.....	wnw.	.....	.....	6	.....	6	.....	wnw.	2 h'r	2 h'r	r'gh	nw.	fair.
S. S. Ohio, N. 47° 47′, W. 20° 01′	30.34	770.6	.....	.....	.....	ssw.	.....	.....	3	.....	10	.....	.....	0	0	mod.	ssw.	cloudy.
S. S. Saller, Bremerhaven, Germany	29.59	751.6	51.8	11.0	.....	nw.	.....	.....	6	.....	8	.....	nw.	6 h'r	6 h'r	.....	.....	cloudy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 35° 10′, E. 139° 53′*†	29.86	758.4	64	17.8	100	calm	.....	.....	0	.....	5	.....	w.	sh'rs	sh'rs	sm'h	.....	d. clouds.
S. S. Belgic, Yokohama, Japan†	29.80	756.9	65	18.3	89	n.	.....	.....	1	.....	10	.....	.....	rain	rain	.....	.....	cloudy.
S. S. Gaelic, Hong Kong, China†	29.72	754.9	82	27.8	78	nw.	.....	.....	3	.....	2?	.....	n.	.....	.....	.....	.....	overcast?
S. S. Oceanic, N. 46° 25′, W. 145° 33′*	29.90	759.4	53	11.7	100	s.	.....	.....	6	.....	9	.....	sw.	.....	.....	4	wsw.	misty.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, N. 33° 44′, W. 77° 28′†	29.88	758.9	.....	.....	.....	wnw.	.....	.....	3	.....	3	.....	nw.	0	0	sm'h	.....	clear.
S. S. City of Columbus, New York, N. Y.†	29.99	761.7	.....	.....	.....	ne.	.....	.....	5	.....	10	.....	ne.	6 h'r	6 h'r	.....	.....	overcast.
S. S. Seminole, N. 35° 50′, W. 75° 12′ †	29.82	757.4	70	21.1	75	nnw.	.....	.....	4	.....	10	.....	.....	.....	.....	long	se.	dense fog.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, N. 38° 54′, W. 123° 52′†	29.88	758.9	54	12.2	87	nnw.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	misty.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 36° 47′, W. 122° 12′†	29.92	760.0	54	12.2	93	wnw.	.....	.....	2	.....	10	.....	nw.	.....	.....	mod.	nw.	drizzling.
S. S. Dakota, N. 45° 26′, W. 125° 00′ *†	30.00	762.0	55	12.8	93	nw.	.....	.....	4	.....	8	.....	nw.	.....	.....	light	nw.	foggy.
S. S. Geo. W. Elder, N. 39° 08′, W. 123° 55′†	29.88	758.9	53	11.7	80	n.	.....	.....	4	.....	0	.....	.....	.....	.....	r'gh	w.	clear.
S. S. Idaho, Nanaimo, Vancouver's I'd.†	30.36	771.1	56	13.3	63	nw.	.....	.....	3	.....	1	.....	n.	.....	.....	sm'h	.....	clear.
S. S. Orizaba, N. 35° 09′, W. 120° 43′†	30.04	763.0	58	14.4	88	se.	.....	.....	3	.....	fg	.....	ssw.	0	0	mod.	nw.	foggy.
S. S. State of California, Portland, Oregon.†	30.03	762.7	47	8.3	?	calm	.....	.....	0	.....	2	.....	se.	.....	.....	.....	.....	clear.
S. S. Victoria, San Francisco, Cal †	29.71	754.5	52	11.1	93	calm	.....	.....	0	.....	2	.....	.....	.....	.....	sm'h	.....	fair.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. City of Australia, N. 22° 07′, W. 156° 10′	30.14	765.5	73	22.8	85	e.	.....	.....	5	.....	5?	.....	e.	0	0	long	e.	clear ?
S. S. City of New York, N. 33° 50′, W. 131° —′†	30.29	769.4	62	16.7	94	n.	.....	.....	4	.....	1	.....	e.	0	0	mod.	n.	clear.
S. S. City of Pekin, N. 25° 56′, E. 121° 35′ †	29.91	759.7	72	22.2	95	ne.	.....	.....	3	.....	10	.....	n.	light	light	light	ne.	rainy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	Upper. From.	Lower. From.	Inch.	Mill.			
PACIFIC MAIL STEAMSHIP COMPANY.—CONTINUED.																		
S. S. City of Rio de Janeiro, Panama, Panama*†	30.10	764.5	81	27.2	83	nw.			2		7		nw.	0	0			clearing.
S. S. City of Sydney, Sydney, N. S. W.†	30.10	764.5	61	16.1	71	w.			3		2		w.	0	0	sm'h		fair.
S. S. City of Tokio, N. 42° 50′, E. 177° 42′†	29.24	742.7	50	10.0	72	sw.			3		8		s.	0	0	light	s.	fine.
S. S. Clyde, N. 13° 35′, W. 89° 49′†	29.91	759.7	81	27.2	78	nne.			2		5		ne.	0	0	long	ssw.	clear.
S. S. Colima, N. 22° 56′, W. 109° 02′†	29.88	758.9	79	26.1	78	w.			5		0			0	0	mod.	wsw.	clear.
S. S. Colon, Aspinwall, Panama†	29.93	760.2	80	26.7		s.			2		9		s.	2 h'r	2 h'r	mod.	nne.	cloudy.
S. S. Granada, N. 22° 40′, W. 106° 22′†	29.89	759.2	79	26.1	95	calm			0		0			0	0	light	wsw.	clear.
S. S. South Carolina, Off Puercas Point, Costa Rica†	30.01	762.2	80	26.7	82	n.			2		5		n.	rain	rain	sm'h		fair.
S. S. Zelandia, Sydney, N. S. W.	30.15	765.8	54	12.2	74	nw.			2		0					sm'h		fine.
QUEBEC STEAMSHIP COMPANY.																		
S. S. Muriel, N. 28° 00′, W. 66° 38′	29.85	758.2	80	26.7		sw.			3		0			0	0	sm'h		fair.
S. S. Bermuda, N. 8° 39′, W. 62° 40′†	30.07	763.8	81	27.2		ese.			4		7		se.	½ h'r	½ h'r	g'tl	e.	cloudy.
RED STAR LINE.																		
S. S. Rhynland, N. 40° 21′, W. 69° 50′	29.81	757.2	52	11.1	93	ene.			4		10		ene.	0.3	8.	light	ene.	rainy.
S. S. Switzerland, N. 49° 05′ W. 17° 24′†	30.34	770.6				ssw.			2		10		ssw.	0	0	long	nw.	misty.
S. S. Vaderland, N. 49° 49′, W. 38° 09′	30.09	764.3	56	13.3	81	nw.			4		2		nw.	3 h'r	3 h'r	mod.	w.	clear.
ROTTERDAM LINE.																		
S. S. W. A. Scholten, N. 41° 12′ W. 51° 43′	30.31	769.9	63.0	17.2	88	se.			1		4		se.	0	0	sm'h		
STATE LINE.																		
S. S. State of Florida, Larne, Ireland	29.71	754.6	54	12.2		wsw.			7		10		sw.	2 h'r	2 h'r	r'gh	w.	raining.
S. S. State of Georgia, N. 54° 26′, W. 13° 53′†	30.29	769.4	52	11.1		nw.			5		10		w.			sl't	wnw.	overcast.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 44° 33′ W. 45° 35′†	30.68	779.3	56.0	13.3	42	sse.			3		2		sse.	0	0	long	sse.	clear.
WARREN LINE.																		
S. S. Iowa, N. 51° 55′, W. 7° 46′*†	30.25	768.3	54	12.2		w.			4		8		w.	1 h'r	1 h'r	sm'h		cloudy.
WHITE STAR LINE.																		
S. S. Baltic, N. 51° 06′ W. 12° 48′†	30.39	771.9	56	13.3	81	nw.			3		9		nw.	0	0	con.	nw.	d. clouds.
S. S. Britannic, N. 40° 32′, W. 68° 37′†	29.87	758.7	51	10.6	93	n.			3		10		n.	4 h'r	4 h'r	sm'h		raining.
S. S. Celtic, N. 50° 27′, W. 19° 48′†	30.29	769.4	58	14.4	94	sw.			3		10			0	0	sm'h		foggy.
S. S. Germanic, N. 49° 37′, W. 23° 30′†	30.28	769.1	59	15.0		wsw.			2		6		wsw.			con.	w.	d. clouds
WILSON LINE.																		
S. S. Romano, N. 43° 49′, W. 40° 25′	30.47	773.9	60	15.6		calm			0		2			0	0	sm'h		clear.
MISCELLANEOUS.																		
Bg. Abbie Clifford, N. 17° 36′ W. 72° 44′*†	30.10	764.5	82	27.8		e.			4		2		e.	0	0	mod.	e.	fair.
Schr. Addie Fuller, Off Cape Henry, Va†	29.90	759.4	66	18.9	100	calm			0		fg.			0	0		ese	foggy.
Bk. Adelaide, N. 36° 25′, W. 75° 20′*†.	29.90	759.4	70	21.1		nnw.			3				n.	0	0	long	ssw.	dense fog.
Schr. Ajax, Pensacola, Fla†	29.98	761.5				nw.			1		1		nw.	0	0			clear.
Bk. Alpha, Crooked Id, Passage, W. I†	30.02	762.5	86	30.0		se.			1		1		se.	0	0	sm'h		fair.
Schr. Annie R. Lewis, Mobile, Ala†	30.03	762.7	78	25.6		wsw.			1		0			0	0			clear.
Bk. Annie Thorman, S. 9° 42′, W. 33° 30′	30.13	765.4	80.1	26.7	77	ese.			5	2 cs			ese.	2 h'r	2 h'r	mod.	ese.	clear.
S. S. Antonio Lopez, Cadiz, Spain	29.99	761.7	80	26.7	50	ese.			6		0			0	0			clear.
Schr. Asa Eldridge, N. 25° 30′ W. 82° 08′†	30.00	762.0				s.			3		8		sw.	1 h'r	1 h'r	irreg.	sw.	squally.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.57	776.5	74	23.3		e.			1		1		ene.	3 h'r	3 h'r			clear.
S. Annie M. Smull, N. 20° 53′, E. 117° 22′*†	29.80	756.9				se.								0	0			
Bk. Bergenseren, N. 40° 05′ W. 48° 30′†	30.38	771.7	68	20.0		sse.			4				sse.	0	0	3	sse.	fair.
Bk. Bremen, N. 51° 32′ E. 2° 00′						nw.			8		2		nw.	rain	rain	cross		fair.
Schr. C. R. Flint, Off Tampico Bar, Mexico†	30.04	763.0	82	27.8		w.			1		2		se.	0	0	mod.	e.	clear.
Schr. Edith R. Seward, N 35° 20′, W. 75° 05′*†	29.83	757.7	73	22.8		nnw.			1		7		wnw.	0	0	sm'h	sse.	cloudy.
S. E. J. Spicer, N. 46° 52′, W. 27° 50′†	30.32	770.1				nw.			5		9		nw.	8 h'r	8 h'r	mod.	nw.	
Bk. Essex, N. 7° 38, W. 28° 48′*†	30.09	764.3	88	31.1		e.			1		3		se.	0	0		sse.	
S. Exporter, S 39° 00′, E. 59° 02′*†	30.53	775.4				var.			3		1		w.	0	0		w.	fine.
Bk. Freya, N. 45° 42′, W. 27° 47′			59	15.0		wsw.			5		8		w.	2 h'r	2 h'r	mod	w.	squally.
S. Grecian, N. 16° 26′, E. 113° 18′*†	29.80	756.9	83	28.3		e.			5		3		se.	0	0	sm'h	sw.	clear.
Bk Hattie G. McFarland, Sydney, Cape Breron*†	29.96	761.0	51	10.6		sw.			3		10		sw.	8 h'r	8 h'r			stormy.
S. Hedwig, N. 39° 21′, W. 51° 20′	30.40	772.2	71.8	22.1	87	ese.			5		4		ese.	0	0	long	nw.	fine.
Bk. Horace Scudder, N. 33° 30′ W. 77° 40′.†	29.87	758.7	72	22.2		wsw.			1		10?			8 h'r	8 h'r		light	clear?
S. Ismir, S. 21° 35′ W 36° 45′†	30.33	770.4				sse.			3		8		s.			r'gh		dull.
Schr. James Slater, N. 11° 44′, W. 46° 02′*†	30.35	770.9	82	27.8		ese.			3		2		se.	c	o	long	se.	
Schr. Jennie N. Huddle, Gull Id, Long Island Sound†	30.07	763.8	58	14.4	100	e.			1		10		ne.					heavy rain.
Schr. John L. Thomas, Albuquerque Ids., C. A*†	30.00	762.0				ne.			3		3		e.	0	0			fair.
Bkt. Josephine, N. 31° 54′, W. 73° 28′†	30.00	762.0	79	26.1	82	wsw.			5		8		wsw.	2 h'r	2 h'r	long	wsw.	sprinkling.
Light House Tender, Laurel, Key West, Florida†	30.14	765.5	80	26.7		se.			4		5		se.	4 h'r	4 h'r			fair.
S. Minnie N. Gerow, N. 42° 00′, W. 52° 00′*†	30.31	769.9				ssw.			2		fg.					sm'h	e.	dense fog.
S. M. P. Grace, N. 28° 04′, W. 41° 05′*	30.18	766.6	78	25.6		e.			3				e.	0	0	sm'h	se.	
S. S. Nebo, St. John's N. S*†	30.15	765.8				nnw.			3		0			0	0			clear.
S. Paramita, S. 50° 08′, W. 62° 55′†	29.87	758.7	46	7.8		wnw.			6		fg		wnw.	0	0	sharp	w.	clear.
Bk. Peppina, N. 44° 50′ W. 3° 38′†	30.26	768.6	60	15.6	82	nw.			5		2		n.	0	0	mod.	wnw.	fair.
S. S. Ponca, S. 15° 20′, W. 38° 18′†	30.14	765.5	79	26.1		sse.			6		9		sse.	4 h'r	4 h'r	h'vy	sse.	cloudy.
Bg. Potomac, N. 27° 20′, W. 59° 57′*†	30.05	763.3				e.			3				ese.	0	0	sm'h		fine.
Bk. Princessen, N. 54° 54′ N. 10° 55′†	29.41	747.0	57	13.9		w.			6		8			9 h'r	9 h'r	sm'h		squally.
Bk. Rosebud, S. 16° 46′, W. 31° 26*†	30.20	767.1	77	25.0	86	se.			4-5		5		se.	sh'rs	sh'rs	sm'h		fine.
S. Salisbury, S. 35° 07′, E. 79° 00′*	29.65	753.2	55.6	13.1	91	s.			8		6		s.	4 h'r	4 h'r	hv'y	sse.	fair.
Bk. Stella, N. 21° 17′, W. 157° —′*	29.95	760.7	73.4	23.0	91	ene.			4		8		e.	0	0	mod.	ene.	
Bg. Teneriffe, N. 27° 00′, W. 72° 40′	29.93	760.2				sw.			2		8		w.	0	0	sm'h		fair.
Bk. Truro, Havre, France*†	30.04	763.0				wnw.			4		4		wnw.	0	0			fair.
U. S. F. C. S. S. FishHawk, Havre de Grace, Md†	30.06	763.5	70	21.1	90	n.			5		7		n.	0.28	7.1			cloudy.
Yacht Vega, N. 24° 07′, W. 67° 43′*†	30.28	769.1	80	26.7		s.			1		1		s.	0	0		ese.	fair.
S. S. Victoria J. Peed, Salamanca Id, U. S. C.						calm			0		10							
Bk. Vincenzo Accame, N. 39° —′ W. 34° 30′†	30.71	780.0	71.6	22.0		calm			0									
Schr. Viola Reppard, Brunswick, Ga†	29.79	756.7	77	25.0		wnw.			1		10		wnw.	8 h'r	8 h'r			cloudy.
Bk. Warden Law, N. 41° 15′, W. 50° 35′*	30.37	771.4				sse.			2		2		s.	0	0	cross		fair.
Bk. Wm. Wilcox, N. 4° 50′, W. 25° 30′*†	30.25	768.3	78	25.6		sse.			1		10		s.	12 h'r	12 h'r	mod	se.	squally.

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



UNITED STATES OF AMERICA.

SIGNAL SERVICE U.S. ARMY

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 12, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours			29.97	761.3	72.1	22.3	89	e.			5		0			0	0	clear	Moiroud.
Algiers			30.07	763.8	71.2	21.8	63	ene.			4		5			0	0	cloudy	Nicolas.
La Calle			30.06	763.6	70.2	21.2	59	ene.			4		4			0	0	cloudy	Fonfréde.
Tunis			30.05	763.2															Jacques.
Saida			30.11	764.7	91.0	32.8	23	ssw.			4		6			0.138	3.5	cloudy	Perés.
Tebessa			30.15	765.7	75.2	24.0	33	se.			2		1			inap.	inap.	very fair	Derché.
Geriville					90.0	32.2	39	s.			4		9			0.102	2.6	covered	Lonchamp.
Laghouat			30.13	765.2	91.4	33.0	39	nw.			2		1			inap.	inap.	very fair	Abraham.
Biskra			30.12	765.1	90.3	32.4	34	nw.			1		5			0	0	cloudy	Malau.
Australian.																			
Melbourne, Victoria	29.80	756.9	29.89	759.2	46.8	8.2	90	wsw.	3	1.3			1			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.45	747.9	29.98	761.6	65.3	18.5	80	e.			2		10			0.157	4.0	raining	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.17	740.8	29.93	760.3	53.6	12.0	69	wsw.	8.7	3.9			10			0.177	4.5		Dr. Wierzbiski.
Eperies	28.97	735.7	29.84	757.8	55.9	13.3	86	nw.			2		10 n			0.362	9.2		Julius Mikolik.
Gratz	28.75	730.2	29.97	761.3	64.0	17.8	69	se.			2		2			0.079	2.0		Andreas Rospini.
Hermannstadt	28.48	723.4	29.89	759.2	59.9	15.5	66	nw.			6		10			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.65	727.7	29.97	761.2	60.6	15.9	53	nw.			1		6			0.020	0.5		The Staff.
Lemberg	28.80	731.5	29.76	755.8	64.4	18.0	60	nw.			2		10			0.012	0.3		Dr. T. Stanecki.
Pola	29.92	760.0	30.03	762.8	71.8	22.1	57	sse.			3		1			0	0		I. R. Hydrographic Office.
Szathmar	29.38	746.2	29.83	757.6	61.2	16.2	77	w.			4		9			0.256	6.5	hailing	Joseph Midlinszky, S. J.
Szegedin	29.69	754.2						nw.			4		3			0.425	10.8		Karl Stancel.
Trieste	29.91	759.6	30.01	762.2	72.7	22.6	54	sw.			1		4			0.035	0.9		Royal Academy.
Vienna	29.30	744.3	30.01	762.3	59.7	15.4	43	w.			4		6			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.55	750.6	29.65	753.1	44.4	6.9	83	nw.	35	15.6			10			0.155	3.9	raining	W. Boswell
Armagh, Observatory	29.73	755.1	29.98	761.5	50.3	10.2	74	nnw.	9	4.0			7					d. clouds	S. Oall.
Bidston, Liverpool Obs'y			29.83	757.7	51.9	11.1	56	wnw.	29	13.0			6					d. clouds	John Hartnup.
Bolton, Sharples	29.26	743.2	29.80	756.9	50.7	10.4	64	wnw.	12	5.4			8					overcast	Thomas Mackereth, A.S.
Bradford, Yorkshire	29.35	745.5	29.75	755.6	54.4	12.4	49	nw.			4		6			0.01	0.3	d. clouds	J. McLandsborough, F. R
Bridgetown, Barbadoes																			Corpl. J. Surgenor, A. H. C.
Cardington																			John McLaren.
Chatham, School M. E.	29.66	753.4	29.79	756.7	55.6	13.1	59	nne.			1		6					d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.74	755.4	29.97	761.2	53.9	12.2	60	nnw.			4		6					squally	The Staff.
Fort Napier, Natal	27.87	707.9	30.09	764.3	73.0	22.8	43	calm			0		0					blue sky	Pvt. Lane, A.H.C
Free Town, Sierra Leone	29.63	752.6	29.86	758.4	86.0	30.0	79	nw.			1		8					d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	30.02	762.5	30.07	763.8	71.5	21.9	83	e.			5		7					gloomy	Cpl. O. Baldwin.
Glasgow, Observatory	29.61	752.1	29.81	757.2	50.3	10.2	48	wnw.			3		10 k					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.62	752.3	29.78	756.4	57.1	13.9	57	nw.			1		5					d. clouds	The Staff.
Guernsey	29.64	752.8	29.94	760.5	56.4	13.6	97	wnw.			2		10					drizzling	A. Collenette, F. M. S.
Kew, Observatory	29.77	756.1	29.81	757.2	55.8	13.2	40	nw.	14	6.3			6					d. clouds	The Staff.
Leicester, Museum	29.57	751.1	29.83	757.7	51.0	10.6	64	nw.			3		6					d. clouds	J. C. Smith.
Malta, Mediterranean	29.96	761.0	30.04	763.0	74.4	23.6	68	n.					0					blue sky	I. H. Whysall.
Nassau, Bahamas	30.04	763.0	30.09	764.3	80.0	26.7	76	w.			3		10					overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.30	744.2	29.83	757.7	49.9	9.9	71	n.			6		5					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.60	751.8	29.82	757.4	52.8	11.6	50	wnw.			5		8					squally	The Staff.
Plymouth	29.86	758.4	29.93	760.2	59.9	15.5	55	nw.			3		2					d. clouds	John Merrifield.
Sandwick Manse, Orkneys			29.66	753.4	45.2	7.3	84	nw.	45	20.1			9			blank	blank	d. clouds	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.69	754.1	29.75	755.6	84.6	29.2	46	sw.			1		1			blank	blank	blue sky	W. H. Lyne.
Sheffield	29.48	748.8	29.76	755.9	58.1	14.5	51	nw.			5		8			0.04	1.0	overcast	W. F. Cooper.
Silloth Rectory	29.74	755.4	29.77	756.1	57.2	14.0	52	nnw.			4		7			0	0	d clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.81	757.2	47.0	8.3	85	nw.	14	6.3			10					threatening	J. New.
Stratfield Turgiss	29.63	752.6	29.85	758.2	57.9	14.4	57	nw.			3		8					squally	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.94	760.5	29.96	761.0	58	14.4	53	nw.			6		4					d. clouds	W. Newcombe.
Valencia, Observatory	30.10	764.5	30.13	765.3	51.5	10.8	70	nnw.	23	10.3			6			blank	blank	squally	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.04	763.0	30.09	764.3	52	11.1	81	n.	5	2.2		0	3 s		ne.	0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	30.07	763.8	30.13	765.3	54	12.2	72	n.	5	2.2		0	0			0	0	clear	G. A. Blair.
Father Point, Quebec*	30.16	766.1	30.19	766.8	47	8.3	86	w.	15	6.7		0	2 s		w.	0.05	1.3	clear	J. McWilliams.
Halifax, N. S*	29.93	760.2	30.06	763.5	55	12.8	100	nw.	9	4.0		2 k	2 k	w.	w.	0.030	0.8	fair	A. Allison.
Kingston, Ontario*	29.90	759.4	30.23	767.8	55	12.8	80	calm	0	0		0	0			0	0	clear	A. P. Knight, M. A.
Montreal, Quebec*	30.04	763.0	30.25	768.3	54	12.2	61	calm	0	0		0	0			0	0	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.52	749.8	30.21	767.3	56	13.3	69	se.	2	0.9		0	0			0	0	clear	Rev. R. Mosley.
Port Dover, Ontario	29.51	749.5	30.20	767.1	54	12.2	74	ne.	4	1.8		0	0			0	0	clear	H. Morgan.
Port Stanley, Ontario	29.51	749.5	30.16	766.2	57	13.9	67	e.	6	2.7		0	0			0	0	clear	M. Payne.
Quebec, Quebec*	29.92	760.0	30.25	768.3	46	7.8	71	w.			1	0	0			0	0	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.75	755.6	30.21	767.3	45	7.2	80	e.	2	0.9		0	0			0	0	clear	W. H. McIntyre.
Saugeen, Ontario*	29.49	749.0	30.20	767.1	52	11.1	72	s.	3	1.3		0	0			0	0	clear	
St. Andrews, N. B.	30.06	763.5	30.11	764.8	53	11.7	66	n.	7	3.1		0	0			0	0	clear	
Sydney, C. B*	29.94	760.5	30.00	762.0	48	8.9	96	n.	8	3.6			10 n			1.04	26.4	cloudy	T. C. Hill, C. E
Toronto, Ontario*	29.85	758.2	30.23	767.8	58	14.4	53	calm	0	0		0	0			0	0	clear	Magnetic Observatory.
Yarmouth, N. S*	30.02	762.5	30.09	764.3	53	11.7	86	nw.	5	2.2		0	0			0	0	clear	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.81	731.8	30.26	768.6	55.0	12.8	68					0	0			0	0	clear	Wm. Wylie.
St. Johns, Newfoundland	30.03	762.7	30.28	769.1	63	17.2	94	sw.	3	1.3			10 n			0.80	20.3	showery	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.22	767.6	30.25	768.3	65.0	18.3	83	w.	7.3	3.3		0	4 s			0	0		John Duthie.
Cape Town, C. G. H. Obs'y	30.19	766.8	30.23	767.8	63.8	17.7	82	nw.	10	4.5		0	4			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Chinese (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai.	29.84	758.0	29.87	758.6	69.6	20.9	84	sse.	11.6	5.2			7					very cloudy	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.55	750.5	29.60	751.7	57.7	14.3	60	w.	18.	8.			8						Oversergent Fischer.
Fanöe	29.52	749.7	29.54	750.2	53.8	12.1	78	w.			6		8						Overloerer Lauridsen.
Godthaab, Greenland	29.90	759.4	29.94	760.5	39.6	4.2	90	s.			4		10			0.654	16.6		S. Kleinschmidt.
Stykkisholm, Iceland	30.07	763.8	30.11	764.9	42.8	6.0	67	e.			2		5						A. O. Thorlacius.
Thorshavn	29.89	759.1	29.92	760.0	42.3	5.7	67	n.	25	11			7						Overloerer Bergh.
Vestervig	29.38	746.3	29.47	748.6	53.4	11.9	68	wsw.			4		3						Loearer Oesterbol.
French.																			
Agen, Normal School	29.49	749.0	30.14	765.5	63.3	17.4	67	wnw.			1	2 c	k		nw.	0.12	3.		M. Labroue, Director.
Alençon, Normal School	29.44	747.7	29.99	761.7	59	15	91	sw.			2		kn	ne.	ne.	0	0		M. Nicot, Director.
Arras, Engineer School	29.74	755.5	30.00	762.0	55.4	13	71	w.			8		kn		w.	0.177	4.5		M. Fénéon, Command't.
Avignon, Normal School	29.80	756.8	29.87	758.8	71.6	22	43	nnw.			2		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.46	748.3	30.02	762.4	59.2	15.1	58	w.			2		10		w.	0.465	11.8	covered	M. Saillard, Director.
Beauvais, Normal School	29.63	752.5	29.89	759.2	60.3	15.7	55	wsw.			3		5		nw.	0.126	3.2	cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.16	740.6	30.07	763.8	60.4	15.8	59	s.			2	c	0	e.		inap.	inap.		M. Gobin, Director.
Bordeaux, Observatory	29.85	758.2	30.11	764.7	64.0	17.8	52	wsw.			1		5			0	0	cloudy	M. Rayet, Director.
Bourges, Normal School	29.52	749.7	30.07	763.7	59.0	15.0	58	w.			4		n		w.	0	0		M. Postel, Director.
Brest, Naval Observatory	29.74	755.5	29.99	761.7	53.2	11.8	93	ne.			2		10		ne.	0.008	0.2	raining	M. de Kermaree, Dir.
Caen, Normal School	29.82	757.4	29.89	759.3	54.3	12.5	80	nnw.			2		8		nnw.	0.047	1.2	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.59	751.5	29.90	759.5	58.1	14.5	54	w.			4		8	w.	sw.	0	0	very cloudy	M. Jadot, Director.
Charleville, Normal School.	29.36	745.7	29.87	758.8	50.7	10.4	76	sw.			3		10			0	0	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.72	729.5	30.05	763.3	65.1	18.4	37	w.			2		8			0	0	¾ covered	M. Alluard, Director.
Cluny, Normal School	29.23	742.4	30.06	763.4	61.9	16.6	50	w.			2		4		w.	0.169	4.3		M. de Villemontée, Dir.
Commercy, Normal School.	29.12	739.6	29.98	761.4	56.3	13.5	63	wsw.			4		ckn	wsw.	wsw.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.56	699.9	30.02	762.6	67.6	19.8	41	w.			1	1 c	0	sw.		0.055	1.4		M. Jeangirard, Director.
Gréasque, du Rhone	28.91	734.3	30.00	762.1	70.9	21.6	18	nw.			3		1		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.29	744.0	30.05	763.2	64.6	18.1	55	wsw.			1		0			0.319	8.1	clear	M. Ablard, Director.
Guéret, Normal School	28.55	725.1	30.11	764.9	55.4	13.0	50	nw.			3		10		nw.	0	0	covered	M. Rivoire, Director.
Lamballe, Normal School.	29.69	754.2	29.97	761.2	53.6	12.0	83	sw.			3		10		sw.	0.20	5.	covered	M. Ollitrault, Director.
Lescar, Normal School	29.61	752.2	30.17	766.3	68.0	20	41	s.			1		2			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	29.95	760.6	30.05	763.2	59.0	15.0	84	wsw.			2		10		sw.			raining	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.04	737.7	30.09	764.3	62.4	16.9	52	e.			1		5 n		w.	0.043	1.1	½ covered	M. André, Director.
Mans, Normal School	29.70	754.3	30.00	762.1	59.0	15	56	w.			4		5		nw.	0	0	cloudy	M. Piboen, Director.
Marseille, Observatory	29.76	755.9	30.03	762.7	68.9	20.5	52	nw.			4		0			0	0		M. Stephan, Director.
Montlouis	24.91	632.6	29.75	755.6	55.9	13.3	48	e.	16.8	7.5			6	w.		0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.94	760.4	30.06	763.6	70.9	21.6	77	nw.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.22	742.1	30.00	762.0	54.3	12.4	61	s.			3		kn		w.	0	0		M. Hasse, Director
Nantes, Observatory	29.90	759.4	30.06	763.5	60.3	15.7	61	wsw.			2–3		10 n		wnw.	0.024	0.6	rainy	M. Larocque, Director.
Perpignan, Observatory	30.00	761.9	30.10	764.6	71.8	22.1	36	se.	11.2	5.0			1		s.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit.	21.33	541.8			37.9	3.3		sw.			1		1		sw.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.05	737.8	30.10	764.4	67.3	19.6	36	n.			1		0			0	0	clear	M. Taillen.
Puy de Dôme Obs'y, Summit	25.20	640.0			38.8	3.8	79	w.			3		8		w.	0.059	1.5	foggy	M. Alluard, Director.
Rochefort, Naval Obs'y	30.09	764.2	30.12	765.0	64.4	18.0	100	w.			3		5		w.	0.55	14.	½ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.85	758.2	30.06	763.6	61.9	16.6	92	wsw.			3		8		nw.	0	0	very cloudy	M. Mouillot, Director.
Rodez, Normal School	28.05	712.4	30.19	765.7	58.6	14.8	63	sw.			1		k		sw.	0	0		M. Seger, Director.
Rouen, Normal School	29.85	758.2	29.90	759.4	55.0	12.8	76	wsw.			3		8	w.		0.055	1.4	very cloudy	M. Brotier.
Saint Maur, Observatory	29.76	756.0	29.93	760.2	58.5	14.7	64	wsw.			2		10		w.	0.024	0.6		M. Renou, Director.
Toulouse, Observatory	29.47	748.5	30.20	767.0	69.4	20.8	69	n.			1		1	w.		0	0	clear	M. Baillaud, Director.
Tours	29.83	757.6	30.00	762.1	62.2	16.8	56	w.			1		10	sw.	w.	0	0	covered	M. de Tastes.
Versailles, Observatory	29.43	747.6	29.92	760.0	56.8	13.8	73	w.			6					0.299	7.6		Dr. A. Bergny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.65	753.0	29.94	760.4	58.3	14.6	63	wsw.			2		10		w.	0.020	0.5	sprinkling	M. Marié Davy, Director
German.																			
Bamberg	29.06	738.1	29.91	759.7	53.6	12	70	sw.			3	0	6 k		w.	0.04	1.	raining	Prof. Dr. Hoh.
Berlin	29.70	754.3	29.87	758.7	61.0	16.1	44	sw.			3		8			0.154	3.9		Prof. Dr. Arndt.
Breslau	29.41	746.9	29.93	760.3	56.5	13.6	44	wnw.			4		6			0.154	3.9		Royal University Obs'y.
Carlsruhe	29.53	750.0	29.97	761.1	57.6	14.2	59	sw.			5		10	sw.		0.630	16.0		Albert Senz.
Cassel	29.04	737.7	29.76	755.8	59.7	15.4	52	s.			6		7	sw.		0.142	3.6		Dr. H. Möhl.
Frankfort-on-the-Main	29.52	749.7	29.88	758.9	58.5	14.7	51	wsw.			3		10			0	0		Physical Society.
Friedrichshafen	28.58	725.9	30.00	762.0	58.6	14.8	61	w.			6		5	w.		0.468	12.4		Wilhelm, Chief Tel.
Hamburg	29.58	751.4	29.68	753.8	54.1	12.3	79	sw.			6		10			0.020	0.5	rainy	E. Preller.
Kiel	29.60	751.8	29.61	752.2	54.0	12.2	78	sw.			5		10			0.67	1.7		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.44	747.7	29.85	758.3	60.1	15.6	51	sw.			5		9	wsw.		0.252	6.4		H. Leppig, Asst.
Magdeburg	29.58	751.4	29.77	756.1	60.3	15.7	52	sw.			4		10 ks		sw.	0.020	0.5		Dr. Assmann.
Memel	29.70	754.4	29.75	755.6	58.8	14.9	55	wsw.			7	0	5 k						Issermann.
Munich	28.17	715.4	30.03	762.7	61.0	16.1	38	nw.			3		4	sw.		0.051	1.3		Central Station
Neufahrwasser	29.77	756.1	29.78	756.5	59.7	15.4	43	w.			2		8	w.		0.055	1.4		A. Lothes.
Neustadt, Palatinate	29.39	746.5	29.91	759.8	58.5	14.7	51	sw.			3		10	w.		0	0		Dickuether.
Stuttgart	29.01	736.8	29.89	759.3	57.6	14.2	55	w.			5		9	w.		0.193	4.9		Prof. Dr. Schoder.
Wustrow	29.65	753.2	29.68	753.9	56.3	13.5	98	s.			6	0	8 s			0.051	1.3		Profs. Brandes & Reimer
Greek.																			
Athens	29.47	748.4			87.6	30.9		sw.			3.0		0			0	0	clear	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.26	743.1	29.31	744.4	89.4	31.9	80	wsw.	43.0	19.2			7		w.	0	0	misty	
Deesa	28.81	731.7	29.26	743.2	95.4	35.2	56	ssw.	15.9	7.1			7	sw.	sw.	0	0	d. clouds	
Bombay	29.45	748.1	29.49	749.0	79.7	26.5	81	w.	23.0	10.3			10		sw.	0.90	22.9	overcast	
Poona, Yarrowda	27.63	701.8	29.48	748.8	74.6	23.7	82	sw.	28.0	12.5			9	wsw.	wsw.	0.29	7.4	d. clouds	
Trichinopoly	29.41	746.9	29.68	753.9	87.3	30.7	43	nw.	5.0	2.2			6			0	0	d. clouds	
Bellary	28.12	714.3	29.58	751.2	81.3	27.4	55	w.	15.8	7.1			10	sw.		0	0	gloomy	
Belgaum	27.06	687.2	29.60	751.8	70.1	21.2	91	wsw.	18.0	8.0			10		sw.	0.76	19.3	showery	
Lahore	28.62	726.8	29.33	745.0	91.1	32.8	56	s.	10.2	4.6			3			0	0	d. clouds	
Roorkee	28.49	723.6	29.36	745.7	89.8	32.1	56	e.	2.2	1.0			8			0	0		
Agra	28.77	730.8	29.33	744.9	82.2	27.9	87	ne.	4.4	2.0			8		ne.	0.40	10.2	d. clouds	
Nagpur	28.34	720.0	29.37	746.0	80.3	26.8	90	calm	8.1	3.6			10		w.	2.05	52.1	overcast	
Jubbulpore	28.04	712.3	29.39	746.4	76.3	24.6	92	sw.	3.1	1.4			10		s.	5.48	139.2	overcast	
Lucknow	28.92	734.6	29.29	744.0	85.1	29.5	70	nne.	5.1	2.3			8	s.		0.02	0.5	d. clouds	
Allahabad	28.95	735.4	29.25	743.0	93.7	34.3	52	e.	4.5	2.0			9	w.		0	0	d. clouds	
Patna	29.15	740.3	29.33	744.9	85.0	29.4	81	sse.	9.6	4.3			6	sse.	sse.	0	0	d. clouds	
Hazaribagh	27.28	693.0	29.20	743.1	77.3	25.2	76	e.	12.0	5.4			10			0.96	24.4	thund'r st'm	
Cuttack	29.23	742.4	29.31	744.4	81.0	27.2	82	sw.	2.1	0.9			10			0.93	23.6	drizzling	
Calcutta, Alipore	29.24	742.8	29.26	743.3	80.4	26.9	94	sse.	5.0	2.2			10			0.63	16.0	overcast	
Dhubri	29.22	742.3	29.34	745.2	84.2	29.0	82	calm	8.0	3.6			10			0.02	0.5	overcast	
Chittagong	29.29	744.0	29.38	746.2	78.6	25.9	99	se.	9.3	4.2			10					drizzling	
Sibsagar	29.08	738.6	29.40	746.8	89.0	31.7	70	ne.	2.5	1.1			4		sw.	0.08	2.0	blue sky	
Jeypore	27.92	709.2	29.32	744.8	86.7	30.4	63	ese.	5.8	2.6			6		e.	0.61	15.5	d. clouds	
Zanzibar, Africa	30.02	762.5			82.2	27.9	61	s.	8.7	3.9			8		se.	0	0	d. clouds	
Italian.																			
Udine	29.60	751.9	30.00	762.1	67.3	19.6	65	se.	1.3	0.6			7			0.370	9.4		Prof. Giovanni Clodig.
Milan	29.45	748.1	29.96	760.9	73.8	23.2	25	sw.	5.6	2.5			3	wnw.		0	0		Prof. Schiaparelli.
Padua	29.87	758.8	29.98	761.5	71.2	21.8	51	s.	3.1	1.4			4	sw.		0.024	0.6		Prof. Dott. Lorenzoni.
Moncalieri	29.05	737.9	29.93	760.2	72.7	22.6	27	sse.	4.9	2.2			2			0	0		Prof. P. F. Denza.
Genoa	29.82	757.5	30.01	762.3	69.1	20.6	59	se.	9.4	4.2			0			0.043	1.1		Prof. G. M. Garibaldi.
Mondovi	28.03	711.9	29.88	759.0	70.0	21.1	47	w.			4		3	ssw.		0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	29.95	760.7	30.00	761.9	70.9	21.6	63	se.	9.4	4.2			0			0.067	1.7		Prof. Luigi Guidi.
Florence	29.74	755.5	29.99	761.8	74.1	23.2	45	w.			2		7			0.118	3.0		Prof. Costantino Pitter.
Leghorn	29.88	759.0	29.97	761.1	72.3	22.4	60	wsw.	2.5	1.1			2			0	0		Prof. P. Monte.
Rome	29.88	759.0	30.05	763.3	75.6	24.2	51	sw.	8.1	3.6			2			0	0		Prof. P. S. Ferrari.
Lecce	29.80	759.8	30.04	763.0	74.3	23.5	46	nne.	18.1	8.1			0			0	0		Prof. C. de Giorgi.
Cosenza	29.16	740.7	30.02	762.6	77.7	25.4	71	wsw.	4.3	1.9			0			0	0		Prof. D. Conti.
Cagliari	29.84	758.0	30.03	762.8	74.7	23.7	11	wnw.			6		1			0	0		Prof. A. Pacinotti.
Palermo	29.85	758.2	30.10	764.5	72.9	22.7	54	ne	9.8	4.4			0			0	0		Prof. G. Ciacciatore.
Syracuse	30.00	761.9	30.04	763.0	70.5	21.4	71	nne.	5.6	2.5			1	nne.		0	0		Prof. Vincenzo Gulliano
Sub-series.																			
Naples, S. R	29.54	750.3	30.05	763 3	73.0	22.8	57	ssw.	7.4	3.3			2	ssw.		0	0		Prof. T. Brioschi.
Stelvio	22.15	562.7			40.3	4.6	40	sw.			4		4			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.20	563.8			41.9	5.5	60	n.			6		5			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.91	759.7	29.94	760.5	58.1	14.5	84	sw.	5.9	2.6		0	0			0.028	0.7	clear	K. Ogawa.
Hakodate	29.88	758.9	29.89	759.2	57.2	14.0	90	w.	3.0	1.3			8		w.	0	0	cloudy	
Hiroshima, I. M. Obs'y	29.91	759.7	29.93	760.2	65.8	18.8	86	sw.	0.2	0.1		10 ck;cs	0			0	0	overcast	I. Sogawa.
Kanazawa	29.81	757.2	29.91	759.7	62.1	16.7	90	nw.	2.4	1.1		ck	4 s			0	0	fair	S. Endo.
Kioto	29.79	756.6	29.96	761.0	67.0	19.4	81	se.					10 s			0	0	cloudy	M. Tojima.
Kochi	29.98	761.5	30.00	762.0	69.9	21.1	85	ese.	3.0	1.3			10 s		n.	0	0	cloudy	K. Kusunose.
Nagasaki, I. M. Obs'y	29.81	757.2	30.01	762.2	64.1	17.8	88	calm	0	0		0	7 s			0	0	cloudy	S. Takehayashi.
Nemuro	29.79	756.6	29.86	758 4	50.8	10.4	87	wsw.	18.0	8.0		10	0			0	0	cloudy	
Niigata	29.96	761.0	30.00	762.0	59.3	15.2	90		0.7	0.3		ck	2 s			0	0	fair	M. Morita.
Nobiru	29.93	760.2	29.95	760.7	61.1	16.2	77	nnw.	12.6	5.6		0	6 s			0	0	fair	H. Midzushina.
Supporo					54.3	12.4	93	se.	9.0	4.0			1			0	0	clear	
Tokei Obs'y, Yeddo	29.89	759.2	29.96	761.0	66.6	19.2	91	ese.	4.0	1.8		0	7 s			0	0	cloudy	The Staff.
Wakayama	29.91	759.7	29.96	761.0	68.0	20.0	86	calm	0	0		10 ck	0			0	0	cloudy	Y. Kuwamuea.
MAURITIUS																			
Mauritius Observatory	29.95	760.7	30.14	765.5	72.9	22.7	63	ese.	16.5	7.4		0	2 k;n			0	0	clear	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.70	602.0	29.92	760.0	64.4	18.0	87	sw.				0	8 k			0	0	fair	Prof. Vicente Fernandez.
Leon	24.31	617.5	29.89	759.2	64.8	18.2	81	w.			1	5 c	0	sw.	e.	inap.	inap.	½ clouded	Prof. M. Leal.
Mazatlan	29.04	752.8	29.90	759.4	77.0	25.0	98	e.	0.9	0.4		4 cs	2 ks	sw.		0	0	hazy	F. Quijano, C. E.
Mexico, Central Obs'y	23.12	587.3	30.12	765.0	58.1	14.5	77	calm	0	0		0	8 k			0	0	clear	The Staff.
Morelia	24.17	614.0	30.21	767.4	63.0	17.2	66	ne.			3	2	1	s.	s.	inap.	inap.		M. Tena, M. D.
Pabellon, Aguascalientes	23.94	608.1	29.85	758.2	65.3	18.5	90	w.			1				e.	0	0		M. V. de Leon, M. E.
Puebla, Catholic Institute	23.43	595.2	30.14	765.5	55.4	13.0	95	calm	0	0		0	0			0.236	6.0	clear	Prof. P. Spina.
San Luis Potosi	24.23	615.6	30.12	765.0	64.6	18.1	71	e.				1	5	w.	w.	0.158	4.0	½ clouded	G. Barroeta, M. D.
Zacatecas	22.60	574.0	30.14	765.6	61.0	16.0	75	e.	4.9	2.2		9 ck	0	s.		0.133	3.4	cloudy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.77	756.2	29.77	756.2	54.0	12.2		w.			4					0.185	4.7		
Groningen	29.60	751.8	29.65	753.2	50.7	10.4		sw.			2					0.343	8.7		
Helder	29.68	753.8	29.68	753.8	50.4	10.2		w.			4					0.177	4.5		
Hellevoetsluis	29.74	755.5	29.74	755.5	53.4	11.9	75	wnw.			3					0.917	23.3		
Utrecht	29.68	753.9	29.73	755.1	55.6	13.1	90	sw.			2		5			0.917	23.3	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.22	742.3	29.29	743.9	56.1	13.4	71	s.	4	2			8			0.252	6.4		
Brono	29.42	747.2	29.46	748.2	56.1	13.4	44	e.	18	8			2			0	0		
Christiania	29.13	739.9	29.28	743.6	50.7	10.4	95	e.	0	0			10			1.287	32.7	raining	
Gjesvær	29.83	757.7	29.85	758.3	39.7	4.3		ne.			2		10						
Lodingen	29.61	752.1	29.66	753.3	50.2	10.1	37	e.			4		7			0	0		
PORTUGUESE.																			
Angra, Azores					62.6	17.0	85	sse.	11.9	5.3			4			0	0		Dr. J. A. Sampaio.
Campo Major	29.01	736.9	29.96	760.9	85.3	29.6	26	se.	8.7	3.9			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.03	762.8	30.12	765 0	68.0	20.0	64	wsw.	6.9	3.1			9			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.68	753.8	30.02	762.6	79.5	26.4	23	nne.	10.5	4.7			0			0	0		The Staff.
Ponta Delgada, Azores	30.30	769.5	30.37	771.3	70.5	21.4	55	ne.	10.5	4.7			4			0	0		
Saint Paul de Loando	29.80	756.9	30.00	762.0	74.1	23.4	89	n.	0.7	0.3			0			0	0		
Serra da Estrella	25.39	644.8	30.00	761.9	61.3	16.3	37	ne.	8.1	3.6			3			0	0		
RUSSIAN.																			
Akmolinski	29.02	737.2	30.08	763.9	65.5	18.6	33	calm	0	0		0	0			0	0		Major K. Lasarew.
Archangel	29.30	744.1	29.32	744.6	49.8	9.9	94	e.	9	4			10			0.197	5.0		Capt. Sseliwerstow.
Astrakhan	29.97	761.3	29.89	759.2	84.7	29.3	45	ese.	2	1		0	0			0	0		Capt. Wisganow.
Barnaul	29.56	751.2	30.06	764.1	45.5	7.5	59	nnw	18	8			10			0.047	1.2		Meteorological Obs'y.
Dorpat	29.31	744.4	29.54	750.4	59.7	15.4	75	w.	9	4			10 k			0	0		Observatory.
Ekaterinburg	28.85	732.7	29.75	755.7	79.3	26.3	38	w.	18	8		ck	7 ks			0	0		Meteorological Obs'y.
Kasan	29.47	748.5	29.72	754.9	76.8	24.9	59	ssw.	18	8			9 k			0.020	0.5		Observatory.
Kertch	29.79	756.6	29.81	757.1	70.5	21.4	72	sse.	13	6		0	0			0	0		Lagorio & Sastyrex.
Kieff	28.89	733.8	29.52	749.7	57.4	14.1	100	wnw.	7	3			10 n			0.488	12.4	raining	Observatory.
Lugan	29.54	750.2	29.73	755.1	85.8	29.9	35	ssw.	13	6			8			0	0		Meteorological Obs'y
Moscow	29.13	740.0	29.58	751.4	68.9	20.5	55	sw.	7.8	3.5			10 s						Meteorological Obs'y.
Nikolaiev	29.63	752.7	29.71	754.5	85.1	29.5	45	s.	45	20		0	0			0.043	1.1		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.32	744.6	29.40	746.8	58.1	14.5	91	se.	11	5			10			0	0		Lieut. Iwanow.
Pekin, China	29.61	752.2	29.76	755.8	75.4	24.1	41	se.	7	3		0	2 k			0	0		Physical Observatory
St. Petersburg	29.45	747.9	29.46	748.3	59.0	15.0	73	w.	9	4			10 kn			0.059	1.5	raining	Central Physical Obs'y.
Semipalatinsk	29.51	749.5	30.16	766.1	59.7	15.4	34	w.	2	1		0	0			0	0		Major Lasarew.
Tashkend, Laboratory	28.11	714.0	29.56	750.9	87.1	30.6	39	calm	0	0			0						Teich, A. M.
Tiflis	28.49	723.6	29.82	757.4	86.5	30.3	41	se.	4	2		0	1 ks			0	0		Physical Observatory
Vladivostock	29.76	755.8			50.4	10.2	95	se.	18	8			10 n						
Warsaw	29.36	745.8	29.78	756.4	58.8	14.9	40	nw.	13	6			10 ks						Astronomical Obs'y
Wilna	29.29	744.0	29.70	754.3	63.1	17.3	51	wnw.	13	6			7			0	0		Berg, Assistant.
SPANISH.																			
Barcelona, Met. Obs'y	29.94	760.4	30.04	763.0	72.3	22.4	52	s.	4.3	1.9			0			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.09	764.3	30.15	765.8	70.3	21.3	50	nw.	2.7	1.2		0	0			0	0	clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.15	689.7	30.04	762.9	67.6	19.8	50	ne.	7.4	3.3			0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.85	707.4	29.99	761.7	77.4	25.2	30	sw.	8.1	3.6		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.94	760.5	30.09	764.3	73.8	23.2	63	ene.	4.7	2.1		0	4			0	0	clouds	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.18	741.2	30.06	763.4	67.6	19.8	56	n.	15.0	6.7			1			0	0	almost clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	29.96	760.9	30.02	762.5	77.3	25.2	85	sw.	1.1	0.5		6 c;cs	0	ssw.		0.610	15.5	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.79	756.6	29.85	758.1	81.3	27.4	84	ssw.	5.1	2.3			10 n		ese.	0.433	11.0	light rain	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.88	758.9	29.98	761.4	77.7	25.4	46	e.	29.3	13.1		0	1		e.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.98	761.4	30.07	763.7	82.8	28.2	76	calm	0	0		1 s	2 k	se.	se.	0	0	clear	Manuel Maese.
Tuguegarao, Philippine Id's	29.73	755.1	29.86	758.4	76.5	24.7	94	nw.	2.2	1.0		3 cs	5 kn		n.	0.16	4.1	dull	José L. Yrastorza.
SWEDISH																			
Haparanda	29.54	750.3	29.58	751.3	36.0	2.2	100	ne.			6		10			0	0		
Umea	29.42	747.3	29.47	748.6	43.9	6.6	74	ne.			6		8			0	0		
Hernosand	29.34	745.2	29.39	746.5	42.8	6.0	82	ne.			4		10			0.118	3.0		
Stockholm	29.21	742.0	29.39	746.5	56.1	13.4	62	wsw.			6		10			0.146	3.7		
Visby	29.43	747.6	29.49	749.1	57.6	14.2	57	w.			4		0			0.079	2.0		
Sub-series.																			
Upsala	29.26	743.1	29.34	745.3	50.0	10.0	95	nw.	8.5	3.8			10		w.	0.114	2.9	raining	S. G. Fineman.
SWISS.																			
Geneva	28.73	729.8	30.13	765.3	63.9	17.7	42	nw.			2					0	0	clouds	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
SCOTTISH.																			
Monach Lt			29.96	761.0	47	8.3	92	nw.			3		10			0.1	3.	cloudy	J. Youngclause.
TURKISH.																			
Constantinople			29.82	757.3	88.9	31.6	35	sw.	7.8	3.5			0			0	0		The Observatory.
Valona			30.12	765.1	77.5	25.3		nw.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.78	756.4	77.0	25.0	68	wnw.			1	0	0			0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.18	766.6	30.26	768.6	63.7	17.6	44	n.	4	1.8		0	0			0	0	clear	J. C. Barnes.
Alpena, Michigan	29.54	750.3	30.19	766.8	51	10.6	52	sw.	1	0.4		0	sk.			0	0	clear	Jas. J. Fitzgerald.
Atlanta, Georgia	28.86	733.0	30.01	762.2	72.0	22.2	82	e.	10	4.5		9 k	0	e.		0.30	7.6	cloudy	H. Hall.
Atlantic City, New Jersey	30.18	766.6	30.19	766.8	61	16.1	84	n.	5	2.2		5 c	0			0	0	fair	Jas. M. Watson.
Augusta, Georgia	29.82	757.4	30.01	762.2	76	24.4	82	e.	6	2.7		6 c	0			0	0	fair	John Healy.
Baltimore, Maryland	30.16	766.1	30.21	767.3	66	18.9	45	ne.	8	3.6		2 c	0	w.		0	0	clear	Robert Seyboth.
Barnegat, New Jersey	30.17	766.3	30.19	766.8	59.0	15.0	87	n.	9	4.0		6 c	0	nw.		0	0	fair	Chas. F. Merritt.
Behring Island, Behring Sea	29.69	754.1	29.71	754.6	39.2	4.0		sw.	23	10.3			10 s			0	0	cloudy	Cyrus Cramer.
Bismarck, Dakota	28.02	711.7	29.77	756.1	61	16.1	78	se.	10	4.5			10 s		sw.	0	0	cloudy	B. E. Light.
Boise City, Idaho	27.04	686.8	29.82	757.4	50	10.0	80	n.	2	0.9			10 s		calm	0.16	4.1	cloudy	O. B. Cole.
Boston, Massachusetts	30.05	763.3	30.20	767.1	57.0	13.9	57	ne.	7	3.1		0	0			0.01	0.3	clear	M. McCarty.
Brownsville, Texas	29.81	757.2	29.85	758.2	81.0	27.2	91	se.	4	1.8		0	2 s		se.	0	0	clear	Wm. Finn.
Buffalo, New York	29.47	748.5	30.21	767.3	57	13.9	53	e.	4	1.8		0	hz.			0	0	clear	G. C. Schaeffer.
Burlington, Vermont	29.95	760.7	30.24	768.1	54.0	12.2	66	ne.	3	1.3		0	0			0	0	clear	G. O. Schaeffer.
Cairo, Illinois	29.58	751.3	29.97	761.2	69.7	20.9	88	ne.	3	1.3			10 s			1.42	36.1	threatening	W. H. Glendenon.
Campo, California	27.40	695.9	29.88	758.9	44	6.7	93	w.	2	0.9		0	0			0.02	0.5	clear	W. H. Ray.
Camp Thomas, Arizona	27.12	688.8	29.75	755.6	55	12.8	47	w.			1	0	0			0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.14	765.5	30.16	766.1	62	16.7	87	ne.	13	5.8		3 c	2 k		ne.	0	0	fair	A. K. Alderson.
Cape May, New Jersey	30.15	765.8	30.18	766.6	60	15.6	75	ne.	8	3.6		2 k	0	w.		0	0	clear	W. Bolton.
Cedar Keys, Florida	29.97	761.2	29.99	761.7	75	23.9	82	ne.	4	1.8		6 ck	1 ks	ne.		0.06	1.5	fair	F. W. Mixer.
Champaign, Illinois	29.19	741.4	29.98	761.5	57.0	13.9	57	e	10	4.5			10 ks		se.	0.10	2.5	cloudy	L. A. Welsh.
Charleston, S. Carolina	29.96	761.0	30.01	762.2	79	26.1	77	e.	14	6.3		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.21	741.9	30.04	763.0	66.5	19.2	84	e.	12	5.4			10 s		e.	1.04	26.4	threatening	D. O'Donoghue.
Chattanooga, Tennessee	29.22	742.2	30.03	762.7	74.0	23.3	64	calm	0	0		1 cs	sk.			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	23.98	609.1	29.72	754.9	50.6	10.3	91	s.	2	0.9		0	0			0.04	1.0	clear	E. McGovern.
Chicago, Illinois	29.38	746.2	30.07	763.8	52.0	11.1	83	ne.	9	4.0		7 c	0			0	0	fair	J. Mitchell.
Chincoteague, Virginia	30.15	765.8	30.17	766.3	62	16.7	87	ne.	10	4.5		5 k	0	e.		0	0	fair	V. P. Temple.
Cincinnati, Ohio	29.38	746.2	30.03	762.7	62.5	16.9	72	ne.	5	2.2		7 c;ck;k	0	s;se;e		0.30	7.6	fair	R. B. Watkins.
Cleveland, Ohio	29.39	746.5	30.12	765.0	58.8	14.9	46	se.	10	4.5		1 c	0			0	0	clear	J. B. Newlin.
Coleman City, Texas	28.10	713.7	29.85	758.2	76	24.4	90	se.	14	6.3		3 cs	6 s	n.	s.	0	0	cloudy	L. Dorman.
Columbus, Ohio	29.21	741.9	30.05	763.3	60	15.6	65	ne.	2	0.9		7 ck	0	w.		0	0	fair	D. Cuthbertson.
Concho, Texas	27.95	709.9	29.82	757.4	76	24.4	37	s.	8	3.6			10 s		s.	0	0	cloudy	W. W. McConihe.
Davenport, Iowa	29.42	747.3	30.06	763.5	57	13.9	64	e.	5	2.2			10 ks		e.	0	0	cloudy	R. R. Martin.
Dayton, Washington T'y	28.21	716.5	29.95	760.7	49.2	9.6	44	sw.	6	2.7		0	0			0.02	0.5	clear	H. Clifford.
Deadwood, Dakota	25.22	640.6	29.65	753.1	53.5	11.9	86	calm	0	0		10 c	0			0	0	cloudy	G. W. Scott.
Decatur, Texas					76	24.4	69	se.	7	3.1		0	5 s		se.	0	0	fair	D. J. Carr.
Delaware Breakwater, Del.	30.17	766.3	30.19	766.8	58	14.4	100	ne.	6	2.7		2 c	2 s	w.		0	0	fair	F. C. Pratz.
Denison, Texas	29.13	739.9	29.91	759.7	75.4	24.1	90	s.	2	0.9		5 ck	0			0	0	fair	J. McGlone.
Denver, Colorado	24.67	626.6	29.71	754.6	54.0	12.2	86	s.	5	2.2		0	hz		calm	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.14	740.1	30.02	762.5	59	15.0	75	e.	4	1.8			10 s		e.	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.44	747.8	30.13	765.3	59.0	15.0	65	e.	10	4.5		1 c	0	calm		0	0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.33	694.2	29.84	757.9	63	17.2	90	s.	19	8.5		0	6 s		s.	0.03	0.8	fair	E. A. Thomas.
Dubuque, Iowa	29.39	746.5	30.08	764.0	54.2	12.3	62	e.	2	0.9		2 cs	0	n.		0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.39	746.5	30.08	764.0	51	10.6	72	sw.	1	0.4		hz.	sk.			0	0	dense smoke	N. B. Conger.
Eagle Pass, Texas	29.07	738.4	29.86	758.4	80.0	26.7	91	se.	4	1.8			10 s			0.01	0.3	cloudy	F. Belford.
Eagle Rock, Idaho	25.15	638.8	29.74	755.4	37	2.8	75	n.	8	3.6		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	30.08	764.0	30.15	765.8	50.5	10.3	75	n.	13	5.8		0	0			0	0	clear	D. C. Murphy.
El Paso, Texas	26.16	664.5	29.75	755.6	61	16.1	29	nw.	6	2.7		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.45	748.0	30.17	766.3	60	15.6	50	e.	6	2.7		0	0			0	0	clear	Peter Wood.
Escanaba, Michigan	29.49	749.0	30.14	765.5	55	12.8	69	calm	0	0		3 c	0	w.		0	0	fair	C. Dill.
Fort Apache, Arizona	24.96	634.0	29.70	754.4	37	2.8	58	e.	1	0.4		0	0			0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	26.92	683.8	29.71	754.6	60	15.6	84	sw.	11	4.9			10 s		sw.	0	0	cloudy	B. O. Lenoir.
Fort Bennett, Dakota	28.23	717.0	29.77	756.1	63	17.2	90	se.	13	5.8		3 k	3 s	calm	calm	0	0	fair	A. Pritchard.
Fort Benton, Montana																			G. W. Davis.
Fort Buford, Dakota	27.79	705.9	29.75	755.6	57	13.9	69	e.	7	3.1		0	0			0	0	clear	A. H. Bell.
Fort Custer, Montana	26.62	676.1	29.68	753.9	60	15.6	87	sw.	3	1.3			10 s		calm	0	0	cloudy	V. Verge.
Fort Davis, Texas	25.10	637.5	29.71	754.6	69	20.6	55	calm	0	0		0	0			0	0	clear	J. Williams.
Fort Elliott, Texas	27.15	689.6	29.82	757.4	66	18.9	66	ne.	8	3.6		0	0			inap.	inap.	clear	W. J. Cundall.
Fort Grant, Arizona	25.15	638.8	29.69	754.1	52	11.1	59	nw.	3	1.3		0	0			0	0	clear	Robert C. Lord.
Fort Keogh, Montana	27.22	691.4	29.65	753.1	57	13.9	83	se.	1	0.4		7 c	0	s.		0	0	fair	W. B. Stockman.
Fort Macon, North Carolina	30.06	763.5	30.07	763.8	68	20.0	78	ne.	20	8.9		0	hz.		calm	0	0	clear	W. W. Thomas.
Fort McKavett, Texas	27.63	701.8	29.83	757.7	77	25.0	62	s.	8	3.6			10 s			0	0	cloudy	J. E. Thatcher.
Fort Missoula, Montana	26.60	675.6	29.86	758.4	59	15.0	87	s.	1	0.4			10 n		s.	0.41	10.4	light rain	J. H. Jones.
Fort St. Michaels, Alaska	29.71	754.6	29.74	755.4	46	7.8	92	n.	6	2.7		0	8 ks		n.	0	0	fair	A. P. Leavitt.
Fort Shaw, Montana	26.17	664.7	29.74	755.4	52	11.1	80	w.	9	4.0		7 k	0	w.		0.01	0.3	fair	A. L. Mathews.
Fort Sill, Indian Territory	28.68	728.5	29.88	758.9	74.2	23.4	88	e.	9	4.0		4 k	0			0	0	fair	T. Cleary.
Fort Smith, Arkansas	29.49	749.0	29.95	760.7	71.4	21.9	84	w.	8	3.6			10 s		w.	0	0	cloudy	J. B. Campbell.
Fort Stevenson, Dakota	27.98	710.7	29.78	756.4	60	15.6	72	se.	4	1.8			10 s		s.	0	0	cloudy	W. Burrows.
Fort Verde, Arizona					55.1	12.8	47	sw.			1	0	0			0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.34	618.2	29.72	754.9	44.0	6.7	86	w.	2	0.9		5 c;k	0			0	0	fair	T. M. Ambler.
Fredericksburg, Texas	28.18	715.8	29.86	758.4	75	23.9	76	s.	3	1.3			10 ks		s.	0	0	cloudy	H. S. Miles.
Galveston, Texas	29.88	758.9	29.93	760.2	80	26.7	87	s.	10	4.5		1 c	9 ks		se.	0	0	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.51	749.5	30.16	766.1	57.0	13.9	69	ne.	2	0.9		0	7 k		w.	0	0	fair	W. A. Reid.
Hatteras, North Carolina	30.08	764.0	30.10	764.5	64	17.8	78	ne.	22	9.8		7 k	hz.	ne.		0	0	fair	R. M. Crawford.
Helena, Montana	25.63	651.0	29.75	755.6	58	14.4	64	w.	12	5.4		9 k	0	w.		0.30	7.6	cloudy	S. Wheaton.
Henrietta, Texas	28.92	734.6	29.90	759.4	77.5	25.3	90	se.	6	2.7		3 ck	0			0	0	clear	J. W. Byram.
Huron, Dakota	28.55	725.2	29.89	759.2	59.1	15.1	81	se.	14	6.3		9 cs	0	s.		0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.24	742.7	30.02	762.5	58	14.4	70	ne.	4	1.8		3 k	6 s	se.	se.	0.19	4.8	cloudy	O. Schutze
Indianola, Texas	29.88	758.9	29.91	759.7	79.0	26.1	91	se.	7	3.1		3 cs	2 k	w.	s.	inap.	inap.	fair	I. A. Reed.
Jacksboro, Texas	28.74	730.0	29.86	758.4	75	23.9	90	se.	5	2.2		0	6 s		se.	0	0	fair	J. P. Sherry.
Jacksonville, Florida	29.93	760.2	29.97	761.2	79	26.1	74	s.	1	0.4		3 cs	0			0.17	4.3	clear	J. W. Smith.
Keokuk, Iowa	29.36	745.7	30.00	762.0	60.0	15.6	70	ne.	6	2.7			10 s		ne.	0.03	0.8	cloudy	F. Z. Gosewisch.
Key West, Florida	29.98	761.5	30.00	762.0	81.0	27.2	74	sw.	12	5.4			9 s			0.30	7.6	cloudy	R. H. Paxton.
Kittyhawk, North Carolina	30.11	764.8	30.13	765.3	61	16.1	84	ne.	21	9.4		2 c	0	n.		0	0	clear	E. A. Beals.
Knoxville, Tennessee	29.00	736.6	30.01	762.2	69	20.6	86	ne.	4	1.8		4 ck	2 s	w.		inap.	inap.	fair	J. A. Cody.
La Crosse, Wisconsin	29.32	744.7	30.08	764.0	58	14.4	53	e.	2	0.9		2 k	4 s	s.		0	0	fair	S. C. Emery.
La Mesilla, New Mexico	26.01	660.6	29.73	755.1	51.7	10.9	58	calm	0	0		0	0			0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.12	739.6	29.99	761.7	63	17.2	90	calm	0	0			10 s			0.35	8.9	cloudy	A. W. Browne.
Lewiston, Idaho	29.10	739.1	29.92	760.0	57	13.9	69	se.	3	1.3		0	0			0.06	1.5	clear	W. Bell.
Little Rock, Arkansas	29.61	752.1	29.92	760.0	77	25.0	90	calm	0	0		0	0			0	0	clear	W. U. Simmons.
Los Angeles, California	29.66	753.4	30.05	763.3	56.2	13.4	74	s.	2	0.9		0	4 s		sw.	0	0	fair	E. F. Kubel.
Louisville, Kentucky	29.42	747.3	29.97	761.2	65	18.3	78	ne.	3	1.3		2 cs	6 k;sk	ne.		0.55	14.0	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.49	749.0	30.16	766.1	71.0	21.7	57	e.	4	1.8			10 ks			0	0	cloudy	W. R. Bushby.
Madison, Wisconsin	29.11	739.4	30.10	764.5	53	11.7	66	e.	7	3.1		2 c	0	w.		0	0	fair	C. A. Shaw.
Marquette, Michigan	29.40	746.7	30.12	765.0	61	16.1	30	sw.	16	7.2		5 c	sk.	sw.		0	0	fair	J. Gilligan.
Memphis, Tennessee	29.62	752.3	29.95	760.7	80	26.7	69	se.	4	1.8		3 cs	0			0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.39	746.5	30.13	765.3	53	11.7	72	n.	3	1.3		9 c	0			0	0	cloudy	W. Line.

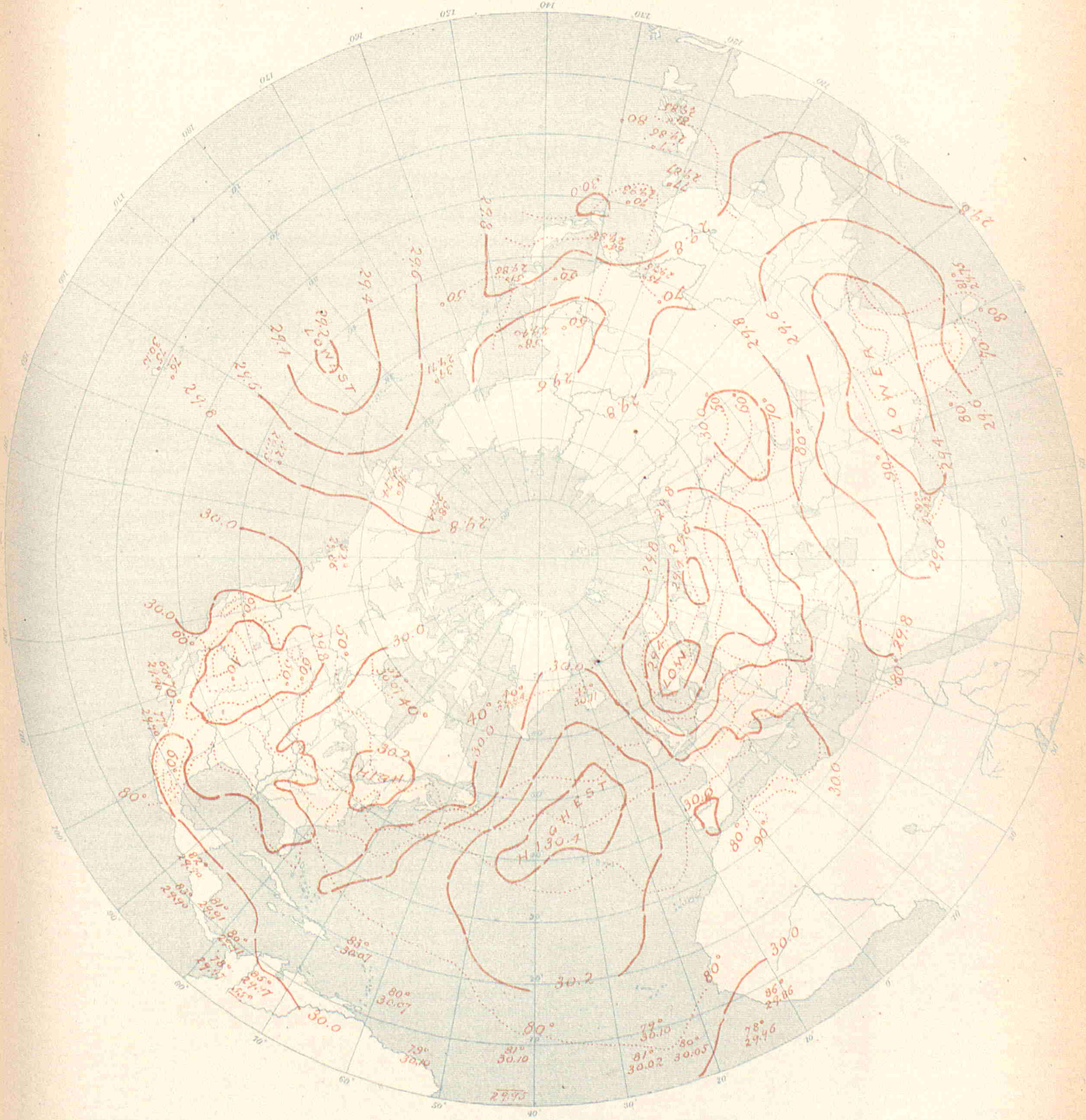
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Mobile, Alabama	29.92	760.0	29.96	761.0	77.5	25.3	87	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. D. Paxton.
Montgomery, Alabama	29.74	755.4	29.97	761.2	70.7	21.5	91	nw.	2	0.9	.....	0	4 ks	.....	n.	0.65	16.5	fair	J. B. McLaughlin.
Moorhead, Minnesota	28.97	735.8	29.94	760.5	56	13.3	74	se.	10	4.5	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.10	739.1	30.10	764.5	64.0	17.8	58	e.	3	1.3	.....	0	6 s	.....	.....	0	0	fair	J. O. Sprigg, jr.
Mt. Washington, N. H.	23.94	608.1	30.06	763.5	32.5	0.3	36	n.	28	12.5	.....	0	0	.....	.....	0	0	clear	J. G. Linsley.
Nashville, Tennessee	29.46	748.3	29.98	761.5	67.5	19.7	92	se.	4	1.8	.....	.....	fg.	.....	.....	0.08	2.0	dense fog	L. A. Jesunofsky.
New Haven, Connecticut	30.09	764.3	30.20	767.1	58.5	14.7	54	n.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. H. Sherman.
New London, Connecticut	30.15	765.8	30.20	767.1	62	16.7	87	n.	5	2.2	.....	7 c	0	ne.	.....	0.01	0.3	clear	J. G. Lynch.
New Orleans, Louisiana	29.90	759.4	29.95	760.7	79.5	26.4	84	sw.	5	2.2	.....	3 c	sk.	.....	.....	0	0	clear	L. Dunne.
Newport, Rhode Island	30.13	765.3	30.18	766.6	60.0	15.6	54	ne.	12	5.4	.....	0	0	.....	.....	0.08	2.0	clear	W. McGillivray.
New River, N. Carolina	.....	.....	.....	.....	68	20.0	55	ne.	.....	.....	1	0	1 ks	.....	.....	0.09	2.3	clear	C. C. Corbin.
New Shoreham, Rhode I'd.	30.14	765.5	30.17	766.3	55.5	13.1	80	ne.	18	8.0	.....	2 cs	0	ne.	.....	0.03	0.8	clear	W. Davis.
New York, New York	30.03	762.7	30.20	767.1	62	16.7	48	ne.	15	6.7	.....	3 cs	0	.....	.....	0	0	clear	J. B. Merrill.
Norfolk, Virginia	30.12	765.0	30.15	765.8	68	20.0	70	e.	7	3.1	.....	6c;cs	0	nw.	.....	0	0	fair	J. T. Eiker.
North Platte, Nebraska	27.06	687.3	29.86	758.4	59.6	15.3	86	se.	3	1.3	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	E. F. Brady.
Olympia, Washington T'y	30.04	763.0	30.08	764.0	52.0	11.1	80	calm	0	0	.....	.....	10 s	.....	calm	inap.	inap.	cloudy	J. Dascomb.
Omaha, Nebraska	28.85	732.8	29.99	761.7	62.7	17.1	79	se.	6	2.7	.....	.....	10 s	.....	se.	0	0	cloudy	A. Pollak.
Oogiaamie, Pt. Barrow, Alas.	29.72	754.9	29.74	755.4	37.5	3.1	97	ese.	3	1.3	.....	.....	8 s	.....	ssw.	0	0	cloudy	P. H. Ray.
Oswego, New York	29.89	759.2	30.21	767.3	56.0	13.3	69	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	S. W. Beall.
Palestine, Texas	29.42	747.3	29.95	761.0	76.0	24.4	97	s.	8	3.6	.....	.....	10 ks	.....	s.	0	0	cloudy	L. M. Pindell.
Pensacola, Florida	29.92	760.0	29.95	760.7	81.3	27.4	91	calm	0	0	.....	0	0	.....	.....	0	0	clear	M. McGauran.
Philadelphia, Pa.	30.12	765.0	30.22	767.6	64	17.8	58	n.	14	6.3	.....	3 c	3 k	s.	n.	0	0	fair	T. F. Townsend.
Pike's Peak, Colorado	17.81	452.4	29.63	752.6	21	— 6.1	73	sw.	24	10.7	.....	0	0	.....	.....	inap.	inap.	clear	L. M. Dey.
Pioche, Nevada	23.96	608.6	29.76	755.9	41.3	5.2	70	calm	0	0	.....	2 c	0	calm	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.33	745.0	30.12	765.0	58.8	14.9	54	ne.	4	1.8	.....	7 k	0	w.	.....	0	0	fair	J. H. Bryce.
Poplar River, Montana	27.59	700.8	.....	.....	.....	.....	.....	se.	.....	.....	1	0	0	.....	.....	0	0	clear	U. D. Maxwell.
Port Eads, Louisiana	29.99	761.7	30.00	762.0	78.0	25.6	94	sw.	4	1.8	.....	0	4 k	.....	sw.	0	0	fair	H. G. Christian.
Port Huron, Michigan	29.48	748.8	30.15	765.8	52.3	11.3	83	ne.	4	1.8	.....	5 c	0	w.	.....	0	0	fair	W. O. Bailey.
Portland, Maine	30.15	765.8	30.20	767.1	56.0	13.3	51	n.	15	6.7	.....	0	0	.....	.....	0	0	clear	W. W. Eichelberger.
Portland, Oregon	30.05	763.3	30.12	765.0	54.0	12.2	61	w.	4	1.8	.....	.....	10 s	.....	w.	0	0	cloudy	M. L. Hearne.
Portsmouth, N. Carolina	.....	.....	.....	.....	68	20.0	61	ne.	23	10.3	.....	3 c	0	n.	.....	0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.72	627.9	29.74	755.4	37	2.8	82	sw.	3	1.3	.....	0	0	.....	.....	inap.	inap.	clear	J. McN. Wright.
Provincetown, Mass.	30.15	765.8	30.18	766.6	53	11.7	80	ne.	14	6.3	.....	0	0	.....	.....	0.09	2.3	clear	P. T. Jenkins.
Punta Rassa, Florida	29.96	761.0	29.97	761.2	76.5	24.7	85	n.	1	0.4	.....	4 c	2 k	calm	calm	6.22	158.0	fair	W. J. Evans.
Red Bluff, California	29.55	750.6	29.91	759.7	64.0	17.8	46	s.	2	0.9	.....	0	1 s	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.65	753.1	29.88	758.9	81	27.2	82	se.	3	1.3	.....	.....	10 s	.....	se.	0	0	cloudy	P. M. Wilson.
Rochester, New York	29.55	750.6	30.20	767.1	54	12.2	74	sw	6	2.7	.....	0	sk.	.....	.....	0	0	clear	E. W. McGann.
Roseburg, Oregon	29.58	751.3	30.13	765.3	54	12.2	66	nw.	4	1.8	.....	.....	10 s	.....	nw.	0	0	cloudy	J. J. Nanry.
Sacramento, California	29.84	757.9	29.91	759.7	57.5	14.2	80	s.	11	4.9	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.38	746.2	29.97	761.2	63.0	17.2	100	ne.	6	2.7	.....	.....	ton;fg	.....	.....	0.07	1.8	light rain	J. H. Webber.
St. Paul, Minnesota	29.20	741.7	30.05	763.3	55.0	12.8	62	se.	7	3.1	.....	1 cs	0	.....	.....	0	0	clear	P. F. Lyons
St. Vincent, Minnesota	29.06	738.1	29.91	759.7	51	10.6	86	se.	6	2.7	.....	4 c;cs	0	calm	.....	0	0	fair	G. Kingsbury.
Salt Lake City, Utah	25.51	647.9	29.73	755.1	55	12.8	42	se.	3	1.3	.....	5 k	0	w.	.....	0	0	fair	J. Craig.
San Antonio, Texas	29.19	741.4	29.87	758.7	77	25.0	97	se.	3	1.3	.....	.....	10 ks	.....	se.	0	0	cloudy	E. Lane.
San Diego, California	29.93	760.2	30.00	762.0	59.2	15.1	81	n.	3	1.3	.....	.....	10 s	.....	w.	0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.43	747.5	30.10	764.5	59.2	15.1	65	e.	12	5.4	.....	6 c	0	e.	.....	0	0	fair	M. H. Perry.
Sandy Hook, New Jersey	30.16	766.1	30.20	767.1	59.0	15.0	75	ne.	15	6.7	.....	1 k	0	ne.	.....	0	0	clear	B. A. Blundon.
San Francisco, California	29.91	759.7	29.98	761.5	54	12.2	86	s.	9	4.0	.....	.....	fg.	.....	sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.17	588.5	29.68	753.9	52	11.1	34	se.	5	2.2	.....	2 k	0	sw.	.....	0	0	clear	H. U. Jones.
Savannah, Georgia	29.89	759.2	29.98	761.5	77	25.0	88	e.	8	3.6	.....	0	8 ks	.....	e.	0	0	cloudy	H. W. Ford.
Shreveport, Louisiana	29.72	754.9	29.95	760.7	75	23.9	90	calm	0	0	.....	hz.	4 ks	.....	.....	0	0	fair	E. N. Meekins.
Silver City, New Mexico	24.17	613.9	29.67	753.6	45	7.2	65	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. B. Wallace.
Sitka, Alaska	29.80	756.9	29.86	758.4	52	11.1	66	se.	10	4.5	.....	.....	10 n	.....	se.	0.10	2.5	light rain	J. J. McLean.
Smithville, North Carolina	30.02	762.5	30.06	763.5	71	21.7	82	e.	16	7.2	.....	1 c	6 k	.....	e.	0.46	11.7	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.87	707.9	29.91	759.7	52	11.1	74	se.	9	4.0	.....	2 k	0	.....	.....	0.03	0.8	clear	D. Moore.
Springfield, Illinois	29.34	745.2	30.01	762.2	59	15.0	75	ne.	2	0.9	.....	.....	10 s	.....	se.	0.61	15.5	cloudy	T. B. Jennings.
Springfield, Massachusetts	30.10	764.5	30.23	767.8	62.2	16.7	50	n.	7	3.1	.....	0	0	.....	.....	0	0	clear	T. S. Outram.
Springfield, Mo.	28.55	725.2	30.01	762.2	65	18.3	93	ne.	2	0.9	.....	.....	fg.	.....	.....	0.45	11.4	dense fog	J. B. Marbury.
Starkville, Miss.	29.55	750.6	30.02	762.5	76	24.4	85	se.	6	2.7	.....	1 c	0	.....	.....	0	0	clear	M. J. Wright.
Stockton, Texas	26.85	682.0	29.77	756.1	69.7	20.9	84	w.	4	1.8	.....	5 ck	0	w.	.....	0	0	fair	J. O'Dowd.
Thatcher's Island, Mass.	30.18	766.1	30.20	767.1	53.0	11.7	80	n.	17	7.6	.....	0	0	.....	.....	0	0	clear	G. Liebmann.
Toledo, Ohio	29.40	746.7	30.08	764.0	61	16.1	60	e.	13	5.8	.....	2 c	0	w.	.....	0	0	clear	A. Buell.
Tucson, Arizona	27.50	698.5	29.80	756.9	57	13.9	60	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.62	752.3	29.98	761.5	56	13.3	57	sw.	21	9.4	.....	8 ck	1 s	nw.	.....	0	0	cloudy	J. Daly.
Uvalde, Texas	28.89	733.8	29.83	757.7	79	26.1	91	se.	6	2.7	.....	.....	10 ks	.....	se.	inap.	inap.	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.72	754.9	29.97	761.2	76	24.4	85	se.	1	0.4	.....	7 cs	0	.....	.....	0	0	fair	H. P. Brisbane.
Visalia, California	29.54	750.3	29.91	759.7	60	15.6	81	calm	0	0	.....	2 ck	0	.....	.....	0	0	clear	W. L. Seward.
Washington, D. C.	30.09	764.3	30.20	767.1	64.0	17.8	61	ne.	3	1.3	.....	.....	9 k	.....	ne.	0	0	cloudy	B. M. Purssell.
West Las Animas, Colorado	25.97	659.6	29.75	755.6	60.9	16.1	90	s.	8	3.6	.....	8 ck	0	s.	.....	1.51	38.4	cloudy	F. W. Brandenburg.
Williamsport, Pa.	29.63	752.6	30.23	767.8	52	11.1	69	sw.	5	2.2	.....	0	hz	.....	.....	0	0	clear	B. F. Hough.
Wilmington, N. Carolina	30.02	762.5	30.07	763.8	70	21.1	76	e.	8	3.6	.....	0	5 s	.....	e.	0.53	13.5	fair	A. T. Sherwood.
Winnemucca, Nevada	25.55	649.0	29.81	757.2	52	11.1	93	calm	0	0	.....	3 k	0	sw.	.....	0.28	7.1	clear	J. R. Williams.
Yankton, Dakota	28.69	728.7	29.97	761.2	62	16.7	84	calm	0	0	.....	10 cs	0	.....	.....	0	0	cloudy	J. H. Atfield.
Yuma, Arizona	29.71	754.6	29.85	758.2	63.0	17.2	54	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.03	559.6	.....	.....	54.5	12.5	69	s.	6	2.7	.....	.....	10 n;s	.....	nw.	0.06	1.5	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W. I.	30.06	763.5	30.07	763.8	80	26.7	95	e.	.....	.....	.....	5 k	5 ks	e	e.	1.45	36.8	cloudy	J. A. Racker.
Buenaventura, U. S. C.	29.94	760.5	29.97	761.2	78	25.6	80	calm	0	0	.....	0	8 ks	.....	calm	0.40	10.2	cloudy	J. I. Plume.
Havana, Cuba, W. I.	30.00	762.0	30.05	763.3	82	27.8	74	calm	0	0	.....	6 cs	0	.....	.....	0.65	16.5	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.02	762.5	30.03	762.7	79.2	26.2	79	calm	0	0	.....	1 c	1 s	.....	e.	0	0	fine	Robert Johnston.
Magua, San Domingo, W. I.	.....	.....	.....	.....	74	23.3	.....	calm	.....	.....	0	0	3 k	.....	ne.	inap.	inap.	.....	S. M. Pike.
Paramaribo, S. A.	30.10	764.5	30.10	764.5	79	26.1	82	e.	.....	.....	2	4 c	0	e.	.....	1.000	25.4	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.51	749.5	29.97	761.2	85	29.4	81	se.	.....	.....	1	0	8 ks	.....	calm	0.25	6.3	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	99	s.	.....	.....	2	.....	.....	.....	.....	0.12	3.0	cloudy	Earl Flint.
Santiago de Cuba, W. I.	29.99	761.7	30.02	762.5	79	26.1	73	calm	0	0	.....	0	0	.....	.....	0	0	clear	Robert Mason.
York Factory, B. A.	30.01	762.2	30.07	763.8	37.0	2.8	90	ne.	11	4.9	.....	1 c	0	ne.	.....	0	0	fair	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
British Naval.																		
H. M. S. Alert, S. 34° 24′, E. 23° 33′	30.22	767.6	65.5	18.6	81	wnw.			2		2							misty.
H. M. S. Alexandra, N. 31° 26′, E. 29° 43′	29.87	758.7	74.5	23.6	85	wnw.			3		0							misty.
H. M. S. Amethyst, S. 29° 06′, W. 47° 14′	30.31	769.9	67.2	19.6	94	nne.			6		8	n.				1	wnw.	showery.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.79	756.7	87	30.6		s.			2							3	n.	showery.
H. M. S. Bacchante, Corfu, Ionian Island	29.96	761.0	79	26.1	69	nnw.			1		1	calm						blue sky.
H. M. S. Boadica, Simon's Bay, Cape Colony	30.23	767.8	63	17.2		calm			0		0							blue sky.
H. M. S. Champion, Honolulu, Sandwich Islands			76	24.4		nne.			1-3		6							blue sky.
H. M. S. Cleopatra, N. 27° 34′, E. 122° 40′	29.93	760.2	69.5	20.8	95	e.			3-4		9							showery.
H. M. S. Coquette, Port Said, Egypt	29.82	757.4	78	25.6		n.			2		2					3	s.	raining.
H. M. S. Cruiser, Corfu, Ionian Island	29.93	760.2	74	23.3		wnw.			3		0	wnw.						blue sky.
H. M. S. Diamond, S 18° 20′, E. 162° 02′	30.00	762.0	75	23.9	90	e.			3		10					1	nnw	d. clouds.
H. M. S. Dido, N. 11° 16′, W. 65° 00′						ene.			3		0					1	e.	overcast.
H. M. Dock-Yard, Bermuda, W. I.	29.98	761.5	75	23.9	92	se.			3-4		4	se.						blue sky.
H. M. S. Dwarf, S. 25° 16′, W. 57° 45′	29.50	749.3	54	12.2	97	calm			0		10							d. clouds.
H. M. S. Eclipse, S. 4° 25′, E. 54° 30′	29.90	759.4	79	26.1		ese.			3-4		3							misty.
H. M. S. Emerald, S. 55° 05′, W. 58° 20′	29.64	752.8	41	5.0	91	s.			3-6		5	ssw.				2	ese.	d. clouds.
H. M. S. Euryalus, N. 6° 04′ E. 81° 20′	29.75	755.6	81	27.2	82	sw.			3		0	calm				5	sse.	d. clouds.
H. M. S. Fantome, N. 10° 55′, W. 83° 43′	29.9:	759.7	81	27.2		ne.			3-4		9	ne.				1	sw.	d. clouds.
H. M. S. Flying Fish, N. 37° 18′, E. 126° 20′	29.86	758.4	64	17.8	86	ssw.			4-6		4					4	ne.	showery.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.22	767.6	50	10.0	78	calm			0		0					3	ssw.	misty.
H. M. S. Garnet, Montevideo, Uruguay	30.01	762.2	57	13.9	100	ne.			6		10							blue sky.
H. M. S. Griffon, N. 48° 14′, W. 53° 55′	30.12	765.0	44	6.7	100	sw.			1		10							raining.
H. M. S. Inconstant, N. 4° 15′, W. 14° 40′	30.06	763.5	78	25.6	90	s.			2		8	sse.						rain & fog.
H. M. S. Iron Duke, N. 33° 36′ E. 137° 08′	29.76	755.9	74	23.3	90	wsw.			3		3	wsw.				2	s.	d. clouds.
H. M. S. Kingfisher, N. 9° 25′ W. 84° 30′	29.90	759.4	83	28.3		calm			0		1							d. clouds.
H. M. S. Lark, S. 10° 37′, E. 162° 30′	29.94	760.5	83.3	28.5		calm			0		3							blue sky.
H. M. S. Magpie, N. 34° 56′, E. 139° 52′	29.93	760.2	69.6	20.9	90	e.			1		4							d. clouds.
H. M. S. Minotaur, Gibralter, Mediterranean	30.04	763.0	68	20.0	79	ne.			4		8							d. clouds.
H. M. S. Nelson, S. 41° 17′, E. 174° 48′	30.26	768.6	52	11.1	79	calm			0		7							misty.
H. M. S. Northampton, Halifax, Nova Scotia	29.95	760.7	54.5	12.5	86	nnw.			2		3	nnw.						misty.
H. M. S. Phoenix, N. 18° 25′, W. 77° 08′	30.01	762.2	83	28.3	01	calm			0		1							d. clouds.
H. M. S. Rambler, Saint Paul de Loanda, Benguela	29.99	761.7	71	21.7	95	nnw.			1		0							blue sky.
H. M. S. Rocket, N. 49° 40′, W. 123° 20′	30.03	762.7	52	11.1	100	calm			0		1							blue sky.
H. M. S. Sappho, S. 26° 17′, W. 102° 00′	30.26	768.6	68.5	20.3		e.			1		2	calm						blue sky.
H. M. S. Swiftsure, Porto Grande, Cape Verde. I'ds	30.12	765.0	72.5	22.5	71	ne.			3-4		0	nnw.				3	w.	d. clouds.
H. M. S. Sylvia, S. 23° 16′, W. 41° 19′	30.36	771.1	70.5	21.4	74	e.			3		9					2	nnw.	d. clouds.
H. M. S. Tenedos, N. 47° 00′ W. 52° 40′	30.08	764.0	44.5	6.9	96	s.			3		10					3	ese.	d. clouds.
H. M. S. Thetis, S. 12° 10′, W. 77° 30′	30.04	763.0	61	16.1	94	calm			0		10					1	s.	foggy.
H. M. S. Triumph, Coquimbo, Chili	30.21	767.3	48	8.9	85	calm			0		2	calm				2	sse.	drizzling.
H. M. S. Woodlark, Jask, Persia	29.32	744.7	91.5	33.1	70	wsw.			4									d. clouds.
Portuguese Naval.																		dense mist.
Rio Lima, Porto Praya, Cape Verd Islands	30.12	765.1	78.8	26.0	84	n.			3		1							
Tamega, Macao, China	29.82	757.3	83.5	28.6	82	ne.			4		8		ne.			2		blue sky.
Swedish Naval.																4		d. clouds.
Saga, N. 45° 52′, W. 8° 07′	30.14	765.5	58.8	14.9	81	w.			3		5							
United States Naval.																		
Navy Yard, Pensacola, Fla.	29.90	759.4	80	26.7	91	sw.	2	9.9			2		sw.	0	0			fair.
N. Yard, Portsmouth, N. H.	30.19	766.8	56	13.3	51	ne.	13	5.8			0			0	0			clear.
Naval Hospital, Yokohama, Japan*	29.81	757.2	67	19.4	92	n.			1		2			0.02	0.5			clearing.
Adams, Mare Island, Cal.	29.98	761.5	55	12.8	93	ssw.			2		10							cloudy.
Alaska, Callao, Peru	29.98	761.5	61	16.1	94	calm			0		10			0	0	sm'h		cloudy.
Alert, Yokosuka, Japan*	29.82	757.4	70	21.1	85	e.			2		8		calm	0	0	sm'h		cloudy.
Alliance, Hampton Roads, Va.	30.18	766.6	67	19.4	79	ne.			2		5			0	0	sm'h		fair.
Ashuelot, Yokohama, Japan	29.91	759.7	69	20.6	90	e.			2		5		ene.					cloudy.
Brooklyn, Rio de Janeiro, Brazil	30.38	771.6	71	21.7	85	nne.	4	1.8			0			0	0	sm'h		fair.
Colorado, New York, N. Y.	30.17	766.3	60	15.6	65	n.	3	1.3			5?			0	0			clear?
Enterprise, Norfolk, Va*	30.13	765.3	60	15.6	?	ne.			1		5		ne.					fair.
Essex, S. 39° 02′, W. 56° 38′	30.10	764.5	50	10.0	93	ene.			5		10					mod.	ene.	rainy.
Franklin, Norfolk, Va.	30.17	766.3	66	18.9	74	ene.	6	2.7			2		calm	0	0			fair.
Galena, Alexandria, Egypt	29.89	759.2	76	24.4	91	nnw.			1		0					sm'h		clear.
Independence, Mare Island, Cal.	29.97	761.2	52	11.1	100	sw.			5		8		sw.	0	0			misty.
Iroquois, San Francisco, Cal*†	29.96	761.0	56	13.3	75	s.			4		10		s.					overcast.
Kearsarge, Hampton Roads, Va.	30.16	766.1	66	18.9	84	ne.			2		2					sm'h		hazy.
Lackawana, Paita, Peru*	29.97	761.2	62	16.7	88	se.			2		10		se.					cloudy.
Lancaster, Cadiz, Spain*	29.95	760.7	82	27.8	49	se.			6		2		calm	0	0	mod.	se.	fair.
Marion, S. 34° 54′, W. 56° 13′	29.98	761.5	60	15.6	100	nne.			5		10		calm	h'vy	h'vy	sm'h		rainy.
Michigan, Detroit, Mich.	30.12	765.0	62	16.7	61	e.			1		0							clear.
Minnesota, Newport, R. I.	30.23	767.8	60	15.6	60	ne.	6	2.7			0							clear.
Monocacy, Nagasaki, Japan	30.01	762.2	68	20.0	100	calm			0		5		calm					fair.
New Hampshire, Newport, R. I.	30.11	764.8	58	14.4	64	nne.			4		8					sm'h		clear.
Nipsic, N. 42° 37′, E. 16° 30′	29.94	760.5	72	22.2	47	nw.			2		2					sm'h		clear.
Onward, Callao, Peru†	30.13	765.3	60	15.6	94	nw.			1		10		s.			long	w.	cloudy.
Palos, Kobe, Japan	29.97	761.2	68	20.0	100	calm			0		10		calm					cloudy.
Passaic, Washington, D. C.	30.29	769.4	64	17.8	78	ne.			2		5		ne.					fair.
Pensacola, Callao, Peru	30.02	762.5	60	15.6	94	nw.	3	1.3			10			0	0	sm'h		cloudy.
Powhatan, Norfolk, Va.	30.15	765.8	64	17.8	94	ne.			1		5							fair.
Portsmouth, off Ryde Island of Wight, Eng*	29.79	756.7	55	12.8	93	nw.			2		8		nw.			sm'h		cloudy.
Quinnebaug, N. 32° 30′, W. 10° 53′	30.12	765.0	68	20.0	70	s.			2		8		ne.			sm'h		cloudy.
Ranger, San Francisco, Cal*	29.92	760.0	57	13.9	75	ssw.			3		10			0	0	sm'h		overcast.
Richmond, Nagasaki, Japan*	29.93	760.2	68	20.0	90	ese.			1		2		e.					raining.
Saratoga, Cowes. Eng.	29.83	757.7	55	12.8	56	nw.			2		5		nw.	0	0	sm'h		fair.
St. Louis, League Island, Pa.	30.41	772.4	62	16.7	61	nne.	11	4.9			5			0	0			fair.
Swatara, Nagasaki, Japan*	29.86	758.4	69	20.6	80	calm			0		5		calm			sm'h		fair.
Tennessee, Fort Monroe, Va.	30.19	766.8	66	18.9	79	ne.	10	4.5			5			0	0			fair.
Vandalia, Hampton Roads, Va*.	30.13	765.3	67	19.4	79	ne.			2		5		calm					fair.
Wabash, Boston, Mass.	30.19	766.8	58	14.4	70	ne.	6	2.7			0			0.01	0.3			clear.
Wachusetts, Fort Wrangle, Alaska	29.90	759.4	49	9.4	93	se.			1		10					sm'h		rainy.
Wyoming, Port Royal, S. C.	29.99	761.7	77	25.0	86	e.	8	3.6			8		se.	0	0			cloudy.
Yantic, Hampton Roads, Va*	30.03	762.7	66	18.9	84	ne.			2		8							cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Nova Scotian, N. 55° 15′, W. 11° 23′	30.07	763.8	49	9.4		n.			5		10		nnw.			sli't	nw.	squally.
S. S. Prussian, N. 51° 32′, W. 26° 55′*	30.33	770.4	50	10.0		var.			1		1		e.	0	0	light	ese.	clear.
S. S. Scandinavian, N. 42° 28′, W. 65° 22′*	29.95	760.7	44	6.7		nnw.			2		0			0	0	con.	se.	misty.
S. S. Waldensian, N. 51° 19′, W. 26° 43′*	30.49	774.4	58	14.4		nw.			2		8		w.	0	0	light	ene.	fine.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, N. 49° 43′, W. 16° 29′	30.31	769.9	57	13.9	94	une.			5		2		n.			sm'h	n.	clear.
S. S. Indiana, N. 49° 59′, W. 21° 42′†	30.57	776.5	60	15.6	88	ene.			4		5		e.			mod.	e.	fair.
S. S. Lord Clive, N. 48° 25′, W. 31° 55′*†	30.31	769.9				ne.			1		10		ne.	2 h'r	2 h'r			cloudy.
S. S. Pennsylvania, N. 39° 08′, W. 68° 42′†	29.90	759.4	66	18.9		ene.			3		1		e.			sm'h	se.	foggy.
ANCHOR LINE.																		
S. S. Bolivia, N. 52° 15′, W. 22° 31′†	30.31	769.9	50	10.0		ne.			2		5		ne.	driz	driz	mod.	ne.	hazy.
S. S. Ethiopia, N. 40° 57′ W. 59° 13′	29.95	760.7	69.5	20.8	97	s.			5		7?		sw.	o	o	r'gh	sw.	overcast?
S. S. Utopia, Piano di Sorrento, Italy†	30.28	769.1	70	21.1	71	s.			2		2		s.	o	o	sm'h	nw.	clear.
ATLAS LINE.																		
S. S. Ailsa, Santa Marta, U. S. C.†	30.03	762.7	82	27.8	87	var.			1		5		ne.	o	o			dull.
S. S. Alvena, N. 17° 58′, W. 70° 33′†	29.91	759.7	80	26.7	42	ene.			2		5		ene.	o	o	sm'h	ese.	fine.
S. S. Alvo, Colon, U. S. C.	29.94	760.5												2 h'r	2 h'r		sw.	
S. S. Antillas, N. 39° —′, W. 74° —†*	30.30	769.6	60	15.6		n.			2				n.	o	o	sm'h	n.	fine.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S 38° 27′, E. 61° 22′	29.76	755.9	59.5	15.3	88	nnw.			6		10							overcast.
S. Baroda, N. 4° 20′, E. 93° 46′	29.80	756.9	82.5	28.1	79	wsw.			3		5							d. clouds.
British Merchant, N. 9° 55′, W. 28° 06′	30.10	764.5	79.3	26.3	78	nne.			3–4		4							misty.
S. S. Cipero, N. 19° 57′, W. 52° 59′	30.13	765.3	80.5	26.9	76	sse.			1		2							blue sky.
S. S. Glencairn, S. 17° 04′, W. 3° 57′	30.19	766.8	70	21.1	73	sse.			4–5		9							d. clouds.
S. S. Gordon Castle, N. 5° 25′, E. 95° 03′	29.80	756.9	84	28.9	83	s.			3		10							squally.
S. S. May Hulse, S. 57° 16′, W. 69° 18′	29.71	754.6	37.7	3.2	80	ne.			4		10							overcast.
S. S. Minho, Bahia, Brazil	30.20	767.1	80.2	26.8	82	se.			4		5							d. clouds.
S. S. Pole Star, S. 31° 36′, W. 31° 42′	30.39	771.9	60.4	15.8	64	sw.			4		8							blue sky.
CROMWELL LINE.																		
S. S. Hudson, N. 36° 25′, W. 74° 49′†	30.05	763.3	56	13.3		nne.			4		7		ne.	o	o	r'gh	ne.	overcast.
CUNARD LINE																		
S. S. Marathon, N. 50° 28′, W. 19° 20′	30.37	771.4	58	14.4		ne.			4		3		ne.	o	o	r'gh	ne.	fine.
S. S. Scythia, N. 51° 10′, W. 14° 29′	30.25	768.3	56	13.3	87	n.			3		4		wnw.	1 h'r	1 h'r	sli't	n.	clear.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. St. Laurent, N. 43° 08′, W. 40° 59′†	30.61	777.5	60.8	16.0	79	ssw.			2					o	o	sm'h	ssw.	clear.
S. S. Ville de Marseilles, N. 38° 52′, W. 16° 20′*†	30.20	767.1	66	18.9		ene.			4		6		ene.	o	o	long	e.	cloudy.
GUION LINE.																		
S. S. Wisconsin, N. 51° 10′, W 16° 00′*	30.14	765.5	53	11.7		n.			4		8		nnw.	o	o	sm'h	n.	cloudy.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 44° 35′, W. 38° 19′*†	30.46	773.7				e.			3		8			sqll's	sqll's	sm'h	nne.	misty.
S. S. Cimbria, N. 49° 30′ W. 16° 13′	30.26	768.6	56	13.3		nne.			5		3		n.	o	o	mod.	n.	fair.
S. S. Gellert, N. 41° 19′ W. 50° 49′	30.37	771.4	69	20.6		sse.			3		8		se.	1 h'r	1 h'r	mod.	se.	rainy.
S. S. Herder, N. 50° 25′, E. 10 11′*†	29.84	757.9	56	13.3		n.			3		7		nne.	o	o	sm'h	nw.	fair.
S. S. Lessing, Hamburg, Germany	29.50	749.4	70	21.1		wsw.			6		10		wsw.	rain	rain			
S. S. Wieland, N. 41° 27′, W. 56° 56′	30.20	767.1	70	21.1		s.			5		8		nw.	o	o	4	wsw.	hazy.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, Antwerp, Belgium*†	29.95	760.7	58	14.4		wsw.			4		10		ssw.	6 h'r	6 h'r			light rain.
S. S. Humboldt, N. 40° 18′, W. 54° 34′*	30.16	766.1	70	21.1	90	s.			4		5 k;n			20min	utes	3	con.	squally.
LEYLAND LINE.																		
S. S. Iberian, N. 45° 38′, W. 41° 25′	30.49	774.4				s.			3		3		s.	o	o			clear.
MALLORY LINE.																		
S. S. Colorado, N. 34° 00′ W 74° 00′†	30.07	763.8	72	22.2		ne.			4		1		ne.	o	o	mod.	ne.	clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 39° 29′, W. 71° 02†	30.00	762.0	53	11.7	100	ne.			4		fg.			4 h'r	4 h'r	mod.	ne.	clear.
S. S. Hermod, N. 37° 03′, W. 61° 17′.*†	29.80	756.9	78.8	26.0		sse.			7		5		sse.	o	o	cross	sse.	threatening.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, N. 00° 07′, W. 44° 31′	29.55	750.6				e.			2				se.	2 h'r	2 h'r	r'gh	e.	clear.
S. S. Glenapp, Rio de Janeiro, Brazil*†	30.02	762.5				calm			0		2		calm	o	o			clear.
NATIONAL LINE.																		
S. S. Denmark, N. 40° 32′, W. 65° 34′	30.00	762.0	58	14.4		nne.			6		10		ene.	7 h'r	7 h'r	r'gh	ene.	cloudy.
S. S. England, N. 40° 39′, W. 64° 10′	29.94	760.5				ne.			6		8		ne.	o	o	high	ne.	cloudy.
S. S. Greece, N. 48° 28′. W. 20° 56′	30.35	770.9				ne.			3		5?		ne.	shr's	shr's	sm'h	nnw.	cloudy.?
S. S. Holland, N. 49° 17′ W. 11° 24′	30.19	766.8	56	13.3		nne.			4		5		n.	4 h'r	4 h'r	mod.	n.	fair.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, N. 38° 29′, W 75° 55′†	30.17	766.3	60	15.6		n.			2		2		nne.	o	o	long	ne.	fine.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, N. 31° 12′, W. 78° 44′*†	30.08	764.0	82	27.8	83	ne.			4		3		n.	o	o	long	ne.	clear.
S. S. City of Washington, N. 21° 20′, W. 89° 38′*†	30.10	764.5	85	29.4		e.			4		1		e.	o	o		ne.	clear
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Maas, N. 49° 00′ W. 9° 51′*†	30.13	765.3	49	9.4		ne.											n.	
NORTH GERMAN LLOYD																		
S. S. Elbe, N. 47° 24′, W. 31° 10′	29.70	754.4	55.4	13.0	94	n.			3		2		n.	o	o	sm'h	n.	clear.
S. S. Gen. Werder, N. 44° 55′. W. 37° 12′	30.59	777.0				e.			3		10		nw.	o	o	sm'h	ne	covered.
S. S. Graf Bismarck, N. 37° 10′, W. 13° 05′	30.19	766.8	68.0	20.0		nne.			6		5		nne.			high	nne.	fair.
S. S. Habsburg, N. 46° 08′, W. 37° 25′	30.60	777.2	61.7	16.5		calm			0		10			o	o	sm'h		overcast.
S. S. Hermann, N. 41° 03′, W. 56° 04′†	30.04	763.0	69.8	21.0		sw.			6		2		ssw.	o	o	mod.	sw.	fair.
S. S. Leipzig, N. 48° 58′, W. 19° 11′	30.41	772.4	58.0	14.4	87	ne.			5		5		ene.	4 h'r	4 h'r	mod.	n.	fair.
S. S. Mosel, N. 40° 35′ W. 63° 33′	29.94	760.5	59	15.0		nne.			6		10		nne.	12 h'r	12 h'r	cross	ne.	rainy.
S. S. Neckar, N. 51° 49′ E. 2° 30′						sw.			5		5		ssw.	2 h'r	2 h r	mod.	w.	fair.
S. S. Ohio, N. 49° 05′ W. 13° 38′	30.23	767.8				n.			6		2		n.	2 h'r	2 h'r	mod.	n.	clear.
S. S. Salier, Bremerhaven, Germany	29.64	752.8	57.2	14.0		nw.			6		10		nw.	3 h'r	3 h'r			raining.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY																		
S. S. Arabic, Yokohama, Japan*†	29.88	758.9	65	18.3	94	wsw.			2		2		sw.	sh'rs	sh'rs			showery.
S. S. Belgic Yokohama, Japan†	30.04	763.0	71	21.7	76	ne.			1		2		n.	o	o			clear.
S. S. Gaelic, N. 22° 18′. E. 114° 41′†	29.82	757.4	80	26.7	86	ene.			5		3?		e.			r'gh	ne.	overcast?
S. S. Oceanic, N. 47° 18′, W. 151° 15′*	29.73	755.1	52	11.1	74	s.			6		10		sw.			5	wsw.	drizzling.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, N. 37° 56′ W. 74° 45′†	30.13	765.3				ne.			4		8?		ne.	o	o	sm'h		clear?
S. S. City of Columbus, New York, N. Y.†	30.11	764.8				ene.			4		0			o	o			clear.
S. S. Seminole, N. 35° 30′, W. 77° 55′†	30.07	763.8	78	25.6	65	ne.			5		8		nne.			mod.	ne.	cloudy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Columbia, N. 40° 31′, W. 124° 30′†	30.07	763.8	53	11.7	80	nnw.			4		0					mod.	nnw.	clear.
S. S. Oregon, San Francisco, Cal.†	29.95	760.7	54	12.2	93	calm			0		10							hazy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal.†	29.92	760.0	52	11.1	86	nw.			2		10		nw.					cloudy.
S. S. Dakota, N 40° 57′, W. 127° 40′*†	30.12	765.0	57	13.9	87	nw.			4		5?		nw.			long	nw.	cloudy.?
S. S. Geo. W. Elder, N. 42° 07′, W. 124° 40′†	30.07	763.8	51	10.6	93	nw.			4		0					r'gh	nw.	clear.
S. S. Idaho, Nanaimo, Vancouver's Island, B. C.†	30.18	766.6	58	14.4	70	w.			1		0					sm'h		clear.
S. S. Orizaba, N. 33° 55′, W. 118° 47′†	30.02	762.5	60	15.6	100	nw.			3				wsw.	o	o	sm'h	w.	overcast.
S. S. State of California, Portland, Oregon†	30.11	764.8	54	12.2	61	nw.			2		8		nw.					overcast.
S. S. Victoria, San Francisco, Cal.†	29.74	755.5	51	10.6	86	calm			0							sm'h		fair.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, N. 19° 31′, W. 158° 40′	30.15	765.8	75	23.9	86	e.			5		5			2 h'r	2 h'r	long	e.	misty.
S. S. City of New York, N. 35° 50′, W. 126° —′†	30.11	764.8	60	15.6	88	nnw.			5		8?		nw.	o	o	h'vy	ne.	clear?

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
PACIFIC MAIL STEAMSHIP COMPANY.—Continued.																		
S. S. City of Pekin, N. 22° 57′ E. 117° 00′†	29.87	758.7	77	25.0	86	ne.			4		5		ne.	0	0	light	ne.	fair.
S. S. City of Rio de Janeiro, Panama, Panama*†	30.04	763.0	79	26.1	86	n.			3		9		nw.	0.2	5.			clearing.
S. S. City of Sydney, Sydney, N. S. W.†	30.02	762.5	54	12.2	87	sw.			4		5		sw.	0	0	sm'h		fair.
S. S. City of Tokio, N. 42° 50′, W. 171° 40′†	29.15	740.4	51	10.6	65	sw.			1		10		s.	4 h'r	4 h'r	r'gh	ssw.	
S. S. Clyde N. 13° 35′, W. 89° 49′†	29.90	759.4	82	27.8	79	n.			1		2		ne.	2 h'r	2 h'r	long	sw.	clear.
S. S. Colima, N. 24° 34′, W. 112° 31′†	29.90	759.4	60	15.6	88	sw.			6		0			0	0	r'gh	nw.	clear.
S. S. Colon, Aspinwall, Panama†	29.91	759.7	80	26.7		se.			2		9		ne.	2 h'r	2 h'r	mod.	nne.	cloudy.
S. S. Grenada, N 19° 44′, W. 105° 32′†	29.88	758.9	81	27.2	96	ne.			1		0			0	0	light	nw.	clear.
S. S. South Carolina, Panama, Panama†	29.93	760.2	80	26.7	91	nw.			3		5		n.	0	0	sm'h		
S. S. Zelandia, Sydney, N. S. W.	29.94	760.5	55	12.8	80	var.			2		10		sw.			sm'h		
QUEBEC S. S. COMPANY.																		
S. S. Muriel, N. 31° 50′, W. 68° 10′	29.97	761.2	77	25.0		w.			3		5			light	light	mod.	wnw.	fair.
S. S. Bermuda, Fort of Spain, Trinidad, W. I†	30.05	763.3	78	25.6		calm			0									fine.
RED STAR LINE.																		
S. S. Rhynland, N. 40° 15′, W. 64° 10′	29.88	758.9	57	13.9	94	ne.			6		10		ne.	1.3	33.	long	ne.	rainy.
S. S. Switzerland, N. 48° 15′. W. 23° 49′†	30.47	773.9				ne.			3		10		ne.	0	0	mod.	ne.	cloudy.
S. S. Vaderland, N. 43° 33′, W. 43° 35′	30.22	767.6	65	18.3	73	sse.			5		0			0	0	sm'h		clear.
ROTTERDAM LINE.																		
S. S. W. A Scholten, N. 41° 33′, W. 46° 03	30.30	769.6	67.9	19.9	91	se.			3		3		se.	2 h'r	2 h'r	sm'h		rainy.
STATE LINE.																		
S. S. State of Florida, N. 54° 03′, W. 14° 42′	30.00	762.0	54	12.2		n.			5		6		n.	2 h'r	2 h'r	mod.	nne.	cloudy.
S. S. State of Georgia, Off Mull of Cantyre, Scotland†	29.98	761.5	47	8.3		nnw.			6		5		n.				nw.	showery.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 42° 30′, W. 51° 30′†	30.50	774.7	55.4	13.0	19	sse.			3		fog		sse.	0	0	mod.	sse.	covered.
WARREN LINE.																		
S. S. Iowa, N. 50° 40′ W. 14° 44′*†	30.30	769.6	52	11.1		nnw.			4		2		nnw.	2 h'r	2 h'r	slight	nnw.	clear.
WHITE STAR LINE.																		
S. S. Baltic, Off South Stack, Eng†	29.97	761.2	50	10.0	72	nw.			5		5		nw.	0	0	sl't	nw.	d. clouds.
S. S. Britannic, N. 41° 06′, W. 61° 07′†	29.97	761.2	71	21.7	100	ssw.			5		10		s.	24 h'r	24 h'r	high	con.	d. clouds.
S. S. Celtic, N. 51° 19′ W. 11° 04′†	30.18	766.6	57	13.9	100	ne			5		2		n.	0	0	mod.	ne.	fine.
S. S. Germanic, N. 47° 44′, W. 32° 05′†	30.62	777.7	55	12.8		nne.			2		5		n.			sm'h		d. clouds.
WILSON LINE.																		
S. S. Romano, N. 42° 58′ W. 45° 35′	30.36	771.1	65	18.3		s.					1			0	0	sm'h		clear.
MISCELLANEOUS.																		
Bg. Abbie Clifford, N 18° 05′, W. 74° 06′*†	30.07	763.8	83	28.3		ese.			3		1		ese.	0	0	mod.	se.	fair.
Schr. Addie Fuller, Hampton Roads, Va†	30.25	768.3	66	18.9	73	ese.			3	5c	0			0	0			fair.
Bk. Adelaide, Off Cape Henry, Va*†	30.24	768.1	67	19.4		ne.			4		1		ne.	0	0	light	ne.	fair.
Schr. Ajax, Pensacola, Fla†	29.98	761.5				calm			0		1		w.	0	0			clear.
Bk. Alpha, Bird Rock, W. I†	29.98	761.5	84	28.9		e.			2		3		ne.	0	0	sm'h		fair.
Schr. Annie Lewis, Mobile, Ala†	30.05	763.3	78	25.6		n.			1		0			0	0			clear.
Bk. Annie Thormann, S. 11° 30′, W. 34° 40′	30.12	765.1	78.8	26.0	72	se.			4		6 k		se.	2 h'r	2 h'r	high	sse.	fair.
S. S. Antonio Lopez, Cadiz, Spain	29.96	761.0	77	25.0	52	ese.			6	2 cs				0	0			clear.
Schr. Asa Eldridge, Off Key West, Fla†	30.03	762.7				wsw.			3		5		nw.	1 h'r	1 h'r	irreg.	nw.	fair.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.52	775.2	75	23.9		ne.			1		0			0	0			clear.
S. Annie M. Smull, N. 21° 51′ E. 117° 22′*†	29.80	756.9												0	0			
Bk. Bergenseren, N. 39° 25′. W. 52° 00′†	30.25	768.3	72	22.2		s.			4				s.	0	0	4	sse.	fair.
Bk. Bremen, N. 53° 19′. E. 4° 25′						nw.			6		2		nw.	3 h'r	3 h'r	mod	nw.	squally.
Schr. C. R. Flint, Off Tampico Bar, Mexico†	30.08	764.0	82	27.8		s.			1		2		se.	0	0	mod.	ese.	clear.
Schr. Edith R. Seward, N. 33° 55′, W. 77° 20′*†	30.08	764.0	73	22.8		ne.			2		2		ene.	0	0	r'gh	ene.	clear.
S. E. J. Spicer, N. 45° 50′. W. 31° 00′†	30.47	773.9				ne.			4		10		ene			mod	ne.	
Bk. Essex, N. 6° 31′ W. 28° 29′*†	30.02	762.5	81	27.2		e.			1		4?		ese.	2 h'r	2 h'r	short	e.	cloudy.?
S. Exporter, S. 39° 00′, E. 62° 10′*†	30.30	769.6				nne.			5		6		n.	0	0	cross		cloudy.
Bk. Freya, N. 44° 02′, W. 30° 10′			61	16.1		n.			4		10			3 h'r	3 h'r	sm'h		fair
S. Grecian, N. 19° 50′, E. 114° 04′*†	29.70	754.4	81	27.2		ene.			5		10	e.	s.	sq'lls	sq'lls	sm'h	ne.	raining.
Bk. Hattie G. McFarland, Sydney, Cape Breton*†	30.00	762.0	50	10.0		calm			0		10			20 h'r	20 h'r			foggy.
S. Hedwig, N. 40° 17′, W. 49° 13′	30.39	771.8	68.4	20.2	88	sse.			4		4		sse.	0	0	long	nw.	fine.
Bk. Horace Scudder, N. 33° 39′, W. 78° 30′†	30.01	762.2	74	23.3		ene.			2		8		ene.	0	0		ne.	cloudy.
S. Ismir, S. 22° 30′, W. 37° 15′†	30.42	772.7				sse			2		6		sse.			rg'h	sse.	fine.
Schr. James Slater, N. 9° 14′, W. 46° 03′*†	30.30	769.6	81	27.2		ese.			3		2		se.	0	0	short	ene.	
Schr. Jennie N. Huddle, New London, Conn†	30.30	769.6	58	14.4	87	nne.			3					0	0			clear.
Schr. John L. Thomas, St. Andrew, Id., Caribean Sea*†	29.97	761.2				ene.			4		3		e.	¼ h'r	¼ h r			fair.
Bkt. Josephine, N. 33° 35′ W. 73° 10′†	30.16	766.1	76	24.4	76	n.			5		10			4 h'r	4 h'r	long	nnw.	threatening.
S. S. Laurel, Key West, Florida†	30.03	762.7	82	27.8		sw.			3		7		sw.	3 h'r	3 h'r			cloudy.
S. Minnie N. Gerow, N 42° 19′, W. 55° 46′*†	30.00	762.0				ssw.			3		10		sw.			r'gh	w.	hazy.
S. M. P. Grace, N. 26° 39′, W. 41° 42′*	30.19	766.8	76	24.4		se.			2				se.	0	0	sm'h	sse.	
S. S. Nebo, St John, N. S.*†	30.25	768.3				s.			2		0			0	0			clear.
S. Paramita, S. 52° 50′ W. 63° 55′†	29.82	757.4	42	5.6		se.			4		5		wnw.	0	0	sharp	sw.	hazy.
Bk. Peppina, N. 44° 53′, W. 3° 26′†	30.12	765.0	61	16.1	70	wnw.			2		0			0	0	long	wnw.	clear.
S. S. Ponca, S. 18° 20′, W. 38° 18′	30.23	767.8	74	23.3		s.			7		6		s.	6 h'r	6 h'r	hv'y	s.	fair.
Bg. Potomac, N. 25° 38′, W. 59° 19′*†	30.05	763.3				ene.			3				ene.	0	0	sm'h		fine.
Bk. Princessen, N. 54° 50′, E. 10° 49′†	29.58	751.3	55	12.8		sw.			7		8			1 h'r	1 h'r	sm'h		squally.
Bk. Rosebud, S. 18° 37′ W. 32° 10′*†	30.20	767.1	77	25.0	82	se.			4		0			0	0	long	ssw.	fine.
S. Salisbury, S. 35° 02′, E. 83° 03′*	29.70	754.3	58.6	14.8	87	ssw.			6		5		ssw.	2 h'r	2 h'r	r'gh	ssw.	fair.
Bg. Teneriffe, N. 26° 01′, W. 71° 50′	29.98	761.5				w.			1		1		w.	0	0	mod.		fair.
Bk. Truro, Havre, France*†	29.90	759.4				wnw.			4		10		wnw.	2 h'r	2 h'r			rainy.
U. S. F. C. S. Fish Hawk, Havre de Grace, Md†	30.33	770.4	64	17.8	89	ne.			4		3		nne.	0	0			clear.
Yacht Vega, N. 25° 29′, W. 68° 32′*†	30.25	768.3	80	26.7		wsw.			1		2		wnw.	¼ h'r	¼ h r		e;s	
S. S. Victoria J. Peed, Off Savanilla, U. S. C.						se.			2		5							
Bk. Vincenzo Accame, N. 38° 43′, W. 33° —′†	30.51	775.0	66.2	19.0		ne.			3									
Schr. Viola Reppard, Brunswick, Ga†	29.83	757.7	80	26.7		calm			0		1		se.	0	0			clear.
Bk. Warden Law, N. 41° 40′, W. 47° 42′*	30.29	769.4				se.			3		0			0	0	sm'h	se.	fair.
Bk. Wm. Wilcox, N. 5° 14′, W. 25° 30′*†	30.20	767.1	80	26.7		s.			2		5?		s;	4 h'r	4 h'r	sm'h		cloudy?

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



UNITED STATES OF AMERICA.

SIGNAL SERVICE U.S. ARMY

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 13, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.98	761.6	72.1	22.3	75	s.			2		4			0	0	cloudy	Moiroud.
Algiers			30.04	762.9	73.8	23.2	77	ene.			1		8			0	0	very cloudy.	Nicolas.
La Calle			30.07	763.7	75.2	24.0	75	nnw.			4		4			0	0	cloudy	Foufréde.
Tunis			30.05	763.3															Jacques.
Saida			30.10	764.4	85.3	29.6	49	se.			2		0			0	0	clear	Perès.
Tebessa			30.15	765.9	76.6	24.8	35	nw.			4		9			0	0	covered	Derché.
Geriville					91.4	33.0	42	nnw.			4		2			0.268	6.8	fair	Louchamp.
Laghouat			30.11	764.8	93.2	34.0	37	n.			2		2			0.024	0.6	fair	Abraham.
Biskra			30.13	765.2	87.8	31.0	34	nw			2		6			inap.	inap.	cloudy	Malau.
Australian.																			
Melbourne, Victoria	29.70	754.5	29.79	756.6	50.8	10.4	91	wsw.	14	6.3			10			0.21	5.3	showery	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.19	741.5	29.72	754.8	72.0	22.2	33	sw.			6		0			0.528	13.4		Prof. Ivan Stozir.
Cracow, I. R Observatory	28.95	735.4	29.70	754.4	62.6	17.0	70	nnw.	4.9	2.2			10			0.350	8.9		Dr. Wierzbiski.
Eperies	28.93	734.9	29.79	756.7	62.2	16.8	73	s.			1		10 ks		n.	0.520	13.2		Julius Mikolik.
Gratz	28.47	723.2	29.68	753.8	68.4	20.2	79	sw.			4		5			0.035	0.9		Andreas Rospini.
Hermannstadt	28.46	722.8	29.83	757.7	71.8	22.1	42	se.			3		0			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.49	723.7	29.83	757.7	50.5	10.3	90	nw.			2		10			0.638	16.2	raining	The Staff.
Lemberg	28.82	732.1	29.77	756.2	67.8	19.9	51	sw.			2		7			0.024	0.6		Dr. T. Staneckl.
Pola	29.70	754.4	29.81	757.2	71.2	21.8	54	sse.			3		3			0	0	thunder	I. R.Hydrographic Office.
Szathmar	29.39	746.4	29.84	757.8	71.2	21.8	44	se.			3		0			0.134	3.4		Joseph Midlinszky, S. J.
Szegedin	29.50	749.4	29.77	756.2	75.0	23.9	32	s.			4		3			0	0		Karl Stancel.
Trieste	29.81	757.1	29.91	759.7	73.8	23.2	46	sw.			3		5			0.205	5.2		Royal Academy.
Vienna	28.97	735.8	29.66	753.4	66.6	19.2	58	ne.			2		7			0.260	6.6		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.60	751.8	29.69	754.1	51.1	10.6	48	wnw.	23	10.3			5			0.070	1.8	squally	W. Boswell
Armagh, Observatory	29.59	751.6	29.83	757.7	49.9	9.9	95	sw.	16	7.2			10					raining	S. Call.
Bidston, Liverpool Obs'y			29.94	760.5	45.8	7.7	89	wsw.	29	13.0			10					raining	John Hartnup.
Bolton, Sharples	29.38	746.2	29.91	759.7	46.6	8.1	88	w.	12	5.4			10					raining	Thomas Mackereth.
Bradford, Yorkshire	29.47	748.5	29.87	758.7	52.4	11.3	62	nw.			5		10			0.01	0.3	raining	A.S. J.McLandsborough, F. R
Bridgetown, Barbadoes					84.0	28.9	67	ne.										d. clouds	Corpl.J.Surgenor, A.H.C.
Cardington																			John McLaren.
Chatham, School M. E.	29.86	758.4	30.00	762.0	52.1	11.2	61	nw.			1		10			blank	blank	gloomy	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.97	761.2	30.20	767.1	55.8	13.2	59	wnw.			4		10					overcast	The Staff.
Fort Napier, Natal	27.93	709.4	30.15	765.8	69.8	21.0	23	e.			2		0					blue sky	Pvt. Lane, A.H.C.
Free Town, Sierra Leone	29.74	755.4	29.97	761.2	88.0	31.0	84	w.			1		5					drizzling	Sergt. John Robinson.
Gibraltar, Mediterranean	30.02	762.5	30.08	764.0	74.5	23.6	81	e.			2		4					d. clouds	Opl. O. Baldwin.
Glasgow, Observatory	29.57	751.1	29.77	756.1	47.1	8.4	81	wsw.			3		10 n					raining	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.82	757.4	29.99	761.7	53.0	11.7	60	wsw.			4		10					overcast	The Staff.
Guernsey	29.92	760.0	30.21	767.3	55.5	13.1	60	nw.			3		10					overcast	A. Collenette, F. M. S.
Kew, Observatory	29.96	761.0	30.00	762.0	54.2	12.3	46	w.	15	6.7			10					threatening	The Staff.
Leicester, Museum	29.68	753.9	29.93	760.2	54.6	12.6	53	nw.			2		10					overcast	J. O. Smith.
Malta, Mediterranean	29.87	758.7	29.94	760.5	78.2	25.7	67	se.					2					blue sky	I. H. Whysall.
Nassau, Bahamas	30.03	762.7	30.08	764.0	82.2	27.9	70	sw.			1		5					d. clouds	C. S. Duncombe.
Oacott, St. Mary's College	29.44	747.8	29.96	761.0	52.6	11.4	61	wsw.			5		9					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.77	756.1	30.00	762.0	52.2	11.2	65	w.			4		10					squally	The Staff.
Plymouth	30.07	763.8	30.14	765.5	59.0	15.0	59	w.			4		10					overcast	John Merrifield.
Sandwick Manse, Orkneys			29.64	752.8	45	7.2	84	nw.	20	8.9			0			blank	blank	blue sky	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.89	759.2	29.95	760.7	80.8	27.1	41	ne.			2		0					blue sky	W. H. Lyne.
Sheffield	29.62	752.3	29.90	759.4	53.8	12.1	71	nw.			4		10			0.01	0.3	overcast	W. F. Cooper.
Silloth Rectory	29.80	756.9	29.83	757.7	48.0	8.9	82	w.			3		10			0.252	6.4	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.92	760.0	48.0	8.9	77	nw.	24	10.7			10			blank	blank	squally	J. New.
Straitfield Turgiss	29.80	756.9	30.02	762.5	55.5	13.1	55	nw.			3		8					squally	Rev.C.H.Griffiths, F.M.S
Truro, Royal Institution	30.13	765.3	30.15	765.8	58	14.4	69	nw.			7		8					gloomy	W. Newcombe.
Valencia, Observatory	30.11	764.8	30.14	765.5	55.9	13.3	73	w.	33	14.8			10					d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.17	766.3	30.21	767.3	49	9.4	93	sw.	2	0.9		0	0			0	0	clear	H. J. Cundall, C. E.
Chatham, N. B.*	30.13	765.3	30.19	766.8	52	11.1	80	sw.	4	1.8		0	hz.			0	0	clear	G. A. Blair.
Father Point, Quebec*	30.04	763.0	30.06	763.5	60	15.6	65	w.	15	6.7		8 k	2 s	nw.	w.	0	0	cloudy	J. McWilliams.
Halifax, N. S.*	30.11	764.8	30.23	767.8	56	13.3	69	nw.	2	0.9		0	0			0	0	clear	A. Allison.
Kingston, Ontario*	29.86	758.4	30.19	766.8	59	15.0	72	e.	2	0.9		0	0			0	0	clear	A. P. Knight, M. A.
Montreal, Quebec*	29.98	761.5	30.18	766.6	63	17.2	60	w.	4	1.8		hz.	0			0	0	fair	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.49	749.0	30.18	766.6	60	15.6	60	e.	4	1.8		0	0			0	0	clear	Rev. R. Mosley.
Port Dover, Ontario	29.47	748.5	30.14	765.5	56	13.3	81	calm	0	0		0	0			0	0	clear	H. Morgan.
Port Stanley, Ontario	29.48	748.8	30.11	764.8	61	16.1	84	e.	5	2.2		0	0			0	0	clear	M. Payne.
Quebec, Quebec*	28.88	758.9	30.20	767.1	54	12.2	74	w.			3	0	hz.			0.10	2.5	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.73	755.1	30.19	766.8	48	8.9	80	calm	0	c		5 c	0	w.		0	0	fair	W. H. McIntyre.
Saugeen, Ontario*	29.44	747.8	30.15	765.8	57	13.9	67	se.	2	0.9		hz.	0			0	0	clear	
St. Andrews, N. B.	30.17	766.3	30.22	767.6	53	11.7	82	calm	0	0		0	0			0	0	clear	
Sydney, C. B*	30.15	765.8	30.21	767.3	52	11.1	72	nw.	6	2.7		0	0			0	0	clear	T. C. Hill, C. E
Toronto, Ontario*	29.82	757.4	30.20	767.1	57	13.9	72	calm	0	0		0	0			0	0	clear	Magnetic Observatory.
Yarmouth, N. S*	30.15	765.8	30.22	767.6	56	13.3	80	nw.	1	0.4		hz	0			0	0	hazy	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.69	728.9	30.14	765.5	54.5	12.5	84					5 ck	0			0	0	fair	Wm. Wylie.
St. Johns, Newfoundland	30.07	763.8	30.33	770.4	43	6.1	100	ne.	1	0.4			fg.			0.12	3.0	foggy	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.18	766.6	30.21	767.3	65.5	18.6	85	ne.	5.7	2.5		5 c	0			0	0	smoky	John Duthie.
Cape Town, C. G. H. Obs'y	30.06	763.5	30.10	764.5	73.0	22.8	50	sse.	11	4.9		0	0			0	0		The Staff, for D. Gill.

STATIONS	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow	29.74	755.4	30.01	762.2	78.7	25.9	72	calm			0		8			0	0	covered	N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.80	758.4	29.88	759.0	72.7	22.6	93	ese.	3.8	1.7			0			0	0	clear	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.32	744.6	29.36	745.8	53.1	11.7	70	ssw.	25	11			10					raining	Oversergent Fischer.
Fanöe	29.43	747.5	29.45	748.0	54.3	12.4	79	wnw.			6		7						Overloerer Lauridsen.
Godthaab, Greenland	29.85	758.3	29.90	759.4	38.8	3.8	97	ene.			2		10			0.008	0.2	foggy	S. Kleinschmidt.
Stykkisholm, Iceland	29.65	753.0	29.69	754.1	44.6	7.0	75	se.			2		8						A. O. Thorlacius.
Thorshavn	29.69	754.2	29.73	755.1	47.1	8.4	63	ene.	11	5			7						Overloerer Bergh.
Vestervig	29.34	745.1	29.43	747.4	54.0	12.2	64	nnw.			4		3						Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.63	752.5	30.28	769.0	60.4	15.8	45	nw.			2	2 c	k		nw.	0	0		M. Labroue, Director.
Alençon, Normal School	29.61	752.2	30.17	766.2	56.8	13.8	58	nw.			3		n			0.016	0.4		M. Nicot, Director.
Arras, Engineer School	29.91	759.7	30.17	766.3	53.6	12.0	64	nw.			6		kn		nw.	0.220	5.6		M. Fénéon, Command't.
Avignon, Normal School	30.01	762.3	30.09	764.3	64.8	18.2	45	n.			2		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.55	750.5	30.11	764.7	53.4	11.9	59	nnw.			2		10		nnw.	0.728	18.5	covered	M. Saillard, Director.
Beauvais, Normal School	29.81	757.1	30.08	763.9	57.2	14	44	w.			3		10		wnw.	0	0	covered	M. Frère Eugène Marié.
Besançon, Normal School	29.13	740.0	30.09	764.2	54.3	12.4	74	ssw.			1	c	0	se		0.87	22.		M. Gobin, Director.
Bordeaux, Observatory	30.01	762.3	30.27	768.9	59.0	15.0	41	wnw.			1		5		nw.	0.165	4.2	cloudy	M. Rayet, Director.
Bourges, Normal School	29.62	752.3	30.17	766.3	59.0	15	43	w.			2		k		w.	0.461	11.7		M. Postel, Director.
Brest, Naval Observatory	30.03	762.8	30.28	769.0	57.2	14.0	73	nw.			2		9		nw.	0.197	5.0		M. de Kermaree, Dir.
Caen, Normal School	30.07	763.7	30.14	765.6	57.6	14.2	55	nnw.			2		8		nnw.	0.232	5.9	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.59	751.6	29.91	759.7	54.7	12.6	61	s.			4		5		w.	0.630	16.0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.48	748.9	30.00	762.1	50.7	10.4	60	sw.			1		10			0.55	14.	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.81	731.8	30.16	766.1	57.9	14.4	45	nw.			2		5		w.	0.031	0.8	½ covered	M. Alluard, Director.
Cluny, Normal School	29.29	744.0	30.13	765.4	53.2	11.8	51	nw.			1		7		e.	0.059	1.5		M. de Villemontée, Dir.
Commercy, Normal School	29.19	741.3	30.01	762.2	48.4	9.1	73	wnw.			4		kn	wnw.	wnw.	0.51	13.		Dr. Coulet, Director.
Gap, Normal School	27.50	698.6	30.03	762.7	56.1	13.4	40	ne.			2	2 c	0	ne.		0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.89	733.9	30.01	762.2	61.3	16.3	30	nw.			6		1		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.37	746.0	30.16	766.0	46.8	8.2	91	nw.			1		10			0.232	5.9	raining	M. Ablard, Director.
Guéret, Normal School	28.60	726.4	30.20	767.0	52.2	11.2	57	w.			2		5		w.	0.24	6.	cloudy	M. Rivoire, Director.
Lamballe, Normal School	29.95	760.7	30.22	767.7	57.2	14	64	nw.			3		5		nw.	0.134	3.4	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.71	754.6	30.28	769.0	63.5	17.5	31	w.			1		5			0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	30.17	766.2	30.27	768.8	63.3	17.4	44	nw.			3		8		nw.	0.276	7.0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.08	738.6	30.14	765.5	56.7	13.7	54	nnw.			2	0	5 kn		n.	0.016	0.4	cloudy	M. André, Director.
Mans, Normal School	29.90	759.5	30.21	767.3	59.4	15.2	39	nnw.			4		8		n.	0.504	12.8	very cloudy	M. Piboen, Director.
Marseille, Observatory	29.73	755.2	30.00	762.0	64.0	17.8	44	nw.			6		1		nw.	0	0		M. Stephan, Director.
Montlouis	24.90	632.5	29.74	755.5	55.4	13.0	26	w.	18.6	8.3			0			0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.96	761.0	30.09	764.2	66.2	19	54	nw.			4		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.24	742.6	30.02	762.5	54.3	12.4	50	wsw.			1		n		w.	0.350	8.9		M. Hasse, Director
Nantes, Observatory	30.10	764.5	30.26	768.7	61.3	16.3	53	wnw.			1–2		8k; kn	n.	wnw.	0.520	13.2		M. Larocque, Director.
Perpignan, Observatory	30.02	762.6	30.13	765.3	66.0	18.9	28	n.	20.6	9.2			1		w.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.33	541.7			32.0	0.0		s.			1	1	1	ne.	s.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.04	737.6	30.10	764.4	60.4	15.8	33	n.			1		5 k	s.	s.	0	0	cloudy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.21	640.4			31.8	— 0.1	93	wnw.			4		8		wnw.	0.382	9.7	¾ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	30.23	767.9	30.27	768.8	65.1	18.4	100	w.			2		2		nw.	0	0	¼ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.04	763.1	30.20	768.5	60.8	16	58	wnw.			1		8		wnw.	0.256	6.5	very cloudy	M. Mouillot, Director.
Rodez, Normal School	28.09	713.4	30.25	768.3	52.5	11.4	63	nw.			2		n		s.	0.102	2.6		M. Seger, Director.
Rouen, Normal School	30.04	763.0	30.09	764.2	55.8	13.2	47	wsw.			1		10	w.		0.189	4.8	covered	M. Brotier.
Saint Maur, Observatory	29.92	760.0	30.09	764.2	55.8	13.2	48	nw.			2		1c		wnw.	0.272	6.9		M. Renou, Director.
Toulouse, Observatory	29.56	750.7	30.28	769.2	61.9	16.6	53	nnw.			2		2		nw.	0.051	1.3	slightly cl'dy	M. Baillard, Director.
Tours	30.01	762.2	30.18	766.6	57.2	14	60	nw.			1		5	nw.	nw.	0.315	8.0	cloudy	M. de Tastes.
Versailles, Observatory	29.60	751.9	30.10	764.4	55.4	13.0	45	w.			4					0	0		Dr. A. Berigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.80	756.9	30.09	764.3	57.2	14.0	48	nw.			3		9		nw.	0.319	8.1		M. Marié Davy, Director
GERMAN.																			
Bamberg	28.98	736.2	29.84	757.8	56.7	13.7	50	w.			3	0	7 k		w.	0.20	5.		Prof. Dr. Holl.
Berlin	29.57	751.0	29.74	755.5	52.5	11.4	65	sw.			3		10			0.016	0.4		Prof. Dr. Arndt.
Breslau	29.20	741.6	29.72	754.9	54.3	12.4	78	wsw.			1		10			0.106	2.7	heavy rain	Royal University Obs'y.
Carlsruhe	29.52	749.8	29.96	760.9	57.0	13.9	51	sw.			5		9	sw.		0.067	1.7	raining	Albert Senz.
Cassel	29.04	737.6	29.75	755.7	54.7	12.6	53	w.			6		8	w.		0.059	1.5		Dr. H. Möhl.
Frankfort-on-the-Main	29.50	749.2	29.80	758.4	62.1	16.7	41	w.			1		7			0.217	5.5		Physical Society.
Friedrichshafen	28.56	725.5	30.01	762.2	51.4	10.8	76	w.			6		10	w.		0.772	19.6		Wilhelm, Chief Tel.
Hamburg	29.44	747.8	29.54	750.2	56.8	13.8	56	w.			7		7			0.079	2.0	rainy	E. Preller.
Kiel	29.45	747.9	29.46	748.3	54.5	12.5	65	w.			8		7			0.299	7.6		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.32	744.0	29.73	755.1	58.6	14.8	47	sw.			6		8	sw.		0.091	2.3	stormy	H. Leppig, Asst.
Magdeburg	29.49	749.0	29.68	753.8	51.8	11.0	80	w.			5		10 ks		sw.	0.031	0.8		Dr. Assmann.
Memel	29.62	752.4	29.67	753.6	59.7	15.4	63	sw.			4		10 ks						Issermann.
Munich	28.11	714.0	29.97	761.2	47.7	8.7	71	nw.			3		10	sw.		0.154	3.9		Central Station
Neufahrwasser	29.62	752.4	29.64	752.8	53.4	11.9	71	sw.			2		10			0.138	3.5		A. Lothes.
Neustadt, Palatinate	29.38	746.2	29.91	759.6	57.0	13.9	56	w.			5		7	w.		0.197	5.0		Dicknether.
Stuttgart	28.97	735.9	29.86	758.4	55.8	13.2	45	w.			5		7	w.		0.043	1.1		Prof. Dr. Schoder.
Wustrow	29.45	748.0	29.47	748.6	51.6	10.9	81	sw.			6		10 s			0.213	5.4		Profs. Brandes & Reimer
GREEK.																			
Athens	29.57	751.0			84.7	29.3		ne.			1.0		0			0	0	clear	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.38	746.2	29.47	748.5	89.9	33.2	77	wsw.	34.0	15.2			8		w.	0	0	misty	
Deesa	28.88	733.5	29.33	744.9	100.5	38.1	41	w.	15.8	7.1			9	wsw.		0	0	d. clouds	
Bombay	29.53	750.2	29.57	751.1	82.5	28.1	85	w.	22.0	9.8			10		wsw.	0.72	18.3	overcast	
Poona, Yarrowda	27.74	704.7	29.61	752.1	71.3	21.8	96	w.	17.0	7.6			10		w.	2.87	72.9	raining	
Trichinopoly	29.45	747.9	29.72	754.9	87.1	30.6	49	w.	4.0	1.8			10			0	0	overcast	
Bellary	28.17	715.5	29.63	752.5	80.5	26.9	63	w	18.2	8.1			9			0	0	gloomy	
Belgaum	27.12	688.9	29.67	753.7	70.1	21.2	93	wsw.	21.0	9.4			10		sw.	1.21	30.7	showery	
Lahore	28.60	726.4	29.30	744.3	97.2	36.2	37	nw.	4.3	1.9			5			0	0		
Roorkee	28.43	722.1	29.28	743.0	100.5	38.1	42	calm	0.8	0.4			6			0	0		
Agra	28.79	731.2	29.34	745.1	86.2	30.1	68	ne.	2.8	1.2			8		ne.	0	0	d. clouds	
Nagpur	28.37	720.6	29.40	746.6	82.7	28.2	71	sw.	7.5	3.4			9		w.	0.13	3.3	gloomy	
Jubbulpore	28.04	712.1	29.37	746.0	79.6	26.4	87	wnw.	2.5	1.1			10		n.	0.18	4.0	overcast	
Lucknow	28.96	735.6	29.33	744.9	86.1	30.1	67	ese.	1.5	0.7			10	ssw.		0.08	2.0	overcast	
Allahabad	28.98	736.0	29.28	743.6	92.1	33.4	53	ene.	3.3	1.5			4	sw.		0	0	d. clouds	
Patna	29.17	741.0	29.35	745.6	82.6	28.1	90	ne.	8.3	3.7			6	ne.	ne.	0.19	4.8	d. clouds	
Hazaribagh	27.32	694.0	29.31	744.6	72.8	22.7	48	e.	9.6	4.3			10			2.57	65.3	drizzling	
Cuttack	29.26	743.3	29.34	745.4	85.0	29.4	72	sw.	4.5	2.0			8			0.02	0.5	d. clouds	
Calcutta, Alipore	29.22	742.1	29.24	742.7	81.3	27.4	83	sw.	12.0	5.4			10		sw.	3.27	83.1	overcast	
Dhubri	29.26	743.2	29.38	746.1	84.8	29.3	74	e.	13.4	6.0			10			0.48	12.2	gloomy	
Chittagong	29.37	746.0	29.46	748.3	76.7	24.8	95	e.	9.7	4.3			10			0.89	22.6	drizzling	
Sibsagar	29.19	741.3	29.52	749.7	83.0	28.3	90	ne.	1.4	0.6			10	w.	w.	0.02	0.5	d. clouds	
Jeypore	27.94	709.7	29.34	745.3	86.7	30.4	65	s.	4.1	1.8			8		s.	0.05	1.3	d. clouds	
Zanzibar, Africa	30.01	762.2			83.9	28.8	59	s.	9.0	4.0			5		sse.	0	0	d. clouds	
ITALIAN.																			
Udine	29.40	746.8	29.80	757.0	63.7	17.6	77	s.	2.5	1.1			8			0.169	4.3		Prof. Giovanni Clodig.
Milan	29.17	740.9	29.67	753.7	74.1	23.4	31	wnw.	6.9	3.1			7	wsw.		0.335	8.5		Prof. Schiaparelli.
Padua	29.65	753.2	29.76	755.9	72.9	22.7	38	sse.	10.5	4.7			7	sw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.79?	731.3?	29.67?	753.6?	66.2	19.0	20	w.	9.8	4.4			7	nnw.		0.236	6.0		Prof. P. F. Denza.
Genoa	29.60	751.7	29.78	756.5	66.4	19.1	66	se.	13.0	5.8			10	s.		0	0		Prof. G. M. Garibaldi.
Mondovi	27.81	706.3	29.66	753.4	66.9	19.4	21	w.			7		1	ssw.		0	0		Prof. D. O. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec.	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	29.76	755.8	29.80	757.0	77.4	25.2	31	sw.	4.9	2.2			0			0	0		Prof. Luigi Guidi.
Florence	29.59	751.5	29.84	757.8	74.1	23.4	34	sw.			4		1	sw.		0	0		Prof. Costantino Pitter.
Leghorn	29.73	755.1	29.81	757.2	72.0	22.2	55	s.	3.1	1.4			6			0	0		Prof. P. Monte.
Rome	29.80	756.8	29.97	761.1	73.9	23.3	46	ssw.	9.4	4.2			7			0	0		Prof. P. S. Ferrari.
Lecce	29.69	754.0	29.93	760.2	81.1	27.3	25	sw.	13.6	6.1			0			0	0		Prof. C. de Giorgi.
Cosenza	29.06	738.0	29.92	759.9	82.8	28.2	73	wsw.	3.8	1.7			3	w.		0	0		Prof. D. Conti.
Cagliari	29.74	755.5	29.93	760.3	78.8	26.0	35	calm			0		7	w.		0.028	0.7		Prof. A. Facinotti.
Palermo	29.74	755.4	29.99	761.7	73.8	23.2	67	ne.	6.9	3.1			4			0	0		Prof. G. Ciacciatore.
Syracuse	29.90	759.5	29.95	760.6	78.4	25.8	56	s.	12.5	5.6			8	s.		0	0		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R.	29.45	748.1	29.97	761.1	71.1	21.7	60.	wnw.	8.1	3.6			10	sw.		0	0		Prof. T. Brioschi.
Stelvio	22.00	558.7			25.2	— 3.8	100	ne.			6		10			0.055	1.4	covered	Prof. P. F. Denza.
Valdobbia	21.96	557.9			34.0	1.1	60	e.			6		10			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.84	757.9	29.88	758.9	65.2	18.4	59	s.	13.7	6.1		0	2 ks			0	0	fair	K. Ogawa.
Hakodate	29.83	757.7	29.84	757.9	61.5	16.4	77	sw.	12.6	5.6			4		w.	0.035	0.9	fair	
Hiroshima, I. M. Obs'y	29.89	759.2	29.90	759.4	67.4	19.7	81	ssw.	5.2	2.3			10 n			0.170	4.3	light rain	I. Sogawa.
Kanazawa	29.80	756.9	29.90	759.4	66.1	18.9	86	nnw.	3.0	1.3		1 ck	9 ks;s			0.210	5.3	cloudy	S. Endo.
Kioto	29.80	756.9	29.97	761.2	67.0	19.4	83	sw.					10 s			0.443	11.2	cloudy	M. Tojima.
Kochi	29.91	759.7	29.99	761.7	66.9	19.4	93	ssw.	5.5	2.5			10 n			1.135	28.8	light rain	K. Kusunose.
Nagasaki, I. M. Obs'y	29.74	755.4	29.94	760.5	63.1	17.3	89	ese.	6.9	3.1			10 n			0.060	1.5	light rain	S. Takehayashi.
Nemuro	29.80	756.9	29.86	758.4	50.5	13.6	80	calm	0	0		9	0			0	0	overcast	
Niigata	29.93	760.2	29.97	761.2	65.2	18.4	80		0.1	0.0		ck	7 s		w.	0	0	cloudy	M. Morita.
Nobiru	29.91	759.7	29.93	760.2	63.7	17.6	93	se.	5.2	2.3		0	9 s			0	0	cloudy	H. Midzushina.
Supporo					60.0	15.6	87	e.	18.0	8.0			6			0.218	5.5	fair	
Tokei Obs'y, Yeddo	29.89	759.2	29.95	760.7	67.2	19.6	81	s.	5.4	2.4			10 s			0.374	9.5	cloudy	The Staff.
Wakayama	29.92	759.9	29.97	761.2	67.6	19.8	82	ssw.	2.9	1.3			10 n			0.893	22.7	raining	Y. Kuwamura.
MAURITIUS																			
Mauritius Observatory	29.94	760.5	30.13	765.3	75.0	23.9	63	ssw.	7.0	3.1		1 cs	8 ks;n			0	0	cloudy	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.69	601.8	29.91	759.8	61.7	16.5	96	calm	0	0		1 ck	1 k	ne.	ne.	1.782	45.3	clear	Prof. Vicente Fernandez.
Leon	24.30	617.2	29.92	760.0	61.2	16.2	89	wnw.			1	6 c	0	sw.		0.835	21.2	½ clouded	Prof. M. Leal.
Mazatlan	29.65	753.2	29.91	759.7	76.0	24.4	91	e.	1.6	0.8		1 cs	0			0	0	light haze	F. Quijano, C. E.
Mexico, Central Obs'y	23.10	586.7	30.08	764.0	59.2	15.1	82	calm	0	0		4 c	5 k			0.020	0.5	cloudy	The Staff.
Morelia	24.15	613.5	30.21	767.2	60.4	15.8	65	ne.			2	2	0	e.		0.292	7.4		M. Tena, M. D.
Pabellon, Aguascalientes	23.91	607.3	29.81	757.2	63.9	17.7	97	calm			0					0	0		M. V. de Leon, M. E.
Puebla, Catholic Institute	23.43	595.2	30.20	766.9	51.8	11.0	90	ne.	0.2	0.1		0	0			0.004	0.1	clear	Prof. P. Spina.
San Luis Potosi	24.23	615.5	30.12	765.0	63.8	17.7	77	nw.				2	5	w.	w.	0	0	cloudy	G. Barroeta, M. D.
Zacatecas	22.58	573.4	30.14	765.5	56.7	14.0	88	w.	5.0	2.2		6 c	0	w.		0.037	0.9	½ cloudy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.93	760.3	29.93	760.3	54.0	12.2		w.			5					0.110	2.8		
Groningen	29.66	753.3	29.71	754.7	51.0	10.9		nw.			6					0.354	9.0		
Helder	29.78	756.5	29.78	756.5	49.1	9.5		wnw.			5					0.134	3.4		
Hellevoetsluis	29.89	759.2	29.89	759.2	51.1	10.6	65	w.			4					0.299	7.5		
Utrecht	29.81	757.2	29.86	758.4	53.2	11.8	75	w.			5		8			0.154	3.9	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.34	745.1	29.40	746.7	55.4	13.0	64	s.	4	2			9			0.787	20.0		
Brono	29.45	747.9	29.48	748.9	51.4	10.8	43	ne.	18	8			9			0	0		
Christiania	29.24	742.8	29.39	746.4	58.3	14.6	52	s.	0	0			2			0.339	8.6		
Gjessvær	29.70	755.9	29.78	756.5	41.9	5.5		e.			4		10						
Lodingen	29.53	750.1	29.58	751.3	46.2	7.9	46	ese.			4		8			0	0		
PORTUGUESE.																			
Angra, Azores					63.3	17.4	90	e.	1.8	0.8			5			0	0		Dr. J. A. Sampaio.
Campo Major	29.02	737.0	30.00	762.0	67.1	19.5	30	wnw.	6.9	3.1			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.04	762.9	30.12	765.1	68.9	20.5	59	sw.	3.8	1.7			3			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.71	754.7	30.06	763.6	77.9	25.5	38	n.	9.8	4.4			0			0	0		The Staff.
Ponta Delgada, Azores	30.23	767.9	30.30	769.7	74.1	23.4	56	calm	0	0			4			0	0		
Saint Paul de Loando	29.80	756.9	30.00	762.0	74.3	23.5	91	n.	0.7	0.3			0			0	0		
Serra da Estrella	25.40	645.1	30.05	763.2	58.3	14.6	36	ese.	11.9	5.3			0			0	0		
RUSSIAN.																			
Akmolinski	28.78	730.9	29.80	756.8	77.4	25.2	23	sw.	7	3		0	0			0	0		Major K. Lasarew.
Archangel	29.55	750.6	29.57	751.1	46.6	8.1	79	nw.	9	4			10			0	0	light clouds	Capt. Sseliwerstow.
Astrakhan	29.87	758.8	29.79	756.7	89.2	31.8	43	calm	0	0		0	0			0	0		Capt. Wisganow.
Barnaul	29.29	743.9	29.77	756.1	63.9	17.7	61	sw.	9	4			9			0.059	1.5		Meteorological Obs'y.
Dorpat	29.41	746.9	29.64	752.9	57.4	14.1	67	s.	2	1			10 kn			0.118	3.0	light rain	Observatory.
Ekaterinburg	28.82	732.0	29.73	755.2	75.4	24.1	62	wnw.	4	2		e	9 ks;n			0.287	7.3		Meteorological Obs'y.
Kasan	29.32	744.8	29.58	751.2	81.1	27.3	42	s.	9	4			9			0.150	3.8		Observatory.
Kertch	29.93	760.2	29.95	760.7	71.6	22.0	50	nw.	13	6		0	0			0	0		Lagorio & Sastyrez.
Kieff	29.19	741.5	29.81	757.2	63.9	17.7	49	wsw.	11	5		ck	4 ks			0	0		Observatory.
Lugan	29.55	750.5	29.75	755.6	69.6	20.9	51	wsw.	34	15			8			blank	blank		Meteorological Obs'y
Moscow	28.93	734.7	29.38	746.3	58.3	14.6	93	n.	7.8	3.5			10 s					raining	Meteorological Obs'y.
Nikolaiev	29.90	759.4	29.97	761.2	76.5	24.7	46	sw.	9	4		0	4 kn			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.28	743.8	29.37	746.0	51.6	10.9	91	calm	0	0			10			0.937	23.8	raining	Lieut. Iwanow.
Pekin, China	29.59	751.5	29.73	755.1	84.4	29.1	36	calm	0	0		0	0			0	0		Physical Observatory
St. Petersburg	29.59	751.6	29.61	752.0	60.3	15.7	61	nw.	16	7		5 ck	0			0	0		Central Physical Obs'y.
Semipalatinsk	29.12	739.6	29.74	755.3	75.6	24.2	30	calm	0	0		1 c	0			0	0		Major Lasarew.
Tashkend, Laboratory	28.00	711.1	29.44	747.8	88.7	31.5	55	calm	0	0			0						Teich, A. M.
Tiflis	28.44	722.4	29.77	756.2	82.6	28.1	40	nw.	22	10		0	0			0	0		Physical Observatory
Vladivostock	29.71	754.7			50.7	10.4	81	se.	18	8		0	5 n					raining	Astronomical Obs'y
Warsaw	29.30	744.2	29.72	754.9	53.2	11.8	90	sw.	11	5			10 n						Berg, Assistant.
Wilna	29.30	744.1	29.70	754.4	66.0	18.9	39	s.	2	1			9			0.004	0.1		
SPANISH.																			
Barcelona, Met. Obs'y	29.95	760.7	30.05	763.3	68.0	20	62	e.	4.9	2.2			8			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	30.28	769.1	30.34	770.6	66.7	19.3	50	nw.	2.7	1.2		2	3	n.		0.055	1.4	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.27	692.7	30.24	768.0	57.0	14.2	58	ne.	8.1	3.6			0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.87	708.0	30.02	762.5	75.6	24.2	35	ne.	12.5	5.6		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.87	758.8	30.03	762.7	76.5	24.7	49	ene.	5.8	2.6		0	3			0	0	almost clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.32	744.6	30.21	767.4	61.0	16.1	57	ne.	25.5	11.4			2			0	0	almost clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	29.95	760.6	30.01	762.3	79.2	26.2	73	calm	0	0		1 ck	0	ne.		0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.85	758.1	29.91	759.6	76.9	24.9	95	se.	0.9	0.4			10 n		s.	0.177	4.5	light rain	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.93	760.2	30.03	762.7	76.8	24.9	55	sw.	5.4	2.4		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.96	760.9	30.05	763.2	83.8	28.8	80	calm	0	0		2 cs	2 k	se.	se.	0	0		Manuel Maese.
Tuguegarao, Philippine Id's	29.74	755.4	29.87	758.7	82.0	27.8	79	s.	11.2	5.0			10 ks		ssw.	inap.	inap.	covered	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.53	750.1	29.57	751.1	38.1	3.4	93	ne.			4		10			0.130	3.3		
Umea	29.53	750.0	29.58	751.3	42.8	6.0	79	sw.			2		10			0	0		
Hernosand	29.50	749.2	29.55	750.5	47.1	8.4	65	ssw.			2		9			0	0		
Stockholm	29.26	743.1	29.43	747.6	54.7	12.6	72	sse.			6		10			0.004	0.1		
Wisby	29.43	747.4	29.48	748.9	53.2	11.8	72	sw.			4		10			0.118	3.0		
Sub-series.																			
Upsala	29.34	745.2	29.43	747.4	45.7	7.6	94	ne.	11.9	5.3			10			0.496	12.6	raining	S. G. Fineman.
SWISS.																			
Geneva	28.69	728.8	30.13	765.2	52.2	11.2	59	sse.			3					0.335	8.5	clouds	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
SCOTTISH.																			
Monach Lt	.....	.....	29.71	754.6	53	11.7	93	sw.	.....	.....	3	10	5	s.	.....	0.2	5.	cloudy	J. Youngclause.
TURKISH.																			
Constantinople	.....	.....	30.02	762.4	72.3	22.4	54	ne.	19	8.5	.....	.....	0	.....	.....	0	0	.....	The Observatory.
Valona	.....	.....	30.04	762.9	78.1	25.6	.....	sw.	.....	.....	1	.....	5	.....	.....	0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.76	755.8	82.0	27.8	65	w.	.....	.....	1	0	0	.....	.....	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.18	766.6	30.26	768.6	63	17.2	63	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. O. Barnes.
Alpena, Michigan	29.49	749.0	30.14	765.5	55	12.8	74	s.	1	0.4	.....	0	0	.....	.....	0	0	clear	Jas. J. Fitzgerald.
Atlanta, Georgia	28.99	736.3	30.14	765.5	64.5	18.1	86	e.	9	4.0	.....	.....	10 s	.....	.....	0.06	1.5	cloudy	H. Hall.
Atlantic City, New Jersey	30.24	768.1	30.25	768.3	60	15.6	75	ne.	5	2.2	.....	8 cs	0	.....	.....	0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	30.01	762.2	30.20	767.1	69	20.6	66	ne.	4	1.8	.....	0	9 s	.....	ne.	0.03	0.8	cloudy	John Healy.
Baltimore, Maryland	30.22	767.6	30.27	768.8	67	19.4	59	s.	3	1.3	.....	9 ck	0	w.	.....	0	0	cloudy	Robert Seybolh.
Barnegat, New Jersey	30.25	768.3	30.27	768.8	61.0	16.1	72	sw.	1	0.4	.....	6 k	4 k	.....	.....	0	0	cloudy	Chas. F. Merritt.
Behring Island, Behring Sea	29.64	752.8	29.66	753.4	39.2	4.0	.....	sw.	16	7.2	.....	.....	10 s	.....	.....	0	0	cloudy	Dr. L. Steineger.
Bismarck, Dakota	27.93	709.4	29.68	753.9	61.	16.1	90	ne.	4	1.8	.....	5 k	0	s.	.....	0.64	16.3	fair	Cyrus Cramer.
Boise City, Idaho	27.06	687.3	29.84	757.9	51.3	10.7	66	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	B. E. Light.
Boston, Massachusetts	30.10	764.5	30.25	768.3	57.0	13.9	64	w.	5	2.2	.....	4 c	hz.	w.	.....	0	0	fair	O. B. Cole.
Brownsville, Texas	29.80	756.9	29.84	757.9	82.0	27.8	88	s.	7	3.1	.....	0	4 s	.....	s.	0	0	fair	M. McCarty.
Buffalo, New York	29.53	747.5	30.17	766.3	64.4	18.0	68	calm	0	0	.....	0	sk.	.....	.....	0	0	clear	Wm. Finn.
Burlington, Vermont	29.94	760.5	30.22	767.6	59.0	15.0	65	s.	3	1.3	.....	5 cs	0	w.	.....	0	0	fair	G. O. Schaeffer.
Cairo, Illinois	29.59	751.6	29.98	761.5	73.8	23.2	83	se.	2	0.9	.....	4 ck	6 ks	sw.	s.	0.03	0.8	cloudy	W. H. Ray.
Campo, California	27.32	693.9	29.80	756.9	40.2	4.6	73	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.14	689.3	29.77	756.1	52	11.1	55	se.	.....	.....	1	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.23	767.8	30.25	768.3	63	17.2	73	ne.	14	6.3	.....	.....	10 s	.....	ne.	0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	30.21	767.3	30.24	768.1	62	16.7	72	se.	2	0.9	.....	.....	10 ks	.....	.....	0	0	cloudy	W. Bolton.
Cedar Keys, Florida	30.00	762.0	30.02	762.5	74	23.3	85	ne.	11	4.9	.....	0	5 s	.....	e.	inap.	inap.	fair	F. W. Mixer.
Champaign, Illinois	29.19	741.4	29.98	761.5	68.8	20.4	78	e.	4	1.8	.....	3 k	5 s	s.	s.	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.04	763.0	30.10	764.5	70.5	21.4	84	ne.	9	4.0	.....	0	0	.....	.....	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.34	745.2	30.17	766.3	64.0	17.8	58	e.	6	2.7	.....	.....	10 s	.....	e.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.33	745.0	30.14	765.5	71.5	21.9	78	s.	4	1.8	.....	.....	10 s	.....	s.	0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.89	606.8	29.63	752.6	50.0	10.0	80	n.	6	2.7	.....	.....	10 s	.....	n.	0.07	1.8	cloudy	E. McGovern.
Chicago, Illinois	29.32	744.7	30.01	762.2	55.5	13.1	92	n.	4	1.8	.....	10 k	fg.	.....	.....	0	0	cloudy	J. Mitchell.
Chincoteague, Virginia	30.22	767.6	30.24	768.1	61	16.1	78	e.	5	2.2	.....	8 c	0	n.	.....	0	0	cloudy	V. P. Temple.
Cincinnati, Ohio	29.38	746.2	30.03	762.7	72	22.2	84	s.	3	1.3	.....	.....	10 s	.....	s.	0	0	cloudy	R. B. Watkins.
Cleveland, Ohio	29.39	746.5	30.12	765.0	62.5	16.9	79	se.	6	2.7	.....	5 k	0	w.	.....	0	0	fair	J. B. Newlin.
Coleman City, Texas	28.05	712.5	29.80	756.9	75	23.9	47	nw.	13	5.8	.....	.....	10 s	.....	.....	0.	0	threatening.	L. Dorman.
Columbus, Ohio	29.21	741.9	30.05	763.3	64	17.8	84	se.	8	3.6	.....	0	9 ks	.....	s.	0.05	1.3	cloudy	D. Cuthbertson.
Concho, Texas	27.97	710.4	29.84	757.9	71	21.7	100	w.	8	3.6	.....	.....	10 n	.....	sw.	1.44	36.6	heavy rain	W. W. McConihe.
Davenport, Iowa	29.33	745.0	29.97	761.2	61	16.1	78	e.	8	3.6	.....	7 cs	hz.	w.	calm	0	0	fair	R. R. Martin.
Dayton, Washington T'y	28.23	717.0	29.97	761.2	50.2	10.1	82	sw.	2	0.9	.....	2 c	6 ks	s.	n.	0	0	cloudy	H. Clifford.
Deadwood, Dakota	25.22	640.6	29.64	752.8	51.5	10.8	86	sw.	2	0.9	.....	7 c	0	w.	.....	0.43	10.9	fair	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	73	22.8	50	se.	14	6.3	.....	.....	10 n	.....	se.	0.45	11.4	heavy rain	D. J. Carr.
Delaware Breakwater, Del	30.25	768.3	30.27	768.8	60	15.6	87	w.	2	0.9	.....	9 k;ck	0	w.	.....	0	0	cloudy	F. C. Pratz.
Denison, Texas	29.08	738.6	29.86	758.4	68.0	20.0	90	se.	8	3.6	.....	.....	10 s	.....	.....	0.35	8.9	cloudy	J. McGlone.
Denver, Colorado	24.58	624.3	29.62	752.3	54.0	12.2	77	n.	6	2.7	.....	.....	10 s	.....	nw.	0.42	10.7	cloudy	F. M. Neal.
Des Moines, Iowa	29.03	737.3	29.91	759.7	65	18.3	84	s.	4	1.8	.....	.....	10 s	.....	s.	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.39	746.5	30.08	764.0	63.0	17.2	78	ne.	8	3.6	.....	10 k	0	w.	.....	0	0	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.19	690.6	29.70	754.4	57	13.9	100	n.	4	1.8	.....	.....	10 n	.....	.....	0.84	21.3	light rain	E. A. Thomas.
Dubuque, Iowa	29.28	743 7	29.97	761.2	59.8	15.4	65	e.	2	0.9	.....	6 c	0	ne.	.....	0	0	fair	J. Harvey Smith.
Duluth, Minnesota	29.31	744.5	30.00	762.0	54	12.2	60	ne.	2	0.9	.....	0	7 s	.....	calm	0	0	fair	N. B. Conger.
Eagle Pass, Texas	28.98	736.1	29.77	756.1	78.0	25.6	88	se.	13	5.8	.....	.....	10 s	.....	s.	0.38	9.7	cloudy	F. Belford.
Eagle Rock, Idaho	25.15	638.8	29.74	755.4	46	7.8	66	sw.	2	0.9	.....	0	6 s	.....	w.	0.11	2.8	fair	J. M. Clifford.
Eastport, Maine	30.16	766.1	30.23	767.8	57.5	14.2	61	sw.	3	1.3	.....	hz.	0	.....	.....	0	0	dense haze	D. C. Murphy.
El Paso, Texas	26.11	663.2	29.70	754.4	55	12.8	37	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.42	747.3	30.14	765.5	64	17.8	72	se.	9	4.0	.....	0	0	.....	.....	0	0	clear	Peter Wood.
Escanaba, Michigan	29.43	747.5	30.08	764.0	54	12.2	74	n.	2	0.9	.....	5 c	0	.....	.....	0	0	fair	C. Dill.
Fort Apache, Arizona	25.00	635.0	29.75	755.6	40	4.4	46	ne.	1	0.4	.....	0	0	.....	.....	inap.	inap.	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.07	687.6	29.86	758.4	54	12.2	80	calm	0	0	.....	0	8 s	.....	sw.	0	0	cloudy	B. O. Lenoir.
Fort Bennett, Dakota	28.13	714.5	29.67	753 6	63	17.2	93	se.	11	4.9	.....	.....	10 s	.....	calm	0.01	0.3	cloudy	A. Pritchard.
Fort Benton, Montana	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	G. W. Davis.
Fort Buford, Dakota	27.80	706.1	29.76	755.9	55	12.8	69	calm	0	0	.....	5 c	0	calm	.....	0.04	1.0	fair	A. H. Bell.
Fort Custer, Montana	26.69	677.9	29.75	755.6	58	14.4	93	w.	6	2.7	.....	.....	10 s	.....	calm	0.02	0.5	cloudy	V. Verge.
Fort Davis, Texas	25.17	639 3	29.78	756.4	64	17.8	70	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Williams.
Fort Elliott, Texas	27.07	687.6	29.74	755.4	57	13.9	50	ne.	6	2.7	.....	0	0	.....	.....	1.14	29.0	clear	W. J. Cundall.
Fort Grant, Arizona	25.19	639.8	29.73	755.1	52	11.1	47	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	Robert C. Lord.
Fort Keogh, Montana	27.31	693.7	29.74	755.4	60	15.6	87	sw.	2	0.9	.....	6 cs	0	sw.	.....	0.08	2.0	fair	W. B. Stockman.
Fort Macon, North Carolina	30.17	766.3	30.18	766.6	67	19.4	68	ne.	20	8.9	.....	4 c	hz.	ne.	calm	0	0	fair	W. W. Thomas.
Fort McKavett, Texas	27.63	701.8	29.83	757.7	70	21.1	81	s.	12	5.4	.....	.....	10 s	.....	.....	0.29	7.4	cloudy	J. E. Thatcher.
Fort Missoula, Montana	26.65	676.9	29.91	759.7	61	16.1	84	sw.	1	0.4	.....	.....	10 ks	.....	w.	0.01	0.3	cloudy	J. H. Jones.
Fort St. Michaels, Alaska	29.68	753.9	29.71	754.6	40	4.4	82	nw.	10	4.5	.....	0	8 ks	.....	nw.	0	0	fair	A. P. Leavitt.
Fort Shaw, Montana	26.31	668.3	29.88	758.9	53	11.7	100	w.	2	0.9	.....	.....	10 n	.....	n.	0.43	10.9	light rain	A. L. Mathews.
Fort Sill, Indian Territory	28.59	726.2	29.79	756.7	65.5	18.6	100	s.	7	3.1	.....	.....	10 s	.....	s.	2.14	54.4	cloudy	T. Cleary.
Fort Smith, Arkansas	29.45	748.0	29.91	759.7	68.0	20.0	100	se.	6	2.7	.....	.....	10 s	.....	s.	0.74	18.8	cloudy	J. B. Campbell.
Fort Stevenson, Dakota	27.90	708.6	29.70	754.4	61	16.1	93	se.	3	1.3	.....	9 cs	0	.....	.....	0.25	6.3	cloudy	W. Burrows
Fort Verde, Arizona	.....	.....	.....	.....	53.9	12.2	44	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.36	618.7	29.74	755.4	47.0	8.3	86	sw.	4	1.8	.....	0	7 k	.....	.....	0	0	fair	T. M. Ambler.
Fredericksburg, Texas	28.12	714.2	29.80	756.9	73	22.8	97	sw.	10	4.5	.....	.....	10 s	.....	sw.	0	0	cloudy	H. S. Miles.
Galveston, Texas	29.86	758.4	29.91	759.7	80	26.7	87	s.	16	7.2	.....	0	5 k	.....	sw.	0	0	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.39	746.5	30.04	763.0	62.0	16.7	75	e.	8	3.6	.....	.....	10 k	.....	s.	0	0	cloudy	W. A. Reid.
Hatteras, North Carolina	30.18	766.6	30.20	767.1	65	18.3	84	ne.	19	8.5	.....	hz.	0	.....	.....	0	0	clear	R. M. Crawford.
Helena, Montana	25.73	653.5	29.85	758.2	53	11.7	86	calm	0	0	.....	.....	10 n	.....	.....	0.14	3.6	light rain	S. Wheaton.
Henrietta, Texas	28.93	734.8	29.91	759.7	68.0	20.0	100	s.	13	5.8	.....	.....	10 s	.....	.....	0.99	25.1	cloudy	J. W. Byram.
Huron, Dakota	28.42	721.9	29.76	755.9	62.9	17.2	90	se.	10	7.2	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.22	742.2	30.00	762.0	69	20.6	84	se.	2	0.9	.....	5 k;hz	hz.	se;c	calm	inap.	inap.	fair	O. Schutze
Indianola, Texas	29.86	758.4	29.89	759.2	81.1	27.3	88	s.	14	6.3	.....	8 k	0	s.	.....	0	0	cloudy	I. A. Reed.
Jacksboro, Texas	28.65	727.7	29.77	756.1	67	19.4	93	e.	10	4.5	.....	0	7 s	.....	s.	0.24	6.1	fair	J. P. Sherry.
Jacksonville, Florida	30.02	762.5	30.06	763.5	77	25.0	85	ne.	4	1.8	.....	2 cs	2 k	.....	ne.	0.08	2.0	fair	J. W. Smith.
Keokuk, Iowa	29.31	744.5	29.95	760.7	65.0	18.3	90	e.	6	2.7	.....	.....	10 s	.....	e.	0	0	cloudy	F. Z. Gosewisch.
Key West, Florida	29.98	761.5	30.00	762.0	85.0	29.4	67	calm	0	0	.....	2 cs	1 ks	.....	.....	0	0	clear	R. H. Paxton.
Kittyhawk, North Carolina	30.23	767.8	30.25	768.3	63	17.2	84	ne.	13	5.8	.....	3 c	0	.....	.....	0	0	clear	E. A. Beals.
Knoxville, Tennessee	29.12	739.6	30.13	765.3	68	20.0	84	se.	4	1.8	.....	3 k	2 ks	w.	.....	0.03	0.8	fair	J. A. Cody.
La Crosse, Wisconsin	29.21	741.9	29.97	761.2	68	20.0	47	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	S. C. Emery.
La Mesilla, New Mexico	26.07	662.2	29.79	756.7	47.5	8.6	51	calm	0	0	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Leavenworth, Kansas	28.97	735.8	29.84	757.9	65	18.3	84	e.	1	0.4	.....	.....	10 s	.....	se.	0.02	0.5	cloudy	A. W. Browne.
Lewiston, Idaho	29.10	739.1	29.92	760.0	54.5	12.5	71	calm	0	0	.....	9 k	0	n.	.....	0	0	cloudy	W. Bell.
Little Rock, Arkansas	29.61	752.1	29.92	760.0	69	20.6	93	e.	6	2.7	.....	3 ck	6 s	.....	e.	0.57	14.5	cloudy	W. U. Simmons.
Los Angeles, California	29.56	750.8	29.96	761.0	57.3	14.1	80	sw.	4	1.8	.....	.....	10 s	.....	calm	0	0	cloudy	E. F. Kubel.
Louisville, Kentucky	29.43	747.5	29.98	761.5	71	21.7	90	se.	1	0.4	.....	.....	10s;fg	.....	.....	0.78	19.8	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.56	750.8	30.23	767.8	66.0	18.9	63	ne	1	0.4	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	W. R. Bushley.
Madison, Wisconsin	29.02	737.1	30.01	762.2	57	13.9	69	e.	3	1.3	.....	1 c	0	w.	.....	0	0	clear	C. A. Shaw.
Marquette, Michigan	29.34	745.2	30.06	763.5	62	16.7	47	se.	2	0.9	.....	0	sk.	.....	.....	0	0	dense smoke	J. Gilligan.
Memphis, Tennessee	29.65	753.1	29.98	761.5	77	25.0	69	se.	4	1.8	.....	.....	10 s	.....	.....	1.00	25.4	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.30	744.2	30.04	763.0	56	13.3	74	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. Line.

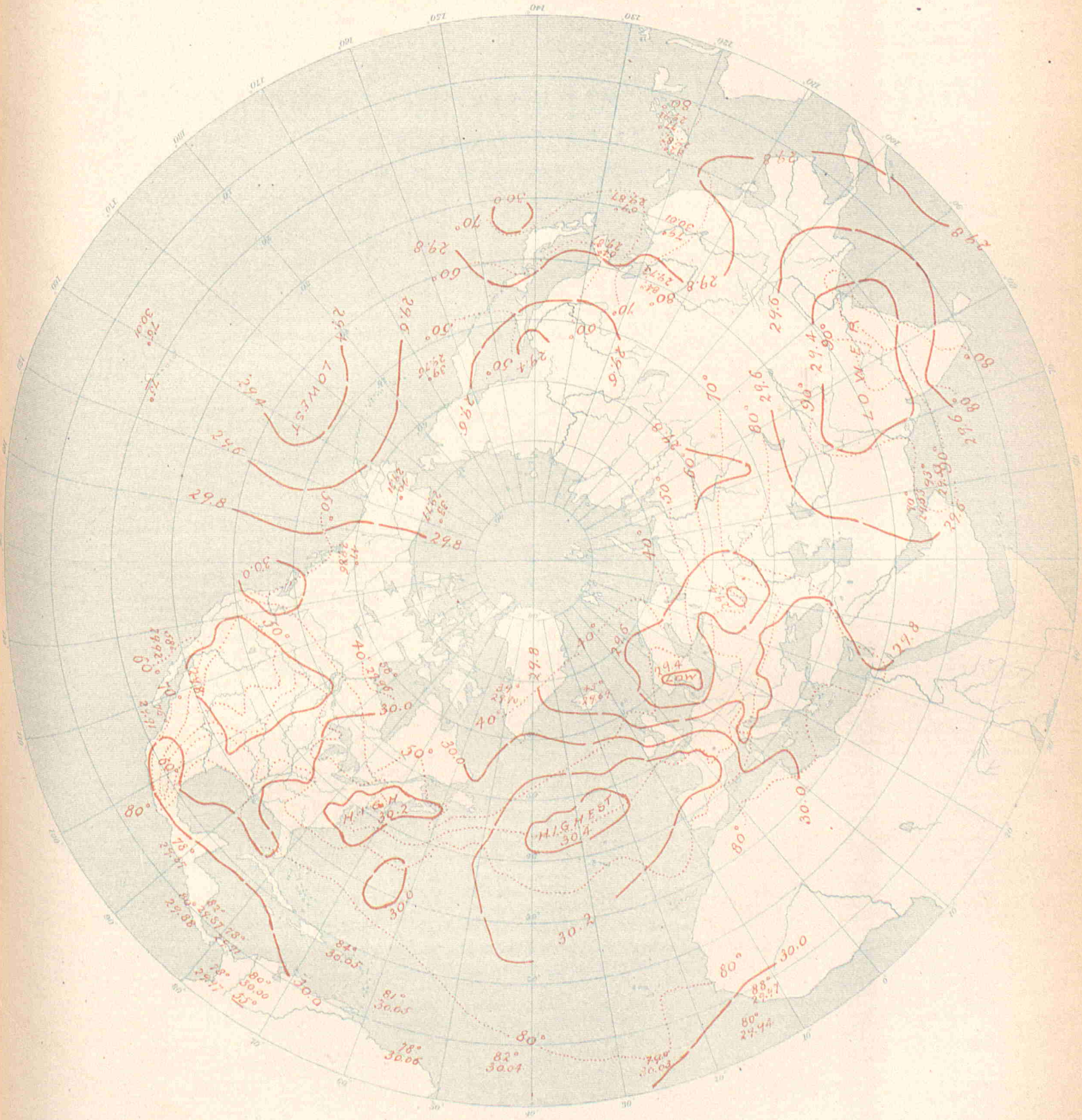
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Mobile, Alabama	29.97	761.2	30.01	762.2	78.7	25.8	74	e.	8	3.6	.....	8 cs	0	se.	.....	0	0	cloudy	J. D. Paxton.
Montgomery, Alabama	29.83	757.7	30.06	763.5	73.6	23.1	85	se.	8	3.6	.....	1 cs	7 ks	.....	se.	0.01	0.3	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	28.82	732.0	29.79	756.7	67	19.4	84	se.	16	7.2	.....	10 cs	0	.....	.....	inap.	inap.	cloudy	H. Bessant.
Morgantown, W. Virginia	29.13	739.9	30.13	765.3	67.0	19.4	84	calm	0	0	.....	1 k	hz.	.....	.....	0.07	1.8	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	24.05	610.9	30.17	766.3	43.5	6.4	23	nw.	9	4.0	.....	0	0	.....	.....	0	0	clear	J. G. Linsley.
Nashville, Tennessee	29.51	749.5	30.03	762.7	78.0	25.6	64	se.	6	2.7	.....	7 cs	0	w.	.....	inap.	inap.	fair	L. A. Jesunofsky.
New Haven, Connecticut	30.14	765.5	30.25	768.3	59	15.0	81	s.	1	0.4	.....	7 c	0	.....	.....	0	0	fair	J. H. Sherman.
New London, Connecticut	30.23	767.8	30.28	769.1	61	16.1	78	calm	0	0	.....	7 c	0	.....	.....	0	0	fair	J. G. Lynch.
New Orleans, Louisiana	29.91	759.7	29.96	761.0	79.5	26.4	84	s.	1	0.4	.....	7 c	sk.	w.	.....	0	0	fair	L. Dunne.
Newport, Rhode Island	30.22	767.6	30.27	768.8	60.2	15.7	64	ne.	3	1.3	.....	6 c	0	w.	.....	0	0	fair	W. McGillivray.
New River, N. Carolina	.....	.....	.....	.....	65	18.3	69	ne.	.....	.....	1	0	0	.....	.....	0	0	clear	C. C. Corbin.
New Shoreham, Rhode I'd.	30.23	767.8	30.26	768.6	55.0	12.8	80	nw.	6	2.7	.....	7 cs	0	nw.	.....	0	0	cloudy	W. Davis.
New York, New York	30.09	764.3	30.26	768.6	60	15.6	70	sw.	2	0.9	.....	3 cs	0	sw.	.....	0	0	clear	J. B. Merrill.
Norfolk, Virginia	30.21	767.3	30.24	768.1	63	17.2	78	e.	4	1.8	.....	.....	10 ks	.....	nw.	0	0	cloudy	J. T. Elker.
North Platte, Nebraska	26.83	681.5	29.63	752.6	60.6	15.9	93	s.	8	3.6	.....	0	5 s	.....	.....	0.02	0.5	fair	E. F. Brady.
Olympia, Washington T'y	30.09	764.3	30.13	765.3	46.0	7.8	93	nw.	1	0.4	.....	5 k	0	n.	.....	0	0	fair	J. Dascomb.
Omaha, Nebraska	28.70	729.0	29.84	757.9	64.0	17.8	90	se.	8	3.6	.....	4 cs	6 s; ks	se.	.....	inap.	inap.	cloudy	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	29.75	755.6	29.77	756.1	33.0	0.6	99	ne.	9	4.0	.....	8 cs	2 s	.....	ne.	0	0	cloudy	P. H. Ray.
Oswego, New York	29.86	758.4	30.18	766.6	61.0	16.1	72	s.	5	2.2	.....	0	0	.....	.....	0	0	clear	S. W. Beall.
Palestine, Texas	29.38	746.2	29.92	760.0	78.0	25.6	88	s.	9	4.0	.....	0	6 ks	.....	s.	0.03	0.8	fair	L. M. Pindell.
Pensacola, Florida	29.99	761.7	30.02	762.5	75.4	24.1	90	e.	9	4.0	.....	.....	10 s	.....	se.	0	0	cloudy	M. McGauran.
Philadelphia, Pa.	30.18	766.6	30.28	769.1	64	17.8	68	s.	1	0.4	.....	5 ck	0	sw.	.....	0	0	fair	T. F. Townsend.
Pike's Peak, Colorado	17.64	448.0	29.46	748.3	19	— 7.2	100	nw.	28	12.5	.....	.....	10 n	.....	nw.	0.09	2.3	light snow	L. M. Dey.
Pioche, Nevada	23.93	607.8	29.73	755.1	47	8.3	96	n.	1	0.4	.....	.....	10 n	.....	sw.	0.66	16.8	heavy rain	C. N. Kitchel.
Pittsburg, Pennsylvania	29.32	744.7	30.10	764.5	63.8	17.7	73	ne.	2	0.9	.....	4 ck	0	sw.	.....	0	0	fair	J. H. Bryce.
Poplar River, Montana	27.66	702.6	.....	.....	.....	.....	.....	ne.	.....	.....	1	0	0	.....	.....	0.08	2.0	clear	U. D. Maxwell.
Port Eads, Louisiana	29.99	761.7	30.00	762 0	78.0	25.6	97	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	H. G. Christian.
Port Huron, Michigan	29.44	747.8	30.11	764.8	59.9	15.5	51	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. O. Bailey.
Portland, Maine	30.19	766.8	30.24	768.1	60.0	15.6	50	w.	7	3.1	.....	0	hz.	.....	.....	0	0	clear	W. W. Eichelberger.
Portland, Oregon	30.03	762.7	30.10	764.5	49.8	9.9	77	nw.	1	0.4	.....	2 cs	6 s	calm	calm	0	0	cloudy	M. L. Hearne.
Portsmouth, N. Carolina	.....	.....	.....	.....	62	16.7	78	ne.	24	10.7	.....	6 c	0	n.	.....	0	0	fair	F. P. Chaffee.
Prescott, Arizona	24.73	628.1	29.75	755.6	46	7.8	65	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. Mc N. Wright.
Provincetown, Mass.	30.22	767.6	30.26	768.6	57.5	14.2	57	nw.	4	1.8	.....	3 cs	2 s	.....	.....	0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	29.97	761.2	29.98	761.5	76	24.4	90	se.	3	1.3	.....	0	7 ks	.....	w.	0.30	7.6	fair	W. J. Evans.
Red Bluff, California	29.47	748.5	29.83	757.7	62.3	16.8	47	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.62	752.3	29.85	758.2	81	27.2	79	s.	6	2.7	.....	0	7 ks	.....	s.	0	0	fair	P. M. Wilson.
Rochester, New York	29.52	749.8	30.17	766.3	60	15.6	75	sw.	5	2.2	.....	0	hz.	.....	.....	0	0	clear	E. W. McGann.
Roseburg, Oregon	29.53	750.0	30.08	764.0	45	7.2	83	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. J. Nanry.
Sacramento, California	29.76	755.9	29.83	757.7	57.5	14.2	80	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.37	746.0	29.96	761.0	67.0	19.4	100	se.	6	2.7	.....	.....	10 s	.....	sw.	0.01	0.3	cloudy	J. H. Webber.
St. Paul, Minnesota	29.07	738.4	29.92	760.0	61.0	16.1	72	e.	8	3.6	.....	4 cs	0	sw.	.....	0	0	fair	P. F. Lyons
St. Vincent, Minnesota	28.89	733.8	29.74	755.4	62	16.7	87	se.	12	5.4	.....	0	2 s	.....	calm	0.03	0.8	clear	G. Kingsbury.
Salt Lake City, Utah	25.50	647.7	29.72	754.9	58	14.4	60	calm	0	0	.....	.....	10 s	.....	.....	0.46	11.7	threatening	J. Craig.
San Antonio, Texas	29.16	740.7	29.84	757.9	77	25.0	85	se.	5	2.2	.....	.....	9 ks	.....	se.	0	0	cloudy	E. Lane.
San Diego, California	29.84	757.9	29.91	759.7	61.3	16.3	77	w.	2	0.9	.....	.....	10 s	.....	w.	0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.40	746.7	30.07	763.8	63.3	17.4	84	se.	6	2.7	.....	0	0	.....	.....	0	0	clear	M. H. Perry.
Sandy Hook, New Jersey	30.23	767.8	30.27	768.8	60.5	15.8	75	sw.	1	0.4	.....	5 k	0	sw.	.....	0	0	fair	B. A. Blundon.
San Francisco, California	29.81	757.2	29.88	758.9	52	11.1	86	s.	6	2.7	.....	1 c	0	nw.	.....	0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.16	588.3	29.67	753.6	44	6.7	45	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Savannah, Georgia	30.03	762.7	30.12	765.0	72	22.2	84	n.	7	3.1	.....	.....	10 n	.....	n.	inap.	inap.	light rain	H. W. Ford.
Shreveport, Louisiana	29.70	754.4	29.93	760.2	77	25.0	90	s.	2	0.9	.....	7ck;c	2 s	s.	.....	0	0	cloudy	E. N. Meekins.
Silver City, New Mexico	24.25	615.9	29.75	755.6	44	6.7	58	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. B. Wallace.
Sitka, Alaska	29.80	756.9	29.86	758.4	46.6	8.1	86	ne.	8	3.6	.....	.....	10 ks	.....	.....	0.24	6.1	cloudy	J. J. McLean.
Smithville, North Carolina	30.13	765.3	30.17	766.3	70	21.1	76	e.	13	5.8	.....	2 c	0	.....	.....	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.94	709.7	29.98	761.5	52	11.1	80	sw.	6	2.7	.....	9 k	0	sw.	.....	0	0	cloudy	D. Moore.
Springfield, Illinois	29.31	744.5	29.98	761.5	67	19.4	90	e.	2	0.9	.....	1 c	4 s	w.	w.	0	0	fair	T. B. Jennings.
Springfield, Massachusetts	30.14	765.5	30.27	768.8	60.0	15.6	70	s.	1	0.4	.....	4 c	hz.	w.	.....	0	0	fair	T. S. Outram.
Springfield, Mo.	28.43	722.1	29.89	759.2	69	20.6	84	s.	16	7.2	.....	4 c	6 s	w.	s.	0.67	17.0	cloudy	J. B. Marbury.
Starkville, Miss.	29.56	750.8	30.04	763.0	77	25.0	74	se.	14	6.3	.....	7 cs	0	.....	.....	0	0	fair	M. J. Wright.
Stockton, Texas	26.92	683.8	29.84	757.9	61.0	16.1	52	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Thatcher's Island, Mass.	30.20	767.1	30.25	768.3	58.8	14.9	80	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	G. Liebmann.
Toledo, Ohio	29.37	746.0	30.05	763.3	63	17.2	90	e.	7	3.1	.....	0	7 k	.....	se.	0	0	fair	A. Buell.
Tucson, Arizona	27.47	697.7	29.77	756.1	58	14.4	50	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.66	753.4	30.02	762.5	54	12.2	61	w.	3	1.3	.....	1 cs	1 s	.....	.....	0	0	clear	J. Daly.
Uvalde, Texas	28.82	732.0	29.76	755.9	77	25.0	85	se.	12	5.4	.....	.....	10 ks	.....	se.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.72	754.9	29.98	761.5	79	26.1	77	se.	1	0.4	.....	7 c	0	.....	.....	0	0	fair	H. P. Brisbane.
Visalia, California	29.46	748.3	29.83	757.7	60	15.6	60	sw.	2	0.9	.....	3 cs	0	.....	.....	0	0	clear	W. L. Seward.
Washington, D. C.	30.14	765.5	30.25	768.3	67.7	19.8	66	se.	3	1.3	.....	3 k	7 s	w.	.....	0	0	cloudy	B. M. Purssell.
West Las Animas, Colorado	25.86	656.8	29.64	752.8	53	11.7	86	w.	2	0.9	.....	5 c	3 s	sw.	calm	0.04	1.0	cloudy	F. W. Brandenburg.
Williamsport, Pa.	29.64	752.8	30.24	768.1	58	14.4	74	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	B. F. Hough.
Wilmington, N. Carolina	30.12	765.0	30.17	766.3	65	18.3	73	ne.	7	3.1	.....	2 cs	0	.....	.....	0	0	clear	A. T. Sherwood.
Winnemucca, Nevada	25.54	648.7	29.80	756.9	50	10.0	80	s.	6	2.7	.....	.....	10 n	.....	calm	0.11	2.8	light rain	J. R. Williams.
Yankton, Dakota	28.54	724.9	29.82	757.4	63	17.2	90	se.	12	5.4	.....	.....	10 n	.....	.....	0.03	0.8	light rain	J. H. Atfield.
Yuma, Arizona	29.62	752.3	29.76	755.9	66.2	19.0	78	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.03	559.6	.....	.....	55.0	12.8	67	ne.	5	2.2	.....	1 k	6 s; ks	n.	nw.	0.01	0.3	fair	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.04	763.0	30.05	763.3	81	27.2	95	e.	.....	.....	.....	5 k	10 s	e.	.....	0	0	.....	J. A. Racker.
Buenaventura, U. S. C.	29.94	760.5	29.97	761.2	78	25.6	86	calm	0	0	.....	6 c	4 ks	s.	calm	0.80	20.3	cloudy	J. I. Plume.
Havana, Cuba, W. I.	29.97	761.2	30.02	762.5	81	27.2	69	calm	0	0	.....	2 cs	0	.....	.....	0	0	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	29.99	761.7	30.00	762.0	80.6	27.0	70	calm	0	0	.....	0	2 s	.....	e.	0	0	fine	Robert Johnston.
Magua, San Domingo, W. I.	.....	.....	.....	.....	75	23.9	.....	calm	.....	.....	0	0	0	.....	.....	0	0	.....	S. M. Pike.
Paramaribo, S. A.	30.06	763.5	30.06	763.5	78	25.6	86	e.	.....	.....	2	3 c	4 k	e.	.....	0.440	11.2	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.54	750.3	30.00	762.0	80	26.7	89	calm	.....	.....	0	0	9 s	.....	calm	2.03	51.6	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	92	ne.	.....	.....	1	.....	.....	.....	.....	0	0	fair	Earl Flint.
Santiago de Cuba, W. I.	29.97	761.2	30.00	762.0	81	27.2	61	n.	3.6	1.6	.....	2 c	0	.....	.....	0	0	fair	Robert Mason.
York Factory, B. A.	29.89	759.2	29.96	761.0	38.0	3.3	95	e.	13	5.8	.....	3 k	2 s	e.	e.	0	0	fair	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
British Naval.																		
H. M. S. Alert, S. 34° 54′, E. 20° 58′	30.12	765.0	63.5	17.5	90	ne.			2		3							d. clouds.
H. M. S. Alexandra, N. 31° 38′ E. 29° 42′	29.81	757.2	73.5	23.1	85	wnw.			3-4		0					1	wnw.	misty.
H. M. S. Amethyst, S. 32° 12′, W. 49° 39′	30.05	763.3	65	18.3	94	nw.			6		8	w.				3	nnw.	squally.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	30.04	763.0	70	21.1		n.			3									blue sky.
H. M. S. Arab, Muscat, Arabia	29.43	747.5	93	33.9	54	calm			0		0							blue sky.
H. M. S. Bacchante, Corfu, Ionian Islands	29.99	761.7	75	23.9	72	se.			1		0							blue sky.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.04	763.0	65	18.3		calm			0		0							blue sky.
H. M. S. Champion, Honolulu, Sandwich Islands			75	23.9		nne.			3-5		4							squally.
H. M. S. Cleopatra, N. 28° 30′, E. 123° 16′	29.87	758.7	68.5	20.3	100	ese.			2		9					1	se.	showery.
H. M. S. Coquette, Port Said, Egypt	29.79	756.7	78	25.6		n.			2		0							blue sky.
H. M. S. Cruiser, N. 39° 39′, E. 19° 59′	29.93	760.2	76	24.4		se.			1		0							blue sky.
H. M. S. Diamond, S. 16° 32′, E. 161° 40′	29.93	760.2	79.5	26.4	86	ene.			2		9					1	ne.	d. clouds.
H. M. S. Dido, N. 10° 42′, W. 66° 40′						sse.			2		3	e.				2	ne	d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	29.93	760.2	74.5	23.6	95	sse.			1-2		8	sse.						d. clouds.
H. M. S. Dwarf, S. 25° 16′, W. 57° 45′	29.83	757.7	57	13.9	97	calm			0		9							d. clouds.
H. M. S. Eclipse, S. 4° 37′, E. 55° 30′	30.00	762.0	79	26.1		ese.			3		2							d. clouds.
H. M. S. Emerald, S. 54° 50′ W. 57° 10′	29.58	751.3	40	4.4	?	n.			0							6	nw.	squally.
H. M. S. Fawn, S. 20° 09′, E. 57° 32′	30.06	763.5	78	25.6	70	wsw.			1		4	sw.				1	wsw.	d. clouds.
H. M. S. Fantome, N. 10° 58′, W. 83° 40′	29.87	758.7	82	27.8		se.			3		7	se.				1	se.	showery.
H. M. S. Flying Fish, N. 37° 19′, E. 126° 14′	29.87	758.7	63.5	17.5	88	calm			0		2							d. clouds.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.06	763.5	50	10.0	86	se.			1-2		0							misty.
H. M. S. Garnet, Montevideo, Uruguay.	30.05	763.3	46	7.8	92	nne.			6		2							blue sky.
H. M. S. Griffon, N. 47° 34′, W. 52° 41′	30.14	765.5	45	7.2	92	n.			1		10							misty.
H. M. S. Inconstant, N. 6° 00′ W. 15° 15′	30.04	763.0	80	26.7	86	ssw.			3		7	ssw.				2	ssw.	d. clouds.
H. M. S. Iron Duke, N. 34° 35′, E. 138° 50′	29.96	761.0	71	21.7	100	sw.			3-4		4	ssw.						d. clouds.
H. M. S. Kingfisher, N. 10° 14′, W. 86° 40′	29.88	758.9	80	26.7		calm			0		1							blue sky.
H. M. S. Lark, S. 10° 37′, E. 162° 30′	29.95	760.7	80.3	26.8		e.			1		0							blue sky.
H. M. S. Magpie, N. 34° 58′, E. 140° 15′	29.98	761.5	70.3	21.3	82	ssw.			2-3		7					2	ssw.	d. clouds.
H. M. S. Minotaur, Gibraltar, Mediterranean	30.04	763.0	70	21.1	77	ene.			3		3							misty.
H. M. S. Nelson, S. 41° 30′, E. 175° 20	30.15	765.8	54	12.2	93	nne.			3-5		9					4	n.	misty.
H. M. S. Northampton, Halifax, Nova Scotia	30.13	765.3	56	13.3	80	nnw.			1		0							blue sky.
H. M. S. Phœnix, N. 18° 37′, W. 77° 49′	29.98	761.5	80	26.7	100	ene.			1		2					1	ene.	d. clouds.
H. M. S. Rambler, Saint Paul de Loanda, Benguela	30.01	762.2	72	22.2	95	nw.			2		0							blue sky.
H. M. S. Rocket, N. 49° 15′, W. 124° 00′	30.05	763.3	50	10.0	100	nnw.			2		3							d. clouds.
H. M. S. Sappho, S. 26° 24′, W. 104° 00′	30.21	767.3	68.5	20.3		calm			0		2	calm				3	w.	d. clouds.
H. M. S. Swiftsure, Porto Grande, Cape Verd Islands	30.14	765.5	73.5	23.1	68	nne.			4-5		4	nnw.				2	nnw.	d. clouds.
H. M. S. Tenedos, N. 46° 43′ W. 53° 22′	30.17	766.3	48.5	9.2	93	ne.			3		10							misty.
H. M. S. Triumph, Coquimbo, Chili	30.05	763.3	53	11.7	100	calm			0		2	calm						d. clouds.
H. M. S. Woodlark, N. 25° 36′ E. 57° 40′	29.45	748.0	89.5	31.9	73	w.			3-4									dense mist.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verde Islands	30.15	765.7	79.5	26.4	79	ne.			2		2					1		d. clouds.
Tamega, Macao, China	29.70	755.8	82.9	28.3	82	ne.			3		6		ne.					d. clouds.
Swedish Naval.																		
Saga, N. 43° 45′, W. 10° 41′	30.34	770.6	64.8	18.2	67	ne.			5		1							blue sky.
United States Naval.																		
Navy Yard, Pensacola, Fla	30.00	762.0	77	25.0	86	e.	9	4.0			10		e.	0	0			cloudy.
Navy Yard, Portsmouth, N. H.	30.23	767.8	58	14.4	76	calm	0	0			0			0	0			clear.
Naval Hospital, Yokohama, Japan*	29.85	758.2	68.5	20.3	84	sw.			3		10		sw.	0	0			gloomy.
Adams, Mare Island, Cal	29.89	759.2	57	13.9	87	sw.			1-2		2							clear.
Alaska, Callao, Peru	29.95	760.7	61	16.1	94	w.			1		10			0	0	sm'h		cloudy.
Alert, Yokohama, Japan*	29.86	758.4	72	22.2	71	ssw.			2		8		calm	0	0	sm'h		cloudy.
Alliance, Hampton Roads, Va	30.26	768.6	64	17.8	73	ene.			2		10		ene.	0	0	sm'h		cloudy.
Ashuelot, Yokohama, Japan	29.93	760.2	71	21.7	75	sw.			2		10		ssw.					cloudy.
Brooklyn, Rio de Janeiro, Brazil	30.28	769.1	70	21.1	90	se.	3	1.3			8		calm	0	0	sm'h		fair.
Colorado, New York, N. Y	30.26	768.6	65	18.3	78	calm	0	0			5		calm	0	0			light haze.
Enterprise, Norfolk, Va*	30.21	767.3	64	17.8	83	ene.			2		8		ene.					fair.
Essex, S. 41° 22′, W. 58° 37′	29.37	746.0	49	9.4	85	wnw.			6		10					r'gh	nw.	rainy.
Franklin, Norfolk, Va	30.25	768.3	63	17.2	78	ene.	9	4.0			10			0	0			cloudy.
Galena, Alexandria, Egypt	29.84	757.9	76	24.4	95	nw.			3		0					sm'h		clear.
Independence, Navy Yard, Mare Island, Cal	29.91	759.7	56	13.3	100	sw.			2		0			0	0			clear.
Iroquois, San Francisco, Cal	29.84	757.9	53	11.7	80	calm			0		0							clear.
Kearsarge, off Norfolk, Va	30.23	767.8	63	17.2	89	e.			2		10					sm'h		cloudy.
Lackawanna, Paita, Peru*	29.95	760.7	62	16.7	83	se.			2		10		e.					cloudy.
Lancaster, Cadiz, Spain*	29.98	761.5	73	22.8	85	sw.			1		0			0	0	sm'h		clear.
Marion, S. 34° 54′, W. 56° 13′	30.01	762.2	48	8.9	100	nnw.			5		2		nnw.	0	0	sm'h		fair.
Michigan, Detroit, Mich	30.02	762.5	63	17.2	83	e.			2		2		e.					fair.
Minnesota, Newport, R. I.	30.33	770.4	60	15.6	71	nnw.	3	1.3			5		nw.					
Monocacy, Nagasaki, Japan	29.94	760.5	66	18.9	94	nne.			2		10		calm					rainy.
New Hampshire, Newport. R. I.	30.17	766.3	60	15.6	76	nnw.			1		5					sm'h		fair.
Nipsic, N. 44° 59′, E. 12° 58′	29.81	757.2	70	21.1	66	ssw.			4		3					sm'h		clear.
Onward, Callao, Peru†	30.09	764.3	60	15.6	94	wsw.			1		10		ne.			long	w.	cloudy.
Palos, Kobe, Japan	29.98	761.5	71	21.7	90	calm			0		10		calm					cloudy.
Passaic, Washington, D. C.	30.28	769.1	65	18.3	100	se.			1		8		se.					fair.
Pensacola, Callao, Peru	29.96	761.0	60	15.6	94	nw.	4	1.8			10			0	0	sm'h		cloudy.
Powhatan, Fort Monroe, Va	30.23	767.8	65	18.3	68	ene.			2		10		ne.					cloudy.
Portsmouth, off Ryde, Isle of Wight, Eng*	30.00	762.0	55	12.8	100	nw.			6		8		nw.			sm'h		cloudy.
Quinnebaug, Funchal, Madeira	30.11	764.8	69	20.6	70	wsw.			1		5		e.			sm'h		fair.
Ranger, San Francisco, Cal.*	29.87	758.7	58	14.4	88	sse			1		0			0	0	sm'h		clear.
Richmond, Nagasaki, Japan*	29.86	758.4	68	20.0	95	calm			0		10			0.1	3.			cloudy.
Saratoga, off Ryde, Isle of Wight, Eng*	30.02	762.5	54	12.2	67	nw.			4		8		nw.	0	0	sm'h		cloudy.
St. Louis, League Island, Pa	30.37	771.4	63	17.2	78	calm	0	0			8			0	0			cloudy.
Swatara, Nagasaki, Japan*	29.76	755.9	66	18.9	66	ene.			2		10		calm			sm'h		light rain.
Tennessee, Fort Monroe, Va	30.27	768.8	66	18.9	68	ene.	3	1.3			10			0	0			cloudy.
Vandalia, Hampton Roads, Va*	30.21	767.3	64	17.8	73	ene.			2		2?		calm					cloudy?
Wabash, Boston, Mass	30.25	768.3	58	14.4	76	wnw.	3	1.3			2		w.	0	0			clear.
Wachusetts, Fort Wrangle, Alaska	29.84	757.9	51	10.6	93	e.			1		10					sm'h		misty.
Wyoming, Port Royal, S. C.	30.10	764.5	71	21.7	100	ne.	14	6.3			8		ne.	0	0			cloudy.
Yantic, Hampton Roads, Va*	30.21	767.3	64	17.8	73	ene.			2		8							hazy.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Nova Scotian, off the Isle of Man	29.88	758.9	46	7.8	.....	sw.	.....	.....	4	.....	10	.....	ssw.	.....	.....	sm'h	.....	raining.
S. S. Prussian, N. 51° 50′ W. 19° 37′*	30.13	765.3	58	14.4	.....	w.	.....	.....	4	.....	8	.....	wnw.	o	o	mod.	w.	cloudy.
S. S. Scandinavian, N. 42° 20′ W 60° 51′*	30.00	762.0	49	9.4	.....	n.	.....	.....	6	.....	3	.....	ese.	o	o	long	sse.	d. clouds.
S. S. Waldensian, N. 49° 46′, W. 32° 27′*	30.34	770.6	56	13.3	.....	sw.	.....	.....	5	.....	2?	.....	wsw.	o	o	light	wsw.	cloudy.?
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, N. 49° 24′, W. 24° 19′	30.41	772.4	59	15.0	88	wsw.	.....	.....	3	.....	8	.....	w.	.....	.....	sm'h	w.	
S. S. Indiana, N. 51° 07′, W. 14° 06′†	30.41	772.4	56	13.3	94	w.	.....	.....	4	.....	8	.....	w.	.....	.....	mod.	w.	fair.
S. S. Lord Clive, N. 46° 52′, W. 37° 48′ *†	30.29	769.4	.....	.....	.....	wsw.	.....	.....	2	.....	8	.....	wsw.	o	o	.....	.....	cloudy.
S. S. Pennsylvania, N. 39° 21′, W. 59° 49′†	30.04	763.0	74	23.3	.....	se.	.....	.....	4	.....	1?	.....	se.	.....	.....	mod.	se.	cloudy.?
ANCHOR LINE.																		
S. S. Bolivia, N. 54° 08′, W. 13° 14′†	30.07	763.8	52	11.1	.....	w.	.....	.....	5	.....	5?	.....	w.	driz.	driz.	r'gh	w.	cloudy.?
S. S. Ethiopa, N. 40° 36′, W. 65° 10′	30.13	765.3	53	11.7	?	nne.	.....	.....	5	.....	5?	.....	nw.	6 h'r	6 h'r	r'gh	ne.	clear.?
S. S. Utopia, Piano di Sorrento, Italy†	30.22	767.6	72	22.2	54	wsw.	.....	.....	2	.....	9	.....	w.	o	o	mod.	.....	cloudy.
ATLAS LINE.																		
S. S. Ailsa, Savanilla, U. S. C. †	29.99	761.7	84	28.9	83	calm	.....	.....	0	.....	0	.....	.....	o	o	.....	.....	fair.
S. S. Alvena, Mayagues, Porto Rico, W. I.†	29.92	760.0	81	27.2	78	calm	.....	.....	0	.....	0	.....	.....	o	o	.....	.....	fine.
S. S. Alvo, Colon, U. S. C.	29.95	760.7	.....	.....	.....	n.	.....	.....	2	.....	4	.....	w.	3 h'r	3 h'r	.....	.....	hazy.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 38° 23′ E. 64° 45′	29.65	753.1	56.7	13.7	74	w.	.....	.....	5	.....	9	.....	.....	.....	.....	.....	.....	d. clouds.
S. Baroda, N. 3° 44′. E. 94° 20′	29.88	758.9	83.5	28.6	71	wsw.	.....	.....	1	.....	5	.....	.....	.....	.....	.....	.....	d clouds.
British Merchant, N. 13° 50′, W. 29° 56′	30.13	765.3	78.1	25.6	78	ne.	.....	.....	4-5	.....	4	.....	.....	.....	.....	.....	.....	misty.
S. S. Cipero, N. 17° 12′, W 55° 08′	30.09	764.3	83	28.3	81	ese.	.....	.....	2	.....	1	.....	.....	.....	.....	.....	.....	blue sky.
S. S. Glencairn, S. 16° 10′, W. 5° 00′	30.19	766.8	76	24.4	68	sse.	.....	.....	3-4	.....	5	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Gordon Castle, N. 3° 25′, E. 91° 30′	29.82	757.4	84	28.9	83	sw.	.....	.....	3-4	.....	5	.....	.....	.....	.....	.....	.....	d. clouds.
Bkt. May Hulse, S. 57° 18′, W. 66° 20′	29.38	746.2	39	3.9	91	wsw.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	.....	drizzling.
S. S. Minho, S. 11° 04′, W. 36° 38′	30.12	765.0	80	26.7	98	se.	.....	.....	5	.....	3	.....	.....	.....	.....	.....	.....	d clouds.
S. S. Pole Star, S. 30° 15′, W. 30° 59′	30.41	772.4	63.4	17.4	67	sw.	.....	.....	2	.....	9	.....	.....	.....	.....	.....	.....	gloomy.
CROMWELL LINE.																		
S. S. Hudson, N. 40° 40′, W. 74° 00′†	30.07	763.8	55	12.8	.....	sw.	.....	.....	1	.....	3	.....	sw.	o	o	long	ne.	fair.
CUNARD LINE.																		
S. S. Marathon, N. 51° 15′, W. 12° 40′	30.23	767.8	58	14.4	.....	w.	.....	.....	5	.....	8	.....	w.	o	o	r'gh	w.	fine.
S. S. Scythia, N. 50° 32′ E. 22° 37′	30.37	771.4	59	15.0	85	w.	.....	.....	3	.....	9	.....	w.	o	o	mod.	w.	cloudy.
GENERAL TRANS-ATLANTIC COMPANY																		
S. S. St. Laurent, N. 43° 08′, W. 40° 59′†	30.61	777.5	60.8	16.0	79	e.	.....	.....	3	.....	.....	.....	.....	o	o	sm'h	e.	clear.
S. S. Ville de Marseilles, N. 37° 12′, W. 11° 16′ 0†	30.10	764.5	66	18.9	.....	n.	.....	.....	6	.....	0	.....	.....	o	o	hv'y	n.	clear.
GUION LINE.																		
S. S. Wisconsin, N. 50° 15′ W. 24° 00′†	30.30	769.6	54	12.2	.....	w.	.....	.....	3	.....	0	.....	.....	o	o	sm'h	w.	fine.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S Bohemia, N. 42° 50′, W. 44° 27′	.....	.....	.....	.....	.....	sw.	.....	.....	2	.....	10	.....	sw.	o	o	mod.	s.	foggy.
S. S. Cimbria, N. 49° 50′, W. 8° 15′	30.26	768.6	62	16.7	.....	wnw.	.....	.....	4	.....	7	.....	nnw.	o	o	mod.	wnw.	cloudy.
S. S. Gellert, N. 43° 47′, W. 44° 49′	30.40	772.1	62	16.7	.....	se.	.....	.....	2	.....	8	.....	sse.	8 h'r	8 h'r	sm'h	se.	raining.
S. S. Herder, N. 53° 30′, W. 5° 04′ *†	29.52	749.8	55	12.8	.....	wnw.	.....	.....	6	.....	2	.....	nw.	3 h'r	3 h'r	h'vy	wnw.	stormy.
S. S. Lessing, Hamburg, Germany	29.47	748.5	69	20.6	.....	sw.	.....	.....	7	.....	10	.....	sw.	rain	rain	.....	.....	
S. S. Wieland, N. 41° 02′, W. 63° 38′	30.17	766.3	55	12.8	.....	nne.	.....	.....	6	.....	10	.....	nne.	9 h'r	9 h'r	5	ne.	cloudy.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, Antwerp, Belgium *†	30.03	762.7	58	14.4	.....	w.	.....	.....	5	.....	8	.....	wnw.	.....	.....	.....	.....	light rain.
S. S. Humboldt, N. 40° 22′, W. 50° 00′*	30.21	767.3	72.5	22.5	82	se.	.....	.....	2	3 c	.....	.....	.....	o	o	3	.....	d. clouds.
LEYLAND LINE.																		
S. S. Iberian, N. 48° 04′, W. 35° 13′	30.38	771.6	.....	.....	.....	ssw.	.....	.....	3	.....	10	.....	sw.	o	o	.....	.....	overcast.
MALLORY LINE.																		
S. S. Colorado, N. 30° 27′, W. 80° 30′. †.	30.06	763.5	75	23.9	.....	se.	.....	.....	3	.....	7	.....	se.	sh'rs	sh'rs	mod.	se.	cloudy.
MERCHANTS EXPRESS LINE.																		
S. S. Freja, N. 36° 29′ W 73° 54′†	30.24	768.1	60	15.6	88	nw.	.....	.....	4	.....	0	.....	.....	o	o	mod.	ne.	clear.
S. S. Hermod, N. 38° 30′ W. 57° 30′*†	29.80	756.9	71.6	22.0	.....	se	.....	.....	3	.....	8	.....	sse	o	o	cross	.....	cloudy.
MERCHANT STEAMSHIP COMPANY.																		
S. S. Glenfyne, S. 0° 12′, W. 42° 27′	29.53	750.0	.....	.....	.....	e.	.....	.....	4	.....	.....	.....	se.	2 h'r	2 h'r	r'gh	e.	cloudy.
S. S. Glenapp, Rio de Janeiro, Brazil *†	30.06	763.5	.....	.....	.....	ne.	.....	.....	1	.....	7	.....	e.	o	o	.....	.....	cloudy.
NATIONAL LINE.																		
S. S. Denmark, N. 40° 36′ W. 61° 29′†	30.09	764 3	64	17.8	.....	ne.	.....	.....	6	.....	10	.....	.....	o	o	cross	.....	hazy.
S. S. England, N. 40° 48′, W. 58° 35′	30.03	762.7	.....	.....	.....	s.	.....	.....	5	.....	8	.....	s.	o	o	mod.	se.	cloudy.
S. S. Greece, N. 47° 39′, W. 27° 25′	30.43	772.9	.....	.....	.....	ssw.	.....	.....	2	.....	8	.....	ssw.	o	o	sm'h	nnw.	cloudy.
S. S. Holland, N. 49° 55′, W. 5° 04′	30.23	767.8	57	13.9	.....	n.	.....	.....	3	.....	8	.....	n.	o	o	sm'h	n.	fair.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, N. 35° 15′, W. 74° 20′*†	30.28	769.1	71	21.7	75	nne.	.....	.....	4	.....	3	.....	nne.	o	o	cross	.....	clear.
S. S. City of Washington, N. 21° 20′, W. 89° 38′*†.	30.10	764.5	85	29.4	.....	ne.	.....	.....	1	.....	2	.....	ene.	o	o	sm'h	.....	clear.
NORTH GERMAN LLOYD.																		
S. S. Elbe, N. 44° 45′, W. 39° 33′	30.44	773.2	58.1	14.5	94	w.	.....	.....	2-3	.....	2?	.....	sw.	o	o	sm'h	sw.	cloudy.?
S. S. Gen. Werder, N. 42° 40′, W. 43° 50′	30.38	771.6	.....	.....	.....	ssw.	.....	.....	3	.....	4?	.....	ssw.	o	o	sm'h	.....	cloudy.?
S. S. Graf Bismark, N. 38° 40′, W. 10° 45′	30.19	766.8	65.3	18.5	.....	nne.	.....	.....	6-7	.....	5	.....	nne.	.....	.....	high	nne.	fair.
S. S. Habsburg, N. 48° 16′, W. 31° 00′	30.44	773.2	61.7	16.5	.....	sw.	.....	.....	3	.....	10	.....	.....	o	o	sm'h	.....	cloudy.
S. S. Hermann, N. 40° 58′, W. 49° 11′†	30.15	765.8	68.0	20.0	.....	s.	.....	.....	0	.....	5	.....	sse.	1 h'r	1 h'r	mod.	s.	clearing.
S. S. Leipzig, N. 48° 06′, W 25° 49′	30.50	774.7	69.0	20.6	70	wsw.	.....	.....	1	.....	8	.....	w.	o	o	sm'h	.....	fair.
S. S. Mosel, N. 40° 39′, W. 57° 08′	30.12	765.0	73	22.8	.....	ssw.	.....	.....	5	.....	8	.....	ssw.	21 h'r	21 h'r	sm'h	.....	cloudy.
S. S. Ohio, N. 49° 37′ W. 60 22′	30.29	769 4	.....	.....	.....	wnw.	.....	.....	5	.....	5	.....	wnw.	o	o	mod.	nw.	fair.
S. S. Salier, Bremerhaven, Germany.	29.62	752.3	54.5	12.5	.....	nw.	.....	.....	6	.....	10	.....	nw.	4 h'r	4 h'	.....	.....	raining.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, Yokahama, Japan *†	29.67	753.6	73	22.8	90	sw.	.....	.....	2	.....	5	.....	wnw.	h'vy	hv'y	.....	.....	d. clouds.
S. S. Belgic, N. 35° 29′, E. 141° 29′†	30.14	765.5	75	23.9	72	sw.	.....	.....	2	.....	8	.....	ssw.	o	o	light	w.	cloudy.
S. S. Gaelic, N. 23° 34′, E. 117° 38′†	29.82	757.4	78	25.6	82	ne.	.....	.....	6	.....	4?	.....	ne.	.....	.....	r'gh	ne.	overcast.?
S. S. Oceanic, N. 47° 36′, W. 156° 44′*	29.39	740.5	50	10.0	93	s.	.....	.....	6	.....	10	.....	sw.	.....	.....	5	sw.	drizzling.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y†	30.25	768.3	.....	.....	.....	calm	.....	.....	0	.....	2	.....	w.	o	o	.....	.....	clear.
S. S. City of Columbus, New York, N. Y.†	30.15	765.8	.....	.....	.....	sw.	.....	.....	4	.....	0	.....	.....	o	o	.....	.....	clear.
S. S. Seminole, Savannah, Ga. †	30.17	766.3	75	23.9	72	ne.	.....	.....	1	.....	10	.....	e.	.....	.....	.....	.....	cloudy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Columbia, N. 45° 24′ W. 124° 05′†	30.11	764.8	58	14.4	76	n.	.....	.....	3	.....	9	.....	n.	.....	.....	sm'h	nnw.	cloudy.
S. S. Oregon, San Francisco, Cal.†	29.87	758.7	54	12.2	93	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	clear.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal.†	29.80	756.9	51	10.6	86	w.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. Dakota, San Francisco, Cal.*†	29.82	757.4	57	13.9	94	nw.	.....	.....	4	.....	5?	.....	nw.	.....	.....	long	nw.	cloudy.?
S. S. Geo. W. Elder, N. 45° 30′, W. 124° 50′ †	30.04	763.0	50	13.3	87	nw.	.....	.....	3	.....	8	.....	.....	.....	.....	sm'h	.....	cloudy.
S. S. Idaho, N. 51° 11′, W 127° 52′†	30.16	766.1	52	11.1	93	wnw.	.....	.....	5	.....	10	.....	n.	.....	.....	sm'h	n.	overcast.
S. S. Orizaba, N. 32° 40′ W. 117° 11′ †	30.07	763.8	64	17.8	94	se.	.....	.....	2	.....	.....	.....	se.	o	o	mod.	sw.	fair.
S. S. State of California, Portland, Oregon. †	30.07	763.8	57	13.9	47	nw.	.....	.....	2	.....	4	.....	nw.	.....	.....	.....	.....	fair.
S. S. Victoria, San Francisco, Cal. †	29.74	755.5	51	10.6	86	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	sm'h	.....	fair.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, N. 14° 58′, W. 160° 55′	30.01	762.2	76	24.4	86	e.	.....	.....	4	.....	5	.....	.....	3 h'r	3 h'r	long	e.	hazy.
S. S. City of New York, N. 37° 48′, W. 122° 21′†	30.03	762.7	67	19.4	64	nnw.	.....	.....	5	.....	8?	.....	nw.	o	o	sm'h	.....	clear ?
S. S. City of Pekin, Hong Kong, China†	29.77	759.1	80	26.7	82	ene.	.....	.....	5	.....	8	.....	ne.	o	o	sm'h	.....	cloudy.
S. S. City of Rio de Janeiro, Panama, Panama*†	30.09	764.3	80	26.7	82	wnw.	.....	.....	3	.....	6	.....	w.	o.1	3.	.....	w.	fair.
S. S. City of Sydney, Sydney, N. S. W.†	29.72	754.9	54	12.2	74	sw.	.....	.....	5	.....	5	.....	sw.	o	o	sm'h	.....	fair.
S. S. City of Tokio, N. 42° 21′, E. 165° 42′†	29.20	741.7	52	11.1	73	sw.	.....	.....	7	.....	10	.....	s.	8 h'r	8 h'r	r'gh	sw.	squally.
S. S. Clyde, N. 13° 53′, W. 90° 49′†	29.87	758.7	78	25.6	82	nnw.	.....	.....	1	.....	2	.....	nw.	1 h'r	1 h'r	long	sw.	clear.
S. S. Colima, N. 27° 42′, W. 115° 33′†	29.92	760.0	58	14.4	88	nw.	.....	.....	5	.....	10	.....	nw.	o	o	rg'h	nw.	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
PACIFIC MAIL STEAMSHIP COMPANY.—CONTINUED.																		
S. S. Colon, Aspinwall, Panama†	29.91	759.7	78	25.6		se.			2		9		ne.	0	0	mod.	nne.	cloudy.
S. S. Grenada, N. 17° 52′ W. 102° 41′.†	23.85	758.2	82	27.8	83	e.			1		0			0	0	light		clear.
S. S. South Carolina, Panama, Panama†	29.97	761.2	82	27.8	87	ne.			2		1			light	light	sm'h		fair.
S. S. Zealandia, Sydney, N. S. W	29.67	753.6	56	13.3	81	var.			1		2		w.			sm'h		fine
QUEBEC STEAMSHIP CO.																		
S. S. Muriel, N. 34° 53′, W. 69° 50′	30.07	763 8	71	21.7		n.			4		2			0	0	r'gh	ne.	fair.
S. S. Bermuda, Port of Spain, Cuba, W. I†	29.99	761.7	79	26.1		e.			1		7		ese.					fine.
RED STAR LINE.																		
S. S. Rhynland, N. 40° 15′, W. 58° 25′	29.99	761.7	64	17.8	89	sse.			3		10		sse.	1.5	38.	mod.	sse.	rainy.
S. S. Switzerland, N. 47° 00′, W. 29° 53′†	30.53	775.4				s.			2		2		s.	0	0	sm'h		fair.
S. S. Vaderland, N. 41° 41′, W. 48° 48′	30.01	762.2	69	20.6	43	sse.			3		5		s.	0	0	sm'h	s.	fair.
ROTTERDAM LINE.																		
S. S. W. A. Scholten, N. 43° 04′ W. 40° 15′	30.35	770.9	62.0	16.7	88	calm			0		8		se.	0	0			
STATE LINE.																		
S. S. State of Florida, N. 52° 21′, W. 20° 54′	29.99	761.7	53	11.7		sw.			7		10		wsw.	0	0	r'gh	wsw.	cloudy.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 41° 31′, W. 55° 24′†	30.34	770.6	65.3	18.5	53	s.			2		8		s.	0	0	mod.	s.	covered.
WARREN LINE.																		
S. S. Iowa, N. 49° 33′, W. 21° 48′*†	30.50	774.7	57	13.9		wsw.			5		10		wsw.	0	0	sli't	nne.	cloudy.
WHITE STAR LINE.																		
S. S. Britannic, N. 41° 42′, W. 52° 24′†	30.16	766.1	70	21.1	90	ssw.			4		5		sw.	0	0	sm'h		d. clouds.
S. S. Celtic, Off Orme's Head, Eng†	29.98	761.5	51	10.6	?	wnw.			5		5		wnw.	1 h'r	1 h'r	mod.	nw.	fair.
S. S. Germanic, N. 45° 22′, W. 40° 06′†	30.53	775 4	57	13.9		ssw.			1		8		wsw.			sm'h		d. clouds.
WILSON LINE.																		
S. S. Romano, N. 42° 16′, W. 50° 32′	30.09	764.3	60	15.6		ssw.					3					sm'h		clear.
MISCELLANEOUS.																		
Bg. Abbe Clifford, N. 18° 15′ W. 74° 24′.*†	30.05	763.3	83	28.3		e.			1		1			0	0	mod.	n.	
Schr. Addie Fuller, Hampton Roads, Va†	30.31	769.9	68	20.0	79	e.			2		9 s			0	0			cloudy.
Schr. Ajax, N. 29° 28′, W. 87° 42′†	30.00	762.0				e.			1		1		se.	0	0	sm'h	e.	clear.
Bk. Alpha, N. 24° 25′, W. 74° 05′†	29.98	761.5	84	28.9		se.			2		3		se.	0	0	sm'h		fair.
Schr Annie Lewis, Mobile, Ala†	30.10	764.5	77	25.0		se.			2		5?		se.	0	0			cloudy?
Bk. Annie Thormann, S. 13° 16′ W. 35° 07′	30.19	766.7	78.8	26.0	71	ese.			5		1 k		ese.	0	0	high	se.	clear.
S. S. Antonio Lopez, Cadiz, Spain	29.98	761.5	70	21.1	79	sw.			3		0			0	0			clear.
Schr. Asa Eldridge, Key West, Fla†	30.01	762.2				se.			1		5		calm	0	0			fair.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.41	772.4	76	24.4		nnw.			1		1		ne.	0	0			clear.
S. Annie M. Smull, N. 23° 08′. E. 117° 20′*†	29.80	756.9				ne.							ne.	2 h'r	2 h'r			cloudy.
Bk. Bergenseren. N. 39° 06′, W. 56° 33′†	30.04	762.9	73	22.8		s.			3				s.	0	0	4	w;s.	overcast.
Bk. Bremen, N. 54° 09′, E. 7° 15′						nw.			6		10		nw.	h'vy	h'vy	r'gh	nw.	raining.
Schr. C. R. Flint, Off Tampico Bar, Mexico†	30.06	763.5	81	27.2		s.			1		2		se.	0	0	mod	ese.	clear.
Schr. Edith R. Seward, N. 33° 54′ W. 78° 01′*†	30.14	765.5	70	21.1		ene.			1		1		calm	0	0	sm'h		clear.
S. E. J. Spicer, N. 45° 45′, W. 32° 20′†	30.47	773.9				ene.			2		8		ese.	0	0	mod.	ne.	
Bk. Essex, N. 5° 13′ W. 28° 00′*†	30.00	762.0	80	26.7		ese.			1		5?		se.	2 h'r	2 h'r	short	cross	cloudy.?
S. Exporter, S. 38° 20′, E. 66° 10′*†	30.10	764.5				n.			6		6		n.	0	0		n.	cloudy.
Bk Freya, N. 43° 36′ W. 32° 28′			61	16.1		ne.			4		10			0	0	sm'h		fair.
S. Grecian, N. 21° 00′ E. 113° 30′*†	29.63	752.6	81	27.2		e.			6		9		se.	2 h'r	2 h'r	sm'h	e.	fair.
Bk. Hattie G. McFarland, Sydney, Cape Breton*†	30.20	767.1	50	10.0		calm			0		3		nw.	0	0			fair.
S. Hedwig, N. 41° 07′, W. 47° 30′	30.32	770.2	64.8	18.2	93	ese.			2		2		ese.	0	0		e.	fine.
Bk. Horace Scudder, N. 33° 30′, W. 78° 20′†	30.13	765.3	72	22.2		ene.			2		2		ese.	0	0	long	se.	clear.
S. Ismir, S. 24° 00′, W. 37° 30′†	30.42	772.7				ese.			3		5		se.			short	se.	dull.
Schr. James Slater, N. 7° 06′ W. 45° 53′*†	30.24	768.1	82	27.8		s.			3		10		ese.	sqll's	sqll's	swell	ne.	rainy.
Schr. Jennie N. Huddle, Off Martha's Vineyard, Mass†	30.40	772.1	59	15.0	81	nne.			1		2		ne.	0	0			fair.
Schr. John L. Thomas, N. 12° 22′, W. 82° 23′ *†	29.96	761.0				ne.			6		10		se.	2 h'r	2 h'r	mod	ese.	
Bkt. Josephine, N. 35° 18′ W. 74° 21′†	30.31	769.9	76	24.4	66	ne.			5		5		ne.	0	0	long	ne.	fair.
Light House Tender, Laurel, Key West, Fla†	30.03	762.7	83	28.3		ese.			1		3		ese.	1 h'r	1 h'r			fair.
S. Minnie N. Gerow, N. 42° 14′, W. 59° 00′*†	30.00	762.0				nnw.			3		fog					sm'h	nnw.	foggy.
S. M. P. Grace, N. 24° 37′, W. 42° 40′*	30.22	767.6	74	23.3		se.			3				sse.	3 h'r	3 h'r	short	sse.	squally.
S. S. Nebo, St. John's, N. B*†	30.37	771.4				s.			2		0			0	0			clear.
S. Paramita, S. 54° 27′ W. 64° 20′†	29.72	754 9	41	5.0		wto sw			3		3		w.	0	0	sharp	wnw.	clear.
Bk. Peppina, N. 45° 32′, W. 4° 14′.†	30.26	768.6	59	15.0	67	nnw.			4		5?		n.	0	0	long	nw.	cloudy.?
S. S. Ponca, S. 20° 00′ W. 40° 37′†	30.01	762.2	71	21.7		ene.			2		6		s.	0	0	h'vy	s.	fair.
Bg. Potomac, N. 25° 16′, W. 58° 39′*†	30.00	762.0				ne.			1				ne.	0	0	sm'h		fine.
Bk. Princessen, N. 54° 50′, E. 10° 49′†	29.37	745.9	53	11.7		w.			6		8			3 h'r	3 h'r	sm'h		squally.
Bk. Rosebud, S. 21° 00′, W. 31° 50*†	30.27	768.8	76	24.4	76	ese.			5-6		3		ese.	shr's	shr's	hv'y	s.	squally.
S. Salisbury, S. 34° 09′ E. 87° 02′*	29.95	760.8	57.7	14.3	86	sse.			5		5		s.	0	0	cross	sse.	fair.
Bg. Teneriffe, N. 25° 10′, W. 71° 42′	30.02	762.5				calm			0		1		w.	0	0	sm'h		fair.
Bk. Truro, Havre, France*†	30.00	762.0				wnw.			4		10		wnw.	4 h'r	4 h'r			cloudy.
U.S.F.C.S.S. Fish Hawk, Havre de Grace, Md†	30.42	772.7	69	20.6	90	sw.			2		7		calm	0	0			cloudy.
Yacht Vega, N. 26° 40′, W. 68° 50′*†	30.20	767.1	80	26.7		sw.			1		1		sw.	0	0		e to n	fair.
Bk. Vincenzo Accame N. 38° --′, W. 30° 30′†	30.51	775.0	66.2	19.0		ne.			3									
Schr Viola Reppard, Brunswick, Ga†	29.96	761.0	80	26.7		ene.			3		1		ene.	0	0			clear.
Bk. Warden Law, N. 42° 20′ W 45° 30′*	30.24	768.1				sse.			4		8		s.	3 h'r	3 h'r	sm'h	sse.	fair.
Bk. Wm. Wilcox, N. 4° 45′ W. 25° 30′*†	30.18	766.6	79	26.1		se.			2		10		se.	5 h'r	5 h'r	mod.	se.	squally.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 14, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.02	762.5	76.3	24.6	79	n.			3		0			0	0	clear	Moiroud.
Algiers			30.08	764.1	71.2	21.8	71	nne.			6		0			0	0	clear	Nicolas.
La Calle			30.09	764.3	74.1	23.4	64	nne.			2		1			0	0	very fair	Fonfrède.
Tunis			30.08	764.0															Jacques.
Saida			30.13	765.3	90.7	32.6	19	sw.			3		2			0	0	fair	Perés.
Tebessa			30.17	766.4	78.1	25.6	42	n.			3		2			0.409	10.4	fair	Derché.
Geriville					86.0	30.0	29	sse.			1		3			0	0	pretty fair	Lonchamp.
Laghouat			30.15	765.9	91.0	32.8	32	ne.			4		2			0.039	1.0	fair	Abraham.
Biskra			30.14	765.6	93.7	34.3	34	nw.			1		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.72	754.9	29.81	757.2	45.0	7.2	79	wnw.	10	4.5			1			0.13	3.3	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.41	746.9	29.95	760.8	57.6	14.2	63	sw.			4		4			0.008	0.2		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.02	737.1	29.78	756.5	54.0	12.2	59	nnw.	8.7	3.9			10			0.134	3.4		Dr. Wierzbiski.
Eperies	28.86	733.0	29.72	755.0	55.9	13.3	72	n.			1		10n; s		s.	0.378	9.6		Julius Mikolik.
Gratz	28.66	727.9	29.89	759.3	59.4	15.2	71	sw.			3		8			0.161	4.1		Andreas Rospini.
Hermannstadt	28.29	718.6	29.71	754.6	54.3	12.4	100	nw.			2		10			0.252	6.4		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.59	726.1	29.92	760.0	50.5	10.3	69	nw.			3		10			0.185	4.7	raining.	The Staff.
Lemberg	28.74	730.1	29.71	754.7	58.1	14.5	79	nw.			1		10			0.244	6.2		Dr. T. Stanecki.
Pola	29.89	759.2	30.00	762.0	65.5	18.6	54	wnw.			2		3			0.283	7.2		I. R. Hydrographic Office.
Szathmar	29.19	741.3	29.63	752.6	58.5	14.7	74	sw.			3		10			0.228	5.8		Joseph Midlinszky, S. J.
Szegedin	29.52	749.8	29.80	756.9	56.1	13.4	66	sw.			2		10			0.177	4.5		Karl Stancel.
Trieste	29.89	759.3	30.00	761.9	64.4	18.0	49	sw.			1		3			0	0		Royal Academy.
Vienna	29.20	741.6	29.92	759.9	50.0	10.0	78	w.			4		8			0.126	3.2		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.14	740.1	29.23	742.4	55.6	13.1	90	sse.	7	3.1			7			0.165	4.2	d. clouds	W. Boswell
Armagh, Observatory	29.42	747.3	29.66	753.4	55.5	13.1	78	wnw.	16	7.2			8					squally	S. Call.
Bidston, Liverpool Obs'y			29.64	752.8	58.9	14.9	70	wsw.	47	21.0			9					overcast	John Hartnup.
Bolton, Sharples	29.09	738.9	29.62	752.3	55.8	13.2	85	wsw.	42	18.8			8					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.19	741.4	29.58	751.3	58.0	14.4	76	w.			5		7			0.03	0.8	d. clouds	[A.S.
Bridgetown, Barbadoes					84.0	28.9	71	ne.										d. clouds	J. McLandsborough, F. R
Cardington																			Corpl. J. Surgenor, A. H.C.
Chatham, School M. E.	29.71	754.6	29.84	757.9	58.0	14.4	71	w.			1		9						John McLaren.
Falmouth, Observatory	29.80	756.9	30.03	762.7	59.7	15.4	64	w.			5		9					gloomy	Lance Cpl. G.A. Pickles.
Fort Napier, Natal	27.87	707.9	30.08	764.0	74.5	23.6	30	calm			0		0					squally	The Staff.
Free Town, Sierra Leone	29.66	753.4	29.90	759.4	88.0	31.1	72	w			6		3					blue sky	Pvt. Lane, A. H.C.
Gibraltar, Mediterranean	30.09	764.3	30.14	765.5	71.4	21.9	84	ne.			2		7					lightning	Sergt. John Robinson.
Glasgow, Observatory	29.22	742.2	29.43	747.5	55.7	13.2	62	w.			6		6 k					g.oomy	Cpl. O. Baldwin.
Greenwich, Royal Obs'y	29.65	753.1	29.82	757.4	59.3	15.2	67	w.			5		8					squally	Harry Urquhart, Asst.
Guernsey	29.76	755.9	30.05	763.3	57.5	14.2	81	wnw.			3		10					d. clouds	The Staff.
Kew, Observatory	29.80	756.9	29.83	757.7	60.5	15.8	59	w.	24	10.7			9					overcast	A. Collenette, F. M. S.
Leicester, Museum	29.48	748.8	29.78	755.1	56.0	13.3	74	sw.			2		10					threatening.	The Staff.
Malta, Mediterranean	29.96	761.0	30.03	762.7	72.6	22.6	75	ne.					0					overcast	J. C. Smith.
Nassau, Bahamas	30.04	763.0	30.08	764.0	82.2	27.9	78	n.			1		5					blue sky	I. H. Whysall.
Oscott, St. Mary's College	29.24	742.7	29.75	755.6	55.1	12.8	77	wsw.			7		10					d. clouds	C. S. Duncombe.
Oxford, Radcliffe Obs'y	29.60	751.8	29.82	757.4	58.8	14.9	67	wsw.			6		9					raining	Warren Middleton.
Plymouth	29.92	760.0	30.00	762.0	59.8	15.4	72	wnw.			4		10					overcast	The Staff.
Sandwick Manse, Orkneys			29.27	743.4	46.2	7.9	92	e.	26	11.6			10					raining	John Merrifield.
Scutari Cemetery, Turkey	29.67	753.6	29.74	755.4	77.4	25.2	60	ssw.			1		0			blank	blank	blue sky	Rev. C. Clouston, L. L.D.
Sheffield	29.36	745.7	29.64	752.8	56.8	13.8		wsw.			5		10			0.06	1.5	raining	W. H. Lyne.
Silloth Rectory	29.48	748.8	29.52	749.8	54.0	12.2	93	w.			5		10			0.106	2.7	overcast	W. F. Cooper.
Stonyhurst, Observatory			29.63	752.6	55.0	12.8	83	w.	33	14.8			10					overcast	Rev. F. Redford, M. A.
Stratfield Turgiss	29.64	752.8	29.86	758.4	58.7	14.8	73	w.			4		8					squally	J. New.
Truro, Royal Institution	29.99	761.7	30.01	762.2	62	16.7	83	w.			7		10					gloomy	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	29.95	760.7	29.98	761.5	56.5	13.6	84	wnw.	30	13.4			10					misty	W. Newcombe.
Canadian.																			The Met'g'l Office.
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.00	762.0	30.04	763.0	60	15.6	71	sw.	2	0.9		0	0			0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	29.96	761.0	30.01	762.2	60	15.6	78	s.	3	1.3		0	hz.			0	0	clear	G. A. Blair.
Father Point, Quebec*	29.92	760.0	29.94	760.5	61	16.1	72	w.	12	5.4			sk			0	0	light smoke.	J. McWilliams.
Halifax, N. S*	29.99	761.7	30.12	765.0	64	17.8	60	sw.	4	1.8		0	0			0	0	clear	A. Allison.
Kingston, Ontario*	29.69	754.1	30.02	762.5	64	17.8	73	w.	10	4.5		2 cs	0	w.		0	0	fair	A. P. Knight, M. A.
Montreal, Quebec*	29.84	757.9	30.04	763.0	66	18.9	60	w.	6	2.7		0	sk.			0	0	smoky	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.25	742.9	29.92	760.0	64	17.8	78	e.	7	3.1		5 k	5 ks	sw.	sw.	0	0	cloudy	Rev. R. Mosley.
Port Dover, Ontario	29.28	743.7	29.96	761.0	63	17.2	89	calm	0	0			10 n		s.	0	0	threatening.	H. Morgan.
Port Stanley, Ontario	29.31	744.5	29.94	760.5	62	16.7	100	e.	5	2.2			fg			0.27	6.9	thnd'r storm	M. Payne.
Quebec, Quebec*	29.76	755.9	30.07	763.8	58	14.4	77	sw.			3	0	0			0	0	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.54	750.3	29.99	761.7	53	11.7	86	calm	0	0		5 c	0	w.		0	0	fair	W. H. McIntyre.
Saugeen, Ontario*	29.19	741.4	29.88	758.9	65	18.3	93	s.	7	3.1			10 ks			0	0	cloudy.	
St. Andrews, N. B	30.06	763.5	30.11	764.8	55	12.8	74	w.	1	0.4		hz.	hz			0	0	clear	
Sydney, C. B*	29.96	761.0	30.02	762.5	62	16.7	58	s.	6	2.7		2 c	0			0	0	clear	T. C. Hill, C. E
Toronto, Ontario*	29.60	751.8	29.98	761.5	61	16.1	87	e.	3	1.3		10 k	0	sw.		0	0	cloudy	Magnetic Observatory.
Yarmouth, N. S*	30.09	764.3	30.16	766.1	54	12.2	77	calm	0	0		2 ck	0	w.		0	0	fair	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.56	725.4	29.92	760.0	66.0	18.9	84	sw.								c	0	cloudy	Wm. Wylie.
St. Johns, Newfoundland	30.00?	762.0?	30.25?	768.3?	59	15.0	76	w.	3	1.3		0	0			0.20	5.1		John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.15	765.8	30.18	766.6	67.0	19.4	80	w.	9.9	4.4		0	2 s			0	0	smoky	John Duthie.
Cape Town, C. G. H. Obs'y	30.14	765.5	30.18	766.6	62.1	16.7	72					0	1			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Chinese (*Sub-series*).																			
Hankow	29.61	752.1	29.88	758.9	80.8	27.1	71	sse.			3		7			0	0		N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.84	757.8	29.86	758.4	69.4	20.8	83	se.	12.3	5.5		0	0			0	0	clear	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.51	749.6	29.56	750.8	54.1	12.3	80	wnw.	9	4			10					raining	Oversergent Fischer.
Fanöe	29.59	751.6	29.61	752.1	55.0	12.8	76	w.			4		8						Overloerer Lauridsen.
Godthaab, Greenland	29.84	758.0	29.89	759.1	41.0	5.0	87	ssw.			2		1			0	0		S. Kleinschmidt.
Stykkisholm, Iceland	29.79	756.7	29.84	757.8	37.0	2.8	79	e.			7		c						A. O. Thorlacius.
Thorshavn	29.50	749.3	29.54	750.2	47.1	8.4	73	ne.	23.5	10.5			7						Overloerer Bergh.
Vestervig	29.45	747.9	29.54	750.2	54.9	12.7	71	wsw.			6		9						Loearer Oesterbol.
French.																			
Agen, Normal School	29.63	752.6	30.27	768.8	66.6	19.2	68	w.			3		k		w.	0	0		M. Labroue, Director.
Alençon, Normal School	29.59	751.6	30.14	765.6	60.1	15.6	93	sw.			3		n	ne.	ne.	0	0		M. Nicot, Director.
Arras, Engineer School	29.82	757.5	30.08	764.0	56.3	13.5	73	w.			8		kn		w.	0.213	5.4		M. Fénéon, Command't.
Avignon, Normal School	30.11	764.8	30.19	766.8	70.5	21.4	46	n.			1		0			0	0	clear	M. Girand, Director.
Bar-sur-Seine	29.54	750.4	30.10	764.6	54.5	12.5	83	sw.			3		10		w.	0.280	7.1	covered	M. Saillard, Director.
Beauvais, Normal School	29.74	755.5	29.97	761.3	59.5	15.3	63	wnw.			3		10		nw.	0.177	4.5	covered	M. Frère Eugène Marié.
Besançon, Normal School	29.21	742.0	30.14	765.6	51.8	11	85	ssw.			1		n		se.	0.346	8.8		M. Gobin, Director.
Bordeaux, Observatory	30.05	763.2	30.31	769.9	61.3	16.3	59	wsw.			1		10		wsw.	0	0	covered	M. Rayet, Director.
Bourges, Normal School	29.63	752.6	30.18	766.5	60.8	16	59	w			2		n		w.	0.008	0.2		M. Postel, Director.
Brest, Naval Observatory	29.93	760.1	30.17	766.3	60.4	15.8	76	w.			3		10		w.	0	0		M. de Kermaree, Dir.
Caen, Normal School	29.96	760.9	30.03	762.8	59.7	15.4	66	w.			2		10			0.04	1.	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.66	753.3	29.98	761.4	59.0	15.0	68	w.			4		8	w.	w.	0.217	5.5	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.41	747.1	29.93	760.1	56.1	13.4	75	sw.			3		10			0.24	6.	raining	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.86	733.1	30.21	767.3	61.2	16.2	52	w.			1		8		w.	0	0	¾ covered	M. Alluard, Director.
Cluny, Normal School	29.37	745.9	30.29	769.3	53.8	12.1	75	sw.			2		2	sw.		0.177	4.5		M. de Villemontée, Dir.
Commercy, Normal School	29.15	740.3	30.01	762.2	52.7	11.5	86	wnw.			4		10 n	wnw.	wnw.	0.319	8.1	light rain	Dr. Coulet, Director.
Gap, Normal School	27.54	699.5	30.01	762.2	69.8	21	65	sw.			4					0	0		M. Jeangirard, Director.
Gréasque, du Rhone	29.01	736.9	30.11	764.8	67.6	19.8	30	nw.			4		2		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.25	743.0	30.02	762.5	57.2	14	67	nw.			2		cs	0		0.126	3.2		M. Ablard, Director.
Guéret, Normal School	28.64	727.4	30.21	767.2	55.0	12.8	72	sw.			8		10		w.	0	0	covered	M. Rivoire, Director.
Lamballe, Normal School	29.87	758.6	30.14	765.6	60.4	15.8	71	w.			3		8		w.	0	0	very cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.76	755.8	30.32	770.2	64.4	18	51	s.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.11	764.8	30.21	767.4	59.9	15.5	68	w.			3		10		w.	0	0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.18	741.2	30.24	768.2	56.3	13.5	62	e.			1		10	wnw.	ne.	0	0	covered	M. André, Director.
Mans, Normal School	29.82	757.3	30.12	765.1	61.2	16.2	71	w.			4		8		wnw.	0.547	13.9	very cloudy	M. Piboen, Director.
Marseille, Observatory	29.87	758.6	30.13	765.4	69.3	20.7	51	wsw.			4		2		wnw.	0	0		M. Stephan, Director.
Montlouis	25.03	635.8	29.87	758.8	61.3	16.3	34	w.	11.2	5.0			0			0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	30.06	763.5	30.19	766.7	70.5	21.4	41	wnw.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.19	741.4	29.98	761.4	51.8	11.0	93	s.			1		n		w.	0.189	4.8		M. Hasse, Director
Nantes, Observatory	30.08	763.9	30.24	768.0	58.8	14.9	74	wsw.			2–3		10 n		wnw.	0	0		M. Larocque, Director.
Perpignan, Observatory	30.13	765.4	30.24	768.1	74.8	23.8	28	nw.	13.0	5.8			8	nw.		0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.50	546.0			42.8	6.0		ne.			1		1		ne.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.13	740.0	30.20	767.0	63.3	17.4	49	nw.			3		5 k	se.	se.	0	0	cloudy	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.24	641.2			37.0	2.8	100	w.			8		10			0.083	2.1	foggy	M. Alluard, Director.
Rochefort, Naval Obs'y	30.24	768.2	30.28	769.0	62.1	16.7	100	w.			2		10			0	0	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.03	762.8	30.24	768.2	58.3	14.6	78	w.			2		10			0	0	covered	M. Mouillot, Director.
Rodez, Normal School	28.20	716.2	30.37	771.5	51.4	10.8	84	ne.			4		k		s.	0	0		M. Seger, Director.
Rouen, Normal School	29.98	761.4	30.02	762.6	59.0	15	63	wsw.			2		8	sw.		0.24	6.	very cloudy	M. Brotier.
Saint Maur, Observatory	29.89	759.1	30.05	763.3	60.3	15.7	67	wsw.			2		10		w.	0.071	1.8		M. Renou, Director.
Toulouse, Observatory	29.63	752.6	30.36	771.2	67.8	19.9	43	nnw.			2		1	w.		0	0	clear	M. Baillaud, Director.
Tours	29.99	761.7	30.17	766.2	61.5	16.4	65	wsw.			2		10	wnw.	w.	0.008	0.2	covered	M. de Tastes.
Versailles, Observatory	29.55	750.6	30.04	763.1	59.7	15.4	64	w.			3					0.055	1.4		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.76	756.0	30.06	763.4	60.3	15.7	69	w.			3		9		wnw.	0.012	0.3		M. Marié Davy, Director
German.																			
Bamberg	29.02	737.2	29.87	758.8	50.0	10	80	nw.			2		9 n		w.	0.08	2.	raining	Prof. Dr. Hoh.
Berlin	29.63	752.7	29.81	757.2	56.1	13.4	59	w.			2		8			0.012	0.3		Prof. Dr. Arndt.
Breslau	29.30	744.1	29.82	757.5	54.0	12.2	41	w.			3		4			0	0		Royal University Obs'y.
Carlsruhe	29.50	749.4	29.95	760.6	50.4	10.2	96	sw.			5		10	sw.		0.394	10.0		Albert Senz.
Cassel	29.03	737.4	29.74	755.5	53.2	11.8	78	s.			4		10	sw.		0.024	0.6		Dr. H. Möhl.
Frankfort-on-the-Main	29.48	748.7	29.84	758.0	53.1	11.7	89	sw.			1		10			0.130	3.3		Physical Society.
Friedrichshafen	28.63	727.1	30.08	764.0	49.3	9.6	87	sw.			7		10	wsw.		0.075	1.9		Wilhelm, Chief Tel.
Hamburg	29.61	752.1	29.71	754.5	54.3	12.4	71	sw.			3		7			0.142	3.6	thund'r st'm	E. Preller.
Kiel	29.63	752.6	29.65	753.0	55.8	13.2	64	w.			2		10			0.205	5.2		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.38	746.3	29.80	756.9	54.9	12.7	58	ssw.			4		9	sw.		0.004	0.1	stormy	H. Leppig, Asst.
Magdeburg	29.56	750.7	29.74	755.5	54.1	12.3	65	wsw.			2		10 ks		sw.	0.12	0.3		Dr. Assmann.
Memel	29.58	751.2	29.62	752.4	57.4	14.1	73	wsw.			6	0	3 k						Issermann.
Munich	28.15	714.9	30.00	762.1	48.4	9.1	68	nw.			5		10	nw.		0.039	1.0		Central Station.
Neufahrwasser	29.65	753.1	29.67	753.5	54.0	12.2	71	sw.			2		9			0.075	1.9		A. Lothes.
Neustadt, Palatinate	29.35	745.6	29.88	758.9	55.8	13.2	89	w.			5		10	w.		0.283	7.2		Dicknether.
Stuttgart	28.96	735.6	29.86	758.4	50.4	10.2	84	w.			1		10			0.142	3.6		Prof. Dr. Schoder.
Wustrow	29.64	752.8	29.67	753.5	50.9	10.5	82	sw.			5		10 s			0.079	2.0		Profs. Brandes & Reimer
Greek.																			
Athens	29.45	748.0	29.82	757.4	87.1	30.6		sw.			3.0		0			0	0	clear	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.40	746.7	29.45	748.0	89.7	32.1	81	wsw.	37.0	16.5			3		w.	0	0	misty	
Deesa	28.93	734.9	29.39	746.4	95.8	35.4	57	sw.	16.3	7.3			10	sw.		0	0	overcast	
Bombay	29.59	751.6	29.63	752.6	82.9	28.3	87	w.	16.0	7.2			10		sw.	0.56	14.2	overcast	
Poona, Yarrowda	27.77	705.3	29.62	752.4	75.8	24.3	82	wsw.	15.0	6.7			10		wnw.	0.55	14.0	overcast	
Trichinopoly	29.44	747.7	29.71	754.7	87.5	30.8	50	wnw.	5.0	2.2			10			0	0	overcast	
Bellary	28.16	715.4	29.61	752.1	83.5	28.6	60	w.	21.2	9.5			9			0	0	gloomy	
Belgaum	27.16	689.9	29.71	754.6	71.1	21.7	94	wsw.	8.0	3.6			10		sw.	3.35	85.1	showery	
Lahore	28.62	726.8	29.33	744.9	94.1	34.5	37	n.	3.9	1.7			6			0	0	misty	
Roorkee	28.46	723.0	29.32	744.8	94.6	34.8	47	nw.	2.7	1.2			8			0	0		
Agra	28.85	732.7	29.39	746.5	91.2	32.9	67	ne.	3.0	1.3			3		ne.	0.04	1.0	d. clouds	
Nagpur	28.39	721.0	29.42	747.2	79.7	26.5	76	w.	10.7	4.8			9		w.	0.62	15.7	gloomy	
Jubbulpore	28.04	712.2	29.39	746.4	74.8	23.8	97	calm	3.4	1.5			10		n.	0.41	10.4	raining	
Lucknow	29.00	736.6	29.36	745.8	93.5	34.2	49	ese.	2.5	1.1			7	ese.		0	0	d. clouds	
Allahabad	29.01	736.9	29.31	744.5	91.3	32.9	52	e.	5.8	2.6			10			0.01	0.3	misty	
Patna	29.18	741.1	29.36	745.8	77.7	25.4	95	ene.	12.4	5.5			10	ene.	ene.	2.20	55.9	raining	
Hazaribagh	27.31	693.7	29.29	744.0	76.0	24.4	51	s.	5.6	2.5			10	s.	n.	0.89	22.6	thund'r storm	
Cuttack	29.31	744.4	29.39	746.4	86.9	30.5	69	ssw.	4.6	2.1			7			0.20	5.1	d. clouds	
Calcutta, Alipore	29.35	745.5	29.37	746.0	84.6	29.2	79	sw.	6.0	2.7			10		sw.	0.07	1.8	overcast	
Dhubri	29.34	745.2	29.45	748.1	82.3	27.9	82	e.	19.2	8.6			6			0.51	13.0	d. clouds	
Chittagong	29.43	747.5	29.52	749.8	77.2	25.1	96	ese.	8.9	4.0			10			0.24	6.1	drizzling	
Sibsagar	29.20	741.8	29.53	750.2	84.7	29.3	87	ne.	2.7	1.2			2		w.	0.18	4.6	blue sky	
Jeypore	27.95	709.8	29.32	744.7	98.7	37.1	41	ssw.	2.4	1.1			3		ssw.	0	0	d. clouds	
Zanzibar, Africa	30.07	763.8			83.2	28.4	58	s.	8.7	3.9			5		sse.	0	0	d. clouds	
Italian.																			
Udine	29.58	751.4	29.98	761.6	62.4	16.9	67	nw.	1.3	0.6			8			0.197	5.0		Prof. Giovanni Clodig.
Milan	29.49	749.1	30.00	761.9	68.0	20.0	26	nw.	7.4	3.3			2	w.		0	c		Prof. Schiaparelli.
Padua	29.86	758.5	29.97	761.2	67.3	19.6	34	ssw.	9.8	4.4			5	w.		0.031	0.8		Prof. Dott. Lorenzoni.
Moncalieri	29.09	738.8	29.97	761.1	73.0	22.8	15	ese.	3.1	1.4			1			0	0		Prof. P. F. Denza.
Genoa	29.85	758.2	30.04	763.0	67.6	19.8	45	sw.	5.6	2.5			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.08	713.2	29.93	760.3	66.4	19.1	28	w.			4		0			0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec.	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Italian.—Continued.																			
Pesaro	29.96	760.9	30.00	762.1	62.4	16.9	55	nw.	7.4	3.3			0			0.173	4.4		Prof. Luigi Guidi.
Florence	29.76	755.9	30.01	762.2	69.4	20.8	29	w.			4		0			0.118	3.0		Prof. Costantino Pitter
Leghorn	29.91	759.6	29.99	761.7	67.5	19.7	53	w.	6.9	3.1			4			0	0		Prof. P. Monte.
Rome	29.84	757.9	30.01	762.2	73.0	22.8	17	nw.	8.1	3.6			1			0	0		Prof. P. S. Ferrari.
Lecce	29.70	754.3	29.94	760.5	75.7	24.3	54	ne.	17.4	7.8			9	n.		0.020	0.5		Prof. C. de Giorgi.
Cosenza	29.11	739.4	29.97	761.3	75.9	24.4	71	ssw.	4.3	1.9			8	sw.		0	0		Prof. D. Conti.
Cagliari	29.90	759.4	30.09	764.2	67.6	19.8	36	nw.			6		4			0.047	1.2		Prof. A. Pacinotti.
Palermo	29.86	758.4	30.11	764.7	71.2	21.8	40	nnw.	13.6	6.1			4	nw.		0	0		Prof. G. Ciaccatore.
Syracuse	29.96	760.9	30.00	762.0	73.0	22.8	69	nne.	9.4	4.2			1	ne.		0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.47	748.5	29.98	761.5	70.5	21.4	49	w.	8.1	3.6			3		w.	0	0		Prof. T. Brioschi.
Stelvio	22.12	561.9			36.5	2.5	63	ssw.			4		10			0	0	covered	Prof. P. F. Denza.
Valdobbia	22.17	563.1			33.8	1.0	72	n.			6		10			0	0	misty	Prof. P. F. Denza.
Japanese.																			
Aomori	29.72	754.9	29.75	755.6	61.0	16.1	85	calm	0	0		0	8 s			0	0	overcast	K. Ogawa.
Hakodate	29.70	754.4	29.71	754.6	53.0	11.7	89	sw.	2.4	1.1			1			0	0	clear	
Hiroshima, I. M. Obs'y	29.77	756.1	29.79	756.6	65.0	18.3	87	nne.	2.9	1.3		0	0			0	0	clear	I. Sogawa.
Kanazawa	29.81	757.2	29.91	759.7	59.9	15.5	95	ssw.	2.4	1.1		ck	10 ks			0.125	3.2	overcast	S. Endo.
Kiote	29.63	752.6	29.80	756.9	61.0	16.1	92	s.				ck	9 s			0.218	5.5	cloudy	M. Tojima.
Kochi	29.81	757.2	29.83	757.7	67.5	19.7	92	nw.	3.4	1.5		0	5 s		w.	0	0	fair	K. Kusunose.
Nagasaki, I. M. Obs'y	29.67	753.6	29.87	758.7	64.9	18.3	89	n.	0.7	0.3		0	0			0	0	clear	S. Takehayashi.
Nemuro	29.67	753.6	29.73	755.1	50.5	10.3	86	se.	12.0	5.4		10	0			0	0	overcast	
Niigata	29.72	754.5	29.76	755.9	61.8	16.6	96		0.1	0.0		ck	10 n			0.270	6.9	light rain	M. Morita.
Nobiru	29.70	754.4	29.72	754.9	61.1	16.2	96	nnw.	6.3	2.8			10 s			0.255	6.5	overcast	H. Midzushina.
Supporo					58.5	14.7	86	calm	0	0			2			0	0	clear	
Tokei Obs'y, Yeddo	29.69	754.1	29.76	755.9	63.9	17.7	94	n.	2.5	1.1		0	9 s			1.080	27.4	cloudy	The Staff.
Wakayama	29.76	755.9	29.81	757.2	64.0	17.8	86	ne.	0.3	0.1		0	0			inap.	inap.	clear	Y. Kuwamuea.
Mauritius																			
Mauritius Observatory	29.97	761.2	30.16	766.1	74.9	23.8	56	sse.	14.5	6.5		0	6 ks;n		ssw.	0	0	fair	Oliver & Figon.
Mexican.																			
Guanajuato	23.70	601.9	29.92	759.9	61.3	16.3	97	e.					10 kn		ne.	0.764	19.4	cloudy	Prof. Vicente Fernandez.
Leon	24.31	617.5	29.93	760.2	61.9	16.6	94	sw.			1	6 c	2 k	sw.	sw.	0.229	5.8	cloudy	Prof. M. Leal.
Mazatlan	29.67	753.5	29.92	760.0	77.0	25.0	86	e.				0	1 s			0	0	light haze	F. Quijano, C. E.
Mexico, Central Obs'y	23.12	587.2	30.13	765.4	55.9	13.3	81	nw.	1.1	0.5		4 ck	5 ks	sw.		0.295	7.5	cloudy	The Staff.
Morelia	24.17	614.0	30.23	767.9	60.6	15.9	66	ne.			1	0			ne.	0	0	clear	M. Tena, M. D.
Pabellon, Aguascalientes	23.97	608.9	29.95	760.7	62.4	16.9	92	calm			0					0.244	6.2		M. V. de Leon, M. E.
Puebla, Catholic Institute	23.43	595.0	30.14	765.5	56.7	13.7	91	calm	0	0		0			se.	0	0		Prof. P. Spina.
San Luis Potosi	24.25	615.9	30.14	765.6	64.4	18.0	66	se.				7	0	w.		0	0	cloudy	G. Barroeta, M. D.
Zacatecas	22.60	573.7	30.14	765.6	58.7	14.8	78	sse.	6.0	2.6		1 cs	0	e.		0	0	gloomy	J. A. Bonilla, M. E.
Netherlands.																			
Flushing	29.82	757.3	29.82	757.3	58.5	14.7		wsw.			5					0.224	5.7		
Groningen	29.63	752.7	29.69	754.1	55.4	13.0		wsw.			1					0.106	2.7		
Helder	29.71	754.6	29.71	754.6	55.0	12.8		wsw.			4					0.122	3.1		
Hellevoetsluis	29.77	756.2	29.77	756.2	57.4	14.1	84	wsw.			3					0.532	13.5		
Utrecht	29.72	754.9	29.77	756.1	58.5	14.7	74	wsw.			3		8			0.134	3.4	very cloudy	H. van der Brink.
Norwegian.																			
Bergen	29.30	744.1	29.36	745.7	52.5	11.4	81	s.	11	5			10			0.157	4.0	raining	
Brono	29.38	746.2	29.42	747.2	46.8	8.2	73	calm	0	0			9					raining	
Christiania	29.21	741.8	29.35	745.4	61.5	16.4	50	ssw.	13	6			3			0	0		
Gjesvær	29.63	752.5	29.65	753.1	36.1	2.3		ne.			6		10					snowing	
Lodingen	29.42	747.3	29.47	748.5	50.0	10.0	50	calm			6		8			0	0		
Portuguese.																			
Angra, Azores					65.7	18.7	83	sse.	3.1	1.4			3			0	0		Dr. J. A. Sampaio.
Campo Major	29.10	739.2	30.05	763.2	88.2	31.2	25	e.	6.3	2.8			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.05	763.3	30.14	765.5	69.8	21.0	63	s.	2.5	1.1			10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.76	755.8	30.10	764.6	79.5	26.4	36	ssw.	8.1	3.6			1			0	0		The Staff.
Ponta Delgada, Azores	30.25	768.3	30.32	770.1	71.6	22.0	58	se.	3.1	1.4			4			0	0		
Saint Paul de Loando	29.81	757.1	30.01	762.2	74.7	23.7	89	nnw.	0.7	0.3			0			0	0		
Serra da Estrella	25.51	648.0	30.12	765.0	64.0	17.8	31	se.	18.6	8.3			1			0	0		
Russian.																			
Akmolinski	28.69	728.6	29.69	754.2	81.7	27.6	39	sw.	7	3		0	0			0	0		Major K. Lasarew.
Archangel	29.50	749.3	29.52	749.8	43.3	6.3	75	nnw.	4	2			10			0	0		Capt. Sselliwerstow.
Astrakhan	30.06	763.0	29.98	761.5	76.1	24.5	42	n.	9	4		0	0			0	0		Capt. Wisganow.
Barnaul	29.29	744.0	29.77	756.2	65.7	18.7	60	n.	18	8			7			0	0		Meteorological Obs'y.
Dorpat	29.27	743.4	29.50	749.4	62.2	16.8	50	sw.	7	3		0	8 k			0.295	7.5		Observatory.
Ekaterinburg	28.72	729.6	29.65	753.0	69.1	20.6	65	sw.	4	2			10 n			0	0		Meteorological Obs'y.
Kasan	29.32	744.8	29.59	751.5	57.7	14.3	74	sw.	31	14			10 n			0.075	1.9		Observatory.
Kertch	29.82	757.3	29.84	757.8	68.2	20.1	89	sse.	18	8		0	0			0	0		Lagorio & Sastyrex.
Kieff	29.00	736.6	29.61	752.0	68.9	20.5	49	s.	20	9		c	10 ks			0.020	0.5		Observatory.
Lugan	29.67	753.5	29.86	758.5	79.7	26.5	32	sse.	13	6			7			0	0		Meteorological Obs'y
Moscow	29.15	740.3	29.60	751.7	70.0	21.1	40	ssw.	7.8	3.5			3 ks						Meteorological Obs'y.
Nikolaiev	29.75	755.6	29.82	757.4	75.2	24.0	51	s.	13	6		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.45	748.0	29.54	750.2	56.8	13.8	93	se.	11	5			10			blank	blank		Lieut. Iwanow.
Pekin, China	29.41	746.9	29.55	750.5	87.3	30.7	31	sw	11	5		0	7 ks			0	0		Physical Observatory
St. Petersburg	29.49	749.0	29.50	749.4	55.8	13.2	69	nw.	16	7		ck	5 k;n			0.244	6.2		Central Physical Obs'y.
Semipalatinsk	29.17	740.8	29.78	756.3	84.6	29.2	30	n.	2	1		0	8			0	0		Major Lasarew.
Tashkend, Laboratory	28.11	714.0	29.58	751.4	81.1	27.3	41	ne.	22	10			9					light clouds	Teich, A. M.
Tiflis	28.54	724.9	29.87	758.8	84.6	29.2	38	se.	2	1		0	4 k			0	0		Physical Observatory
Vladivostock	29.55	750.5			59.2	15.1	86	se.	13	6		0	3 k						
Warsaw	29.32	744.7	29.74	755.3	56.8	13.8	51	nw.	13	6			10 ks			blank	blank		Astronomical Obs'y
Wilna	29.22	742.3	29.63	752.7	61.9	16.6	44	wnw.	7	3			7			0	0		Berg, Assistant.
Spanish.																			
Barcelona, Met. Obs'y	30.08	764.0	30.18	766.6	72.5	22.5	50	s.	4.9	2.2			0			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.25	768.4	30.31	769.9	73.0	22.8	40	e.	1.8	0.8		0	0			0	0	clear	Prof. Manuel de Naverna.
Burgos, Met. Obs'y	27.29	693.2	30.17	766.3	71.1	21.7	44	ne.	7.4	3.3			0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.99	710.9	30.12	765.0	81.1	27.3	34	e.	5.4	2.4		1	0			0	0	light clouds	The Staff.
Murcia, Met. Obs'y	30.07	763.7	30.21	767.2	75.6	24.2	58	e.	6.7	3.0		0	2			0	0	almost clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.25	742.9	30.12	765.1	72.7	22.6	35	ne.	11.9	5.3			4			0	0	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	29.96	761.1	30.03	762.7	79.9	26.6	83	calm	0	0		0	0			0.091	2.3	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.84	757.9	29.89	759.3	85.4	29.7	70	sw.	8.8	3.9		4 c	5 kn		sse.	0.138	3.5	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.97	761.3	30.07	763.8	78.6	25.9	43	e.	27.4	12.3		1	2	w.	w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.95	760.6	30.04	762.9	82.4	28.0	79	se.	3.4	1.5		1 s	2 k	se.	se.	0	0		Manuel Maese.
Tuguegarao, Philippine Id's	29.76	755.9	29.89	759.2	79.9	26.6	89	wnw.	2.2	1.0			10 n		wsw.	0.07	1.8	covered	José L. Yrastorza.
Swedish																			
Haparanda	29.55	750.6	29.59	751.6	41.0	5.0	87	ne.			2		10			0.287	7.3	raining	
Umea	29.45	747.9	29.50	749.2	47.8	8.8	53	e.			6		8			0	0		
Hernosand	29.40	746.8	29.45	748.1	46.4	8.0	67	e.			6		4			0	0		
Stockholm	29.31	744.4	29.48	748.9	52.0	11.1	64	wnw.			2		10			0.193	4.9		
Wisby	29.41	747.1	29.47	748.6	51.1	10.6	74	nnw.			2		3			0.063	1.6		
Sub-series.																			
Upsala	29.35	745.5	29.44	747.7	51.8	11.0	73	n.	3.6	1.6			10		nw.	0.006	0.2		S. G. Fluemana.
Swiss.																			
Geneva	28.82	732.0	30.25	768.4	51.3	10.7	82	ssw.			5					0.094	2.4	covered	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
SCOTTISH.																			
Monach Lt	.....	.....	29.28	743.7	53	11.7	93	w.	.....	.....	6	.....	10	.....	.....	0.3	8.	raining	J. Youngclause.
TURKISH.																			
Constantinople	.....	.....	29.77	756.1	80.6	27.0	54	sw.	7	3.0	.....	.....	0	.....	.....	0	0	.....	The Observatory.
Valona	.....	.....	30.08	763.9	77.2	25.1	.....	sw.	.....	.....	1	.....	5	.....	.....	0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.78	756.3	81.1	27.3	69	w.	.....	.....	1	0	0	.....	.....	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.07	763.8	30.15	765.8	68	20.0	61	s.	5	2.2	.....	7 c	0	nw.	.....	0	0	fair	J. O. Barnes.
Alpena, Michigan	29.19	741.4	29.84	757.9	57	13.9	86	se.	6	2.7	.....	2 k	7 ks	sw.	sw.	0.06	1.5	cloudy	Jas. J. Fitzgerald.
Atlanta, Georgia	29.03	737.3	30.18	766.6	68.5	20.3	90	e.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	H. Hall.
Atlantic City, New Jersey	30.19	766.8	30.20	767.1	62	16.7	72	sw.	4	1.8	.....	5 c	0	.....	.....	0	0	fair	Jas. M. Watson.
Augusta, Georgia	30.02	762.5	30.21	767.3	72	22.2	84	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	John Healy.
Baltimore, Maryland	30.15	765.8	30.20	767.1	64	17.8	68	sw.	4	1.8	.....	4 c; hz	0	.....	.....	0	0	fair	Robert Seyboth.
Barnegat, New Jersey	30.17	766.3	30.19	766.8	66.5	19.2	62	sw.	7	3.1	.....	4 c	0	n.	.....	0	0	fair	Chas. F. Merritt.
Behring Island, Behring Sea	29.72	754.9	29.74	755.4	40.8	4.9	.....	s.	10	4.5	.....	.....	fg.	.....	.....	0	0	dense fog	Dr. L. Steineger.
Bismarck, Dakota	28.00	711.2	29.75	755.6	61	16.1	84	nw.	10	4.5	.....	10 cs	0	nw.	.....	0.01	0.3	cloudy	Cyrus Cramer.
Boise City, Idaho	27.15	689.6	29.93	760.2	53	11.7	61	se.	2	0.9	.....	0	6 s	.....	calm	0.01	0.3	fair	B. E. Light.
Boston, Massachusetts	29.99	761.7	30.14	765.5	61.0	16.1	69	sw.	1	0.4	.....	5 c	hz.	.....	.....	0	0	fair	O. B. Cole.
Brownsville, Texas	29.89	759.2	29.93	760.2	81.0	27.2	91	s.	4	1.8	.....	0	5 s	.....	s.	0	0	fair	M. McCarty.
Buffalo, New York	29.25	742.9	29.99	761.7	67.2	19.6	65	se.	4	1.8	.....	1 ck	9ks; s	se.	se.	0	0	cloudy	Wm. Finn.
Burlington, Vermont	29.80	756.9	30.09	764.3	66.3	19.1	69	s.	10	4.5	.....	7 cs	0	w.	.....	0	0	fair	G. C. Schaeffer.
Cairo, Illinois	29.62	752.3	30.01	762.2	77.8	25.4	77	sw.	9	4.0	.....	3 ck	0	w.	.....	inap.	inap.	clear	W. H. Ray.
Campo, California	27.34	694.4	29.82	757.4	43.3	0.3	93	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.16	689.9	29.79	756.7	50	13.3	44	s.	.....	.....	1	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.18	766.6	30.20	767.1	63	17.2	68	s.	1	0.4	.....	4 c	0	.....	.....	0	0	fair	A. K. Alderson.
Cape May, New Jersey	30.18	766.6	30.20	767.1	60	15.6	87	sw.	1	0.4	.....	8 ck	0	.....	.....	0	0	cloudy	W. Bolton.
Cedar Keys, Florida	30.08	764.0	30.10	764.5	73	22.8	82	ne.	10	4.5	.....	0	0	.....	.....	0.81	20.6	clear	F. W. Mixer.
Champaign, Illinois	29.07	738.4	29.86	758.4	72.8	22.7	76	s.	11	4.9	.....	0	5 ks	.....	sw.	1.23	31.2	fair	L. A. Welsh.
Charleston, S. Carolina	30.10	764.5	30.16	766.1	74	23.3	76	ne.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.32	744.7	30.15	765.8	69.5	20.8	61	e.	2	0.9	.....	6 cs	0	.....	.....	0	0	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.37	746.0	30.18	766.6	72.0	22.2	82	s.	2	0.9	.....	5 k	2 ks	sw.	sw.	0	0	fair	B. L. Goulding.
Cheyenne, Wyoming	24.07	611.4	29.81	757.2	46.2	7.9	86	nw.	3	1.3	.....	0	0	.....	.....	inap.	inap.	clear	E. McGovern.
Chicago, Illinois	29.12	739.6	29.81	757.2	70.2	21.2	93	s.	10	4.5	.....	0	0	.....	.....	0.06	1.5	clear	J. Mitchell.
Chincoteague, Virginia	30.17	766.3	30.19	766.8	62	16.7	78	e.	1	0.4	.....	5 c	0	.....	.....	0	0	fair	V. P. Temple.
Cincinnati, Ohio	29.38	746.2	30.02	762.5	72	22.2	84	e.	4	1.8	.....	9 cs; k	0	w; sw	.....	0.20	5.1	cloudy	R. B. Watkins.
Cleveland, Ohio	29.25	742.9	29.98	761.5	69	20.6	88	s.	7	3.1	.....	.....	10 n	.....	.....	0.13	3.3	light rain	J. B. Newlin.
Coleman City, Texas	28.19	716.0	29.94	760.5	73	22.8	90	se.	1	0.4	.....	0	0	.....	.....	0.02	0.5	clear	L. Dorman.
Columbus, Ohio	29.17	740.9	30.01	762.2	66	18.9	93	s.	6	2.7	.....	.....	10 n	.....	s.	0.93	23.6	heavy rain	D. Cuthbertson.
Concho, Texas	28.05	712.5	29.92	760.0	71	21.7	90	calm	0	0	.....	0	0	.....	.....	0.03	0.8	clear	W. W. McConihe.
Davenport, Iowa	29.10	739.1	29.74	755.4	71	21.7	84	sw.	8	3.6	.....	4 ck	0	sw.	.....	0.43	10.9	fair	R. R. Martin.
Dayton, Washington T'y	28.24	717.3	29.98	761.5	47.7	8.7	91	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	H. Clifford.
Deadwood, Dakota	25 36	644.1	29.79	756.7	55	12.8	90	n.	3	1.3	.....	7 k	0	n.	.....	0.35	8.9	fair	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	78	25.5	50	se.	6	2.7	.....	0	4 ks	.....	se.	0	0	fair	D. J. Carr.
Delaware Breakwater, Del.	30.18	766.6	30.20	767.1	57	13.9	86	w.	3	1.3	.....	6 c	0	.....	.....	0	0	fair	F. C. Pratz.
Denison, Texas	29.18	741.2	29.96	761.0	70.0	24.4	85	s.	10	4.5	.....	0	0	.....	.....	0.90	22.9	clear	J. McGlone.
Denver, Colorado	24.78	629.4	29.82	757.4	57.0	13.9	77	n.	2	0.9	.....	0	4 k	.....	w.	0	0	fair	F. M. Neal.
Des Moines, Iowa	28.83	732.3	29.71	754.6	66	18.9	84	w.	14	6.3	.....	0	7 s	.....	w.	0.96	24.4	fair	F. W. Conrad.
Detroit, Michigan	29.24	742.7	29.93	760.2	70.0	21.1	84	se.	8	3.6	.....	.....	10 n	.....	se.	0.08	2.0	light rain	C. F. R. Wappenhans.
Dodge City, Kansas	27.34	694.4	29.85	758.2	62	16.7	84	s.	3	1.3	.....	0	0	.....	.....	0.02	0.5	clear	E. A. Thomas.
Dubuque, Iowa	29.01	736.8	29.70	754.4	69.8	21.0	76	s.	3	1.3	.....	0	8 s	.....	s.	0.11	2.8	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.06	738.1	29.75	755.6	49	9.4	77	ne.	4	1.8	.....	.....	10 s	.....	calm	inap.	inap.	cloudy	N. B. Conger.
Eagle Pass, Texas	29.17	740.9	29.96	761.0	73.0	22.8	84	se.	1	0.4	.....	.....	10 s	.....	se.	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.24	641.1	29.83	757.7	50	10.0	68	calm	0	0	.....	0	0	.....	.....	0.30	7.6	clear	J. M. Clifford.
Eastport, Maine	30.06	763 5	30.13	765.3	57	13.9	65	sw.	1	0.4	.....	hz.	0	.....	.....	0	0	dense haze	D. O. Murphy.
El Paso, Texas	26.23	666.2	29.82	757.4	63	17.2	18	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.27	743.4	29.99	761.7	72	22.2	66	s.	12	5.4	.....	.....	10 s	.....	s.	0	0	cloudy	Peter Wood.
Escanaba, Michigan	29.11	739.4	29.76	755.9	57	13.9	100	ne.	5	2.2	.....	.....	10 n	.....	ne.	0.39	9.9	light rain	C. Dill.
Fort Apache, Arizona	24.98	634.5	29.73	755.1	41	5.0	70	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.19	690.6	29.98	761.5	51	10.6	66	s.	3	1.3	.....	4 c	0	s.	.....	0	0	fair	B. O. Lenoir.
Fort Bennett, Dakota	28.22	716.8	29.76	755.9	60	15.6	93	n.	4	1.8	.....	3 k	6 s	nw.	nw.	0.39	9.9	cloudy	A. Pritchard.
Fort Benton, Montana	27.21	691.1	29.98	761.5	55	12.8	86	n.	1	0.4	.....	0	8 s	.....	.....	0	0	cloudy	G. W. Davis.
Fort Buford, Dakota	27.96	710.2	29.92	760.0	50	10.0	66	w.	10	4.5	.....	0	0	.....	.....	0	0	clear	A. H. Bell.
Fort Custer, Montana	26.85	682.0	29.91	759.7	57	13.9	100	calm	0	0	.....	.....	10 n	.....	calm	0.32	8.1	light rain	V. Verge.
Fort Davis, Texas	25.16	639.1	29.76	755.9	69	20.6	68	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. Williams.
Fort Elliott, Texas	27.18	690.4	29.85	758.2	59	15.0	60	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. J. Cundall.
Fort Grant, Arizona	25.19	639.8	29.73	755.1	62.4	16.9	29	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	Robert C. Lord.
Fort Keogh, Montana	27.46	697.5	29.89	759.2	55	12.8	86	sw.	1	0.4	.....	4 cs	0	sw.	.....	0	0	fair	W. B. Stockman.
Fort Macon, North Carolina	30.17	766.3	30.18	766.6	62	16.7	93	n.	11	4.9	.....	.....	fg.	.....	calm	0	0	dense fog	W. W. Thomas.
Fort McKavett, Texas	27.75	704.8	29.95	760.7	71	21.7	51	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. E. Thatcher.
Fort Missoula, Montana	26.72	678.7	29.98	761.5	51	10.0	80	n.	3	1.3	.....	4 ck	0	s.	.....	0.05	1.3	fair	J. H. Jones.
Fort St. Michaels, Alaska	29.74	755.4	29.77	756.1	41	5.0	91	sw.	15	6.7	.....	0	5 s	.....	sw.	0	0	fair	A. P. Leavitt.
Fort Shaw, Montana	26.40	670.5	29.98	761.5	47	8.3	93	w.	6	2.7	.....	5 cs	0	.....	.....	0.52	13.2	fair	A. L. Mathews.
Fort Sill, Indian Territory	28.72	729.5	29.92	760.0	69.8	21.0	98	s.	4	1.8	.....	.....	fg.	.....	.....	0	0	dense fog	T. Cleary.
Fort Smith, Arkansas	29.53	750.0	29.99	761.7	75.0	23.9	90	calm	0	0	.....	.....	10 s	.....	s.	0.40	10.2	cloudy	J. B. Campbell.
Fort Stevenson, Dakota	28.00	711.2	29.80	756.9	50	13.3	93	w.	2	0.9	.....	2 ck	3 ks	.....	.....	0.52	13.2	fair	W. Burrows
Fort Verde, Arizona	.....	.....	.....	.....	55.1	12.8	37	w.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.47	621.5	29.85	758.2	50.8	10.4	94	w.	1	0.4	.....	.....	10 k	.....	w.	0.70	17.8	cloudy	T. M. Ambler.
Fredericksburg, Texas	28.24	717.3	29.92	760.0	73	22.8	90	s.	3	1.3	.....	4 k	0	s.	.....	0.01	0.3	fair	H. S. Miles.
Galveston, Texas	29.95	760.7	30.00	762.0	82	27.8	87	s.	12	5.4	.....	3 cs	4 k	.....	s.	0	0	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.17	740.9	29.82	757.4	71.5	21.9	79	se.	12	5.4	.....	.....	10 k	.....	sw.	0	0	cloudy	W. A. Reid.
Hatteras, North Carolina	30.15	765.8	30.17	766.3	65	18.3	78	ne.	12	5.4	.....	0	0	.....	.....	0	0	clear	R. M. Crawford.
Helena, Montana	25.82	655.8	29.94	760.5	53	11.7	80	w.	4	1.8	.....	.....	10 n	.....	.....	0.02	0.5	light rain	S. Wheaton.
Henrietta, Texas	29.00	736.6	29.98	761.5	79.0	26.1	82	s.	10	4.5	.....	0	0	.....	.....	0	0	clear	J. W. Byram.
Huron, Dakota	28 37	720.6	29.71	754.6	59.2	15.1	90	nw.	5	2.2	.....	.....	10 s	.....	nw.	1.04	26.4	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.17	740.9	29.95	760.7	71	21.7	90	sw.	7	3.1	.....	.....	10 s	.....	sw.	2.32	58.9	threatening	O. Schutze
Indianola, Texas	29.95	760.7	29.98	761.5	79.1	26.2	88	se.	7	3.1	.....	5 cs	hz.	sw.	.....	0	0	fair	I. A. Reed.
Jacksboro, Texas	28.84	732.5	29.96	761.0	76	24.4	85	s.	8	3.6	.....	0	4 k	.....	s.	0	0	fair	J. P. Sherry.
Jacksonville, Florida	30.10	764.5	30.14	765.5	79	26.1	62	ne.	1	0.4	.....	0	0	.....	.....	inap.	inap.	clear	J. W. Smith.
Keokuk, Iowa	29.13	739.9	29.77	756 1	76.0	24.4	79	sw.	12	5.4	.....	0	0	.....	.....	0.44	11.2	clear	F. Z. Gosewisch.
Key West, Florida	30.00	762.0	30.02	762.5	85.0	29.4	67	e.	2	0.9	.....	0	4 k	.....	.....	0.08	2.0	fair	R. H. Paxton.
Kittyhawk, North Carolina	30.21	767.3	30.23	767.8	62	16.7	84	e.	8	3.6	.....	2 c	1 k	n.	e.	0	0	clear	E. A. Beals.
Knoxville, Tennessee	29.15	740.4	30.16	766.1	70.3	21.3	84	sw.	2	0.9	.....	2 ck	1 s	sw.	.....	0	0	clear	J. A. Cody.
La Crosse, Wisconsin	28.90	734.0	29.66	753.4	71	21.7	82	se.	1	0.4	.....	.....	10 s	.....	s.	0.15	3.8	cloudy	S. C. Emery.
La Mesilla, New Mexico	26.08	662.4	29.80	756.9	51.5	10.8	58	calm	0	0	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Leavenworth, Kansas	28.98	736.1	29.85	758.2	69	20.6	66	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	A. W. Browne.
Lewiston, Idaho	29.15	740.4	29.97	761.2	55	12.8	80	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. Bell.
Little Rock, Arkansas	29.69	754.1	30.00	762.0	78	25.6	90	s.	6	2.7	.....	0	6 s	.....	.....	0.11	2.8	fair	W. U. Simmons.
Los Angeles, California	29.55	750.6	29.94	760.5	59.1	15.1	81	e.	4	1.8	.....	.....	10 s	.....	calm	0	0	cloudy	E. F. Kubel.
Louisville, Kentucky	29.44	747.8	29.99	761.7	75	23.9	82	s.	9	4.0	.....	2 cs	4 k	.....	sw	0.50	12.7	fair	H. C. Smyth.
Lynchburg, Virginia	29.50	749.3	30.17	766.3	70.0	21.1	57	calm	0	0	.....	3 ck	3 ks	e.	e.	0.01	0.3	fair	W. R. Bushby.
Madison, Wisconsin	28.74	730.0	29.74	755.4	67	19.4	93	s.	7	3.1	.....	2 cs	2 k	w.	s.	0.18	4.6	fair	C. A. Shaw.
Marquette, Michigan	29.07	738.4	29.79	756.7	61	16.1	65	se.	1	0.4	.....	4 k	6 s; sk	sw.	sw.	0	0	cloudy	J. Gilligan.
Memphis, Tennessee	29.70	754.4	30.02	762.5	78	25.6	82	se.	6	2.7	.....	hz.	1 s	.....	se.	0.06	1.5	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.03	737.3	29.77	756.1	58	14.4	75	se.	3	1.3	.....	0	hz.	.....	.....	inap.	inap.	clear	W. Line.

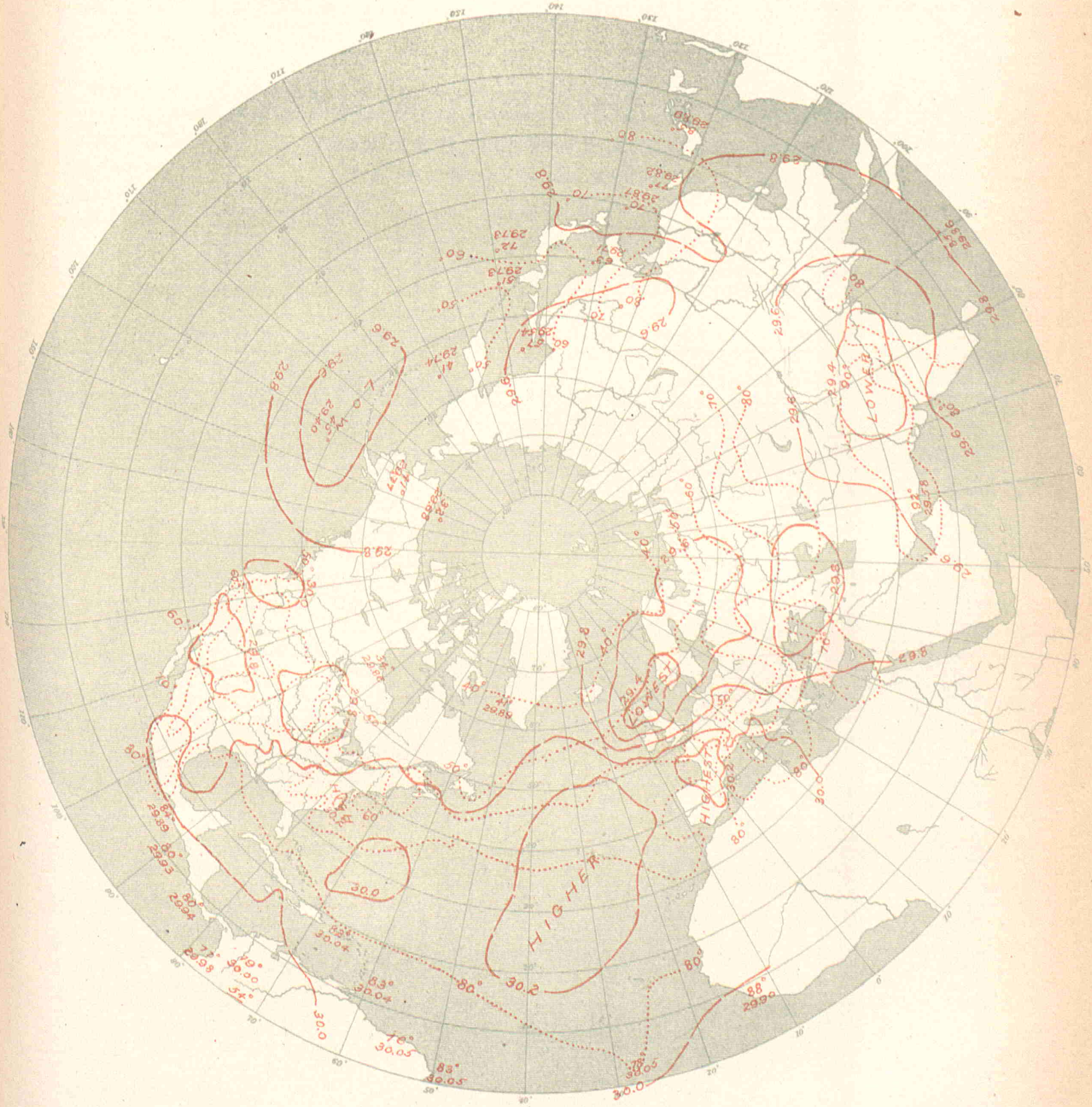
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Mobile, Alabama	30.07	763.8	30.11	764.8	78.5	25.8	82	e.	4	1.8		1 k	0	se.		inap.	inap.	clear	J. D. Paxton.
Montgomery, Alabama	29.91	759.7	30.14	765.5	76.4	24.7	77	se.	4	1.8		3 k	5 ks	sw.		0	0	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	28.73	729.7	29.70	754.4	61	16.1	84	se.	5	2.2			10 s		se.	0.04	1.0	cloudy	H. Bessant.
Morgantown, W. Virginia	29.08	738.6	30.08	764.0	69.5	20.8	83	sw.	2	0.9		0	7 s			c	0	fair	J. C. Sprigg, jr.
Mt. Washington, N. H.	24.04	610.6	30.16	766.1	48.0	8.9	74	nw.	17	7.6		4 cs	sk.	nw.	nw.	0	0	fair	J. G. Linsley.
Nashville, Tennessee	29.55	750.6	30.07	763.8	76.5	24.7	71	se.	6	2.7		6 ck	0	w.		0	0	fair	L. A. Jesunofsky.
New Haven, Connecticut	30.06	763.5	30.17	766.3	62	16.7	72	sw.	4	1.8		7 c	0			0	0	fair	J. H. Sherman.
New London, Connecticut	30.14	765.5	30.19	766.8	61	16.1	93	s.	3	1.3		3 c	fg.			0	0	fair	J. G. Lynch.
New Orleans, Louisiana	30.00	762.0	30.05	763.3	79.0	26.1	79	e.	5	2.2		2 c	sk.			0.52	13.2	clear	L. Dunne.
Newport, Rhode Island	30.14	765.5	30.19	766.8	60.8	16.0	85	sw.	4	1.8		6 c	1 k			0	0	fair	W. McGillivray.
New River, N. Carolina					65	18.3	74	ne.			1	1 c	2 s		n.	0	0	clear	C. C. Corbin.
New Shoreham, Rhode I'd.	30.15	765.8	30.18	766.6	59.0	15.0	81	sw.	10	4.5		4 cs	0	w.		0	0	fair	W. Davis.
New York, New York	30.03	762.7	30.20	767.1	58	14.4	80	sw.	6	2.7		2 cs	0	w.		0	0	clear	J. B. Merrill.
Norfolk, Virginia	30.18	766.6	30.21	767.3	65	18.3	68	e.	1	0.4		8 cs	0	e.		0	0	cloudy	J. T. Elker.
North Platte, Nebraska	27.05	687.1	29.85	758.2	57.6	14.2	88	n.	4	1.8		0	2 s			0.13	3.3	clear	E. F. Brady.
Olympia, Washington T'y	30.09	764.3	30.13	765.3	47.0	8.3	93	nw.	1	0.4		4 c	0	n.		0	0	fair	J. Dascomb.
Omaha, Nebraska	28.65	727.7	29.79	756.7	66.2	19.0	75	sw.	10	4.5		0	0			0.05	1.3	clear	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	29.66	753.4	29.68	753.9	32.4	0.2	100	nne.	8	3.6			10 s			0.19	4.8	cloudy	P. H. Ray.
Oswego, New York	29.71	754.6	30.03	762.7	66.0	18.9	68	se.	7	3.1		1 c	0			0	0	clear	S. W. Beall.
Palestine, Texas	29.49	749.0	30.03	762.7	77.0	25.0	85	sw.	6	2.7		3 ck	0	s.		0	0	clear	L. M. Pindell.
Pensacola, Florida	30.08	764.0	30.11	764.8	77.2	25.1	94	e.	12	5.4			10 s		e.	0.03	0.8	cloudy	M. McGauran.
Philadelphia, Pa.	30.10	764.5	30.20	767.1	64	17.8	73	s.	2	0.9		3 c	hz.	se.		0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.89	454.4	29.71	754.6	23.5	— 4.7	76	w.	25	11.2		0	2 s		sw.	inap.	inap.	clear	L. M. Dey.
Pioche, Nevada	23.96	608.6	29.76	755.9	46.2	7.9	93	nw.	6	2.7			10 ks		s.	0.48	12.2	cloudy	C. N. Kitchel.
Pittsburg, Pennsylvania	29.24	742.7	30.03	762.7	66.4	19.1	84	s.	6	2.7			10 ks		sw.	0.09	2.3	threatening.	J. H. Bryce.
Poplar River, Montana	27.87	707.9						nw.			1	0	0			0	0	clear	U. D. Maxwell.
Port Eads, Louisiana	30.07	763.8	30.08	764.0	78.0	25.6	90	e.	10	4.5		0	2 ks		e.	0	0	clear	H. G. Christian.
Port Huron, Michigan	29.24	742.7	29.90	759.4	65.5	18.6	97	s.	9	4.0			10 n			0.02	0.5	light rain	W. O. Bailey.
Portland, Maine	30.08	764.0	30.13	765.3	59.0	15.0	75	calm	0	0		hz.	hz.			0	0	light haze	W. W. Eichelberger.
Portland, Oregon	30.02	762.5	30.09	764.3	49.0	9.4	93	nw.	1	0.4		1 c	4 s	calm	nw.	0	0	fair	M. L. Hearne.
Portsmouth, N. Carolina					68	20.0	78	ne.	13	5.8		0	0			0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.75	628.6	29.77	756.1	42	5.6	62	sw.	1	0.4		0	0			0	0	clear	J. Mc N. Wright.
Provincetown, Mass.	30.14	765.5	30.16	766.1	60.5	15.8	87	s.	9	4.0		3 cs	2 s	sw.		0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	30.03	762.7	30.04	763.0	76	24.4	85	ne.	9	4.0		1 c	1 k	calm	ne.	0.13	3.3	clear	W. J. Evans.
Red Bluff, California	29.47	748.5	29.83	757.7	67.1	19.5	43	n.	5	2.2		0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.70	754.4	29.93	760.2	81.2	27.3	88	e.	7	3.1		10 cs	0	s.		0	0	cloudy	P. M. Wilson.
Rochester, New York	29.35	745.5	30.00	762.0	66	18.9	68	s.	12	5.4		7 c	sk.			0	0	fair	E. W. McGann.
Roseburg, Oregon	29.52	749.8	30.08	764.0	48	8.9	86	ne.	1	0.4		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	29.72	754.9	29.79	756.7	59.8	15.4	75	sw.	4	1.8		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.32	744.7	29.91	759.7	75.0	23.9	98	s.	14	6.3		0	0			inap.	inap.	clear	J. H. Webber.
St. Paul, Minnesota	28.79	731.3	29.64	752.8	65.0	18.3	90	ne.	6	2.7			10 n		e.	0.01	0.3	light rain	P. F. Lyons
St. Vincent, Minnesota	28.85	732.8	29.70	754.4	63	17.2	90	sw.	4	1.8			10ks;s		calm	0.06	1.5	threatening.	G. Kingsbury.
Salt Lake City, Utah	25.60	650.2	29.82	757.4	55	12.8	69	calm	0	0			10 ks		sw.	0.79	20.1	cloudy	J. Craig.
San Antonio, Texas	29.26	743.2	29.94	760.5	76	24.4	90	se.	2	0.9			10 ks		se.	0.07	1.8	cloudy	E. Lane.
San Diego, California	29.84	757.9	29.92	760.0	60.9	16.1	78	s.	4	1.8			10 s		sw.	0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.27	743.4	29.94	760.5	68.2	20.1	93	sw.	11	4.9			10 s			0.08	2.0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.16	766.1	30.20	767.1	63.0	17.2	78	nw.	6	2.7		5 cs	0	se.		0	0	fair	B. A. Blundon.
San Francisco, California	29.79	756.7	29.86	758.4	54.5	12.5	86	sw.	3	1.3			fg.		sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.27	591.0	29.78	756.4	54	12.2	41	se.	6	2.7		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	30.08	764.0	30.17	766.3	76	24.4	74	n.	4	1.8		4 c	0			inap.	inap.	fair	H. W. Ford.
Shreveport, Louisiana	29.81	757.2	30.04	763.0	76	24.4	90	s.	2	0.9		0	8 k		s.	0	0	cloudy	E. N. Meeklus.
Silver City, New Mexico	24.31	617.5	29.81	757.2	42	5.6	55	s.	1	0.4		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	29.65	753.1	29.71	754.6	47.1	8.4	93	calm	0	0			10 s		calm	0.12	3.0	cloudy	J. J. McLean.
Smithville, North Carolina	30.15	765.8	30.19	766.8	68	20.0	70	ne.	7	3.1		4 c	0	n.		0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.97	710.4	30.01	762.2	52	11.1	80	calm	0	0		0	0			0	0	clear	D. Moore.
Springfield, Illinois	29.19	741.4	29.86	758.4	75	23.9	85	s.	11	4.9		0	1 ks		s.	0	0	clear	T. B. Jennings.
Springfield, Massachusetts	30.04	763.0	30.17	766.3	64.9	18.3	63	s.	3	1.3		8 c	0	w.		0	0	cloudy	T. S. Outram.
Springfield, Mo.	28.54	724.9	30.00	762.0	71	21.7	82	s.	7	3.1		0	2 s		s.	0.01	0.3	clear	J. B. Marbury.
Starkville, Miss.	29.66	753.4	30.13	765.3	79	26.1	82	se.	4	1.8		1 c	2 ks		se.	0	0	clear	M. J. Wright.
Stockton, Texas	26.93	684.0	29.85	758.2	68.5	20.3	93	s.	16	7.2		0	0			0	0	clear	J. O'Dowd.
Thatcher's Island, Mass.	30.08	764.0	30.14	765.5	55.8	13.2	86	sw.	6	2.7		0	0			0	0	clear	G. Liebmann.
Toledo, Ohio	29.24	742.7	29.92	760.0	69	20.6	84	s.	6	2.7			10n;fg		s.	0.01	0.3	light rain	A. Buell.
Tucson, Arizona	27.48	698.0	29.78	756.4	59	15.0	41	se.	4	1.8		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.66	753.4	30.02	762.5	55	12.8	74	w.	2	0.9		0	0			0	0	clear	J. Daly.
Uvalde, Texas	28.98	736.1	29.92	760.0	75	23.9	90	se.	2	0.9		3 ck	3 s	se.		0	0	fair	E. C. Imlay.
Vicksburg, Mississippi	29.83	757.7	30.08	764.0	75	23.9	97	se.	1	0.4		0	0			0	0	clear	H. P. Brisbane.
Visalia, California	29.43	747.5	29.80	756.9	59	15.0	70	s.	2	0.9		3 ck	0			0	0	clear	W. L. Seward.
Washington, D. C.	30.09	764.3	30.20	767.1	68.6	20.3	70	s.	2	0.9		2 c	0	w.		inap.	inap.	clear	B. M. Purssell.
West Las Animas, Colorado	26.02	660.9	29.80	756.9	56.9	13.8	77	calm	0	0		5 ck	0	sw.		0	0	fair	F. W. Brandenburg.
Williamsport, Pa.	29.52	749.8	30.12	765.0	65	18.3	63	e.	4	1.8		10 cs	0			0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.12	765.0	30.17	766.3	66	18.9	63	ne.	5	2.2		3 cs	sk.			0	0	clear	A. T. Sherwood.
Winnemucca, Nevada	25.59	650.0	29.85	758.2	47	8.3	71	ne.	4	1.8			10 ks		ne.	0.16	4.1	cloudy	J. R. Williams.
Yankton, Dakota	28.49	723.6	29.77	756.1	63	17.2	78	w.	5	2.2		0	0			0.31	7.9	clear	J. H. Atfield.
Yuma, Arizona	29.60	751.8	29.74	755.4	67.3	19.6	67	calm	0	0		0	1 s			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8			54.0	12.2	82	ne.	1	0.4			10 s;n			0.94	23.9	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.02	762.5	30.04	763.0	83	28.3	91	e.				5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.95	760.7	29.98	761.5	77	25.0	90	calm	0	0			10 ks		calm	0.52	13.2	cloudy	J. I. Plume.
Havana, Cuba, W. I.	30.00	762.0	30.05	763.3	82	27.8	79	calm	0	0		0	1 ks			inap.	inap.	clear	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.00	762.0	30.01	762.2	79.0	26.1	80	calm	0	0		10 c	0			0.52	13.2		Robert Johnston.
Magua, San Domingo, W. I					77	25.0		n.			2	2 cs	0	e.		0	0		S. M. Pike.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	76	24.4	91	e.			2		8 ps	e.	e.	0.120	3.0	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.54	750.3	30.00	762.0	79	26.1	89	s.			1	0	8 ks		s.	0.03	0.8	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							100	se.			1					0.50	12.7	cloudy	Earl Flint.
Santiago de Cuba, W. I.	29.96	761.0	29.99	761.7	80	26.7	74	calm	0	0		5 c	0			0.05	1.3	fair	Robert Mason.
York Factory, B. A.	29.79	756.7	29.86	758.4	34.0	1.1	100	ne.	19	8.5			10 n		ne.	1.00	25.4	raining	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Alert, S. 34° 27′, E. 18° 43′	30.16	766.1	62.8	17.1	74	wnw.			4		3							misty.
H. M. S. Alexandra, Alexandria, Egypt	29.86	758.4	75	23.9	81	wnw.			4-5		0					2	wnw.	misty.
H. M. S. Amethyst, S. 33° 48′ W. 50° 30′	30.01	762.2	58.5	14.7	81	sw.			5		2	sw.				2	sw.	d. clouds.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.79	756.7	82	27.8		var.			2									blue sky.
H. M. S. Arab, N. 24° 12′ E. 59° 25′	29.48	748.8	92	33.3	76	calm			0		1					4	sw.	misty.
H. M. S. Bacchante, Corfu, Ionian Islands	29.92	760.0	73	22.8	76	wsw.			2		3	w.						d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.07	763.8	61	16.1		wnw.			2-3		1	w.						blue sky.
H. M. S. Champion, Honolulu, Sandwich Islands			75	23.9		nne.			3-4		6							
H. M. S. Cleopatra, N. 28° 37′, E. 124° 31′	29.87	758.7	69.5	20.8	90	ene.			2		4	sw.						d. clouds.
H. M. S. Coquette, Port Said, Egypt	29.81	757.2	77	25.0		n.			3		0							blue sky.
H. M. S. Cruiser, N. 39° 53′, E. 19° 43′	29.88	758.9	72	22.2		nw.			1		3	wnw.				2	nnw.	d. clouds.
H. M. S. Diamond, S. 15° 12′, E. 162° 05′	29.91	759.7	79	26.1	86	ese.			3-4		10					2	e.	overcast.
H. M. S. Dido, N. 10° 37′, W. 67° 00′	30.00	762.0	78	25.6		calm			0		3	e.				1	ne.	d. clouds.
H. M. Dock Yard, Bermuda, W. I.	29.90	759.4	74	23.3	90	nw.			1-2		4	nw.						d. clouds.
H. M. S. Dwarf, S. 25° 16′, W. 57° 45′	29.83	757.7	54.5	12.5	100	ssw.			1		10							drizzling.
H. M. S. Eclipse, S 4° 37′, E. 55° 30′	30.01	762.2	80	26.7		ese.			1-2		3							d. clouds.
H. M. S. Emerald, S. 53° 40′, W. 56° 00′	29.69	754.1	40	4.4	?	wsw.			1		2	ssw.				1	ssw.	d. clouds.
H. M. S. Fawn, S. 21° 21′, E. 55° 47′						sse.			4-5									
H. M. S. Fantome, N. 10° 37′ W. 83° 02′	29.90	759.4	80	26.7		calm			0		10	sw.				2	e.	showery.
H. M. S. Flying Fish, N. 37° 19′, E. 125° 14′	29.71	754.6	62.5	16.9	94	calm			0		4							misty.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	29.99	761.7	49	9.4	85	calm			0		1							blue sky.
H. M. S. Garnet, Montevideo Uruguay	30.05	763.3	57	13.9	75	w.			4		4							d. clouds.
H. M. S. Griffon, N. 47° 58 W. 52° 47′	29.96	761.0	48	8.9	70	sw.			1		3	sw.				4	n.	d. clouds.
H. M. S. Inconstant, N. 7° 00′ W. 15° 30′	30.05	763.3	80	26.7	86	wsw.			1-2		6	w.				2	ssw.	d. clouds.
H. M. S. Iron Duke, N. 35° 10′, E. 139° 40′	29.73	755.1	66	18.9	100	calm			0		5							d. clouds.
H. M. S. Kingfisher, N. 11° 10′, W. 88° 50′	29.93	760.2	80	26.7		ene.			2		2					4	ne.	d. clouds.
H. M. S. Lark, S. 10° 37′, E. 162° 30′	29.94	760.5	81.3	27.4		calm			0		5							d. clouds.
H. M. S. Magpie, N. 34° 56′, E. 139° 52′	29.75	755.6	65.3	18.5	94	se.			1		10					1	nw.	misty.
H. M. S. Minotaur, Gibraltar, Mediterranean	30.17	766.3	69	20.6	79	ene.			4-6		7							misty.
H. M. S. Nelson, S. 39° 30′ E. 177° 40′	29.95	760.7	59	15.0	94	nne.			6		9					5	n.	squally.
H. M. S. Northampton, Halifax, Nova Scotia	30.08	764.0	60	15.6	70	calm			0		0							misty.
H. M. S. Phœnix, N. 18° 37′, W. 77° 49′	29.97	761.2	79	26.1	90	calm			0		0							blue sky.
H. M. S. Rambler, Saint Paul de Loanda, Benguela	29.99	761.7	71	21.7	100	wnw.			2		0							blue sky.
H. M. S. Rocket, N. 49° 15′, W. 124° 00′	30.08	764.0	54	12.2	?	calm			0		2							d. clouds.
H. M. S. Sappho, S. 26° 32′, W. 105° 27′	30.16	766.1	69.5	20.8		wsw.			2		2	calm				3	w.	d. clouds.
H. M. S. Swiftsure, N. 15° 20′, W. 25° 05	30.16	766.1	73.5	23.1	68	ne.			3		6	nne.				3	nne.	d. clouds.
H. M. S. Tenedos, N. 46° 43′ W. 53° 22′	30.03	762.7	54	12.2	76	w.			2		2							d. clouds.
H. M. S. Triumph, Coquimbo, Chili	29.93	760.2	53	11.7	73	calm			0		2	calm						d. clouds.
H. M. S. Woodlark, N. 26° 18′, E. 56° 00′	29.48	748.8	92.5	33.6	73	var.			1									dense mist.
PORTUGUESE NAVAL.																		
Rio Lima, Porto Praya, Cape Verd Islands	30.12	765.1	80.1	26.7	78	nne.			2		2					1		d. clouds.
Tamega, Macao, China	29.69	754.1	83.3	28.5	77	nne.			4		3		ne.			1		d. clouds.
SWEDISH NAVAL.																		
Saga, N. 41° 42′, W. 14° 09′	30.21	767.3	63.7	17.6	74	ne.			5		8							overcast.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	30.05	763.3	85	29.4	76	se.	9	4.0			0			0	0			clear.
Navy Yard, Portsmouth, N. H.	30.13	765.3	60	15.6	82	calm	0	0			0			0	0			clear.
Naval Hospital, Yokohama, Japan*	29.65	753.1	64.5	18.1	94	calm			0		10		n.	0.33	8.4			misty.
Adams, Mare Island, Cal	29.84	757.9	56	13.3	94	ssw.			2		5							fair.
Alaska, Callao, Peru	29.92	760.0	60	15.0	94	calm			0		5			0	0	sm'h		fair.
Alert, Yokohama, Japan*	29.64	752.8	68	20.0	90	nw.			2		10		calm			sm'h		cloudy.
Alliance, Hampton Roads, Va	30.21	767.3	67	19.4	84	sse.			1		5			0	0	sm'h		fair.
Ashuelot, Yokohama, Japan	29.73	755.1	66	18.9	94	wsw.			1		10		calm					cloudy.
Brooklyn, Rio de Janeiro, Brazil	30.21	767.3	68	20.0	95	n.	3	1.3			2		n.	0	0	sm'h		clear.
Colorado, New York, N. Y.	30.15	765.8	61	16.1	82	sw.	3	1.3			2		calm	0	0			fair.
Enterprise, Norfolk, Va*	30.21	767.3	64	17.8	100	calm			0		8		calm					fair.
Essex, S. 41° 18′, W. 59° 46′	29.89	759.2	48	8.9	78	s.			3		8		s.			br'kn		cloudy.
Franklin, Norfolk, Va	30.23	767.8	63	17.2	72	e.	2	0.9			0			0	0			clear.
Galena, Alexandria, Egypt	29.87	758.7	78	25.6	86	nw.			3		0					sm'h		hazy.
Independence, Mare Island, Cal	29.87	758.7	55	12.8	?	sw.			4		5			0	0			misty.
Iroquois, San Francisco, Cal	29.84	757.9	56	13.3	87	sw.			2		10							misty.
Kearsage, Norfolk, Va	30.22	767.6	62	16.7	88	calm			0		5		nnw.					fair.
Lackawanna, Palta, Peru*	29.95	760.7	63	17.2	83	sse.			2		10		e.					cloudy.
Lancaster, Cadiz, Spain*	30.03	762.7	79	26.1	62	ese.			6		2		ese.	0	0	sm'h		fair.
Marion, S. 34° 54′, W. 56° 13′	29.99	761.7	71	21.7	100	w.			3		5		calm	0	0	sm'h		fair.
Michigan, Detroit, Michigan	29.87	758.7	66	18.9	100	sw.			2		10		sw.					raining.
Minnesota, Newport, R. I.	30.23	767.8	58	14.4	94	wsw.	2	0.9			5							
Monocacy, Nagasaki, Japan	29.88	758.9	69	20.6	90	ne.			1		1		calm					clear.
New Hampshire, Newport, R. I.	30.21	767.3	62	16.7	94	s.			2		10					sm'h		fair.
Nipsic, Venice, Italy	30.00	762.0	67	19.4	54	s.			1		2					sm'h		clear.
Onward, Callao, Peru†	30.09	764.3	59	15.0	100	nw.			1		10		s.			long	w.	cloudy.
Palos, Kobe, Japan	29.81	757.2	64	17.8	94	calm			0		5		calm					fair.
Passaic, Washington, D. C.	30.24	768.1	66	18.9	94	sw.			1		10		calm					fair.
Pensacola, Callao, Peru	29.98	761.5	59	15.0	94	nw.	4	1.8			10			0	0	sm'h		cloudy.
Powhatan, Fort Monroe, Va	30.20	767.1	63	17.2	67	e.			1		5		e.					fair.
Portsmouth, off Ryde, Isle of Wight, Eng*	29.83	757.7	62	16.7	100	wnw.			7		8					sm'h		cloudy.
Quinnebaug, N. 33° 16′ W. 14° 36′	30.11	764.8	65	18.3	78	nne.			4		10		calm			long	n.	overcast.
Ranger, San Francisco, Cal*	29.79	756.7	57	13.9	81	calm			0		10		sw.	0	0	sm'h		cloudy.
Richmond, Nagasaki, Japan*	29.80	756.9	70	21.1	90	calm			0		2		w.	0.05	1.3			clear.
Saratoga, off Ryde, Isle of Wight, Eng*	29.85	758.2	60	15.6	71	wnw.			6		8		nw.	light	light	sm'h		cloudy.
St. Louis, League Island, Pa			68	20.0	70	calm	0	0			0			0	0			clear.
Swatara, Nagasaki, Japan*	29.69	754.1	70	21.1	85	calm			0		0					sm'h		clear.
Tennessee, Fort Monroe, Va	30.24	768.1	66	18.9	74	se.			2		5		nw.	0	0			fair.
Vandalia, Hampton Roads, Va*	30.18	766.6	66	18.9	79	sse.			1		8		calm					fair.
Wabash, Boston, Mass	30.14	765.5	63	17.2	83	wsw.	3	1.3			5		sw.	0	0			fair.
Wachusetts, Fort Wrangle, Alaska	29.69	754.1	48	8.9	92	ne.			2		10					sm'h		rainy.
Wyoming, Port Royal, S. C.	30.18	766.6	74	23.3	81	ene.	4	1.8			5		ne.	0	0			fair.
Yantic, Hampton Roads, Va*	30.19	766.8	67	19.4	79	se.			1		2							clear.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Prussian, N 51° 33′ W. 12° 44′*	29.92	760.0	59	15.0		wnw.			5		8		nw.	0	0	h'vy	nw.	cloudy.
S. S. Scandinavian, N. 42° 29′ W. 55° 06′*	30.01	762.2	54	12.2		ne.			2		7		nnw.	0	0	mod.	ssw.	d. clouds.
S. S. Waldensian, N. 47° 49′, W. 37° 23′*	30.28	769.1	60	15.6		ssw.			5		8		wsw.	0	0	mod.	cross	cloudy.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, N. 47° 28′, W. 31° 19′	30.34	770.6	61	16.1	100	calm			0		5		w.			sm'h		
S. S. Indiana, off Tuskar Island†	29.99	761.7	61	16.1	94	w.			4		2		w.			mod.	w.	fine.
S. S. Lord Clive, N. 44° 43°, W. 43° 42′ *†	30.06	763.5				s.			3		7		s.	0	0			cloudy.
S. S. Pennsylvania, N. 39° 36′, W. 52° 15′†	30.13	765.3	73	22.8		e.			2		8		se.			sm'h	se.	showery.
ANCHOR LINE.																		
S. S. Bolivia, N. 55° 20′, W. 6° 00′†	29.47	748.5	49	9.4		wsw.			5		5?		wsw.	12 h'r	12 h'r	r'gh	w.	cloudy ?
S. S. Ethiopa, N. 40° 30′, W. 72° 20′	30.16	766.1	62	16.7	91	sw.			2		3		sw.	0	0	sm'h		clear.
S. S. Utopia, Naples, Italy†	30.26	768.6	71	21.7	58	ssw.			3		3		w.	1 h'r	1 h'r			clear.
ATLAS LINE.																		
S. S. Ailsa, Savanilla, U. S. C.†	29.90	759.4	81	27.2	91	calm			0		2		ne.	0	0			fair.
S. S. Alvena, Mayaguez†	29.92	760.0	76	24.4	77	calm			0		0			1 h'r	1 h'r			fine.
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, Charlottetown, Canada†	30.01	762.2	60	15.6		wsw.							sw.	0	0			cloudy.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 38° 06′, E. 67° 51′	29.68	753.9	52.5	11.4	68	wsw.			5		5							d. clouds.
S. Baroda, N. 3° 12′, E. 94° 50′	29.91	759.7	84.3	29.1	71	ssw.			2		3							d. clouds.
British Merchant, N. 15° 41′ W 32° 12′	30.18	766.6	75.8	24.3	75	ne.			4–5		4							d. clouds.
S. S. Cipero, N. 14° 54′ W. 57° 41′	30.06	763.5	85	29.4	83	e.			3		1							blue sky.
Glencairn, S. 14° 51′, W. 6° 10′	30.21	767.3	76	24.4	73	sse.			4–5		7							d. clouds.
S. S Gordon Castle, N. 1° 58′, E. 87° 56′	29.86	758.4	85	29.4	79	sw.			4–5		4							d. clouds.
May Hulse, S. 56° 52′, W. 62° 27′	29.57	751.1	37	2.8	90	nne.			3		4							d. clouds.
S. S Minho, Pernambuco, Brazil	30.09	764.3	78.4	25.8	91	se.			2		4							d. clouds.
S. S. Pole Star, S. 29° 11′, W. 30° 41′	30.40	772.1	64.8	18.2	70	sse.			2		7							gloomy.
CUNARD LINE.																		
S. S. Marathon, N. 52° 30′, W. 5° 55′	29.86	758.4	57	13.9		w.			3		8		w.	0	0	sm'h	w.	fine.
S. S. Scythia, N. 49° 28′, W. 29° 45′	30.22	767.6	56	13.3	?	wsw.			2		10			8 h'r	8 h'r	sl'gt	w.	overcast.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. St. Laurent, N. 45° 40′, W. 27° 50′†	30.45	773.5	62.6	17.0	70	ssw.			3					0	0	sm'h	ssw.	clear.
S. S. Ville de Marseilles, N. 36° 06′, W. 7° 00′*†	30.00	762.0	70	21.1		e.			6		3		e.	6 h'r	6 h'r	h'vy	e.	clear.
GUION LINE.																		
S. S. Arizona, N. 40° 23′ W. 69° 22′	30.20	767.1	52	11.1		nne.			2		2		nw.	0	0	mod.	e.	blue sky
S. S. Wisconsin, N. 48° 40′, W. 39° 45′*	30.22	767.6	54	12.2		w.			4		5		w.	4 h'r	4 h'r	mod.	w.	fair.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 42° 02′, W. 50° 31′						s.			5		3		sw.	0	0	sm'h	s.	
S. S. Cimbria. Off Beachy Head, Eng	29.91	759.7	60	15.6		w.			6		6		w.	0	0	mod.	w.	fair.
S. S. Gellert, N. 46° 28′, W. 38° 45′	30.25	768.3	61	16.1		calm			0		10		sw.	0	0	sm'h	se.	cloudy.
S. S. Herder, Hamburg, Germany*†	29.70	754.4	56	13.3		ssw.			8		6		sw.	2 h'r	2 h'r			
S. S. Lessing, Hamburg, Germany	29.45	747.9	68	20.0		sw.			9		8		sw.	rain	rain			
S. S. Wieland, N. 40° 33′, W. 71° 04′	30.26	768.6	57.5	14.2		calm			0		0			0	0	3	sse.	clear.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, Antwerp, Belgium*†	29.95	760.7	58	14.4		wnw.			5		10		wnw.	0	0			cloudy.
S. S. Humboldt, N. 41° 48′, W. 46° 30′*	30.13	765.3	65.5	18.6	92	sse.			3	3 c				0	0	2		d. clouds.
LEYLAND LINE.																		
S. S. Iberian, N. 49° 53′, W. 28° 23′	30.24	768.1				ne.			1		10			0	0			foggy.
MALLORY LINE.																		
S. S. Colorado, N. 25° 40′, W. 80° 00′†	30.03	762.7	77	25.0		w.			2		1		w.	sh'rs	sh'rs	sm'h		clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 33° 55′, W. 76° 58′†	30.20	767.1	71	21.7	90	nnw.			3		0			0	0	sm'h		clear.
S. S. Hermod, N. 39° 56′, W. 53° 58′†	29.83	757.7	68.0	20.0		s.			1		8		sw.	4 h'r	4 h'r	mod.		fair.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, S. 1° 57′, W. 38° 26′	29.53	750.0				e.			6				se.	3 h'r	3 h'r	sm'h	e.	cloudy.
S. S. Glenapp, N. 23° 19′, W. 40° 49′.*†	30.12	765.0				ne.			5		6		ene.	0	0	mod.	se.	hazy.
NATIONAL LINE.																		
S. S. Denmark, N. 40° 41′. W. 56° 40′	30.11	764.8	68	20.0		ne.			4		10		ene.	8 h'r	8 h'r	sl't	sse.	cloudy.
S. S. England, N. 40° 56′, W. 52° 53′	30.09	764.3				se.			3		8		s.	6 h'r	6 h'r	sm'h		cloudy.
S. S. Greece, N. 46° 26′, W. 33° 27′	30.32	770.1				ssw.			1		5?		ssw.	0	0	sm'h	nnw.	cloudy?
S. S. Holland, Off North Foreland, Eng	29.80	756.9	59	15.0		sw.			3		8		sw.	0	0	sm'h	w.	fair.
The Queen, N. 40° 26′, W. 70° 20′*	29.93	760.2				calm			0		6		calm	0	0	g'ntle	se.	
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, New York, N. Y.*†	30.28	769.1	60	15.6	88	wsw.			2		2		n.	0	0	long	se.	hazy.
S. S. City of Washington, N. 22° 10′ W. 87° 08′*†	30.20	767.1	85	29.4		ene.			1		1		ene.	0	0		ne.	clear.
NORTH GERMAN LLOYD.																		
S. S. Elbe, N. 41° 16′, E. 46° 32′	30.12	765.0	68.0	20.0	91	s.			2		2		s.	0	0	sm'h	s.	clear.
S. S. Gen. Werder, N. 41° 42′, W. 50° 05′	30.09	764.3				wsw.			2		2			0	0	sm'h	sw.	clear.
S. S. Graf Bismarck, Lisbon, Portugal	30.14	765.5	67.1	19.5		var.			2–3		4		var.					fine.
S. S. Habsburg, N. 49° 07′, W. 23° 17′	30.32	770.1	64.4	18.0		wsw.			5		10			3 h'r	3 h'r	mod.	wsw.	overcast.
S. S. Hermann, N. 43° 10′, W. 43° 03′†	30.09	764.3	59.0	15.0		ssw.			5		3		ssw.	½ h'r	½ h'r	mod.	ssw.	fair.
S. S. Leipzig, N. 46° 48′, W. 31° 47′	30.30	769.6	64.0	17.8	83	calm			0		5		w.	0	0	sm'h		fair.
S. S. Mosel, N. 41° 46′, W. 50° 05′	30.14	765.5	69	20.6		ssw.			3		7?		sw.	0	0	sm'h		clear ?
S. S. Neckar, N. 40° 27′, W. 6° 50′			58.5	14.7	80	wsw.			6		10		wsw.	0	0	r'gh	w.	misty.
S. S. Ohio, N. 50° 53′, E. 0° 59′	29.90	759.4				wnw.			6		10		wnw.	0	0	mod.	nw.	cloudy.
S. S. Salier, Bremerhaven, Germany	29.64	752.8	52.7	11.5		ssw.			4		8		ssw.	4 h'r	4 h'r			cloudy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, Yokohama, Japan*†	29.83	757.7	67	19.4	94	sse.			4		8		wnw.	h'vy	h'vy			showery.
S. S. Belgic, N. 37° 49′, E. 146° 31′†	29.83	757.7	72	22.2	80	s.			6		10		sw.	rain	rain	mod.	s.	cloudy.
S. S. Gaelic, N. 25° 27′, E. 120° 37′†	29.82	757.4	77	25.0	86	ne.			5		10		ne.			r'gh	ne.	overcast.
S. S. Oceanic, N. 47° 36′, W. 162° 21′*	29.40	746.7	45	7.2	92	w			5		7		nw.			5	w.	cloudy.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y†	30.20	767.1				sw.			1		2		nw.	0	0			clear.
S. S. City of Columbus, New York, N. Y.†	30.17	766.3				sw.			3		0			0	0			clear.
S. S. Seminole, Savannah, Ga†	30.02	762.5	72	22.2	100	ne.			5		2		ne.	0	0			clear.
OREGON IMPROVEMENT COMPANY.																		
S. S. Willametta, N. 39° 31′, W. 124° 00′†	29.87	758.7	51	10.6	86	nnw.			5		2		nnw.	0	0	mod.	nw.	hazy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, San Francisco, Cal†	29.89	759.2	54	12.2	93	calm			0									clear.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal†	29.80	756.9	53	11.7	93	w.			1		10		w.					cloudy.
S. S. Geo. W. Elder, Victoria, B. C.†	30.13	765.3	52	11.1	93	nw.			1		0					sm'h		clear.
S. S. Idaho, N. 54° 11′, W. 130° 24′			49	9.4	93	n.			3		8?		n.			sm'h		clear.?
S. S. Orizaba, N. 33° 42′, W. 118° 14′†	29.92	760.0	62	16.7	?	sw.			2				s.	driz'l	driz'l	sm'h		drizzling.
S. S. State of California, N. 42° 05′, W. 124° 40′†.	30.01	762.2	53	11.7	86	nnw.			4		2		nw.			short		clear.
S. S. Victoria, San Francisco, Cal †	29.72	754.8	51	10.6	86	calm			0		5?					sm'h		overcast?
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. City of Australia, N. 10° 12′, W. 163° 14′	30.00	762.0	79	26.1	86	e.			3		0			0	0			clear.
S. S. City of Pekin, Hong Kong, China†	29.67	753.6	80	26.7	91	ene.			5		8		ne.	0	0	sm'h		cloudy.
S. S. City of Rio de Janeiro, N. 7° 06′, W. 80° 55′†*	30.14	765.5	80	26.7	87	wnw.			3		5		w.	0	0	mod.	sw.	fair.
S. S. City of Sydney, Sydney N. S. W.†	29.65	753.1	56	13.3	69	sw.			4		5		sw.	0	0	sm'h		fair.
S. S. City of Tokio, N. 41° 50′, W. 158° 58′†	29.88	758.9	56	13.3	75	wsw.			3		8		s.	3 h'r	3 h'r	r'gh	sw.	fair.
S. S. Clyde, N. 14° 48′, W. 92° 30′†	29.89	759.2	84	28.9	79	n.			1		2		ne.	0	0	mod.	sw.	clear.
S. S. Colima, N. 31° 18′, W. 117° 23′†	29.90	759.4	57	13.9	81	nw.			5		10		wnw.	0	0	r'gh	wnw.	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
PACIFIC MAIL STEAMSHIP COMPANY.—CONTINUED.																		
S. S. Colon, Aspinwall, Panama†	29.89	759.2	78	25.6		sse.			2		10		se.	1 h'r	1 h'r	sm'h		overcast.
S. S. Granada, N. 16° 50′, W. 100° 00′†	29.85	758.2	82	27.8	87	ne.			1		2		ne.	0	0	light	s.	clear.
S. S. South Carolina, Panama, Panama†	29.99	761.7	82	27.8	79	nne.			2		5		var.	2 h'r	2 h'r	sm'h		fair.
S. S. Zelandia, Sydney, N. S. W.	29.77	756.1	61	16.1	82	w.			6		5		w.			sm'h		fair.
QUEBEC STEAMSHIP COMPANY.																		
S. S. Muriel, N. 37° 15′, W. 71° 05′	29.85	758.2	63	17.2		n.			5		0			0	0	r'gh	nne.	fair.
S. S. Bermuda, Barbadoes, W. I†	30.03	762.7	82	27.8		ne.			3		6		ne.	rain	rain	g'tl	ne.	cloudy.
RED STAR LINE.																		
S. S. Rhynland, N. 40° 20′, W. 52° 45′	30.11	764.8	69	20.6	85	sse.			1		9		sse.	0	0	light	sse.	cloudy.
S. S. Switzerland, N. 45° 28′ W. 35° 39′†	30.34	770.6				calm			0		5		sw.	0	0	sm'h		fair.
S. S. Vaderland, N. 40° 59′, W. 54° 10′	29.91	759.7	70	21.1	90	nnw.			3		10			0	0	sm'h		overcast.
ROTTERDAM LINE.																		
S. S. W. A. Scholten, N. 44° 33′ W. 34° 59′	30.19	766.8	62.8	17.1	90	calm			0		7		se.	0	0			
STATE LINE.																		
S. S. State of Florida, N. 50° 30′, W. 26° 36′	29.99	761.7	57	13.9		wnw.			4		10		w.	2 h'r	2 h'r	mod.	w.	cloudy.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 40° 54′ W. 60° 49′†	30.30	769.6	65.8	18.8	88	nne.			2		6?		nne.	0	0	long	nne.	covered.?
WARREN LINE.																		
S. S. Iowa, N. 48° 18′, W. 27° 57′*†	30.40	772.1	56	13.3		wsw.			4		7		wsw.	0	0	sl't	w.	fair.
WHITE STAR LINE.																		
S. S. Britannic, N. 43° 16′, W. 45° 29′†	30.17	766.3	65	18.3	?	ssw.			4		5		sw.	0	0	mod.	sw.	d. clouds.
S. S. Celtic, Liverpool, England†	29.74	755.4	64	17.8	68	w.			6		10		w.	16 h'r	16 h'r			cloudy.
S. S. Germanic, N. 42° 30′, W. 46° 45′†	30.21	767.3	66	18.9		ssw.			3		10		wsw.			sm'h		d. clouds
WILSON LINE.																		
S. S. Romano, N. 42° 21′, W. 55° 49′	30.00	762.0	58	14.4		ne.					8					sm'h		dull.
MISCELLANEOUS.																		
Schr. Addie Fuller, Hampton Roads, Va†	30.28	769.1	62	16.7	78	s.			1	4 ck	0	n.		0	0			fair.
Schr. Ajax, N. 28° 46′, W. 90° 00′†	30.06	763.5				e.			1		1		e.	0	0	sm'h	e.	clear.
Bk. Alpha, N. 25° 10′ W. 74° 00′†	29.96	761.0	80	26.7		wnw.			3		8		nw.	1 h'r	1 h'r	sm'h		squally.
Schr. Annie Lewis, Mobile, Ala†	30.19	766.8	78	25.6		ene.			1		0			0	0			clear.
Bk. Anna Thorman, S. 15° 36′, W. 35° 21′	30.26	768.6	78.6	25.9	75	ese.			6	3 cs		ese.		0	0	high	se.	fair.
S. S. Antonio Lopez, Cadiz, Spain	30.05	763.3	76	24.4	56	ese.			7	3 cs				0	0			fair.
Schr. Asa Eldridge, Sand Kay Light, Fla†	29.99	761.7				e.			3		5		e.	0	0	sm'h		fair.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.37	771.4	77	25.0		nw.			2		1		ne.	0	0			clear.
Bk. Bergenseren, N. 38° 48′ W. 57° 10′†	29.95	760.7	72	22.2		ese.			2				se.	0	0	2	se.	overcast
Schr. C. R. Flint, Off Tampico Bar, Mexico†	30.05	763.3	83	28.3		se.			1		2		e.	0	0	sm'h	e.	clear.
Schr. Edith R. Seward, N. 34° 14′, W. 77° 57′*†	30.19	766.8	72	22.2		ne.			1		1		ne.	0	0	sm'h		clear.
S. E. J. Spicer, N. 45° 31′, W. 33° 25′†	30.37	771.4				se.			3		5		s.	0	0	sm'h		
Bk. Essex, N. 4° 36, W. 28° 35′*†	29.97	761.2	81	27.2		se.			4		5?		sse.	3 h'r	3 h'r	long	se.	cloudy.†
S. Exporter, S 36° 40′, E. 70° 00′*†	30.00	762.0				n. to nw			6		6		n.	0	0		n.	cloudy.
Bk. Freya, N. 43° 05′, W. 34° 47′			61	16.1		ene.			3		0			0	0	sm'h		fine.
S. Grecian, N. 21° 21′, E. 113° 37′*†	29.58	751.3	81	27.2		ne.			6		10		ne.	mist	mist	sm'h	ne.	rainy.
Bk Hattie G. McFarland, Sydney, Cape Breron*†	30.05	763.3	53	11.7		s.			3		5?		w.	0	0			clear ?
S. Hedwig, N. 41° 56′, W. 45° 38′	30.17	766.3	67.1	19.5	97	sse.			5		8		ssw.	0	0	short	s.	fine.
Bk. Horace Scudder, N. 33° 45′ W. 78° 10′.†	30.13	765.3	70	21.1		ne.			1		2		e.	0	0	short	e.	clear.
S. Ismir, S. 26° 00′ W 37° 00′†	30.39	771.9				e.			3		6		e.			swell	ese	dull.
Schr. James Slater, N. 4° 52′, W, 46° 29′*†	30.25	768.3	83	28.3		se.			3		2		se.	2 h'r	2 h'r	short	se.	rainy.
Schr. Jennie N. Huddle, N. 41° 40′, W. 69° 57′†	30.30	769.6	61	16.1	94	wsw.			1					0	0	long	e.	hazy.
Schr. John L. Thomas, Little Corn, Id., C. A.*†	29.98	761.5				nne.			3		8		se.	0	0			threatening.
Bkt. Josephine, N. 36° 37′, W. 75° 15′†	30.34	770.6	68	20.0	74	ne.			3		0			0	0	long	ne.	clear.
Light House Tender, Laurel, Key West, Florida†	30.06	763.5	84	28.9		ne.			2		4		n.	1 h'r	1 h'r			fair.
S. Minnie N. Gerow, N. 41° 48′, W. 62° 26′*†	30.10	764.5				ene.			3		0					sm'h	ene.	fine.
S. M. P. Grace, N. 24° 09′, W. 41° 34′*	30.15	765.8	74	23.3		sse.			2				sse.	0	0	sm'h	e.	fine.
S. S. Nebo, St. John's N. S*†	30.51	774.9				s.			4		0			0	0			misty.
S. Paramita, S. 55° 58′, W. 66° 35′†	29.24	742.7	42	5.6		sw.			4		4?		ne.	0	0	long	ne.	cloudy.?
Bk. Peppina, N. 46° 45′ W. 4° 00′†	30.21	767.3	59	15.0	76	wnw.			4		10			0	0		nw.	cloudy.
Bk. Princessen, N. 54° 50′ E. 10° 49′†	29.64	752.9	54	12.2		w.			6		2			6 h'r	6 h'r	sm'h		clearing.
Bk. Rosebud, S. 22° 50′, W. 31° 05*†	30.30	769.6	73	22.8	81	e.			4–6		0			0	0	h'vy	se.	very fine.
S. Salisbury, S. 34° 04′, E. 91° 02′*	30.11	764.8	57.4	14.1	87	ssw.			5–6		8			0	0	long	ssw.	cloudy.
S. S. Sunbeam, Hull roads, Eng	29.62	752.3	54.1	12.3	93	wnw.			6		10		wnw.					drizzling.
Bg. Teneriffe, N. 24° 40′, W. 71° 30′	30.01	762.2				sw.			1		2		w.	0	0	mod		fine.
Bk. Truro, Havre, France*†	29.95	760.7				wnw.			6		10		wnw.	4 h'r	4 h'r			cloudy.
U. S. F. C. S. S. FishHawk, Havre de Grace, Md†	30.39	771.9	72	22.2	85	sw.			2		5		wnw.	0	0			fair.
Yacht Vega, N. 28° 04′, W. 68° 14′*†	30.18	766.6	76	24.4		nnw.			1		1		nw.	10 minutes			nnw.	fair.
S. S. Victoria J. Peed, Salamanca Id, U. S. C.						e.			2		7							
Bk. Vincenzo Accame, N. 38° —′ W. 30° 30′†	30.47	774.0	69.8	21.0		calm			0									
Schr. Viola Reppard, Brunswick, Ga†	30.02	762.5	79	26.1		ese.			2		2		ese.	0	0			clear.
Bk. Warden Law, N. 42° 31′, W. 42° 08′*	30.18	766.6				ssw.			4		8		sw.	2 h'r	2 h'r	sm'h	ssw.	fair.
Bk. Wm. Wilcox, N. 3° 15′, W. 27° 10′*†	30.20	767.1	78	25.6		sse.			3		5		se.	2 h'r	2 h'r	sm'h		fair.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 15, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.05	763.3	77.4	25.2	66	s.			3		3			inap.	inap.	pretty fair	Moirond.
Algiers			30.16	766.0	70.9	21.6	79	nne.			3		1			0	0	very fair	Nicolas.
La Galle			30.21	767.2	71.2	21.8	67	ene.			6		2			inap.	inap.	fair	Foufrède.
Tunis			30.19	766.9															Jacques.
Saida			30.17	766.3	77.7	25.4	73	se.			1		0			0	0	clear	Perès.
Tebessa			30.25	768.3	87.1	30.6	21	n.			2		1			0	0	very fair	Derché.
Geriville					86.7	30.4	26	ne.			4		0			0	0	clear	Louchamp.
Laghouat			30.22	767.7	92.8	33.8	34	e.			2		0			0	0	clear	Abraham.
Biskra			30.22	767.6	88.9	31.6	34	se.			1		1			0	0	very fair	Malau.
Australian.																			
Melbourne, Victoria	29.49	749.0	29.58	751.3	50.2	10.1	67	wnw.	23	10.3			4			0.02	0.5	showery	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.34	745.2	29.87	758.6	71.2	21.8	42	sw.			5		2			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	28.91	734.3	29.66	753.4	58.3	14.6	63	wsw.	16.1	7.2			10			0.358	9.1		Dr. Wierzbiski.
Eperies	28.85	732.7	29.69	754.2	66.2	19.0	57	s.			3	cs	6 s		n.	0	0		Julius Mikolik.
Gratz	28.63	727.2	29.84	758.0	64.4	18.0	83	s.			2		6			0	0		Andreas Rosplnl.
Hermannstadt	28.48	723.4	29.88	758.9	62.4	16.9	47	nw.			4		3			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.52	724.5	29.84	757.9	59.4	15.2	57	nw.			4		8			0.248	6.3	gloomy	The Staff.
Lemberg	28.74	729.9	29.70	754.3	60.6	15.9	54	sw.			3		10			0.228	5.8		Dr. T. Stanecki.
Pola	29.86	758.4	29.97	761.2	72.3	22.4	55	sse.			3		3			0	0		I. R. Hydrographic Office.
Szathmar	29.38	746.3	29.84	757.8	61.3	16.3	63	sw.			4		9			0.091	2.3		Joseph Midlinszky, S. J.
Szegedin	29.62	752.3	29.89	759.2	66.2	19.0	51	s.			2		5			0	0		Karl Stancel.
Trieste	29.87	758.6	29.97	761.2	77.0	25.0	42	sw.			1		3			0	0		Royal Academy.
Vienna	29.13	739.9	29.82	757.5	68.0	20.0	38	w.			5		2			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.76	755.9	29.86	758.4	50.5	10.3	53	nw.	27	12.1			6			blank	blank	squally	W. Boswell
Armagh, Observatory	29.84	757.9	30.08	764.0	55.9	13.3	70	nnw.	8	3.6			6					d. clouds	S. Gall.
Bidston, Liverpool Obs'y			29.96	761.0	56.0	13.3	65	wnw.	36	16.1			4					d. clouds	John Hartnup.
Bolton, Sharples	29.37	746.0	29.91	759.7	56.5	13.6	88	nnw.	18	8.0			6					d. clouds	Thomas Mackereth. [A.S.
Bradford, Yorkshire	29.49	749.0	29.88	758.9	57.0	13.9	54	nw.			5		10			0.02	0.5	overcast	J. McLandsborough, F. R
Bridgetown, Barbadoes					84.0	28.9	79	ne.										d. clouds	Corpl. J. Surgenor, A. H.C.
Cardington																			John McLaren.
Chatham, School M. E.	29.80	756.9	29.93	760.2	55.1	12.8	68	w.			1		10			blank	blank	gloomy	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.92	760.0	30.15	765.8	58.2	14.6	60	wnw.			4		6					d. clouds	The Staff.
Fort Napier, Natal	27.85	707.4	30.06	763.5	79.0	26.1	13	calm			0		0					blue sky	Pvt. Lane, A. H.C.
Free Town, Sierra Leone	29.64	752.8	29.87	758.7	88.0	31.1	75	nw.			2		4					thunder	Sergt. John Robinson.
Gibraltar, Mediterranean	30.06	763.5	30.12	765.0	76.5	24.7	76	e.			3		3					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.73	755.1	29.93	760.2	57.4	14.1	41	nw			3		7 k					d clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.76	755.9	29.93	760.2	56.2	13.4	66	nw.			4		10					overcast	The Staff.
Guernsey	29.83	757.7	30.13	765.3	59.0	15.0	70	nw.			2		6					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.92	760.0	29.96	761.0	56.1	13.4	59	wnw.	16	7.2			9					threatening	The Staff.
Leicester, Museum	29.66	753.4	29.92	760.0	57.1	13.9	69	nw.			1		3					d. clouds	J. O. Smith.
Malta, Mediterranean	30.05	763.3	30.12	765.0	75.8	24.3	53	se.					4					d. clouds	I. H. Whysall.
Nassau, Bahamas	30.08	764.0	30.12	765.0	79.2	26.2	67	ne.			1		5					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.42	747.3	29.94	760.5	56.5	13.6	62	nw.			6		6					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.73	755.1	29.95	760.7	58.9	14.9	55	nw.			6		8					showery	The Staff.
Plymouth	30.02	762.5	30.09	764.3	64.0	17.8	59	nnw.			3		4					d. clouds	John Merrifield.
Sandwick Manse, Orkneys			29.84	757.9	44.9	7.2	84	nw.	30	13.4			8					showery	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.82	757.4	29.90	759.4	60.0	15.6	76	s.			2		10					gloomy	W. H. Lyne.
Sheffield	29.66	753.4	29.94	760.5	55.3	12.9	80	nw.			2		10			0.21	5.3	overcast	W. F. Cooper.
Siloth Rectory	29.88	758.9	29.91	759.7	62.6	17.0	54	nw.			3		3			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.93	760.2	56.5	13.6	60	nw.	17	7.6			9					d. clouds	J. New.
Stratfield Turgiss	29.77	756.1	29.99	761.7	54.4	12.4	73	nw.			3		8					showery	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	30.13	765.3	30.15	765.8	63	17.2	57	nw.			6		5					d. clouds	W. Newcombe.
Valencia, Observatory	30.19	766.8	30.21	767.3	56.3	13.5	73	nw.	19	8.5			6					d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.89	759.2	29.93	760.2	60	15.6	61	s.	2	0.9		1 c	3 s			0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	29.76	755.9	29.82	757.4	62	16.7	67	s.	10	4.5		5 c	0	s.		0	0	fair	G. A. Blair.
Father Point, Quebec*	29.61	752.1	29.63	752.6	58	14.4	86	sw.	10	4.5		2 k	sk.	w.		0	0	smoky	J. McWilliams.
Halifax, N. S*	29.89	759.2	30.01	762.2	61	16.1	58	sw.	4	1.8		8 c	0			0	0	cloudy	A. Allison.
Kingston, Ontario*	29.30	744.2	29.62	752.3	63	17.2	87	sw.	13	5.8			10 ks		sw.	0.33	8.4	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.43	747.5	29.63	752.6	65	18.3	84	s.	12	5.4			10 n			0.03	0.8	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	28.87	733.3	29.53	750.0	65	18.3	93	sw.	5	2.2		2 k	5 ks	sw.	sw.	0.10	2.5	fair	Rev. R. Mosley.
Port Dover, Ontario	28.98	736.1	29.64	752.8	65	18.3	94	sw.	12	5.4		4 ck	0	w.		0.48	12.2	fair	H. Morgan.
Port Stanley, Ontario	29.05	737.9	29.67	753.6	60	15.6	93	w.	8	3.6			10 ks		sw.	0.47	11.9	cloudy	M. Payne.
Quebec, Quebec*	29.39	746.5	29.70	754.4	61	16.1	100	calm			0		10 n			0.05	1.3	heavy rain	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.07	738.4	29.50	749.3	64	17.8	90	e.	2	0.9			10 s		s.	0.06	1.5	light rain	W. H. McIntyre.
Saugeen, Ontario*	28.85	732.8	29.53	750.0	62	16.7	96	sw.	13	5.8			10 ks			0.06	1.5	light rain	
St. Andrews, N. B	29.84	757.9	29.89	759.2	55	12.8	64	sw.	3	1.3		0	hz.			0	0	clear	
Sydney, C. B*	29.92	760.0	29.98	761.5	61	16.1	54	sw.	24	10.7		2 c	0			0	0	clear	T. C. Hill, C. E
Toronto, Ontario*	29.24	742.7	29.61	752.1	64	17.8	93	sw.	5	2.2			10 ks		sw.	0.19	4.8	cloudy	Magnetic Observatory.
Yarmouth, N. S*	29.92	760.0	29.99	761.7	57	13.9	67	s.	6	2.7		hz.	0			0	0	hazy	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.24	717.3	29.66	753.4	66.0	18.9	92	w.					10 kn		wnw.	0.172	4.4	cloudy	Wm. Wylie.
St. Johns, Newfoundland	29.997	761.7?	30.237	767.8?	70?	21.1?	70	w.	4	1.8		0	0			0	0		John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.02	762.5	30.05	763.3	86.0	30.0	34	nw.	8.0	3.6		0	0			0	0	light haze	John Duthie.
Cape Town, C. G. H. Obs'y.	30.09	764.3	30.13	765.3	59.0	15.0	86	nw.	15	6.7		10	10			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
CHINESE (*Sub-series*).																			
Hankow	29.53	750.0	29.80	756.9	74.0	23.3	89	n.			2		8			0	0	covered	N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.59	751.6	29.61	752.2	73.0	22.8	92	se.	11.9	6.3			6			0	0	very cloudy	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.25	743.0	29.30	744.2	58.1	14.5	63	sw.	16.8	7.5			9						Oversergent Fischer.
Fanöe	29.30	744.1	29.32	744.6	56.3	13.5	81	nw.			6		7						Overloerer Lauridsen.
Godthaab, Greenland	29.66	753.4	29.71	754.5	45.7	7.6	70	calm			0		1			0	0		S. Kleinschmidt.
Stykkisholm, Iceland	29.92	760.0	29.97	761.1	42.6	5.9	83	w.			2		5						A. O. Thorlacius.
Thorshavn	29.93	760.3	29.97	761.2	45.7	7.6	58	n.	13.	6.			4						Overloerer Bergh.
Vestervig	29.21	742.0	29.30	744.3	54.3	12.4	79	nw.			6		9						Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.52	749.7	30.15	765.9	71.6	22	72	calm			0	2 c	0			0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.55	750.6	30.10	764.6	59.0	15	68	nw.			2		kn	se.	se.	0	0		M. Nicot, Director.
Arras, Engineer School	29.85	758.3	30.11	764.8	56.8	13.8	62	nw.			6		kn		nw.	0.079	2.0		M. Fénéon, Command't.
Avignon, Normal School	30.02	762.4	30.10	764.4	78.8	26	47	nw.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.49	749.1	30.04	763.1	60.8	16.0	54	wsw.			2		8		w.	0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.76	755.9	30.02	762.6	60.1	15.6	55	wnw.			3		10		nw.	0	0	covered	M. Frère Eugène Marié.
Besançon, Normal School	29.16	740.7	30.12	765.0	61.2	16.2	77	s.			2	c	0	ne.		0	0		M. Gobin, Director.
Bordeaux, Observatory	29.90	759.4	30.16	766.0	66.4	19.1	58	wnw.			1		5			0	0	cloudy	M. Rayet, Director.
Bourges, Normal School	29.57	751.1	30.11	764.8	63.5	17.5	52	wnw.			1		k		wnw.	0	0		M. Postel, Director.
Brest, Naval Observatory	29.95	760.7	30.19	766.9	61.2	16.2	55	n.			2		6		n.	0.008	0.2		M. de Kermaree, Dir.
Caen, Normal School	29.97	761.2	30.04	763.1	61.9	16.6	63	nnw.			2		8		nnw.	0.04	1.	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.66	753.4	29.98	761.6	52.3	11.3	61	w.			4		5		nw.	0	0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.43	747.5	29.94	760.5	55.8	13.2	62	sw.			3		5			0	0	½ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.76	730.4	30.08	763.9	67.6	19.8	49	e.			1		5			0	0	½ covered	M. Alluard, Director.
Cluny, Normal School	29.28	743.8	30.19	766.7	60.4	15.8	60	sw.			1		2	sw.		0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.14	740.1	30.00	761.9	59.7	15.4	46	wnw.			4		kn	wnw.	wnw.	0.083	2.1		Dr. Coulet, Director.
Gap, Normal School	27.55	699.8	30.00	762.1	73.4	23	25	s.			1		1 c n		w.	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.95	735.2	30.02	762.6	77.0	25.0	17	nw.			3		1		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.32	744.7	30.07	763.8	66.2	19	64	sse.			1	ck	0			0	0		M. Ablard, Director.
Guéret, Normal School	28.61	726.8	30.18	766.6	57.2	14	67	sw.			2		10		sw.	0	0	covered	M. Rivoire, Director.
Lamballe, Normal School	29.87	758.8	30.15	765.8	63.0	17.2	60	nnw.			2		1		nnw.	0	0	clear	M. Ollitrault, Director.
Lescar, Normal School	29.56	750.8	30.11	764.7	77.0	25	47	s.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.10	764.4	30.20	767.0	67.6	19.8	41	w.			1		8		nw.	0	0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.07	738.3	30.11	764.7	66.7	19.3	58	e.			1	o	2 n		wnw.	0	0	slightly cl'dy	M. André, Director.
Mans, Normal School	29.81	757.1	30.11	764.9	61.2	16.2	52	nw.			3		5		nw.	0.016	0.4	cloudy	M. Piboen, Director.
Marseille, Observatory	29.78	756.5	30.05	763.3	68.7	20.4	45	w.			3		2			0	0		M. Stephan, Director.
Montlouis	24.98	634.5	29.82	757.5	64.0	17.8	44	se.	15.0	6.7			0			0.063	1.6		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.92	760.0	30.05	763.2	83.1	28.4	31	w.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.22	742.2	29.99	761.8	59.4	15.2	55	ssw.			2		ku		wsw.	0.205	5.2		M. Hasse, Director
Nantes, Observatory	30.02	762.6	30.19	766.7	66.9	19.4	51	wnw.			0–2	c	8 k	wnw.	nw.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.98	761.6	30.09	764.3	80.1	26.7	36	se.	13.0	5.8			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.45	544.8			48.0	8.9		sw.			1		2		sw.	0	0	slightly cl'dy	Gen'l de Nansouty, Dir.
Privas, Normal School	29.03	737.4	30.09	764.2	69.8	21	43	nw.			1		0			0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.25	641.4			45.0	7.2	93	w.			3		8			0.055	1.4	¾ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	30.16	766.1	30.19	766.9	69.8	21.0	100	w.			1		8		n.	0	0	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.95	760.6	30.16	766.0	66.2	19	68	w.			1		8	w.	nw.	0	0	very cloudy	M. Mouliot, Director.
Rodez, Normal School	28.10	713.7	30.21	767.4	65.1	18.4	57	sw.			1	c	0	se.		0	0		M. Seger, Director.
Rouen, Normal School	29.99	761.7	30.04	762.9	59.0	15	58	wsw.			3		8	sw.		0.020	0.5	very cloudy	M. Brotier.
Saint Maur, Observatory	29.87	758.8	30.04	763.0	62.8	17.1	46	w.			3		10		wnw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.46	748.3	30.19	766.8	66.2	19.0	69	nw.			1		0			0	0	clear	M. Baillaud, Director.
Tours	29.98	761.4	30.15	765.9	67.3	19.6	53	sw.			1		5	sw.	sw.	0	0	cloudy	M. de Tastes.
Versailles, Observatory	29.55	750.6	30.04	763.1	61.5	16.4	46	n.			6					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.75	755.7	30.04	763.1	60.3	15.7	53	w.			3		9		wnw.	0	0		M. Marié Davy, Director
GERMAN.																			
Bamberg	28.97	735.8	29.82	757.3	55.4	13	84	w.			5	o	6 k		w.	0.189	4.8	raining	Prof. Dr. Hoh.
Berlin	29.44	747.7	29.61	752.1	57.9	14.4	53	w.			3		10			0.295	7.5		Prof. Dr. Arndt.
Breslau	29.13	740.0	29.66	753.3	59.0	15.0	54	w.			5		5			0.181	4.6		Royal University Obs'y.
Carlsruhe	29.52	749.8	29.96	760.9	58.6	14.8	72	sw.			10		10	sw.		0.047	1.2		Albert Senz.
Cassel	28.97	735.8	29.68	753.9	55.2	12.9	42	w.			8		8	w.		0.161	4.1		Dr. H. Möhl.
Frankfort-on-the-Main	29.43	747.5	29.79	756.6	63.9	17.7	54	w.			4		7			0.154	3.9		Physical Society.
Friedrichshafen	28.55	725.2	29.97	761.1	59.9	15.5	59	ssw.			5		8	wsw.		0.091	2.3		Wilhelm, Chief Tel.
Hamburg	29.30	744.3	29.40	746.7	53.8	12.1	91	wsw.			7		10	w.		0.437	11.1	squally	E. Preller.
Kiel	29.31	744.4	29.32	744.8	55.8	13.2	75	wsw.			4		7			0.252	6.4		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.21	742.0	29.63	752.5	56.8	13.8	00	wsw.			6		8	wsw.		0.185	4.7	stormy	H. Leppig, Asst.
Magdeburg	29.36	745.8	29.55	750.5	58.1	14.5	60	w.			7		9 ks		w.	0.217	5.5		Dr. Assmann.
Memel	29.47	748.4	29.51	749.5	59.7	15.4	56	ssw.			4	o	6 k						Issermann.
Munich	28.09	713.5	29.95	760.7	59.7	15.4	47	nw.			6		5	w.		0.024	0.6		Central Station.
Neufahrwasser	29.44	747.8	29.46	748.2	50.2	10.1	87	wnw.			2		10			0.311	7.9	raining	A. Lothes.
Neustadt, Palatinate	29.32	744.6	29.84	757.9	62.6	17.0	45	w.			5		6	w.		0.138	3.5		Dicknether.
Stuttgart	28.96	735.5	29.84	757.9	59.9	15.5	63	w.			3		4	w.		0.024	0.6		Prof. Dr. Schoder.
Wustrow	29.37	745.9	29.39	746.5	54.1	12.3	96	sw.			6		10 s			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.57	751.1	29.95	760.7	79.2	26.2		ne.			3.0		0			0	0	clear	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.43	747.4	29.48	748.7	89.5	31.9	81	wsw.	44.0	19.7			0			0	0	misty	
Deesa	28.95	735.2	29.40	746.7	98.6	37.0	52	sw.	22.2	9.9			6	sw.		0	0	d. clouds	
Bombay	29.64	752.7	29.67	753.7	83.7	28.7	89	wsw.	17.0	7.6			10		sw.	0.09	2.3	overcast	
Poona, Yarrowda	27.82	706.6	29.68	753.8	75.6	24.2	81	wsw.	23.0	10.3			10		wsw.	0	0	overcast	
Trichinopoly	29.46	748.3	29.74	755.3	87.3	30.7	47	nw.	4.0	1.8			10			0	0	overcast	
Bellary	28.20	716.1	29.64	752.7	87.0	30.6	45	w.	17.0	7.6			5			0	0	d. clouds	
Belgaum	27.20	690.9	29.75	755.7	70.8	21.6	93	wsw.	15.0	6.7			8	sw.	sw.	0.13	3.3	showery	
Lahore	28.52	724.3	29.21	742.0	102.3	39.1	30	ne.	1.8	0.8			8			0	0	misty	
Roorkee	28.44	722.3	29.29	743.9	97.9	36.6	47	w.	2.6	1.2			4			0	0		
Agra	28.80	731.4	29.34	745.2	91.2	32.9	00	sw.	4.4	2.0			4		sw.	0	0	d. clouds	
Nagpur	28.43	722.0	29.46	748.2	78.7	25.9	78	wnw.	9.0	4.0			10		w.	1.08	27.4	overcast	
Jubbulpore	28.05	712.4	29.39	746.4	78.6	25.9	92	nw.	5.7	2.6			10		nw.	1.69	42.9	overcast	
Lucknow	29.00	736.7	29.37	746.1	82.4	28.0	87	calm	4.2	1.9			9	sw.		0.58	14.7	d. clouds	
Allahabad	28.99	736.3	29.30	744.1	78.6	25.9	96	ne.	6.9	3.1			10			3.72	94.5	raining	
Patna	29.17	741.0	29.35	745.6	81.0	27.2	96	e.	13.1	5.8			10	e.	e.	1.40	35.6	drizzling	
Hazaribagh	27.35	694.7	29.33	744.9	77.8	25.4	66	s.	12.6	5.6			10			0.28	7.1	drizzling	
Cuttack	29.28	743.8	29.36	745.8	86.6	30.3	69	ssw.	7.5	3.4			9			0	0	d. clouds	
Calcutta, Alipore	29.35	745.4	29.37	746.0	81.5	27.5	93	sse.	7.0	3.1			9		sw.	0.09	2.3	gloomy	
Dhubri	29.32	744.7	29.44	747.6	82.0	27.8	87	e.	10.7	4.8			2	e.		0.51	13.0	d. clouds	
Chittagong	29.43	747.4	29.52	749.7	79.5	26.4	89	se.	8.0	3.6			9			0	0	d. clouds	
Sibsagar	29.18	741.2	29.52	749.7	78.1	25.6	94	sw.	2.7	1.2			10	w.	w.	1.10	27.9	d. clouds	
Jeypore	27.97	710.4	29.38	746.1	84.9	29.4	72	sw.	4.7	2.1			10		sw.	0.03	0.8	overcast	
Zanzibar, Africa	30.08	764.0			83.1	28.4	60	sse.	3.0	1.3			5			0	0	d. clouds	
ITALIAN.																			
Udine	29.55	750.6	29.95	760.8	69.6	20.9	68	nw.	1.8	0.8			9			0.016	0.4		Prof. Giovanni Clodig.
Milan	29.45	748.0	29.95	760.8	73.4	23.0	44	sw.	8.1	3.6			9	wsw.		0	0		Prof. Schiaparelli.
Padua	29.86	758.4	29.97	761.1	72.9	22.7	45	wnw.	3.8	1.7			9	w.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.05	737.9	29.93	760.2	74.1	23.4	47	s.	2.5	1.1			6			0	0		Prof. P. F. Denza.
Genoa	29.83	757.7	30.02	762.5	67.6	19.8	59	se.	14.3	6.4			4	se.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.04	712.3	29.90	759.4	71.6	22.0	47	se.			6		4	w.		0	0		Prof. D. O. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Pesaro	29.87	758.8	29.92	760.0	79.9	26.6	31	sw.	11.2	5.0			5			0	0		Prof. Luigi Guidi.
Florence	29.76	756.0	30.01	762.3	73.4	23.0	40	nw.			4		0			0	0		Prof. Costantino Pitter.
Leghorn	29.89	759.1	29.97	761.2	71.2	21.8	57	wsw.	3.1	1.4			5			0	0		Prof. P. Monte.
Rome	29.93	760.4	30.10	764.6	74.1	23.4	47	wsw.	12.5	5.6			3			0	0		Prof. P. S. Ferrari.
Lecce	29.80	757.0	30.05	763.2	78.4	25.8	25	ene.	10.8	4.7			0			0	0		Prof. C. de Giorgi.
Cosenza	29.19	741.5	30.06	763.4	77.0	25.0	71	sw.	3.8	1.7			0			0	0		Prof. D. Conti.
Cagliari	29.87	758.8	30.06	763.6	80.8	27.1	18	nw.			4		0			0	0		Prof. A. Pacinotti.
Palermo	29.90	759.4	30.15	765.7	70.9	21.6	53	ene.	6.3	2.8			0			0	0		Prof. G. Cincciatore.
Syracuse	30.08	764.1	30.13	765.2	72.7	22.6	54	ese.	6.9	3.1			1	s.		0	0		Prof. Vincenzo Gulliano
Sub-series.																			
Naples, S. R	29.58	751.3	30.09	764.3	72.1	22.3	58	sw.	6.9	2.8			1	sw.		0	0		Prof. T. Brioschi.
Stelvio	22.18	563.3			46.4	8.0	45	sw.			2		10			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.22	564.5			45.1	7.3	62	n.			6		8			0	0	covered	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.77	756.1	29.80	756.9	62.4	16.9	77	sw.	2.6	1.2		0	0			0	0	clear	K. Ogawa.
Hakodate	29.75	755.6	29.76	755.9	60.0	15.6	79	w.	7.2	3.2			3		s.	0	0	clear	
Hiroshima, I. M. Obs'y	29.80	756.9	29.81	757.2	68.6	20.3	76	wsw.	5.2	2.3		4ck;cs	0			0	0	fair	I. Sogawa.
Kanazawa	29.80	756.9	29.90	759.4	63.7	17.6	88	se.	5.8	2.6		1ck;cs	2 s			0	0	fair	S. Endo.
Kioto	29.69	754.1	29.86	758.4	63.7	17.6	85	s.				0	0			0	0	clear	M. Tojima.
Kochi	29.87	758.7	29.89	759.2	68.8	20.4	85	nw.	3.4	1.5		0	9 s		n.	0	0	cloudy	K. Kusunose.
Nagasaki, I. M. Obs'y	29.68	753.9	29.88	758.9	66.1	18.9	85	sw.	1.8	0.8		0	4 s			0.540	13.7	clear	S. Takehayashi.
Nemuro	29.69	754.1	29.76	755.9	56.0	13.3	80	calm	0	0		10	0			0	0	overcast	
Niigata	29.83	757.7	29.86	758.4	62.7	17.1	93	w.	1.5	0.7		0	0			0	0	clear	M. Morita.
Nobiru	29.80	756.9	29.82	757.4	63.1	17.3	77	nw.	10.7	4.8		0	0			0	0	clear	H. Midzushima.
Sapporo					57.0	13.9	90	nw.	3.0	1.3			6			0	0	fair	
Tokei Obs'y, Yeddo	29.80	756.9	29.86	758.4	66.9	19.4	82	s.	8.2	3.7		0	0			0	0	clear	The Staff.
Wakayama	29.82	757.4	29.87	758.7	66.6	19.2	80	e.	0.1	0.04		0	0			0	0	clear	Y. Kuwamuea.
MAURITIUS																			
Mauritius Observatory	30.11	764.8	30.30	769.6	70.3	21.3	53	se.	21.0	9.4		0	3 k;ks		se.	0.02	0.5	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.72	602.4	29.94	760.4	58.1	14.5	88	ne.				4 cp	0			0	0	fair	Prof. Vicente Fernandez.
Leon	24.35	618.5	30.01	762.2	59.4	15.2	87	n.			1	6 c	0	sw.		0	0	fair	Prof. M. Leal.
Mazatlan	29.66	753.3	29.91	759.8	78.5	25.8	80	n.	0.9	0.4		7 ck	0	ne.		inap.	inap.	cloudy	F. Quijano, C. E.
Mexico, Central Obs'y	23.15	588.0	30.17	766.2	56.3	13.5	69	nw.					10 kn		e.	0	0	covered	The Staff.
Morelia	24.22	615.2	30.29	769.4	60.3	15.7	73	ne.			2	1	0			0	0	fine	M. Tena, M. D.
Pabellon, Aguascalientes	23.98	609.2	29.96	760.9	62.1	16.6	85	calm			0					0.050	1.3		M. V. de Leon, M. E.
Puebla, Catholic Institute	23.43	595.2	30.22	767.5	52.3	11.3	88	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
San Luis Potosi	24.20	616.3	30.19	766.7	61.7	16.5	69	e.				5	0	w.		0	0	½ clouded	G. Barroeta, M. D.
Zacatecas	22.61	574.3	30.25	768.4	50.5	10.2	85	e.	8.3	3.7		0	6 s		ne.	0	0	½ clouded	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.85	758.2	29.85	758.2	56.1	13.4		wnw.			6					0	0		
Groningen	29.44	747.7	29.49	749.1	54.1	12.3		nw.			6					0.378	9.6		
Helder	29.66	753.3	29.66	753.3	54.0	12.2		wnw.			6					0.003	1.6		
Hellevoetsluis	29.79	756.7	29.79	756.7	54.1	12.3	81	wnw.			3					0	0		
Utrecht	29.71	754.7	29.76	755.9	53.4	11.9	83	wnw.			5		8			0.244	6.2	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.30	744.2	29.36	745.8	56.1	13.4	62	n.	20	9			7			0.173	4.4	raining	
Brono	29.47	748.5	29.51	749.5	48.9	9.4	69	n.	18	8			1			0.024	0.6		
Christiania	29.20	741.7	29.34	745.3	56.7	13.7	63	ne.	13	6			7			0.051	1.3		
Gjesvær	29.60	751.8	29.62	752.4	57.9	14.4		e.			2		0						
Lodingen	29.45	747.9	29.49	749.1	53.4	11.9	45	e.			4		5			0	0		
PORTUGUESE.																			
Angra, Azores					65.3	18.5	78	nne.	6.3	2.8			3			0	0		Dr. J. A. Sampaio.
Campo Major	29.06	738.0	30.01	762.3	85.1	29.5	30	sw.	5.6	2.5			1			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.14	765.5	30.22	767.7	68.9	20.5	60	sw.	6.3	2.8			10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.75	755.7	30.11	764.7	68.2	20.1	77	sw.	22.4	10.0			2	sw.		0	0		The Staff.
Ponta Delgada, Azores	30.23	767.8	30.30	769.6	72.0	22.2	62	calm	0	0			4			0.071	1.8		
Saint Paul de Loando	29.80	756.8	30.00	761.9	73.4	23.0	91	wnw.	0.7	0.3			0			0	0		
Serra da Estrella	25.42	645.7	30.04	763.1	61.2	16.2	64	e.	4.9	2.2			9			0.020	0.5		
RUSSIAN.																			
Akmolinski	28.55	725.1	29.54	750.4	85.8	29.9	26	wsw.	7	3		0	4 k			0	0		Major K. Lasarew.
Archangel	29.57	751.1	29.59	751.6	61.0	16.1	54	ese.	2	1		0	5 ks			0.197	5.0		Capt. Sselliwerstow.
Astrakhan	29.80	758.5	29.78	756.4	79.7	26.5	51	e.	16	7		0	0			0	0		Capt. Wisganow.
Barnaul	29.13	739.9	29.61	752.1	62.4	16.9	63	calm	0	0			9			0.307	7.8		Meteorological Obs'y.
Dorpat	29.32	744.6	29.56	750.8	49.6	9.8	84	nw.	4	2			10 kn			0.173	4.4	raining	Observatory.
Ekaterinburg	28.81	731.8	29.74	755.3	67.5	19.7	44	nw.	22	10		0	1 k			0	0		Meteorological Obs'y.
Kasan	29.59	751.5	29.84	758.0	74.1	23.4	45	ssw.	4	2			10 k			0	0		Observatory.
Kertch	29.56	750.8	29.58	751.3	67.5	19.7	88	calm	0	0			9 n			0	0		Lagorio & Sastyrex.
Kieff	28.97	735.8	29.58	751.4	63.5	17.5	55	nw.	7	3		c	9 ks			0	0		Observatory.
Lugan	29.35	745.4	29.54	759.3	84.4	29.1	36	sse.	13	6			7			0	0		Meteorological Obs'y
Moscow	29.03	737.3	29.47	748.6	69.1	20.6	64	s.	13	6			9 ks						Meteorological Obs'y.
Nikolaiev	29.59	751.6	29.66	753.4	72.5	22.5	56	wnw.	4	2			10 n			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.40	746.7	29.48	748.9	63.1	17.3	86	se.	16	7			10			0	0		Lieut. Iwanow.
Pekin, China	29.40	746.7	29.51	750.3	86.0	30.0	35	sw.	4	2		0	0			0	0		Physical Observatory
St. Petersburg	29.52	749.8	29.54	750.2	57.6	14.2	59	nnw.	7	3		ck	5 k;n			0	0		Central Physical Obs'y.
Semipalatinsk	28.97	735.8	29.57	751.1	85.6	29.8	30	nw.	9	4		0	4			0	0		Major Lasarew.
Tashkend, Laboratory	28.10	713.8	29.56	750.8	86.4	30.2	42	calm	0	0			6					light clouds	Teich, A. M.
Tiflis	28.36	720.3	29.69	754.0	84.2	29.0	43	se.	2	1		0	1 k			0	0		Physical Observatory
Vladivostock	29.51	749.6			60.4	15.8	84	se.	13	6			3 k						
Warsaw	29.10	739.1	29.51	749.6	57.2	14.0	78	wnw.	18	8			10ks;n					raining	Astronomical Obs'y
Wilna	29.15	740.4	29.56	750.8	60.4	15.8	53	sw.	4	2			7			0.098	2.5	heavy cl'ds.	Berg, Assistant.
SPANISH.																			
Barcelona, Met. Obs'y	29.98	761.5	30.08	764.1	74.7	23.7	55	s.	4.0	1.8			1			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.09	764.2	30.15	765.7	77.0	25.0	51	e.	2.0	0.9		2	0	se.		0	0	almost clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.17	690.0	30.07	763.7	78.8	26.0	55	ne.	3.8	1.7			8			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.85	707.5	29.95	760.8	86.4	30.2	39	s.	11.9	5.3		0	1			0	0	light clouds	The Staff.
Murcia, Met. Obs'y	29.96	760.9	30.08	764.1	66.9	19.4	60	ne.	6.9	3.1		0	3			0	0	almost clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.10	739.2	29.96	761.0	79.2	26.2	49	n.	6.9	3.1			2			0	0	clouds	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	30.00	761.9	30.06	763.6	79.2	26.2	82	nne.	1.8	0.8		2 c;cs	k	wsw.	n.	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.84	758.0	29.90	759.4	84.2	29.0	80	sw.	8.6	3.8		0	6 ck		sw.	0.039	1.0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.04	762.9	30.13	765.4	75.0	23.9	63	s.	19.0	8.5		0	6		s.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.96	761.0	30.05	763.3	83.1	28.4	80	se.	8.5	3.8		4 cs	3 k	se.	se.	0	0	d. clouds	Manuel Maese.
Tuguegarao, Philippine Id's	29.70	755.9	29.89	759.2	81.1	27.3	81	s.	5.5	2.5		0	8 kn		ssw.	inap.	inap.	covered	José L. Yrastorza.
SWEDISH																			
Haparanda	29.45	747.9	29.48	748.9	52.9	11.6	84	se.			2		8			0.109	4.3		
Umea	29.42	747.3	29.47	748.6	59.7	15.4	43	nw.			2		9			0	0		
Hernosand	29.44	747.7	29.49	749.0	51.1	10.6	68	sse.			2		9			0	0		
Stockholm	29.28	743.6	29.45	748.1	59.0	15.0	51	sse.			4		1			0.043	1.1		
Wisby	29.36	745.8	29.42	747.3	62.6	17.0	50	e.			4		5			0	0		
Sub-series.																			
Upsala	29.32	744.6	29.40	746.8	60.8	16.0	63	sse.	7.6	3.4			8		sse.	0.114	2.9		S. G. Fineman.
SWISS.																			
Geneva	28.66	727.9	30.06	763.4	65.3	18.5	51	wsw.			4					0	0		The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
SCOTTISH.																			
Monach Lt			30.04	763.0	52	11.1	93	n.			6	5	3	nw.		0	0		J. Youngclause.
North Unst			29.73	755.1				n.			7	4	7	n.					
TURKISH.																			
Constantinople			29.92	759.9	62.8	17.1	55	n.	10	4.5			10			0.039	1.0		The Observatory.
Valona			30.15	765.7	72.5	22.5		nw.			1		5			0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.72	755.0	82.0	27.8	69	sw.			2	0	0			0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.73	755.1	29.81	757.2	69	20.6	45	s.	12	5.4		6 c	0	w.		0	0	fair	J. O. Barnes.
Alpena, Michigan	28.92	734.6	29.57	751.1	62	16.7	100	w.	12	5.4			10 n		nw.	1.41	35.8	heavy rain	Jas. J. Fitzgerald.
Atlanta, Georgia	28.96	735.6	30.11	764.8	74.0	23.3	76	w.	8	3.6		7 k	0	w.		0	0	fair	H. Hall.
Atlantic City, New Jersey	29.90	759.4	29.91	759.7	63.2	17.3	81	s.	13	5.8		6 ck	0			0	0	fair	Jas. M. Watson.
Augusta, Georgia	29.94	760.5	30.13	765.3	74	23.3	79	calm	0	0		5 c	0			0	0	fair	John Healy.
Baltimore, Maryland	29.86	758.4	29.91	759.7	67	19.4	73	s.	6	2.7		3 c;hz	0	w.		0	0	clear	Robert Seyboth.
Barnegat, New Jersey	29.90	759.4	29.92	760.0	66.3	19.1	69	s.	13	5.8		6 ck	0	nw.		0	0	fair	Chas. F. Merritt.
Behring Island, Behring Sea	29.78	756.4	29.80	756.9	41.3	5.2		s.	17	7.6			10 s			0.06	1.5	light rain	Dr. L. Steineger.
Bismarck, Dakota	28.12	714.2	29.87	758.7	58	14.4	77	calm	0	0		4 c	0	w.		0	0	fair	Cyrus Cramer.
Boise City, Idaho	27.25	692.1	30.03	762.7	49	9.4	71	n.	1	0.4		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.74	755.4	29.90	759.4	60.0	15.6	62	s.	8	3.6			10 s		s.	0	0	cloudy	O. B. Cole.
Brownsville, Texas	29.96	761.0	30.00	762.0	80.0	26.7	82	calm	0	0		0	0			0	0	clear	M. McCarty.
Buffalo, New York	28.93	734.8	29.67	753.6	66.6	19.2	91	sw.	16	7.2			10 ks;s		sw.	0.31	7.9	cloudy	Wm. Finn.
Burlington, Vermont	29.42	747.3	29.71	754.6	66.3	19.1	60	s.	23	10.3		2 k	5 s	sw.	w.	0.05	1.3	fair	G. C. Schaeffer.
Cairo, Illinois	29.62	752.3	30.01	762.2	78.8	26.0	83	sw.	6	2.7		8 ck	0	w.		0	0	cloudy	W. H. Ray.
Campo, California	27.35	694.7	29.83	757.7	48.4	9.1	93	w.	2	0.9			8 s		w.	0	0	cloudy	W. H. Clendenon.
Camp Thomas, Arizona	27.20	690.9	29.83	757.7	60	15.6	27	calm			0	2 cs	0			0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	29.96	761.0	29.98	761.5	68	20.0	70	sw.	16	7.2		5 ck	3 k	sw.	sw.	0	0	cloudy	A. K. Alderson.
Cape May, New Jersey																			W. Bolton.
Cedar Keys, Florida	30.11	764.8	30.13	765.3	78	25.6	69	s.	6	2.7		0	0			0	0	clear	F. W. Mixer.
Champaign, Illinois	29.09	738.9	29.88	758.9	72.3	22.4	76	sw.	10	4.5		4 c	0	sw.		0	0	fair	L. A. Welsh.
Charleston, S. Carolina	30.05	763.3	30.10	764.5	76	24.4	64	w.	8	3.6		3 c	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.17	740.9	30.00	762.0	75.0	23.9	69	w.	2	0.9		0	hz.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.28	743.7	30.10	764.5	79.0	26.1	69	sw.	9	4.0		2 k	0	sw.		0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.16	613.7	29.90	759.4	56.3	13.5	67	w.	6	2.7		5 c	0	w.		0	0	fair	E. McGovern.
Chicago, Illinois	29.11	739.4	29.80	756.9	69.4	20.8	83	w.	9	4.0		0	0			inap.	inap.	clear	J. Mitchell.
Chincoteague, Virginia	29.91	759.7	29.93	760.2	64	17.8	84	s.	11	4.9		0	6 k		w.	0	0	fair	V. P. Temple.
Cincinnati, Ohio	29.30	744.2	29.95	760.7	72.5	22.5	75	sw.	11	4.9			10 k		w.	1.26	32.0	cloudy	R. B. Watkins.
Cleveland, Ohio	29.04	737.6	29.77	756.1	71.6	22.0	76	sw.	19	8.5		4 k	0	w.		0.14	3.6	fair	J. B. Newlin.
Coleman City, Texas	28.13	714.5	29.88	758.9	75	23.9	88	s.	14	6.3		0	3 s		s.	0	0	clear	L. Dorman.
Columbus, Ohio	29.02	737.1	29.86	758.4	67	19.4	84	sw.	13	5.8			10 ks		sw.	0.55	14.0	cloudy	D. Cuthbertson.
Concho, Texas	28.10	713.7	29.97	761.2	75	23.9	90	s.	4	1.8		3 c	4 s	s.	s.	0	0	cloudy	W. W. McConihe.
Davenport, Iowa	29.22	742.2	29.86	758.4	70	21.1	79	w.	8	3.6		4 cs	0	w.		inap.	inap.	fair	R. R. Martin.
Dayton, Washington T'y	28.30	718.8	30.04	763.0	51.7	10.9	78	calm	0	0		4 c	0			0	0	fair	H. Clifford.
Deadwood, Dakota	25.41	645.4	29.84	757.9	51	10.6	86	sw.	2	0.9		4 ck	0	w.		0.46	11.7	fair	G. W. Scott.
Decatur, Texas					80	26.7	42	se.	7	3.1		0	0			0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	29.89	759.2	29.91	759.7	64	17.8	84	se.	19	8.5		5 ck	3 s	w.	sw.	0	0	cloudy	F. C. Pratz.
Denison, Texas	29.22	742.2	30.00	762.0	76.3	24.6	85	s.	6	2.7		0	0			0	0	clear	J. McGlone.
Denver, Colorado	24.85	631.2	29.89	759.2	58.0	14.4	77	n.	4	1.8		0	4 ks		n.	0.03	0.8	fair	F. M. Neal.
Des Moines, Iowa	29.04	737.6	29.92	760.0	66	18.9	84	w.	7	3.1		7 c	0			0	0	fair	F. W. Conrad.
Detroit, Michigan					70.0	21.1	79	sw.	18	8.0		2 k	7 k	sw.	sw.	0.24	6.1	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.31	693.7	29.82	757.4	72	22.2	82	s.	14	6.3		0	0			0	0	clear	E. A. Thomas.
Dubuque, Iowa	29.14	740.1	29.83	757.7	66.8	19.3	66	nw.	9	4.0		3 k	3 s	nw.		0.03	0.8	fair	J. Harvey Smith.
Duluth, Minnesota	29.10	739.1	29.78	756.4	65	18.3	84	nw.	19	8.5		0	3 k		nw.	0.64	16.3	clear	N. B. Conger.
Eagle Pass, Texas	29.24	742.7	30.03	762.7	75.0	23.9	85	se.	6	2.7		0	4 s		se.	0	0	fair	F. Belford.
Eagle Rock, Idaho	25.35	643.9	29.94	760.5	48	8.9	68	s.	2	0.9		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.86	758.4	29.92	760.0	55.5	13.1	66	s.	10	4.5		10 cs	0	sw.		0	0	cloudy	D. C. Murphy.
El Paso, Texas	26.26	667.0	29.85	758.2	71	21.7	48	ne.	5	2.2		2 ck	0	calm		0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.00	736.6	29.72	754.9	70	21.1	84	sw.	7	3.1		5 ck	2 k	w.	sw.	0.10	2.5	fair	Peter Wood.
Escanaba, Michigan	29.00	736.6	29.66	753.4	62	16.7	93	nw.	6	2.7			10 s			0.14	3.6	cloudy	C. Dill.
Fort Apache, Arizona	25.06	636.5	29.81	757.2	42	5.6	55	e.	3	1.3		0	0			0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.09	688.1	29.88	758.9	60	15.6	67	sw.	12	5.4		0	2 s		sw.	0	0	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.37	720.6	29.91	759.7	60	15.6	87	s.	1	0.4		3 ck	3 s	calm	calm	0	0	fair	A. Pritchard.
Fort Benton, Montana	27.13	689.1	29.90	759.4	60	15.6	78	sw.	5	2.2		2 c	0			0	0	clear	G. W. Davis.
Fort Buford, Dakota	27.93	709.4	29.89	759.2	50	10.0	66	s.	4	1.8		0	0			0	0	clear	A. H. Bell.
Fort Custer, Montana	26.82	681.2	29.88	758.9	54	12.2	93	ne.	4	1.8		0	0			0.23	5.8	clear	V. Verge.
Fort Davis, Texas	25.19	639.8	29.80	756.9	69	20.6	63	sw.	3	1.3		0	0			0	0	clear	J. Williams.
Fort Elliott, Texas	27.23	691.6	29.90	759.4	65	18.3	70	se.	1	0.4		0	0			0	0	clear	W. J. Cundall.
Fort Grant, Arizona	25.23	640.8	29.77	756.1	64.4	18.0	28	ne.	5	2.2		1 k	0			0	0	clear	Robert O. Lord.
Fort Keogh, Montana	27.44	697.0	29.87	758.7	53	11.7	86	sw.	1	0.4		0	0			0	0	clear	W. B. Stockman.
Fort Macon, North Carolina	30.03	762.7	30.04	763.0	74	23.3	71	sw.	10	4.5		3 cs	0	calm		0	0	clear	W. W. Thomas.
Fort McKavett, Texas	27.91	708.9	30.11	764.8	72	22.2	90	sw.	7	3.1		3 k	0	w.		0	0	fair	J. E. Thatcher.
Fort Missoula, Montana	26.76	679.7	30.02	762.5	55	12.8	80	ne.	2	0.9		0	0			0	0	clear	J. H. Jones.
Fort St. Michaels, Alaska	29.80	756.7	29.83	757.7	40	4.4	100	sw.	14	6.3			10 s			0	0	cloudy	A. P. Leavitt.
Fort Shaw, Montana	26.35	669.3	29.92	760.0	54	12.2	74	w.	11	4.9		6 cs	0			0	0	fair	A. L. Mathews.
Fort Sill, Indian Territory	28.75	730.2	29.95	760.7	74.3	23.5	93	s.	6	2.7		0	0			0	0	clear	T. Cleary.
Fort Smith, Arkansas	29.56	750.8	30.02	762.5	76.5	24.7	85	e.	2	0.9		0	5 ks		sw.	0	0	fair	J. B. Campbell.
Fort Stevenson, Dakota	28.08	713.2	29.88	758.9	55	12.8	93	n.	2	0.9		0	0			0	0	clear	W. Burrows
Fort Verde, Arizona					52.1	11.2	50	nw.			1	0	2 s		w.	0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.55	623.6	29.93	760.2	46.4	8.0	85	nw.	3	1.3		7 c	0			inap.	inap.	fair	T. M. Ambler.
Fredericksburg, Texas	28.32	719.3	30.00	762.0	74	23.3	87	sw.	5	2.2		8 k	0	sw.		0	0	cloudy	H. S. Miles.
Galveston, Texas	30.00	762.0	30.05	763.3	80	26.7	82	s.	6	2.7		0	5 k		se.	0	0	fair	E. O'O. MacInerney.
Grand Haven, Michigan	29.08	738.6	29.73	755.1	62.0	16.7	84	w.	11	4.9		0	0			0.01	0.3	clear	W. A. Reid.
Hatteras, North Carolina	30.02	762.5	30.04	763.0	72	22.2	76	sw.	14	6.3		7 c	hz.	w.		0	0	fair	R. M. Crawford.
Helena, Montana	25.84	656.3	29.96	761.0	56	13.3	74	w.	4	1.8		5 c	0			0.01	0.3	fair	S. Wheaton.
Henrietta, Texas	29.04	737.6	30.02	762.5	77.3	25.2	69	s.	8	3.6		0	0			0	0	clear	J. W. Byram.
Huron, Dakota	28.56	725.4	29.90	759.4	61.1	16.2	87	w.	1	0.4		0	0			inap.	inap.	clear	S. W. Glenn.
Indianapolis, Indiana	29.10	739.1	29.88	758.9	76	24.4	71	w.	8	3.6		3 c	0	sw.		inap.	inap.	fair	O. Schutze
Indianola, Texas	30.01	762.2	30.04	763.0	77.7	25.4	88	s.	5	2.2		2 cs	1 k	sw.	s.	0	0	clear	I. A. Reed.
Jacksboro, Texas	28.84	732.5	29.96	761.0	77	25.0	82	sw.	8	3.6		0	0			0	0	clear	J. P. Sherry.
Jacksonville, Florida	30.08	764.0	30.12	765.0	78	25.6	74	calm	0	0		0	0			0	0	clear	J. W. Smith.
Keokuk, Iowa	29.23	742.4	29.87	758.7	73.0	22.8	73	w.	4	1.8		4 cs	0	w.		0	0	fair	F. Z. Gosewisch.
Key West, Florida	30.04	763.0	30.06	763.5	80.5	26.9	74	ne.	15	6.7		0	5 k;ks		ne.	0.10	2.5	fair	R. H. Paxton.
Kittyhawk, North Carolina	30.02	762.5	30.04	763.0	70	21.1	76	sw.	15	6.7		2 ck	0			0	0	clear	E. A. Beals.
Knoxville, Tennessee	29.06	738.1	30.06	763.5	72.5	22.5	83	sw.	3	1.3		4 k	2 ks	w.		0	0	fair	J. A. Cody.
La Crosse, Wisconsin	29.02	737.1	29.78	756.4	70	21.1	62	w.	5	2.2		0	0			0.18	4.6	clear	S. C. Emery.
La Mesilla, New Mexico	26.12	663.4	29.84	757.9	65.0	18.3	42	sw.	2	0.9		3 ck	1 s	w.		0	0	fair	N. D. Lane.
Leavenworth, Kansas	29.07	738.4	29.94	760.5	72	22.2	71	sw.	1	0.4			10 s		w.	0	0	cloudy	A. W. Browne.
Lewiston, Idaho	29.18	741.2	30.00	762.0	58	14.4	70	e.	1	0.4		3 c	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.72	754.9	30.03	762.7	78	25.6	88	calm	0	0		0	0			0	0	clear	W. U. Simmons.
Los Angeles, California	29.59	751.6	29.98	761.5	58.2	14.6	80	sw.	3	1.3		6 c	0	s.		inap.	inap.	fair	E. F. Kubel.
Louisville, Kentucky	29.36	745.7	29.92	760.0	70	21.1	76	sw.	9	4.0			8 s			0.79	20.1	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.25	742.9	29.92	760.0	73.5	23.1	71	sw.	1	0.4		6c;cs;ck	2 s			0.97	24.6	fair	W. R. Bushby.
Madison, Wisconsin	28.79	731.3	29.78	756.4	64	17.8	93	w.	10	4.5		0	0			0.10	2.5	clear	C. A. Shaw.
Marquette, Michigan	28.97	735.8	29.69	754.1	55	12.8	80	calm	0	0			fg.			inap.	inap.	dense fog	J. Gilligan.
Memphis, Tennessee	29.70	754.4	30.03	762.7	80	26.7	79	sw.	7	3.1		0	0			0	0	clear	D. T. Flannery.

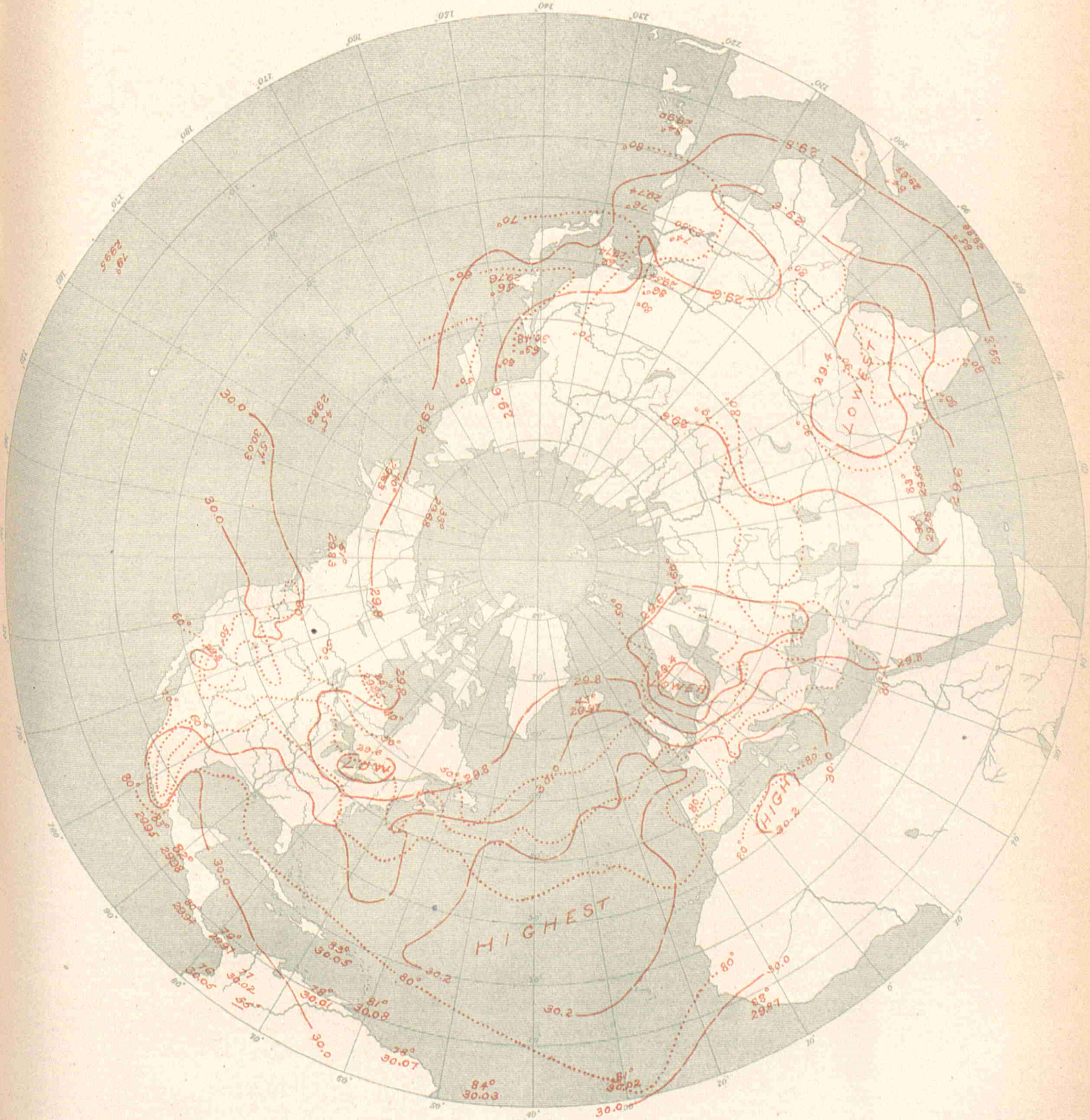
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	29.00	736.6	29.74	755.4	66	18.9	84	w.	14	6.3		hz.	0			0.08	2.0	clear	W. Line.
Mobile, Alabama	30.08	764.0	30.12	765.0	75.5	24.2	90	n.	5	2.2		1 c	1 ks	s.		inap.	inap.	clear	J. D. Paxton.
Montgomery, Alabama	29.89	759.2	30.12	765.0	77	25.0	79	sw.	4	1.8		0	0			0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	28.87	733.3	29.84	757.9	61	16.1	72	calm	0	0		4 c	0	w.		0.99	25.1	fair	H. Bessant.
Morgantown, W. Virginia	28.89	733.8	29.89	759.2	72.5	22.5	82	sw.	8	3.6		0	8 s			0.02	0.5	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.72	602.5	29.84	757.9	50.5	10.3	96	w.	43	19.2			fg.		w.	0.26	6.6	dense fog	J. G. Linsley.
Nashville, Tennessee	29.52	749.8	30.04	763.0	75.0	23.9	82	calm	0	0		3 cs	7 ks	w.	w.	inap.	inap.	cloudy	L. A. Jesunofsky.
New Haven, Connecticut	29.80	756.9	29.91	759.7	61	16.1	72	s.	7	3.1		7 ck	0	sw.		0	0	fair	J. H. Sherman.
New London, Connecticut	29.89	759.2	29.94	760.5	63	17.2	78	s.	9	4.0		6 k	0	sw.		0	0	fair	J. G. Lynch.
New Orleans, Louisiana	30.03	762.7	30.08	764.0	80.0	26.7	82	n.	1	0.4		0	sk.			0	0	clear	L. Dunne.
Newport, Rhode Island	29.90	759.4	29.95	760.7	60.7	15.9	73	s.	10	4.5		3 c	0			0	0	clear	W. McGillivray.
New River, N. Carolina					77	25.0	75	sw.			2	0	0			0	0	clear	C. C. Corbin.
New Shoreham, Rhode I'd.	29.92	760.0	29.95	760.7	60.4	15.8	75	sw.	17	7.6		2 c	0	w.		0	0	clear	W. Davis.
New York, New York	29.75	755.6	29.92	760.0	61	16.1	78	s.	9	4.0		4ck;cs	0	sw.		0	0	fair	J. B. Merrill.
Norfolk, Virginia	29.95	760.7	29.98	761.5	68	20.0	73	sw.	7	3.1		3 ck	7 ks			0	0	cloudy	J. T. Eiker.
North Platte, Nebraska	27.05	687.1	29.85	758.2	66.6	19.2	60	n.	7	3.1		0	5 s			0.20	5.1	fair	E. F. Brady.
Olympia, Washington T'y	30.09	764.3	30.13	765.3	54.0	12.2	93	n.	1	0.4		4 cs	0	n.		0	0	fair	J. Dascomb.
Omaha, Nebraska	28.81	731.8	29.95	760.7	68.0	20.0	84	calm	0	0		7 cs	3 s			0	0	cloudy	A. Pollak.
Ogalaamie, Pt. Barrow, Alas.	29.66	753.4	29.68	753.9	32.6	0.4	100	ne.	8	3.6			fg.			0.07	1.8	dense fog	P. H. Ray.
Oswego, New York	29.32	744.7	29.64	752.8	71.0	21.7	76	s.	9	4.0		5 cs	2 k	sw.	sw.	0.17	4.3	fair	S. W. Beall.
Palestine, Texas	29.55	750.6	30.09	764.3	75.0	23.9	90	s.	8	3.6		0	8 k		s.	0	0	fair	L. M. Pindell.
Pensacola, Florida	30.08	764.0	30.11	764.8	79.0	26.1	77	se.	6	2.7		0	0			0	0	clear	M. McGauran.
Philadelphia, Pa	29.81	757.2	29.91	759.7	65	18.3	68	s.	5	2.2		3 ck	3 k	se.	nw.	0	0	fair	T. F. Townsend.
Pike's Peak, Colorado	17.98	456.7	29.80	756.9	27	— 2.8	74	w.	25	11.2		1 c	0			0	0	clear	L. M. Dey.
Ploche, Nevada	24.05	610.9	29.85	758.2	47.8	8.8	80	nw.	8	3.6		10 cs	0	calm		0.02	0.5	cloudy	C. N. Kitchel.
Pittsburg, Pennsylvania	29.01	736.8	29.80	756.9	71.0	21.7	79	s.	7	3.1		5 cs	5 s	w.	sw.	0.01	0.3	cloudy	J. H. Bryce.
Poplar River, Montana	27.88	708.1						sw.			1	0	0			0	0	clear	U. D. Maxwell.
Port Eads, Louisiana	30.08	764.0	30.08	764.0	77.5	25.3	89	se.	6	2.7		0	2 ks		se.	0.05	1.3	clear	H. G. Christian.
Port Huron, Michigan	28.98	736.1	29.65	753.1	67.2	19.6	90	sw.	12	5.4			10 ks		w.	1.18	30.0	cloudy	W. O. Bailey.
Portland, Maine	29.79	756.7	29.84	757.9	59.5	15.3	68	s.	12	5.4		4 c	2 s	w.		0.01	0.3	fair	W. W. Eichelberger.
Portland, Oregon	30.00	762.0	30.07	763.8	61.0	16.1	78	calm	0	0		1 c	3 s	calm	nw.	0	0	fair	M. L. Hearne.
Portsmouth, N. Carolina																			F. P. Chaffee.
Prescott, Arizona	24.77	629.1	29.79	756.7	41	5.0	48	s.	4	1.8		0	0			0	0	clear	J. McN. Wright.
Provincetown, Mass	29.90	759.4	29.93	760.2	60.5	15.8	72	s.	13	5.8		3 k	3 s	sw.		0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	30.08	764.0	30.09	764.3	74	23.3	71	ne.	9	4.0		0	0			0.54	13.7	clear	W. J. Evans.
Red Bluff, California	29.50	749.3	29.86	758.4	72.0	22.2	42	n.	6	2.7		0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.79	756.7	30.02	762.5	76.4	24.7	84	se.	4	1.8		0	0			0	0	clear	P. M. Wilson.
Rochester, New York	29.01	736.8	29.66	753.4	70	21.1	84	sw.	14	6.3			10 k		sw.	0.09	2.3	cloudy	E. W. McGann.
Roseburg, Oregon	29.52	749.8	30.07	763.8	56	13.3	80	calm	0	0		7 c	0	w.		0	0	fair	J. J. Nanry.
Sacramento, California	29.77	756.1	29.84	757.9	57.8	14.3	75	se.	7	3.1		0	3 s		se.	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.38	746.2	29.97	761.2	74.8	23.8	86	nw.	3	1.3			10 s		w.	0	0	cloudy	J. H. Webber.
St. Paul, Minnesota	28.95	735.3	29.80	756.9	65.0	18.3	90	nw.	5	2.2		0	0			0.11	2.8	clear	P. F. Lyons
St. Vincent, Minnesota	28.92	734.6	29.77	756.1	59	15.0	70	w.	7	3.1		0	0			0.04	1.0	clear	G. Kingsbury.
Salt Lake City, Utah	25.67	652.0	29.89	759.2	55	12.8	54	calm	0	0			10 s			inap.	inap.	cloudy	J. Craig.
San Antonio, Texas	29.36	745.7	30.04	763.0	77	25.0	90	calm	0	0		0	6 ks		se.	0	0	fair	E. Lane.
San Diego, California	29.88	758.9	29.95	760.7	61.6	16.4	76	s.	3	1.3			10 s		sw.	0.01	0.3	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.07	738.4	29.74	755.4	71.8	22.1	82	sw.	14	6.3		0	5 ks		w.	0.06	1.5	fair	M. H. Perry.
Sandy Hook, New Jersey	29.89	759.2	29.93	760.2	67.0	19.4	63	sw.	11	4.9		1 k	0	sw.		0	0	clear	B. A. Blundon.
San Francisco, California	29.85	758.2	29.92	760.0	54	12.2	86	w.	11	4.9		2 ck	10 s	n.	se.	0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.33	592.6	29.84	757.9	58	14.4	17	e.	14	6.3		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	30.04	763.0	30.13	765.3	79	26.1	65	n.	8	3.6		1 c	0			0	0	clear	H. W. Ford.
Shreveport, Louisiana	29.84	757.9	30.07	763.8	77	25.0	85	s.	1	0.4		1 ck	hz			0	0	clear	E. N. Meekins.
Silver City, New Mexico	24.34	618.2	29.84	757.9	57	13.9	83	nw.	3	1.3			10 s		calm	0	0	cloudy	J. B. Wallace.
Sitka, Alaska	29.77	756.1	29.83	757.7	50.5	10.3	86	e.	3	1.3			10 s		e.	0.30	7.6	cloudy	J. J. McLean.
Smithville, North Carolina	30.03	762.7	30.07	763.8	75	23.9	71	w.	12	5.4		0	0			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.97	710.4	30.01	762.2	60	15.6	72	calm	0	0		9 cs	0			0	0	cloudy	D. Moore.
Springfield, Illinois	29.26	743.2	29.93	760.2	74	23.3	71	w.	3	1.3		6 c	1 s	w.	w.	0	0	fair	T. B. Jennings.
Springfield, Massachusetts	29.75	755.6	29.88	758.9	66.0	18.9	58	s.	8	3.6		5 c	0			0	0	fair	T. S. Outram.
Springfield, Mo	28.60	726.4	30.06	763.5	71	21.7	84	nw.	5	2.2		0	8 s		nw.	0.01	0.3	cloudy	J. B. Marbury.
Starkville, Miss	29.63	752.6	30.10	764.5	79	26.1	82	sw.	12	5.4		0	2 ks		sw.	0	0	clear	M. J. Wright.
Stockton, Texas	27.00	685.8	29.92	760.0	65.2	18.4	90	s.	4	1.8		0	0			0.23	5.8	clear	J. O'Dowd.
Thatcher's Island, Mass	29.86	758.4	29.91	759.7	55.0	12.8	86	s.	14	6.3		0	8 s		nw.	0	0	cloudy	G. Liebmann.
Toledo, Ohio	29.05	737.9	29.73	755.1	74	23.3	69	sw.	16	7.2		0	7 ks		w.	0.18	4.6	threatening	A. Buell.
Tucson, Arizona	27.51	698.7	29.81	757.2	63	17.2	40	s.	2	0.9		1 ck	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.68	753.9	30.04	763.0	60	15.6	60	e.	4	1.8		9 c;cs	0	n.		0	0	cloudy	J. Daly.
Uvalde, Texas	29.08	738.6	30.02	762.5	77	25.0	76	se.	4	1.8			10 ks		s.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.84	757.9	30.09	764.3	78	25.6	82	calm	0	0		0	0			0	0	clear	H. P. Brisbane.
Visalia, California	29.47	748.5	29.84	757.9	62	16.7	60	se.	4	1.8		4 cs	0			0	0	fair	W. L. Seward.
Washington, D. C.	29.79	756.7	29.90	759.4	71.1	21.7	74	s.	3	1.3		5 c	0	nw.		0	0	fair	B. M. Purssell.
West Las Animas, Colorado	26.09	662.7	29.87	758.7	59.9	15.5	87	n.	10	4.5			10 s		n.	0	0	cloudy	F. W. Brandenburg.
Williamsport, Pa	29.22	742.2	29.82	757.4	66	18.9	70	ne.	4	1.8			10 ks		w.	inap.	inap.	cloudy	B. F. Hough.
Wilmington, N. Carolina	29.99	761.7	30.04	763.0	73	22.8	55	w.	8	3.6		1 cs	0			0	0	clear	A. T. Sherwood.
Winnemucca, Nevada	25.65	651.5	29.91	759.7	49	9.4	86	ne.	6	2.7		2 ck	0	ne.		0.02	0.5	clear	J. R. Williams.
Yankton, Dakota	28.69	728.7	29.97	761.2	63	17.2	78	w.	5	2.2			10 ks			inap.	inap.	cloudy	J. H. Atfield.
Yuma, Arizona	29.64	752.8	29.78	756.4	68.8	20.4	51	ne.	3	1.3		4 cs	0			0	0	fair	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.05	560.1			55.0	12.8	79	calm	0	0			10s;ks		sw.	0	0	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W. I.	30.07	763.8	30.08	764.0	81	27.2	95	e.				5 k	5 ks	e	e.	0.27	6.9	cloudy	J. A. Racker.
Buenaventura, U. S. C.	30.02	762.5	30.05	763.3	76	24.4	90	s.	2	0.9		0	8 s		s.	0.40	10.2	cloudy	J. I. Plume.
Havana, Cuba, W. I.	30.03	762.7	30.08	764.0	82	27.8	80	calm	0	0		2 cs	1 k			0	0	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.07	763.8	30.08	764.0	79.5	26.4	78	calm	0	0		10 cs	0			0	0		Robert Johnston.
Magua, San Domingo, W. I.					75	23.9		calm			0	2 cs	0	e.		0.45	11.4		S. M. Pike.
Paramaribo, S. A.	30.07	763.8	30.07	763.8	78	25.6	86	se.			2	4 k	4 s	e.		0.170	4.3		Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.56	750.8	30.02	762.5	77	25.0	89	calm			0		9 s		calm	inap.	inap.	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							95	ne.			1					0	0	cloudy	Earl Flint.
Santiago de Cuba, W. I.	30.00	762.0	30.02	762.5	82	27.8	74	n.	1.2	0.5		4 c	0			0	0	fair	Robert Mason.
York Factory, B. A.	29.79	756.7	29.85	758.2	34.5	1.4	95	ne.	20	8.9		fg.	fg.			1.80	45.7	foggy	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
British Naval.																		
H. M. S. Alert, Simons Bay, Cape Colony, Africa	30.10	764.5	61.8	16.6	77	wnw.			3-5		5							squally.
H. M. S. Alexandra, Alexandria, Egypt	29.87	758.7	74	23.3	76	w.			4		3					2	w.	d. clouds.
H. M. S. Amethyst, S. 34° 51′, W. 51° 38′	30.16	766.1	57	13.9	87	sw.			4		3	se.				3		d. clouds.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.92	760.0	62	16.7		n.			1-2		6	n.						d. clouds.
H. M. S. Arab, N. 25° 17′, E. 60° 37′	29.46	748.3	88	31.1	84	s.			1		2					2	sw.	misty.
H. M. S. Bacchante, Corfu, Ionian Island	30.04	763.0	70	21.1	79	wnw.			4		3	wnw.						d. clouds.
H. M. S. Boadica, Simon's Bay, Cape Colony	30.10	764.5	57	13.9		nw.			1-4		0							blue sky.
H. M. S. Cleopatra, N. 29° 15′, E. 126° 45′	29.76	755.9	74.5	23.6	85	se.			2-3		3	s.				3	s.	d. clouds.
H. M. S. Coquette, Port Said, Egypt	29.83	757.7	78	25.6		nw.			3		0							blue sky.
H. M. S. Cruiser, N. 38° 29′, E. 17° 08′	30.10	764.5	71	21.7		sw.			3		1	ssw.				3	ssw.	blue sky.
H. M. S. Diamond, S 13° 54′, E. 162° 41′	29.92	760.0	81	27.2	87	se.			2		6					2	e.	d. clouds.
H. M. S. Dido, N. 10° 37′, W. 67° 00′	30.01	762.2	78	25.6		calm			0		3	e.				1	ne.	d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	29.93	760.2	73.5	23.1	74	wsw.			1		6	wsw.						d. clouds.
H. M. S. Dwarf, S. 25° 16′, W. 57° 45′	29.92	760.0	59	15.0	94	calm			0		10							misty.
H. M. S. Eclipse, S. 4° 37′, E. 55° 30′	29.96	761.0	80	26.7		ese.			1		1							blue sky.
H. M. S. Emerald, S. 51° 50′, W. 57° 20′	30.22	767.6	38	3.3	100	n.			2									blue sky.
H. M. S. Fawn, S. 23° 32′ E. 55° 23′	30.32	770.1	71	21.7	75	sse.			4-5		5	se.				5	sse.	d. clouds.
H. M. S. Fantome, N. 9° 14′, W. 81° 17′	29.92	760.0	81	27.2		calm			0		9	nw.				2	e.	drizzling.
H. M. S. Flying Fish, N. 37° 19′, E. 126° 14′	29.74	755.4	62	16.7	94	s.			2		8							misty.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	29.97	761.2	49.5	9.7	96	calm			0		10							foggy.
H. M. S. Garnet, Montevideo, Uruguay	30.25	768.3	50	10.0	86	nw.			2		3							d. clouds.
H. M. S. Griffon, N. 48° 44′, W. 53° 11′	29.98	761.5	47	8.3	92	sw.			3		10							d. clouds.
H. M. S. Inconstant, N. 9° 00′, W. 17° 00′	30.09	764.3	83	28.3	87	ne.			1-2		8	n.				2	n.	d. clouds.
H. M. S. Iron Duke, N. 35° 26′ E. 139° 39′	29.85	758.2	69	20.6	95	s.			1		0							blue sky.
H. M. S. Kingfisher, N. 12° 05′ W. 90° 55′	29.98	761.5	82	27.8		ne.			1-2		1					2	ne.	blue sky.
H. M. S. Lark, S. 10° 37′, E. 162° 30′	29.92	760.0	81.3	27.4		calm			0		4							d. clouds.
H. M. S. Magpie, N. 34° 56′, E. 139° 52′	29.86	758.4	67.9	19.9	87	se.			1		0							blue sky.
H. M. S. Minotaur, N. 36° 13′ W. 4° 08′	30.15	765.8	71	21.7	71	nne.			1		1					2	ene.	blue sky.
H. M. S. Nelson, S. 38° 20′, E. 179° 00′	29.68	753.9	63	17.2	89	nne.			6-7		9					7	n.	squally.
H. M. S. Northampton, Halifax, Nova Scotia	29.98	761.5	61	16.1	61	sse.			1		5							d. clouds.
H. M. S. Phoenix, N. 18° 28′, W. 78° 11′	30.02	762.5	79	26.1	90	calm			0		1							blue sky.
H. M. S. Rambler, Saint Paul de Loanda, Benguela	30.02	762.5	69	20.6	100	wnw.			1		0							blue sky.
H. M. S. Rocket, N. 49° 50′, W. 124° 40′	30.05	763.3	60	15.6	?	calm			0		5							d. clouds.
H. M. S. Sappho, S. 26° 51′, W. 107° 30′	30.16	766.1	69.5	20.8		sw.			3		2	sw.				3	sw.	d. clouds.
H. M. S. Swiftsure, N. 13° 39′ W. 25° 05′	30.18	766.6	72.5	22.5	67	ene.			3-4		6	nne.				2	nne.	d. clouds.
H. M. S. Sylvia, Rio de Janeiro, Brazil	30.20	767.1	67.1	19.5	92	sse.			2		5							misty.
H. M. S. Tenedos, N. 46° 40′ W. 53° 57′	30.07	763.8	45	7.2	96	sw.			2		0					1	s.	blue sky.
H. M. S. Triumph, Coquimbo, Chili	29.96	761.0	48	8.9	92	calm			0		10	calm						foggy.
H. M. S. Woodlark, Sharjah, Arabia	29.46	748.3	89.5	31.9	76	nnw.			4							2	nnw.	dense mist.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verd Islands	30.18	766.5	77.0	25.0	83	nne.			3		1					2		blue sky.
Tamega, Macao, China	29.54	750.2	83.3	28.5	83	e.			0		3			6 h'r	6 h'r			gloomy.
Swedish Naval.																		
Saga, N. 40° 15′, W. 17° 20′	30.18	766.6	62.2	16.8	79	nne.			2		9							overcast.
United States Naval.																		
Navy Yard, Pensacola, Fla	30.05	763.3	80	26.7	78	e.	4	1.8			2		se.	0	0			fair.
N. Yard, Portsmouth, N. H.	29.85	758.2	62	16.7	66	s.	9	4.0			5		sw.	0	0			fair.
Naval Hospital, Yokohama, Japan*	29.72	754.9	67	19.4	89	sw.			2		0			0	0			clear.
Adams, Mare Island, Cal	29.90	759.4	57	13.9	94	sw.			2		10							cloudy.
Alaska, Callao, Peru	29.95	760.7	60	15.6	94	calm			0		8			0	0	sm'h		fair.
Alert, N. 35° 37′, E. 141° 21′*	29.77	756.1	71	21.7	75	ese.			2		2		calm			sm'h		clear.
Alliance, Hampton Roads, Va	29.97	761.2	68	20.0	84	ssw.			3-4		8			0	0	sm'h		cloudy.
Ashuelot, Yokohama, Japan	29.84	757.9	69	20.6	95	s.			2		2		calm					clear.
Brooklyn, Rio de Janeiro, Brazil	30.22	767.6	67	19.4	100	n.	3	1.3			10		n.	0	0	sm'h		foggy.
Colorado, New York, N. Y	29.93	760.2	62	16.7	83	ssw.	10	4.5			8		ssw.	0	0			fair.
Enterprise, Norfolk, Va*	29.97	761.2	68	20.0	84	sw.			1		8		calm					fair.
Essex, S. 41° 52′, W. 59° 58′	30.12	765.0	48	8.9	85	ssw.			2		2					sm'h	sw.	clear.
Franklin, Norfolk, Va	29.98	761.5	68	20.0	74	sw.	9	4.0			8		calm	0	0			cloudy.
Galena, Alexandria, Egypt	29.88	758.9	78	25.6	82	wnw.			3		0					sm'h		clear.
Independence, Mare Island, Cal	29.93	760.2	57	13.9	87	sw.			3		10			0	0			cloudy.
Iroquois, San Francisco, Cal	29.87	758.7	56	13.3	87	ssw.			4		2							clear.
Kearsarge, Norfolk, Va	29.99	761.7	67	19.4	89	s.			2		8		s.					fair.
Lackawana, Paita, Peru*	30.02	762.5	63	17.2	83	ese.			2		10		e.					cloudy.
Lancaster, Cadiz, Spain*	30.03	762.7	73	22.8	85	sw.			4		2		sw.	0	0	sm'h		fair.
Marion, S. 34° 54′, W. 56° 13′	30.15	765.8	52	11.1	100	nw.			1		8		calm	0	0	sm'h		cloudy.
Michigan, Detroit, Mich	29.64	752.8	68	20.0	84	sw.			6		8		sw.					cloudy.
Minnesota, Newport, R. I.	29.99	761.7	61	16.1	77	ssw.	4	1.8			5		ssw.					fair.
Monocacy, Nagasaki, Japan	29.88	758.9	69	20.6	90	e.			1		5		calm					fair.
New Hampshire, Newport, R. I.	29.91	759.7	63	17.2	67	s.			4		2		s.			sm'h		clear.
Nipsic, Venice, Italy	29.95	760.7	76	24.4	56	sw.			1		5		n.			sm'h		fair.
Onward, Callao, Peru†	30.17	766.3	57	13.9	?						10		n.			long	w.	cloudy.
Palos, Kobe, Japan	29.86	758.4	68	20.0	84	calm			0		0							clear.
Passaic, Washington, D. C.	29.97	761.2	71	21.7	75	se.			1		1		se.					clear.
Pensacola, Callao, Peru	30.08	764.0	59	15.0	94	se.	4	1.8			10			0	0	sm'h		cloudy.
Powhatan, N. 38° 55′, W. 75° 06′	29.93	760.2	71	21.7	75	s.			3		5		s.					fair.
Portsmouth, off Ryde Island of Wight, Eng*	29.90	759.4	60	15.6	94	wnw.			0		8		nw.			sm'h		cloudy.
Quinnebaug, N. 34° 24′, W. 11° 15′	30.26	768.6	65	18.3	78	nne.			3		5		calm			long	nne.	fair.
Ranger, San Francisco, Cal*	29.88	758.9	55	12.8	87	sw.			3		8		sw.	0	0	sm'h		cloudy.
Richmond, Nagasaki, Japan*	29.80	756.9	70	21.1	90	calm			0		0			0	0			clear.
Saratoga, off Ryde Island of Wight, Eng*	29.94	760.5	59	15.0	70	nw.			4-5		8		nw.	0	0	mod.	nw.	cloudy.
St. Louis, League Island, Pa	30.15	765.8	69	20.6	70	s.	9	4.0			5		sw.	0	0			fair.
Swatara, Nagasaki, Japan*	29.70	754.4	70	21.1	85	calm			0		8		calm			sm'h		fair.
Tennessee, Fort Monroe, Va	30.00	762.0	69	20.6	80	sw.	21	9.4			8			0	0			cloudy.
Vandalia, Hampton Roads, Va*	29.94	760.5	67	19.4	84	ssw.			4		9							cloudy.
Wabash, Boston, Mass	29.92	760.0	63	17.2	67	sw.	9	4.0			8		sw.	0	0			cloudy.
Wachusetts, Fort Wrangle, Alaska	29.80	756.9	50	10.0	100	ene.			1		10					sm'h		rainy.
Wyoming, Port Royal, S. C.	30.10	764.5	73	22.8	81	sw.	12	5.4			2		calm	0	0			clear.
Yantic, Hampton Roads, Va*	29.94	760.5	67	19.4	89	s.			3		8		ssw.					cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Prussian, N 52° 19′, W. 6° 07′*	29.94	760.5	60	15.6	.....	nnw.	.....	.....	4	.....	3	.....	n.	0	0	mod.	n.	clear.
S. S. Scandinavian, N. 42° 33′, W. 49° 38′*	30.08	764.0	52	11.1	.....	calm	.....	.....	0	.....	.....	.....	ese.	0	0	con.	ssw.	misty.
S. S. Waldensian, N. 45° 57′, W. 42° 05′*	30.17	766.3	61	16.1	.....	wsw.	.....	.....	3	.....	2	.....	wsw.	4 h'r	4 h'r	sli't	cross	clear.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, N. 44° 59′. W. 37° 58′	30.07	763.8	60	15.6	94	wnw.	.....	.....	3	.....	10	.....	w.	.....	.....	sm'h	wsw.	
S. S. Indiana, Liverpool, Eng.†	30.12	765.0	61	16.1	94	nw.	.....	.....	5	.....	2	.....	w.	.....	.....	.....	.....	fine.
S. S. Lord Clive, N. 42° 19′, W. 48° 35′*†	30.01	762.2	.....	.....	.....	nw.	.....	.....	1	.....	10	.....	nw.	3 h'r	3 h'r	.....	.....	cloudy.
S. S. Pennsylvania, N. 42° 20′, W. 46° 20′†	30.25	768.3	70	21.1	.....	e.	.....	.....	1	.....	7	.....	se.	.....	.....	sm'h	se.	showery.
ANCHOR LINE.																		
S. S. Ethiopia, North River, N. Y.	29.61?	752.1?	52	11.1	96	sse.	.....	.....	3	.....	6	.....	s.	3 h'r	3 h'r	.....	.....	clear.
S. S. Utopia, N. 39° 16′ E. 11° 31′†	30.30	769.6	71	21.7	67	nw.	.....	.....	2	.....	0	.....	.....	0	0	mod.	.....	clear.
ATLAS LINE.																		
S. S. Ailsa, Savanilla, U. S. C.†	29.96	761.0	77	25.0	86	nw.	.....	.....	2	.....	10	.....	nw.	2 h'r	2 h'r	.....	.....	dull.
S. S. Alvena, Aricebo, Porto Rico, W. I.†	29.94	760.5	78	25.6	82	calm	.....	.....	0	.....	0	.....	.....	6 h'r	6 h'r	.....	.....	fine.
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, Charlottetown, Canada†	29.93	760.2	56	13.3	.....	calm	.....	.....	0	.....	.....	.....	w.	0	0	.....	.....	fine.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S 37° 44′, E. 70° 38′	29.90	759.4	50.5	10.3	72	sw.	.....	.....	6	.....	7	.....	.....	.....	.....	.....	.....	squally.
S. Baroda, N. 3° 04′, E. 94° 18′	29.87	758.7	83.5	28.6	75	ssw.	.....	.....	3	.....	7	.....	.....	.....	.....	.....	.....	d. clouds.
British Merchant, N. 18° 34′, W. 34° 05′	30.22	767.6	76.1	24.5	62	ne.	.....	.....	4–5	.....	5	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Cipero, N. 12° 26′. W. 60° 03′	30.06	763.5	83.8	28.8	89	ese.	.....	.....	3	.....	5	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Glencairn, S. 13° 47′, W. 7° 54′	30.21	767.3	76	24.4	73	sse.	.....	.....	5	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Gordon Castle, N. 1° 22′, E. 84° 02′	29.86	758.4	85	29.4	79	wsw.	.....	.....	0	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. May Hulse, S. 57° 07′, W. 58° 53′	29.51	749.5	39	3.9	91	n.	.....	.....	7	.....	10	.....	.....	.....	.....	.....	.....	raining.
S. S. Minho, S. 5° 10′, W. 33° 08′	30.07	763.8	80.5	26.9	85	ese.	.....	.....	5	.....	6	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Pole Star, S. 28° 21′, W. 31° 10′	30.34	770.6	68.3	20.2	88	n.	.....	.....	3	.....	6	.....	.....	.....	.....	.....	.....	blue sky.
CUNARD LINE.																		
S. S. Gallia, N. 40° 28′, W. 69° 40′	29.95	760.7	56	13.3	94	s.	.....	.....	1	.....	.....	.....	.....	0	0	sm'h	.....	foggy.
S. S. Scythia, N. 47° 38′, W. 36° 39′	30.17	766.3	58.5	14.7	94	w.	.....	.....	2	.....	3	.....	w.	7 h'r	7 h'r	sli't	wsw.	
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. France, N. 40° 28′, W. 72° 26′†	29.95	760.7	66.2	19.0	.....	calm	.....	.....	0	c	.....	s.	.....	0	0	sm'h	s.	clear.
S. S. St. Laurent, N. 47° 10′, W. 20° 46′†	30.41	772.5	60.8	16.0	79	se.	.....	.....	1	.....	.....	.....	.....	0	0	sm'h	se.	clear.
S. S. Ville de Marseilles, Gibraltar Road*†	30.10	764.5	68	20.0	.....	calm	.....	.....	0	.....	2	.....	ene.	0	0	.....	.....	clear
GUION LINE.																		
S. S. Arizona, N. 40° 53′, W. 61° 53′	30.05	763.3	70	21.1	.....	ese.	.....	.....	3	.....	3	.....	se.	0	0	mod.	ese.	fine.
S. S. Wisconsin, N. 46° 40′, W. 37° 45′*	29.92	760.0	56	13.3	.....	nw.	.....	.....	2	.....	2	.....	wnw.	2 h'r	2 h'r	mod.	wsw.	fair.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 41° 45′, W. 57° 19′*†	30.15	765.8	.....	.....	.....	se.	.....	.....	5	.....	2	.....	ese.	0	0	sm'h	se.	
S. S. Cimbria, N. 53° 41′ W. 7° 01′	29.41	747.0	53	11.7	.....	w.	.....	.....	8	.....	7	.....	w.	3 h'r	3 h'r	cross	w.	hazy.
S. S. Gellert, N. 48° 25′ W. 31° 48′	30.18	766.6	62	16.7	.....	sw.	.....	.....	5	.....	8	.....	sw.	0	0	long	sw.	covered.
S. S. Herder, Hamburg, Germany*†	29.48	748.8	57	13.9	.....	sw.	.....	.....	3	.....	3?	.....	wsw.	0	0	.....	.....	covered?
S. S. Lessing, N. 53° 13′, E. 4° 25′	29.56	750.8	69	20.6	.....	w.	.....	.....	10	.....	8	.....	nw.	rain	rain	mod.	nw.	
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, N. 50° 40′, 0° 00′*†	30.09	764.3	58	14.4	.....	w.	.....	.....	4	.....	8	.....	w.	0	0	.....	.....	cloudy.
S. S. Humboldt, N. 43° 20′, W. 39° 48′*	30.15	765.8	61.2	16.2	98	sw.	.....	.....	2	.....	8 s:n	.....	sw.	8 h'r	8 h'r	1	.....	drizzling.
LEYLAND LINE.																		
S. S. Iberian, N. 50° 48′, W. 21° 01′	30.25	768.3	.....	.....	.....	se.	.....	.....	3	.....	2	.....	se.	0	0	light	nw.	clear.
MALLORY LINE.																		
S. S. Colorado, N. 24° 25′ W 82° 06′†	30.08	764.0	81	27.2	.....	ne.	.....	.....	2	.....	4	.....	ne.	1 h'r	1 h'r	small	ne.	fair.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, off Charleston Bar, S. C.†	30.15	765.8	76	24.4	?	sw.	.....	.....	3	.....	0	.....	.....	0	0	sm'h	.....	clear.
S. S. Hermod, N. 41° 00′. W. 50° 24′.*†	29.94	760.5	73.4	23.0	.....	ese.	.....	.....	1	.....	6	.....	ese.	2 h'r	2 h'r	mod.	se.	fair.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, S. 2° 36′, W. 36° 28′	29.53	750.0	.....	.....	.....	e.	.....	.....	8	.....	.....	.....	se.	0	0	sm'h	e.	cloudy.
S. S. Glenapp, S. 19° 37′, W. 38° 50*†	30.20	767.1	.....	.....	.....	ne.	.....	.....	4	.....	7	.....	e.	0	0	mod.	se.	cloudy.
NATIONAL LINE.																		
S. S. Denmark, N. 40° 42′, W. 51° 15′	30.19	766.8	68	20.0	.....	ene.	.....	.....	3	.....	10	.....	.....	0	0	slight	se.	foggy.
S. S. England, N. 41° 00′, W. 47° 28′	30.22	767.6	.....	.....	.....	e.	.....	.....	2	.....	fg	.....	.....	0	0	sm'h	.....	foggy.
S. S. Greece, N. 44° 38′. W. 39° 13′	30.15	765.8	.....	.....	.....	nw.	.....	.....	2	.....	5	.....	nw.	10 h'r	10 h'r	sm'h	nnw.	
S. S. The Queen, N. 40° 27′, W. 64° 27′*	29.78	756.4	65	18.3	.....	s.	.....	.....	4	.....	10	.....	s.	0	0	gentle	s.	dull.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, New York, N. Y.*†	29.94	760.5	62	16.7	?	s.	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	.....	fair.
S. S. City of Washington, Havana, Cuba, W. I*†	30.18	766.6	84	28.9	.....	ne.	.....	.....	4	.....	2	.....	ne.	0	0	.....	.....	clear.
NORTH GERMAN LLOYD																		
S. S. Elbe, N. 40° 56′, W. 54° 13′	30.16	766.1	69.8	21.0	91	se.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	w.	fair.
S. S. Gen. Werder, N. 41° 34′ W. 56° 10′	30.13	765.3	.....	.....	.....	se.	.....	.....	2	.....	10	.....	.....	0	0	sm'h	s.	foggy.
S. S. Graf Bismarck, N. 41° 05′, W 9° 25′	30.05	763.3	63.5	17.5	.....	ne.	.....	.....	1–3	.....	7	.....	var.	.....	.....	mod.	nw.	showery.
S. S. Habsburg, N. 49° 32′, W. 15° 34′	30.33	770.4	58.1	14.5	.....	n.	.....	.....	2	.....	8	.....	n.	2 h'r	2 h'r	sm'h	.....	cloudy.
S. S. Hermann, N. 43° 08′, W. 36° 28′†	30.02	762.5	60.8	16.0	.....	sw.	.....	.....	5	.....	3	.....	wsw.	6 h'r	6 h'r	mod.	ssw.	misty.
S. S. Hohenzollern, N. 52° 48′, E. 3° 42′*	29.56	750.8	56	13.3	.....	nw.	.....	.....	6	.....	8	.....	nw.	0	0	6	nw.	cloudy.
S. S. Leipzig, N. 45° 06′, W. 37° 30′	30.12	765.0	61.0	16.1	?	sw.	.....	.....	3	.....	10	.....	sw.	3 h'r	3 h'r	mod.	wsw.	light rain.
S. S. Mosel, N. 43° 46′ W. 43° 08′	30.25	768.3	61	16.1	.....	nne.	.....	.....	1	.....	4	.....	nne.	2 h'r	2 h'r	sm'h	.....	clear.
S. S. Neckar, N. 49° 47′ W. 13° 37′	.....	.....	62.0	16.7	57	nw.	.....	.....	4	.....	8	.....	nw.	0	0	mod.	nnw.	fair.
S. S. Ohio, N. 53° 51′ E. 7° 07′	29.41	747.0	.....	.....	.....	wnw.	.....	.....	7	.....	10	.....	wnw.	4 h'r	4 h'r	r'gh	wnw.	cloudy.
S. S. Salier, Bremerhaven, Germany	29.73	755.1	52.7	11.5	.....	wsw.	.....	.....	7	.....	10	.....	wsw.	5 h'r	5 h'r	.....	.....	raining.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 34° 49′, W. 137° 58′*†	29.61	752.1	69	20.6	95	sw.	.....	.....	5–6	.....	10	.....	sw.	0	0	sm'h	.....	misty.
S. S. Belgic. N. 40° 15′, E. 151° 31′†	29.79	756.7	62	16.7	72	nnw.	.....	.....	3	.....	8	.....	w.	0	0	light	wsw.	cloudy.
S. S. Gaelic, N. 27° 56′, E. 124° 31′†	29.74	755.4	76	24.4	86	se.	.....	.....	4	.....	8	.....	e.	.....	.....	light	se.	cloudy.
S. S. Oceanic, N. 47° 10′, W. 167° 35′*	29.83	757.7	45	7.2	92	wnw.	.....	.....	5	.....	9	.....	nw.	.....	.....	3	w.	cloudy.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y.†	29.91	759.7	.....	.....	.....	ssw	.....	.....	2	.....	3	.....	sw.	0	0	.....	.....	clear.
S. S. City of Columbus, N. 37° 40′ W. 74° 40′†	30.05	763.3	.....	.....	.....	s.	.....	.....	6	.....	0	.....	.....	0	0	long	ese.	clear.
S. S. Seminole, Savannah, Ga †	30.12	765.0	82	27.8	67	wsw.	.....	.....	4	.....	1	.....	sw.	.....	.....	.....	.....	clear.
OREGON IMPROVEMENT COMPANY.																		
S. S. Willamette, N. 41° 52′, W. 124° 34′†	29.97	761.2	52	11.1	86	n.	.....	.....	6	.....	2	.....	nnw.	0	0	r'gh	n.	clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, San Francisco, Cal.†	29.89	759.2	55	12.8	93	calm	.....	.....	0	.....	2	.....	.....	.....	.....	.....	.....	hazy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal.†	29.86	758.4	54	12.2	87	wsw.	.....	.....	2	.....	2	.....	w.	.....	.....	.....	.....	fair.
S. S. Geo. W. Elder, Victoria, B. C.†	30.13	765.3	52	11.1	93	ssw.	.....	.....	3	.....	10	.....	.....	.....	.....	sm'h	.....	foggy.
S. S. Idaho, Wrangle, Alaska†	30.18	766.6	56	13.3	81	nw.	.....	.....	2	.....	5?	.....	n.	.....	.....	sm'h	n.	cloudy ?
S. S. Orizaba, N. 34° 28′, W. 120° 28′†	29.94	760.5	54	12.2	?	calm	.....	.....	0	.....	.....	.....	wnw.	0	0	sm'h	nw.	foggy.
S. S. State of California, N. 38° 00′, W. 123° 10′†	29.88	758.9	51	10.6	100	w.	.....	.....	3	.....	10	.....	w.	.....	.....	sm'h	w.	dense fog.
S. S. Victoria, N. 39° 25′, W. 123° 05′†	29.82	757.5	50	10.0	93	sw.	.....	.....	2	.....	8	.....	.....	.....	.....	light	nw.	overcast.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, N. 5° 25′, W. 165° 44′	29.95	760.7	79	26.1	86	se.	.....	.....	3	.....	0	.....	.....	0	0	sm'h	.....	clear.
S. S. City of Pekin, Hong Kong, China†	29.58	751.3	79	26.1	91	se.	.....	.....	4	.....	5	.....	e.	0	0	sm'h	.....	fair.
S. S. City of Rio de Janeiro, N. 9° 10′ W. 84° 52′*†	30.14	765.5	80	26.7	87	n.	.....	.....	2	.....	4	.....	w.	0	0	mod.	sw.	fair.
S. S. City of Sydney, Sydney, N. S. W.†	29.78	756.4	53	11.7	61	sw.	.....	.....	3	.....	2	.....	sw.	0	0	sm'h	.....	fair.
S. S. City of Tokio, N. 41° 20′. W. 152° 58′†	30.13	765.3	57	13.9	81	sw.	.....	.....	2	.....	5	.....	sw.	1 h'r	1 h'r	r'gh	sw.	fair.
S. S. Clyde N. 15° 31′, W. 91° 14′†	29.95	760.7	83	28.3	71	nw.	.....	.....	2	.....	2	.....	nw.	3 h'r	3 h'r	mod.	s.	clear.
S. S. Colima, N. 34° 04′. W. 120° 47′†	29.93	760.2	56	13.3	87	calm	.....	.....	0	.....	10	.....	.....	0	0	sm'h	wnw.	cloudy.
S. S. Colon, Aspinwall, Panama†	29.97	761.2	79	26.1	.....	ssw.	.....	.....	2	.....	9	.....	se.	2 h'r	2 h'r	sm'h	.....	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
PACIFIC MAIL STEAMSHIP COMPANY.—Continued.																		
S. S. Grenada, N. 15° 21′, W. 97° 30′†	29.91	759.7	80	26.7	96	ene.			3		5		ne.	4 h'r	4 h'r	light		clear.
S. S. South Carolina, Panama, Panama†	29.93	760.2	80	26.7	82	nne.			1		2		var.	0	0	sm'h		fair.
S. S. Zelandia, Sydney, N. S. W.	29.75	755.6	63	17.2	72	w.			6		10		w.			sm'h		cloudy.
QUEBEC S. S. COMPANY.																		
S. S. Muriel, Off Barnegat, N. J.	29.81	757.2	63	17.2		sw.			3		0			0	0	sm'h		fair.
S. S. Bermuda, Castries, St Lucia, W. I†	30.09	764.3	85	29.4		e.			2		9		ene.	rain	rain	sm'h		cloudy.
RED STAR LINE.																		
S. S. Rhynland, N. 41° 28′, W. 47° 10′	30.22	767.6	71	21.7	71	wsw.			1		9		ene	0	0	light	sse.	cloudy.
S. S. Switzerland, N. 43° 34′. W. 41° 02′†	30.23	767.8				nnw.			2		2		n.	1 h'r	1 h'r	sm'h		fair.
S. S. Vaderland, N. 41° 08′, W. 59° 59′	29.91	759.7	75	23.9	81	ese.			3		10		ese.	0	0	sm'h		overcast.
ROTTERDAM LINE.																		
S. S. P. Caland, N. 40° 06′, W. 70° 50′†	29.99	761.7	60.1	15.6	36	sse.			1	3 cs	0	s.		4 h'r	4 h'r	sm'h		fair.
S. S. W. A Scholten, N. 46° 05′, W. 29° 10	30.14	765.5	62.1	16.7	88	wsw.			5		7		sw.	0	0	sm'h	sw.	
STATE LINE.																		
S. S. State of Florida, N. 48° 01′, W. 32° 18′	29.87	758.7	56	13.3		ssw.			6		10		sw.	2 h'r	2 h'r	mod.	sw.	cloudy.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 40° 36′, W. 67° 14′†	30.20	767.1	55.4	13.0	56	calm			0		10			0	0	long	ese.	covered.
WARREN LINE.																		
S. S. Iowa, N. 46° 39′ W. 34° 29′*†	30.20	767.1	56	13.3		sw.			5		10		sw.	1 h'r	1 h'r	slight	sw.	light rain.
WHITE STAR LINE.																		
S. S. Britannic, N. 46° 15′, W. 37° 30′†	30.12	765.0	55	12.8	93	n.			4		8		n.	5 h'r	5 h'r	sm'h		d. clouds.
S. S. Celtic, Liverpool, Eng†	29.96	761.0	61	16.1	77	w.			5		5		w.	0	0			fair.
S. S. Germanic, N. 42° 05′, W. 53° 27′†	30.23	767.8	56	13.3		sse.			1		4		wsw.			mod.	sse.	foggy.
S. S. Republic, N. 50° 59′, W. 14° 35′†	30.43	772.9	59	15.0	88	wnw.			2		8		wnw.	0	0	long	wnw.	d. clouds.
WILSON LINE.																		
S. S. Romano, N. 42° 23′ W. 61° 06′	29.96	761.0	56	13.3		se.					0			0	0			hazy.
MISCELLANEOUS.																		
Schr. Addie Fuller, N. 37° 17′ W. 75° 25′†	30.05	763.3	66	18.9	90	s.			3	8 ck	0			0	0		ne.	cloudy.
Schr. Ajax, N. 28° 49′, W. 92° 00′†	30.10	764.5				calm			0		1		ese.	0	0	sm'h	ese.	clear.
Bk. Alpha, N. 26° 20′, W. 74° 50′†	30.02	762.5	78	25.6		nne.			3		3		nne.	1 h'r	1 h'r	long	n.	fair.
Schr. Annie Lewis, Mobile, Ala†	30.21	767.3	80	26.7		s.			2		2		sse.	0	0			clear.
Bk. Annie Thormann, N. 17° 26′, W. 35° 36′	30.25	768.3	76.8	24.9	82	ese.			5	7k;c		se;nw		0	0	mod.	se.	fair.
S. S. Antonio Lopez, Cadiz, Spain	30.08	764.0	71.5	21.9	75	ssw.			4		4 k			0	0			fair.
Schr. Asa Eldridge, N. 24° 03′, W. 82° —†.	29.99	761.7				ne.			3		5		ene.	0	0	sm'h		fair.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.37	771.4	75	23.9		nnw.			1		1		ne.	0	0			clear.
Bk. Bergenseren, N. 39° 05′. W. 59° 30′†	29.95	760.7	74	23.3		sse.			4				sse.	0	0	3	se.	overcast.
Schr. C. R. Flint, Off Tampico Bar. Mexico†	30.12	765.0	82	27.8		w.			1		1		e.	0	0	sm'h	e.	fair.
Schr. Edith R. Seward, Wilmington, N. C*†	30.08	764.0	76	24.4		sw.			1		2		calm	0	0			clear.
S. E. J. Spicer, N. 45° 56′. W. 36° 20′†	30.17	766.3				wnw.			5		7		nw.	2 h'r	2 h'r	mod.	nw.	
Bk. Essex, N. 3° 01′ W. 30° 07′*†	30.02	762.5	81	27.2		se.			4		3		se.	0	0		se.	clear.
S. Exporter, S. 35° 20′, E. 73° 50′*†	29.90	759.4				nw.			6		6		nw.	0	0		nw.	cloudy.
Bk. Freya, N. 43° 28′, W. 36° 56′			63	17.2		sw.			4		0			0	0	sm'h		fine.
S. Grecian, Hong Hong, China*†	29.68	753.9	80	26.7		se.			6		6		se.	sq'lls	sq'lls			squally.
Bk. Hattie G. McFarland, Sydney, Cape Breton*†	30.03	762.7	60	15.6		ssw.			3		3		wsw.	0	0			foggy.
S. Hedwig, N. 41° 40′, W. 42° 13′	30.22	767.5	66.2	19.0	97	ssw.			5		10		ssw.	1 h'r	1 h'r	sm'h	sw.	drizzling.
S. Ismir, S. 28° 00′, W. 37° 00′†	30.32	770.1				nne.			3		7		nne.			swell	ne.	dull.
Schr. James Slater, N. 3° 05′, W. 46° 40′*†	30.28	769.1	84	28.9		ese.			3		5		ese.	10 h'r	10 h'r	long	se.	
Schr. Jennie N. Huddle, Boston, Mass†	29.98	761.5	64	17.8	78	sw.			3		8		w.	0	0			threatening.
Schr. John L. Thomas, Little Cornld, C. A.*†	30.00	762.0				calm			0		3		se.	0	0			fair.
Bkt. Josephine, N. 37° 33′ W. 74° 27′†	30.16	766.1	67	19.4	74	sse			4					0	0	long	ne.	clear.
S. S. Laurel, Key West, Florida†	30.10	764.5	82	27.8		ne.			4		9		ne.	0	0			cloudy.
S. Minnie N. Gerow, N 41° 20′, W. 65° 07′*†	30.00	762.0				s.			1		fog					sm'h	e.	foggy.
S. M. P. Grace, N. 24° 17′, W. 39° 47′*	30.19	766.8	76	24.4		sse.			3				sse.	0	0	sm'h	e.	fine.
S. S. Nebo, St John, N. S.*†	30.51	774.9				w.			2		10		w.	0	0	sm'h		misty.
S. Paramita, S. 57° 10′ W. 69° 30′†	29.48	748.8	43	6.1		wnw.			5		6		wsw.	1 h'r	1 h'r	hv'y	wsw.	cloudy.
Bk. Peppina, N. 47° 10′, W. 4° 37′†	30.16	766.1	58	14.4	72	nnw.			4		5		n.	0	0		nw.	fair.
Bg. Potomac, N 24° 14′, W. 57° 22′*†	30.10	764.5				sw.			3				sw.	0	0	light	sw.	squally.
Bk. Princessen, N. 54° 50′, E. 10° 49′†	29.35	745.5	55	12.8		sw.			6		8			5 h'r	5 h'r	sm'h		threatening.
Bk. Rosebud, S. 24° 14′ W. 30° 00′*†	30.25	768.3	70	24.4	69	e.			3		0			0	0	sm'h		fine.
S. Salisbury, S. 34° 01′, E. 94° 00′*.	30.08	763.9	56.8	13.8	91	s;n.			1		10		se.	0	0	mod	ssw.	cloudy.
S. S. Sunbeam, N. 51° 20′, E. 1° 30′	29.93	760.2	57	13.9	74	nnw.			7		8		nnw.					d. clouds.
Bg. Teneriffe, N. 23° 35′, W. 70° 35′	30.01	762.2				sw.			4		2		w.	0	0	mod.		fine.
Bk. Truro, Havre, France*†	30.00	762.0				wnw.			4		2		wnw.	3 h'r	3 h'r			clear.
U. S. F. C. S. Fish Hawk, Havre de Grace, Md†	30.12	765.0	73	22.8	90	ssw.			2		4		calm	0	0			fair.
Yacht Vega, N. 28° 58′, W. 69° 05′*†	30.15	765.8	72	22.2		n.			1		1		nne.	2 h'r	2 h'r		n.	fair.
Bk. Vincenzo Accame, N. 38° —′, W. 29° —′†	30.43	773.0	71.6	22.0		se.			3									
Schr. Viola Reppard, Brunswick, Ga†	30.01	762.2	79	26.1		wsw.			1		1		nw.	0	0			clear.
Bkt. Wandering Jew, N. 39° 57′, W. 72° 19′*†	30.00	762.0	66	18.9		s.			5		3		sse.	0	0	long	ene.	clearing.
Bk. Warden Law, N. 42° 44′, W. 39° 39′*	30.317	769.97				sse.			2		2		s.	0	0	sm'h	se.	fair.
Bg. Wauburn, Off Sandy Hook, N. J*†	30.00	762.0				ssw.			4		4		sw.	0	0	chop	se.	hazy.
Bk. Wm. Wilcox, N. 1° 30′, W. 28° 52′*†	30.21	767.3	78	25.6		se.			3					0	0	mod.	se.	hazy.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 16, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.04	762.9	75.2	24.0	69	s.			1		1			0	0	very fair	Moiroud
Algiers			30.08	764.0	77.7	25.4	53	w.			6		0			0	0	clear	Nicolas.
La Calle			30.10	764.6	78.4	25.8	73	ne.			1		2			inap.	inap.	fair	Fonfrède.
Tunis			30.07	763.7															Jacques.
Saida			30.13	765.2	85.6	29.8	35	se.			2		1			0	0	very fair	Perés.
Tebessa			30.15	765.9	92.1	33.4	15	wnw.			3		2			0	0	fair	Derché.
Geriville					85.3	29.6	33	nw.			1		0			0	0	clear	Lonchamp.
Laghouat			30.17	766.4	93.9	34.4	39	n.			2		0			0	0	clear	Abraham.
Biskra			30.20	767.0	99.3	37.4	19	sse.			2		2			0	0	fair	Malau.
Australian.																			
Melbourne, Victoria	29.59	751.6	29.68	753.9	46.3	7.9	82	wnw.	12	5.4			10			0.07	1.8	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.36	745.8	29.91	759.8	52.9	11.6	88	ne.			2		10			0.937	23.8	raining	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.05	737.9	29.81	757.2	55.0	12.8	64	w.	13.6	6.1			4			0.169	4.3		Dr. Wierzbiski.
Eperies	28.91	734.2	29.76	755.9	64.4	18.0	61	w.			1		9 ks		e.	0	0		Julius Mikolik.
Gratz	28.68	728.5	29.91	759.8	61.0	16.1	88	nw.			3		7			c	0		Andreas Rospini.
Hermannstadt	28.45	722.6	29.83	757.7	68.4	20.2	47	nw.			4		10			0.520	13.2		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.67	728.1	30.00	762.0	54.5	12.5	61	wnw.			2		6			0.012	0.3		The Staff.
Lemberg	28.79	731.3	29.75	755.7	60.4	15.8	58	nw.			3		9			0.213	5.4		Dr. T. Stanecki.
Pola	29.78	756.4	29.89	759.1	74.7	23.7	64	s.			2		5			0	0		I. R. Hydrographic Office.
Szathmar	29.39	746.4	29.84	757.9	63.5	17.5	52	sw.			4		10			0	0		Joseph Midlinszky, S. J.
Szegedin	29.67	753.5	29.94	760.5	58.5	14.7	62	sw.			1		10			0.016	0.4		Karl Stancel.
Trieste	29.80	756.8	29.90	759.4	67.3	19.6	58	e.			2		10			0.480	12.2		Royal Academy.
Vienna	29.23	742.5	29.93	760.3	62.6	17.0	46	w.			4		2			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.06	763.5	30.16	766.1	53.0	11.7	63	n.	12	5.4			6			0	0	d. clouds	W. Boswell
Armagh, Observatory																			S. Call.
Bidston, Liverpool Obs'y			30.23	767.8	54.1	12.3	50	wnw.	19	8.5			1					blue sky	John Hartnup.
Bolton, Sharples	29.65	753.1	30.19	766.8	55.6	13.1	68	nw.	12	5.4			4					d. clouds	Thomas Mackereth, A.S.
Bradford, Yorkshire	29.80	756.9	30.19	766.8	57.3	14.1	46	nw.			2		5			0.01	0.3	d. clouds	J. McLandsborough, F. R
Bridgetown, Barbadoes																			Corpl. J. Surgenor, A. H.C.
Cardington																			John McLaren.
Chatham, School M. E.	30.09	764.3	30.22	767.6	59.0	15.0	81	calm			0		6					d. clouds	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	30.05	763.3	30.28	769.1	59.7	15.4	76	sse.			2		5					d. clouds	The Staff.
Fort Napier, Natal	27.83	706.9	30.04	763.0	74.0	23.3	20	s.			3		0					blue sky	Pvt. Lane, A. H.C
Free Town, Sierra Leone	29.68	753.9	29.91	759.7	88.0	31.1	59	w.			1		4					d. clouds.	Sergt. John Robinson.
Gibraltar, Mediterranean	30.04	763.0	30.09	764.3	78.5	25.8	73	w.			3		0					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.99	761.7	30.19	766.8	56.4	13.6	45	w.			2		5					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.04	763.0	30.21	767.3	60.9	16.1	53	nne.			1		6					d. clouds	The Staff.
Guernsey	29.97	761.2	30.27	768.8	58.0	14.4	57	n.			1		0					blue sky	A. Collenette, F. M. S.
Kew, Observatory	30.18	766.6	30.22	767.6	58.3	14.6	50	n.	6	2.7			6					hazy	The Staff.
Leicester, Museum	29.93	760.2	30.18	766.6	60.0	15.6	49	nw.			1		6					d. clouds	J. C. Smith.
Malta, Mediterranean	29.90	759.4	29.98	761.5	78.2	25.7	55	s.			1		2					blue sky	I. H. Whysall.
Nassau, Bahamas	30.09	764.3	30.13	765.3	80.5	26.9	68	ne.			1		6					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.69	754.1	30.21	767.3	58.6	14.8	50	nw.			3		5					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.99	761.7	30.22	767.6	59.1	15.1	48	nw.			2		6					d. clouds	The Staff.
Plymouth	30.16	766.1	30.23	767.8	65.0	18.3	52	w.			2		2					d. clouds	John Merrifield.
Sandwick Manse, Orkneys			30.16	766.1	48.5	9.2	74	nw.	10	4.5			0					blue sky	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.83	757.7	29.90	759.4	77.0	25.0	59	sw.			2		3					d. clouds	W. H. Lyne.
Sheffield	29.91	759.7	30.19	766.8	58.9	14.9	67	ne.			1		10			0	0	overcast	W. F. Cooper.
Silloth Rectory	30.18	766.6	30.20	767.1	60.2	15.7	52	wnw.			1		0			0	0	blue sky	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.21	767.3	56.0	13.3	48	nw.	7	3.1			7					d. clouds	J. New.
Stratfield Turgiss	30.01	762.2	30.23	767.8	63.6	17.6	54	nw.			3		3					d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	30.24	768.1	30.26	768.6	65	18.3	45	s.			2		4					d clouds	W. Newcombe.
Valencia, Observatory	30.23	767.8	30.26	768.6	57.6	14.2	64	wsw.	12	5.4			6					d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.59	751.6	29.63	752.6	61	16.1	89	s.	9	4.0			10 s		sw.	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.49	749.0	29.55	750.6	57	13.9	77	s.	13	5.8			10 ks		s.	0	0	cloudy	G. A. Blair.
Father Point, Quebec*	29.39	746.5	29.41	747.0	59	15.0	93	w.	10	4.5			10 n		s.	0.53	13.5	light rain	J. McWilliams.
Halifax, N. S*	29.61	752.1	29.74	755.4	59	15.0	100	s.	7	3.1		0	fg			0.056	1.4	foggy	A. Allison.
Kingston, Ontario*	29.38	746.2	29.70	754.4	67	19.4	84	ne.	3	1.3		4 c	0	w.		0.12	3.0	fair	A. P. Knight, M. A.
Montreal, Quebec*	29.41	747.0	29.61	752.1	68	20.0	81	w.	14	6.3		2 k	8 ks	n.		0.65	16.5	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.08	738.6	29.76	755.9	58	14.4	86	n.	6	2.7		5 k	5 kr	n.	n.	0	0	cloudy	Rev. R. Mosley.
Port Dover, Ontario	29.09	738.9	29.76	755.9	65	18.3	84	w.	3	1.3		5 ck	0	nw.		0.08	2.0	fair	H. Morgan.
Port Stanley, Ontario	29.14	740.1	29.76	755.9	65	18.3	90	n.	1	0.4		5 ck	hz	w.		0.23	5.8	hazy	M. Payne.
Quebec, Quebec*	29.21	741.9	29.51	749.5	66	18.9	90	nw.			3	0	3 s		w.	0.49	12.4	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.34	745.2	29.79	756.7	54	12.2	86	w.	5	2.2			10 s			1.55	39.4	cloudy	W. H. McIntyre.
Saugeen, Ontario*	29.08	738.6	29.78	756.4	55	12.8	93	w.	6	2.7			fg.			0.06	1.5	foggy	
St. Andrews, N. B	29.54	750.3	29.59	751.6	54	12.2	76	sw.	6	2.7		0	5 n			0	0		
Sydney, C. B*	29.72	754.9	29.78	756.4	59	15.0	93	sw.	14	6.3			10 n			0.01	0.3	cloudy	T. C. Hill, C. E
Toronto, Ontario*	29.39	746.5	29.76	755.9	64	17.8	87	sw.	4	1.8		5 cs	0	w.		0.05	1.3	fair	Magnetic Observatory.
Yarmouth, N. S*	29.62	752.3	29.68	753.9	59	15.0	65	s.	16	7.2		8 ck	2 s	sw.	s.	0	0	cloudy	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.41	721.6	29.86	758.4	57.0	13.9	100	nw.					10 k; n		nw.	0.047	1.2	cloudy	Wm. Wylie.
St. Johns, Newfoundland	30.01?	762.2?	30.25?	768.3?	71?	21.7?	80	sw.	3	1.3		5 k	5 s			0	0		John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.26	768.6	30.29	769.4	62.0	16.7	90	wsw.	14.0	6.3		0	2 s			0	0	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	30.26	768.6	30.30	769.6	60.8	16.0	63	nw.	4	1.8		9	8			0.188	4.8		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Velocity. Miles p. hr.	Velocity. Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Amount and kind. Lower. 0–10	Direction. Upper. From.	Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Haukow	29.52	749.8	29.80	756.9	71.5	21.9	95	calm			0		10					raining	N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.54	750.3	29.57	751.0	72.5	22.5	99	ene.	10.7	4.8			10 n			1.146	29.1	raining	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.65	753.0	29.69	754.2	56.5	13.6	70	nne.	9	4			5						Oversergent Fischer.
Fanöe	29.77	756.2	29.79	756.7	56.3	13.5	87	nw.			6		8						Overloerer Lauridsen.
Godthaab, Greenland	29.72	755.0	29.77	756.1	33.1	0.6	89	wsw.			2		10			0	0	foggy	S. Kleinschmidt.
Stykkisholm, Iceland	29.65	753.2	29.70	754.3	44.8	7.1	86	se.			6		10					raining	A. O. Thorlacius.
Thorshavn	30.00	763.4	30.09	764.3	49.3	9.6	48	sse.	9	4			3						Overloerer Bergh.
Vestervig	29.70	754.3	29.79	756.6	58.5	14.7	68	nnw.			4		2						Loenrer Oesterbol.
FRENCH.																			
Aken, Normal School	29.49	749.0	30.13	765.2	71.2	21.8	50	n.			1	ck	0			0	0		M. Labroue, Director.
Alençon, Normal School	29.69	754.0	30.24	768.0	60.8	16	79	ne.			1		k			0	0		M. Nicot, Director.
Arras, Engineer School	30.08	763.9	30.33	770.4	56.8	13.8	73	nne.			4		kn		nne.	0.118	3.0		M. Fénéon, Command't.
Avignon, Normal School	29.91	759.6	29.98	761.6	68.7	20.4	40	n.			4		5		n.	0	0	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.03	752.7	30.18	766.6	61.9	16.6	41	e.			1		7		e.	0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.94	760.4	30.20	767.1	61.7	16.5	40	nw.			1		5		nnw.	0	0	cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.18	741.2	30.14	765.5	61.9	16.6	47	ne.			2		k		sw.	0	0		M. Gobin, Director.
Bordeaux, Observatory	29.89	759.3	30.15	765.8	67.6	19.8	42	wnw.			1		1			0	0	almost clear	M. Rayet, Director.
Bourges, Normal School	29.63	752.6	30.17	766.3	68.0	20	37	n.			1		k		n.	0	0		M. Postel, Director.
Brest, Naval Observatory	30.04	762.9	30.28	769.1	63.7	17.6	50	ne.			2		3		ne.	0	0		M. de Kermaree, Dir.
Caen, Normal School	30.13	765.2	30.20	767.1	62.2	16.8	57	n.			2		0			0	0	clear	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.83	757.6	30.15	765.7	51.8	11.0	52	w.			3		5		nnw.	0	0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.65	753.1	30.17	766.2	55.8	13.2	58	sw.			1		10			0.12	3.	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.80	731.4	30.14	765.5	61.2	16.2	48	nne.			2		8		n.	0	0	¾ covered	M. Alluard, Director.
Cluny, Normal School	29.29	744.0	30.20	767.1	61.5	16.4	55	n.			2		2		n.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.31	744.5	30.18	760.5	57.4	14.1	58	nw.			1		kn	nw.	nw.	0.04	1.		Dr. Coulet, Director.
Gap, Normal School	27.49	698.2	29.96	761.0	68.4	20.2	39	nw.			2		1 cn		s.	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.82	732.1	29.91	759.7	72.3	22.4	34	nw.			4		5		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.25	742.9	30.00	762.0	63.9	17.7	53	nw.			4		2			0	0	slightly cl'dy	M. Ablard, Director.
Guéret, Normal School	28.00	726.4	30.17	766.2	58.1	14.5	62	n.			2		2		n.	0	0	slightly cl'dy	M. Rivoire, Director.
Lamballe, Normal School	29.98	761.4	30.25	768.4	63.5	17.5	55	n.			1		2		n.	0	0	slightly cl'dy	M. Ollitrault, Director.
Lescar, Normal School	29.01	752.1	30.17	766.3	63.5	17.5	90	s.			1		5			0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	30.10	766.0	30.26	768.6	66.6	19.2	39	n.			2		5		n.	0	0	½ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.68	738.6	30.13	765.2	62.6	17.0	43	nne.			2		5 n		nne.	0	0	½ covered	M. André, Director.
Mans, Normal School	29.91	759.8	30.22	767.7	52.3	11.3	90	ne.			1		5		n.	0	0	cloudy	M. Piboen, Director.
Marseille, Observatory	29.00	753.4	29.93	760.1	71.4	21.9	49	nw.			4		7		nw.	0	0		M. Stephan, Director.
Montlouis	24.91	632.6	29.75	755.6	59.0	15.0	28	e.	7.4	3.3			0			0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.87	758.6	29.99	761.7	76.3	24.6	31	nw.			2		5			0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	29.35	745.5	30.12	765.1	61.2	16.2	52	nw.			1		k		n.	0.008	0.2		M. Hasse, Director
Nantes, Observatory	30.08	763.9	30.24	768.0	66.9	19.4	48	nne.			1–2		6 k; kn		nne.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.94	760.5	30.04	763.1	75.7	24.3	41	ne.	18.6	8.3			10		wnw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.35	542.2			45.3	7.4		sw.			1		2		sw.	0	0	slightly cl'dy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.97	735.8	30.02	762.4	66.9	19.4	36	n.			3		5 k		s.	0	0	cloudy	M. Tailleu.
Puy de Dôme Obs'y, Summit	25.20	641.6			41.0	5.0	73	nne.			3		5		nne.	0	0	¼ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	30.17	766.2	30.20	767.0	69.1	20.6	100	nw.			2		5		nne.	0	0	½ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.99	761.7	30.20	767.0	64.9	18.3	55	n.			3		5		ne.	0	0	cloudy	M. Mouillot, Director.
Rodez, Normal School	27.99	710.9	30.10	764.4	63.9	17.7	49	sw.			1		kn		s.	0	0		M. Seger, Director.
Rouen, Normal School	30.18	766.5	30.22	767.7	61.2	16.2	50	nw.			3		2		nw.	0	0	slightly cl'dy	M. Brotier.
Saint Maur, Observatory	30.02	762.6	30.19	766.8	64.6	18.1	42	nnw.			1		4		nnw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.45	747.9	30.17	766.4	73.9	23.3	36	n.			1		1		nw.	0	0	clear	M. Baillaud, Director.
Tours	30.01	762.3	30.19	766.8	65.1	18.4	46	nne.			1		1 k		ne.	0	0	clear	M. de Tastes.
Versailles, Observatory	29.71	754.6	30.20	767.0	62.6	17.0	34	nw.			3					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.91	759.6	30.20	767.0	63.1	17.3	36	nw.			1		6		nnw.	0	0		M. Marié Davy, Director
GERMAN.																			
Bamberg	29.17	740.8	30.02	762.5	57.7	14.3	50	w.			3	0	7 k		w.	0.051	1.3		Prof. Dr. Hoh.
Berlin	29.69	754.1	29.87	758.6	50.0	10.0	95	sw.			3		10			0.323	8.2		Prof. Dr. Arndt.
Breslau	29.30	744.3	29.83	757.7	55.8	13.2	44	w.			6		7			0.031	0.8		Royal University Obs'y.
Carlsruhe	29.09	754.0	30.12	765.1	59.0	15.0	50	w.			2		10	w.		0.071	1.8		Albert Senz.
Cassel	29.23	742.5	29.95	760.6	55.0	12.8	74	nw.			7		8	w.		0.209	5.3		Dr. H. Möhl.
Frankfort-on-the-Main	29.69	754.2	30.06	763.4	59.9	15.5	39	wnw.			3		7			0	0		Physical Society.
Friedrichshafen	28.60	727.9	30.09	764.2	57.6	14.2	68	s.			5		2	sw.		0	0		Wilhelm, Chief Tel.
Hamburg	29.71	754.7	29.81	757.1	51.6	10.9	91	wnw.			7		10			0.461	11.7	rainy	E. Preller.
Kiel	29.76	755.8	29.77	750.2	55.6	13.1	82	nw.			1		9			0.496	12.6		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.48	748.7	29.89	759.3	57.0	13.9	46	w.			6		7	w.		0.268	6.8	stormy	H. Leppig, Asst.
Magdeburg	29.05	753.2	29.84	757.9	54.7	12.6	62	wnw.			6		10 ks		wnw.	0.083	2.1		Dr. Assmann.
Memel	29.55	750.5	29.60	751.7	59.7	15.4	63	nnw.			2	0	5 n						Issermann.
Munich	28.25	717.5	30.11	764.9	55.6	13.1	41	nw.			4		5	nw.		0.063	1.6		Central Station
Neufahrwasser	29.00	751.8	29.61	752.2	57.2	14.0	78	ne.			1		9			0.209	5.3	raining	A. Lothes.
Neustadt, Palatinate	29.55	750.6	30.08	764.0	58.6	14.8	49	w.			3		8	w.		0.039	1.0		Dicknether.
Stuttgart	29.14	740.2	30.03	762.7	58.1	14.5	40	nw.			3		4	w.		0	0		Prof. Dr. Schoder.
Wustrow	29.66	753.4	29.69	754.0	55.9	13.3	81	nnw.			4	0	8 s			0.110	2.8		Profs. Brandes & Reimer
GREEK.																			
Athens	29.56	750.8	29.94	760.4	77.2	25.1		s.			2.5		0			0	0	clear	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.49	749.1	29.54	750.3	88.1	31.2	80	w.	41.0	18.3			6		w.	0	0	misty	
Deesa	28.97	735.8	29.42	747.2	100.3	37.9	27	w.	25.2	11.3			8	sw.		0	0	d. clouds	
Bombay	29.07	753.7	29.71	754.7	84.1	28.9	83	w.	17.0	7.6			10		wsw.	0.20	5.1	overcast	
Poona, Yarrowda	27.85	707.4	29.70	754.4	77.5	25.3	74	wsw.	20.0	8.9			8	w.	w.	0.02	0.5	d. clouds	
Trichinopoly	29.47	748.6	29.75	755.0	86.9	30.5	49	wnw.	4.0	1.8			10			0	0	overcast	
Bellary	28.21	716.4	29.64	752.8	89.5	31.9	41	nw.	17.7	7.9			7			0	0	d. clouds	
Belgaum	27.22	691.5	29.77	756.2	72.0	22.2	88	wsw.	16.0	7.2			7	e.	sw.	0.13	3.3	showery	
Lahore	28.58	725.8	29.28	743.8	96.7	35.9	26	se.	2.4	1.1			8			0	0	misty	
Roorkee	28.46	723.0	29.33	744.9	91.4	33.0	61	se.	3.7	1.6			4			1.02	25.9		
Agra	28.81	731.7	29.36	745.7	85.2	29.6	68	e.	5.1	2.3			10		e.	0	0	overcast	
Nagpur	28.44	722.4	29.46	748.3	86.2	30.1	55	nw.	8.6	3.8			10		w.	0	0	overcast	
Jubbulpore	28.11	713.9	29.46	748.2	74.0	23.3	97	w.	7.7	3.4			10		w.	7.29	185.2	raining	
Lucknow	28.96	735.5	29.32	744.8	88.6	31.4	69	n.	4.0	1.8			9	sw.		0.17	4.3	d. clouds	
Allahabad	28.94	735.0	29.24	742.7	81.8	27.7	90	ene.	8.5	3.8			10			0.94	23.9	overcast	
Patna	29.20	741.6	29.38	746.3	80.4	26.9	91	ese.	13.3	5.9			8	ese.	ese.	0.27	6.9	d. clouds	
Hazaribagh	27.38	695.5	29.37	746.0	75.6	24.2	57	se.	11.0	4.9			10			0.28	7.1	thund'rst'm	
Cuttack	29.35	745.5	29.43	747.6	86.6	30.3	72	sw.	3.1	1.4			8			0.02	0.5	d. clouds	
Calcutta, Alipore	29.38	746.2	29.40	746.8	81.8	27.7	87	s.	4.0	1.8			9		se.	0.33	8.4	gloomy	
Dhubri	29.36	745.7	29.48	748.7	82.2	27.9	87	s.	8.7	3.9			10		se.	0.10	2.5	threatening.	
Chittagong	29.42	747.2	29.51	749.5	81.7	27.6	84	ese.	10.9	4.9			10			0	0	overcast	
Sibsagar	29.16	740.6	29.48	748.8	88.0	31.1	71	sw.	1.0	0.4			8	sw.	sw.	0	0	d. clouds	
Jeypore	27.97	710.3	29.35	745.4	95.4	35.2	38	wnw.	6.7	3.0			9	w				drizzling	
Zanzibar, Africa	30.08	764.0			79.6	26.4	67						8			0.15	3.8	gloomy	
ITALIAN.																			
Udine	29.47	748.4	29.87	758.6	67.3	19.6	76	w.	4.3	1.9			9			0	0		Prof. Giovanni Clodig.
Milan	29.30	745.7	29.86	758.5	73.0	22.8	37	w.	6.3	2.8			3	w.		0	0		Prof. Schiaparelli.
Padua	29.73	755.1	29.84	757.8	75.2	24.0	45	wsw.	4.3	1.9			0	wnw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.97	735.9	29.85	758.2	73.8	23.2	37	se.	5.6	2.5			7	n.		0	0		Prof. P. F. Denza.
Genoa	29.72	754.8	29.91	759.6	68.4	20.2	68	se.	11.2	5.0			4	se		0	0		Prof. G. M. Garibaldi.
Mondovi	27.98	710.7	29.84	757.8	71.6	22.0	41	e.			4		6	w.		0	0		Prof. D. O. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Pesaro	29.80	757.0	29.85	758.2	72.1	22.3	62	e.	6.9	3.1			10			0	0		Prof. Luigi Guidi.
Florence	29.65	753.2	29.90	759.5	74.8	23.8	47	nw.			2		7	W.		0	0		Prof. Costantino Pitter
Leghorn	29.78	756.5	29.87	758.6	72.7	22.6	61	sw.	3.8	1.7			9			0	0		Prof. P. S. Ferrari.
Rome	29.77	756.1	29.94	760.4	76.6	24.8	42	sw.	0	0			10			0	0		Prof. C. de Giorgi.
Lecce	29.67	753.5	29.91	759.7	82.0	27.8	33	ssw.	16.8	7.5			5			0	0		Prof. D. Conti.
Cosenza	29.06	738.1	29.92	760.0	78.4	25.8	72	ssw.	3.1	1.4			5	sw.		0	0		Prof. A. Pacinotti.
Cagliari	29.69	754.0	29.87	758.8	84.4	29.1	18	w.			2		1			0.008	0.2		Prof. G. Ciacciatore.
Palermo	29.69	754.0	29.93	760.3	76.3	24.6	39	ne.	9.8	4.4			7			0	0		Prof. Vincenzo Guiliano.
Syracuse	29.89	759.3	29.94	760.4	76.8	24.9	59	se.	7.4	3.3			3	ssw.		0	0		
Sub-series.																			
Naples, S. R	29.44	747.7	29.95	760.7	70.7	21.5	68	e.	3.1	1.4			9	sw.		0	0		Prof. T. Brioschi.
Stelvio	22.14	562.3			36.3	2.4	52	ne.			4		2			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.17	563.1			44.6	7.0	63	n.			2		5			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.79	756.6	29.82	757.4	62.9	17.2	88	calm	0	0		0	1 s			0	0	clear	K. Ogawa.
Hakodate	29.81	757.2	29.82	757.4	58.0	14.4	90	calm	0	0			3			0	0	clear	
Hiroshima, I. M. Obs'y	29.67	753.6	29.68	753.9	63.8	17.7	95	nne.	0.8	0.4			10 n			1.177	29.9	light rain	I. Sogawa.
Kanazawa	29.80	756.9	29.90	759.4	68.7	20.4	70	ne.	3.5	1.5		ck	10 s			0.235	6.0	cloudy	S. Endo.
Kioto	29.62	752.3	29.78	756.4	69.0	20.6	80	ne.					10 n			0.285	7.2	light rain	M. Tojima.
Kochi	29.73	755.1	29.76	755.9	63.8	17.7	91	nw.	14.5	6.5			10 n			2.390	60.7	light rain	K. Kusunose.
Nagasaki, I. M. Obs'y	29.45	748.0	29.64	752.8	72.6	22.6	97	w.	10.1	4.5			10 n			8.710	221.2	heavy rain	S. Takehayashi.
Nemuro	29.65	753.1	29.71	754.6	53.0	11.7	93	calm	0	0		0	0			0	0	clear	
Niigata	29.69	754.1	29.73	755.1	65.5	18.6	83		1.0	0.4		10 ck		ene.	ene.	0.070	1.8	cloudy	M. Morita.
Nobiru	29.83	757.7	29.84	757.9	65.5	18.6	96	ssw.	15.8	7.1			10 s			0.115	2.9	overcast	H. Midzushima.
Supporo					63.0	17.2	82	nw.	4.8	2.1			3			0.031	0.8	clear	
Tokei Obs'y, Yeddo	29.80	756.9	29.87	758.7	69.6	20.9	81	s.	9.2	4.1			10 s			0.823	20.9	cloudy	The Staff.
Wakayama	29.71	754.6	29.77	755.9	64.2	17.9	85	e.	1.5	0.7			10 n			0.317	8.0	light rain	Y. Kuwamuea.
MAURITIUS																			
Mauritius Observatory	30.07	763.8	30.26	768.6	70.7	21.5	61	se.	16.0	7.2		0	6 ks;n		se.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.74	603.1	29.96	761.1	57.7	14.3	85	ene.				0	0			0	0	clear	Prof. Vicente Fernandez.
Leon	24.36	618.7	30.01	762.2	60.1	15.6	82	nnw.			1	0	1 k			inap.	inap.		Prof. M. Leal.
Mazatlan	29.73	755.1	29.99	761.6	77.0	25.0	91	e.				0	1 s			0	0	hazy	F. Quijano, C. E.
Mexico, Central Obs'y	23.16	588.2	30.19	766.7	55.4	13.0	83	nw.	0.4	0.2		3 ck	5 ks			0.024	0.6	cloudy	The Staff.
Morelia	24.25	616.0	30.33	770.4	60.1	15.6	76	n.			3	1	0			0.532	13.5	clear	M. Tena, M. D.
Pabellon, Aguascallentes	23.97	608.9	29.89	759.3	63.9	17.7	70	ne.			2					0	0		M. V. de Leon, M. E.
Puebla, Catholic Institute	23.47	596.2	30.21	767.3	55.9	13.3	90	ne.	3.6	1.6		0	9		n.	0	0	covered	Prof. P. Spina.
San Luis Potosi	24.28	616.8	30.23	767.8	63.2	17.3	68	e.				0	0			0	0	foggy	G. Barroeta, M. D.
Zacatecas	22.60	574.1	30.21	767.3	53.3	12.0	77	e.	6.9	3.0		0	0			0	0	fine	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.20	767.1	30.20	767.1	55.2	12.9		nw.			4					0.055	1.4		
Groningen	29.97	761.1	30.02	762.5	52.7	11.5		n.			5					0.244	6.2		
Helder	30.09	764.2	30.09	764.2	50.7	10.4		nw.			5					0.028	0.7		
Hellevoetsluis	30.16	766.1	30.16	766.1	53.6	12.0	64	nw.			3					0.012	0.3		
Utrecht	30.08	764.1	30.13	765.3	57.4	14.1	55	wnw.			3		8			0.004	0.1	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.75	755.7	29.82	757.3	55.8	13.2	55	nnw.	18	8			0			blank	blank		
Brono	29.82	757.4	29.86	758.4	44.6	7.0	79	n.	13	6			10			0.177	4.5	raining	
Christiania	29.61	752.1	29.75	755.7	61.9	16.6	48	nnw.	7	3			3			0.020	0.5		
Glessvær	29.72	754.8	29.74	755.4	50.5	10.3		se.			4		8						
Lodingen	29.72	754.8	29.76	756.0	50.5	10.3	59	n.			2		5			0	0		
PORTUGUESE.																			
Angra, Azores					65.5	18.6	77	sse.	8.1	3.6			3			0	0		Dr. J. A. Sampaio.
Campo Major	29.08	738.6	30.04	763.0	81.5	27.5	38	sw.	1.8	0.8			1			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.16	766.1	30.25	768.3	68.2	20.1	61	sw.	3.1	1.4			10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.79	756.6	30.14	765.6	66.7	19.3	65	sw.	15.0	6.7			2	wsw.		0	0		The Staff.
Ponta Delgada, Azores	30.28	769.1	30.35	770.9	69.8	21.0	51	nne.	9.4	4.2			4			0	0		
Saint Paul de Lomdo	29.82	757.3	30.02	762.4	73.6	23.1	92	wnw.	0.7	0.3			8			0	0		
Serra da Estrella	25.43	645.8	30.01	762.2	64.9	18.3	36	se.	11.9	5.3			1			0.047	1.2		
RUSSIAN.																			
Akmolinski	28.51	724.1	29.52	749.9	75.9	24.4	33	nw.	13	6		1 c	0			0	0		
Archangel	29.36	745.7	29.38	746.2	61.7	16.5	91	e.	13	6			10			0.146	3.7	light clouds	Major K. Lasarew.
Astrakhan	29.76	756.0	29.68	753.9	86.7	30.4	50	se.	4	2		0	2 s			0	0		Capt. Sselliwerstow.
Barnaul	28.84	732.4	29.30	744.2	76.1	24.5	50	w.	4	2			4			0.051	1.3		Capt. Wisganow.
Dorpat	29.28	743.6	29.51	749.6	57.4	14.1	61	nne.	9	4		0	8 kn			blank	blank		Meteorological Obs'y.
Ekaterinburg	28.78	730.9	29.09	754.0	75.0	23.9	36	wnw.	13	6		0	7 k;ks			0	0		Observatory.
Irkutsk	28.02	711.6	29.60	751.9	60.3	15.7		e.					6			0	0		Meteorological Obs'y.
Kasan	29.45	748.1	29.71	754.5	77.7	25.4	40	s.	11	5		10 c	0			0	0		Observatory.
Kertch	29.72	754.8	29.74	755.3	71.1	21.7	61	nw.	22	10		0	6 n			0.094	2.4		Lagorio & Sastyrez.
Kieff	29.06	738.0	29.66	753.4	68.4	20.2	43	sw.	11	5		c	9 k;ks			0.039	1.0		Observatory.
Lugan	29.45	747.9	29.64	752.9	76.8	24.9	56	wnw.	9.	4			10			0	0		Meteorological Obs'y.
Moscow	29.07	738.4	29.53	750.0	62.4	16.9	65	s.	4	2		0	6 ks						Meteorological Obs'y.
Nikolaiev	29.76	756.0	29.84	757.8	79.3	26.3	34	s.	18	8		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.47	748.6	29.56	750.8	58.5	14.7	87	se.	11	5			10			0.146	3.7	thund'r st'm	Lieut. Iwanow.
Pekin, China	29.24	742.8	29.39	746.4	88.0	31.1	38	calm	0	0		0	3 k			0	0		Physical Observatory
St. Petersburg	29.44	747.7	29.45	748.1	56.8	13.8	58	wnw.	9	4			9 kn			0	0		Central Physical Obs'y
Semipalatinsk	28.84	732.5	29.45	747.9	82.8	28.2	41	nw.	11	5		0	1			0	0		Major Lasarew.
Taskhend, Laboratory	28.05	712.4	29.50	749.3	85.5	29.7	55	calm	0	0			7			blank	blank		Teich, A. M.
Tiflis	28.28	718.2	29.62	752.3	75.6	24.2	51	nw.	18	8			9 k			inap.	inap.		Physical Observatory
Vladivostock	29.56	750.8			59.2	15.1	94	calm	0	0			10 n						
Warsaw	29.26	743.1	29.68	753.8	51.8	11.0	83	wnw.	18	8			10ks;n					light rain	Astronomical Obs'y
Wilna	29.12	739.6	29.53	750.0	56.5	13.6	75	sw.	2	1			8			0.217	5.5	heavy clouds	Berg, Assistant.
SPANISH.																			
Barcelona, Met. Obs'y	29.93	760.2	30.03	762.8	70.5	21.4	59	se.	3.6	1.6			7			0.016	0.4		Antonio Rave, Director.
Bilbao, Met. Obs'y	30.15	765.8	30.21	767.3	66.2	19.0	67	nw.	2.2	1.0			10			0.031	0.8	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.19	690.5	30.09	764.2	66.7	19.3	76	ne.	3.4	1.5			0			0.059	1.5	clear	Domingo Martin.
Madrid, Royal Obs'y	27.85	707.5	29.99	761.7	78.8	26.0	39	nw.	6.3	2.8		1	0	wnw.		0.204	6.7	clouds	The Staff.
Murcia, Met. Obs'y	29.86	758.5	29.99	761.8	90.7	32.6	41	s.	5.1	2.3		0	4			0	0	clouds	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.15	740.3	30.01	762.2	74.7	23.7	55	nw.	7.4	3.3			1			0	0	almost clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	30.01	762.1	30.07	763.8	80.2	26.8	79	calm	0	0		2 s	0	w.		0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.83	757.7	29.89	759.2	80.2	26.8	88	nne.	4.8	2.1		0.	8 n		e.	0.039	1.0	drizzling	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.08	764.1	30.18	766.6	69.6	20.9	66	wsw.	4.7	2.1		0	9		w.	0.002	0.1		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.01	762.2	30.10	764.5	84.2	29.0	74	calm	0	0		1 cs	2 k	se.	se.	0	0	clear	Manuel Maese.
Tuguegarao, Philippine Id's	29.73	755.1	29.87	758.7	82.6	28.1	82	nnw.	5.6	2.5		0	1 k		n.	0	0	clear	José L. Ynstorza.
SWEDISH.																			
Haparanda	29.60	751.9	29.64	752.9	55.4	13.0	70	ne.			2		10			0.087	2.2		
Umea	29.63	752.5	29.68	753.8	58.6	14.8	70	s.			2		5			0	0		
Hernosand	29.61	752.2	29.67	753.5	55.8	13.2	77	nne.			2		10			0	0		
Stockholm	29.50	749.4	29.68	753.9	60.8	16.0	47	nnw.			4		5			0	0		
Wisby	29.54	750.4	29.60	751.9	55.4	13.0	77	nne.			4		3			0	0		
Sub-series.																			
Upsala	29.58	751.3	29.67	753.5	57.7	14.3	72	n.	6.9	3.1			3		nw.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.66	728.0	30.07	763.7	61.5	16.4	42	n.			3					0	0	clear	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
SCOTTISH.																			
Monach Lt			30.18	766.6	56	13.3	93	s.			3	5	3	s.		0	0		J. Youngclause.
North Unst			30.03	762.7				n.			2	3	4	ne.					
TURKISH.																			
Constantinople			29.96	761.0	72.5	22.5	49	sw.	8.8	3.5			5		n.	0	0		The Observatory.
Valona			30.01	762.2	77.5	25.3		sw.			1		5			0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.73	755.2	82.0	27.8	55	sw.			3	0	1 ks		sw.	0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.63	752.6	29.71	754.6	70.5	21.4	73	w.	1	0.4			10 ks		w.	0.27	6.9	cloudy	J. O. Barnes.
Alpena, Michigan	29.14	740.1	29.79	756.7	59	15.0	93	calm	0	0		0	fg.			0.07	1.8	light fog	Jas. J. Fitzgerald.
Atlanta, Georgia	28.88	733.5	30.03	762.7	71.5	21.9	86	w.	1	0.4			10 s			1.61	40.9	cloudy	H. Hall.
Atlantic City, New Jersey	29.74	755.4	29.75	755.6	74.8	23.8	71	nw.	8	3.6		5 c	0			0.06	1.5	fair	Jas. M. Watson.
Augusta, Georgia	29.81	757.2	30.00	762.0	77	25.0	74	w.	1	0.4		2 ck	8 s	w.	nw.	0.14	3.6	cloudy	John Healy.
Baltimore, Maryland	29.76	755.9	29.81	757.2	76	24.4	69	nw.	8	3.6		8 c;hz	hz.	w.		0	0	cloudy	Robert Seyboth.
Barnegat, New Jersey	29.72	754.9	29.74	755.4	75.0	23.9	71	nw.	7	3.1		4 cs	0	w.		0.02	0.5	fair	Chas. F. Merritt.
Behring Island, Behring Sea	29.55	750.6	29.57	751.1	43.5	6.4		se.	12	5.4			10 k			0.25	6.3	cloudy	Dr. L. Steineger.
Bismarck, Dakota	28.02	711.7	29.77	756.1	60	15.6	87	calm	0	0		4 c	0	w.		0.14	3.6	fair	Cyrus Cramer.
Boise City, Idaho	27.21	691.1	29.99	761.7	55	12.8	69	calm	0	0		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.49	749.0	29.64	752.8	67.0	19.4	84	w.	8	3.6		4 c	hz.	nw.		0	0	fair	O. B. Cole.
Brownsville, Texas	29.96	761.0	30.00	762.0	80.0	26.7	82	se.	4	1.8		0	0			0.15	3.8	clear	M. McCarty.
Buffalo, New York	29.04	737.6	29.78	756.4	60.3	15.7	90	s.	2	0.9		3 c;cs	hz.	s.		0.17	4.3	clear	Wm. Finn.
Burlington, Vermont	29.35	745.5	29.64	752.8	69.5	20.8	80	nw.	3	1.3		4 ck	4 s	w.	n.	0.09	2.3	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.61	752.1	30.00	762.0	72.8	22.7	95	w.	7	3.1			10 s		w.	0	0	threatening	W. H. Ray.
Campo, California	27.40	695.9	29.88	758.9	40	4.4	73	w.	1	0.4		6 ck	0	s.		0	0	fair	W. H. Olendenon.
Camp Thomas, Arizona	27.25	692.1	29.88	758.9	60	15.6	87	s.			1	2 cs	1 ks			0.26	6.6	clear	J. T. Fitzgerald.
Cape Henry, Virginia	29.83	757.7	29.85	758.2	75	23.9	71	sw.	8	3.6		5 c	0			0	0	fair	A. K. Alderson.
Cape May, New Jersey	29.76	755.9	29.79	756.7	68	20.0	90	w.	6	2.7		5 ck	3 ks	w.	sw.	inap.	inap.	cloudy	W. Bolton.
Cedar Keys, Florida	30.06	763.5	30.08	764.0	79	26.1	77	w.	6	2.7		4 ck	0	w.		0	0	fair	F. W. Mixer.
Champaign, Illinois	29.08	738.6	29.87	758.7	70.8	21.6	82	sw.	5	2.2		6 c	0	sw.		0	0	fair	L. A. Welsh.
Charleston, S. Carolina	29.90	759.4	29.95	760.7	80	26.7	74	w.	7	3.1		5 c	0	nw.		0.58	14.7	fair	J. H. Smith.
Charlotte, N. Carolina	29.06	738.1	29.89	759.2	76.0	24.4	74	w.	4	1.8		10 cs	hz.			0.09	2.3	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.22	742.2	30.03	762.7	73.0	22.8	90	sw.	5	2.2		1 ks	0			0.45	11.4	clear	B. L. Goulding.
Cheyenne, Wyoming	24.10	612.1	29.84	757.9	51.3	10.7	69	nw.	8	3.6			10 k		nw.	0	0	cloudy	E. McGovern.
Chicago, Illinois	29.13	739.9	29.82	757.4	70.1	21.2	76	w.	4	1.8		7 c	hz.	w.		0	0	fair	J. Mitchell.
Chincoteague, Virginia	29.78	756.4	29.80	756.9	73	22.8	84	nw.	3	1.3		7 cs	0			0	0	fair	V. P. Temple.
Cincinnati, Ohio	29.26	743.2	29.91	759.7	73.5	23.1	75	w	3	1.3		0	0			0	0	clear	R. B. Watkins.
Cleveland, Ohio	29.08	738.6	29.81	757.2	68.5	20.3	83	sw.	4	1.8			10 s			0	0	cloudy	J. B. Newlin.
Coleman City, Texas	28.25	717.5	30.00	762.0	71	21.7	84	sw.	4	1.8		0	0			0	0	clear	L. Dorman.
Columbus, Ohio	29.00	736.6	29.84	757.9	71	21.7	82	w.	6	2.7		0	0			0	0	clear	D. Cuthbertson.
Concho, Texas	28.12	714.2	29.99	761.7	73	22.8	84	calm	0	0		0	0			0	0	clear	W. W. McConihe.
Davenport, Iowa	29.20	741.7	29.84	757.9	70	21.1	84	calm	0	0		8 cs	hz.	w.	calm	0	0	cloudy	R. R. Martin.
Dayton, Washington T'y	28.26	717.8	30.00	762.0	57.8	14.3	84	s.	1	0.4		0	0			0	0	cloudy	H. Clifford.
Deadwood, Dakota	25.34	643.6	29.77	756.1	54	12.2	86	w.	4	1.8			10 s		w.	0.10	2.5	cloudy	G. W. Scott.
Decatur, Texas					78	25.6	55	se.	6	2.7		0	0			0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	29.77	756.1	29.79	756.7	70	21.1	90	w.	7	3.1		7 c	hz.	w.		0.29	7.4	fair	F. C. Pratz.
Denison, Texas	29.20	741.7	29.98	761.5	75.5	24.2	85	sw.	10	4.5		0	0			0	0	clear	J. McGlone.
Denver, Colorado	24.78	629.4	29.82	757.4	58.3	14.6	68	s.	5	2.2		7 cs	0	sw.		0	0	fair	F. M. Neal.
Des Moines, Iowa	28.95	735.3	29.83	757.7	69	20.6	84	nw.	4	1.8		7 cs	0	w.		0.11	2.8	fair	F. W. Conrad.
Detroit, Michigan	29.10	739.1	29.79	756.7	69.3	20.7	78	n.	4	1.8		hz.	hz.			0	0	light haze	C. F. R. Wappenhans.
Dodge City, Kansas	27.31	693.7	29.82	757.4	67	19.4	87	e.	3	1.3		5 cs	0			0	0	fair	E. A. Thomas.
Dubuque, Iowa	29.11	739.4	29.80	756.9	69.7	20.9	71	w.	1	0.4		6 c	0	n.		0	0	fair	J. Harvey Smith.
Duluth, Minnesota	29.00	736.6	29.70	754.4	63	17.2	63	calm	0	0			10 s		calm	0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.22	742.2	30.01	762.2	76.1	24.5	85	se.	6	2.7		0	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.35	643.9	29.94	760.5	47	8.3	61	s.	4	1.8		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.54	750.3	29.60	751.8	50.0	10.0	77	s.	12	5.4		4 k	4 s	sw.	sw.	0.03	0.8	cloudy	D. C. Murphy.
El Paso, Texas	26.31	668.3	29.90	759.4	68	20.0	57	ne.	12	5.4		8 ck	0	e.		0	0	cloudy	J. F. Marshall.
Erie, Pennsylvania	29.07	738.4	29.79	756.7	66	18.9	90	calm	0	0		5 cs	0			0.05	1.3	fair	Peter Wood.
Escanaba, Michigan	29.08	738.6	29.73	755.1	66	18.9	84	calm	0	0		0	3 s			0	0	clear	C. Dill.
Fort Apache, Arizona	25.10	637.5	29.86	758.4	44	6.7	71	ne.	1	0.4		0	3 s		calm	inap.	inap.	clear	W. O. Barnes.
Fort Assinnaboine, Montana	27.07	687.6	29.86	758.4	62	16.7	78	sw.	11	4.9		6 k	0	sw.		0.01	0.3	fair	B. O. Lenoir.
Fort Bennett, Dakota	28.25	717.5	29.79	756.7	64	17.8	84	n.	1	0.4		3 c	3 s	calm	calm	0	0	fair	A. Pritchard.
Fort Benton, Montana	27.11	688.6	29.88	758.9	61	16.1	84	w.	3	1.3		0	1 c			0.02	0.5	clear	G. W. Davis.
Fort Buford, Dakota	27.87	707.9	29.83	757.7	59	15.0	78	nw.	5	2.2			10 s		calm	0.02	0.5	cloudy	A. H. Bell.
Fort Custer, Montana	26.79	680.5	29.85	758.2	60	15.6	84	sw.	5	2.2			10 s		calm	0	0	cloudy	V. Verge.
Fort Davis, Texas	25.22	640.6	29.83	757.7	64	17.8	65	calm	0	0		0	0			0	0	clear	J. Williams.
Fort Elliott, Texas	27.18	690.4	29.85	758.2	71	21.7	71	se.	8	3.6			10 s		se.	0	0	cloudy	W. J. Cundall.
Fort Grant, Arizona	25.28	642.1	29.82	757.4	65.4	18.6	65	se.	4	1.8		0	1 s			0.12	3.0	clear	Robert O. Lord.
Fort Keogh, Montana	27.38	695.4	29.81	757.2	61	16.1	78	ne.	4	1.8		9 cs	0			0	0	cloudy	W. B. Stockman.
Fort Macon, North Carolina	29.86	758.4	29.87	758.7	74	23.3	90	sw.	10	4.5		6 cs	hz.	calm	calm	0.03	0.8	fair	W. W. Thomas.
Fort McKavett, Texas	27.82	706.6	30.02	762.5	71	21.7	82	sw.	8	3.6		0	0			0	0	clear	J. E. Thatcher.
Fort Missoula, Montana	26.69	677.9	29.95	760.7	59	15.0	60	sw.	5	2.2		6 k	0			0	0	fair	J. H. Jones.
Fort St. Michaels, Alaska	29.90	759.4	29.94	760.5	39	3.9	91	sw.	10	4.5			10 s			0	0	cloudy	A. P. Leavitt.
Fort Shaw, Montana	26.33	668.8	29.90	759.4	55	12.8	80	w.	10	4.5		1 cs	0			0.01	0.3	clear	A. L. Mathews.
Fort Sill, Indian Territory	28.74	730.0	29.94	760.5	71.5	21.9	89	s.	6	2.7		5 c.	0	w.		0	0	fair	T. Cleary.
Fort Smith, Arkansas	29.53	750.0	29.99	761.7	69.0	20.6	90	e.	2	0.9		0	0			0.46	11.7	clear	J. B. Campbell.
Fort Stevenson, Dakota	27.98	710.7	29.78	756.4	61	16.1	93	sw.	3	1.3		3 c	5 s	sw.		0.12	3.0	cloudy	W. Burrows
Fort Verde, Arizona					65.4	18.6	38	s.			1	4 k	1 s	sw.	s.	0.01	0.3	fair	D. Brooks.
Fort Washakie, Wyoming	24.52	622.8	29.90	759.4	50.1	10.1	83	calm	0	0		2 c	6 k			0	0	cloudy	T. M. Ambler.
Fredericksburg, Texas	28.32	719.3	30.00	762.0	72	22.2	90	calm	0	0		0	0			0	0	clear	H. S. Miles.
Galveston, Texas	29.99	761.7	30.04	763.0	81	27.2	78	sw.	11	4.9		0	5 ks		sw.	0	0	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.15	740.4	29.80	756.9	69.0	20.6	76	se.	2	0.9		0	0			0	0	clear	W. A. Reid.
Hatteras, North Carolina	29.84	757.9	29.86	758.4	75	23.9	85	nw.	12	5.4		9 k	0	w.		0.03	0.8	cloudy	R. M. Crawford.
Helena, Montana	25.80	655.3	29.92	760.0	59	15.0	56	w.	2	0.9		5 k	0	w.		0	0	fair	S. Wheaton.
Henrietta, Texas																			J. W. Byram.
Huron, Dakota	28.44	722.4	29.78	756.4	62.9	17.2	84	nw.	7	3.1		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.09	738.9	29.87	758.7	75	23.9	71	w.	1	0.4		2 c	hz.	sw.	calm	0	0	clear	O. Schutze
Indianola, Texas	30.02	762.5	30.05	763.3	79.4	26.3	88	s.	9	4.0		0	2 ks		s.	0	0	clear	I. A. Reed.
Jacksboro, Texas	28.82	732.0	29.94	760.5	76	24.4	58	sw.	11	4.9		0	0			0	0	clear	J. P. Sherry.
Jacksonville, Florida	30.00	762.0	30.04	763.0	81	27.2	69	sw.	1	0.4		0	0			0	0	clear	J. W. Smith.
Keokuk, Iowa	29.22	742.2	29.86	758.4	74.0	23.3	79	sw.	3	1.3		5 k	0	w.		0	0	fair	F. Z. Gosewisch
Key West, Florida	30.04	763.0	30.06	763.5	80.0	26.7	79	calm	0	0		0	4 ks			0	0	fair	R. H. Paxton.
Kittyhawk, North Carolina	29.85	758.2	29.87	758.7	73.5	23.1	87	w.	13	5.8		4 ck	0			1.00	25.4	fair	E. A. Beals.
Knoxville, Tennessee	29.00	736.6	30.00	762.0	69	20.6	86	sw.	6	2.7		7 cs	2 s	w.		0.05	1.3	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.01	736.8	29.77	756.1	67	19.4	84	sw.	8	3.6			10 n			0.06	1.5	light rain	S. C. Emery.
La Mesilla, New Mexico	26.18	665.0	29.90	759.4	64.2	17.9	65	s.	2	0.9		3 ck	2 s	nw.		0	0	fair	N. D. Lane.
Leavenworth, Kansas	29.03	737.3	29.90	759.4	72	22.2	76	s.	6	2.7		0	0			0.02	0.5	clear	A. W. Browne.
Lewiston, Idaho	29.14	740.1	29.96	761.0	63	17.2	73	ne.	2	0.9		0	4 s			0	0	fair	W. Bell.
Little Rock, Arkansas	29.70	754.4	30.01	762.2	70	21.1	93	calm	0	0		0	6 s			0	0	fair	W. U. Simmons.
Los Angeles, California	29.64	752.8	30.03	762.7	58.2	14.6	80	e.	2	0.9			10 s		calm	0	0	cloudy	E. F. Kubel.
Louisville, Kentucky	29.34	745.2	29.89	759.2	77	25.0	76	sw.	8	3.6		0	1 k		sw.	0	0	clear	H. C. Smyth.
Lynchburg, Virginia	29.21	741.9	29.88	758.9	75.0	23.9	69	w.	4	1.8		0	8 s		sw.	0	0	cloudy	W. R. Bushby.
Madison, Wisconsin	28.82	732.0	29.81	757.2	66	18.9	84	w.	2	0.9		6 c	0	w.		0	0	fair	C. A. Shaw.
Marquette, Michigan	29.02	737.1	29.74	755.4	62	16.7	60	sw.	2	0.9			10 c;sk		sw.	0	0	cloudy	J. Gilligan.
Memphis, Tennessee	29.68	753.9	30.01	762.2	73	22.8	90	sw.	6	2.7		5 c	2 s		sw.	0.54	13.7	fair	D. T. Flannery.

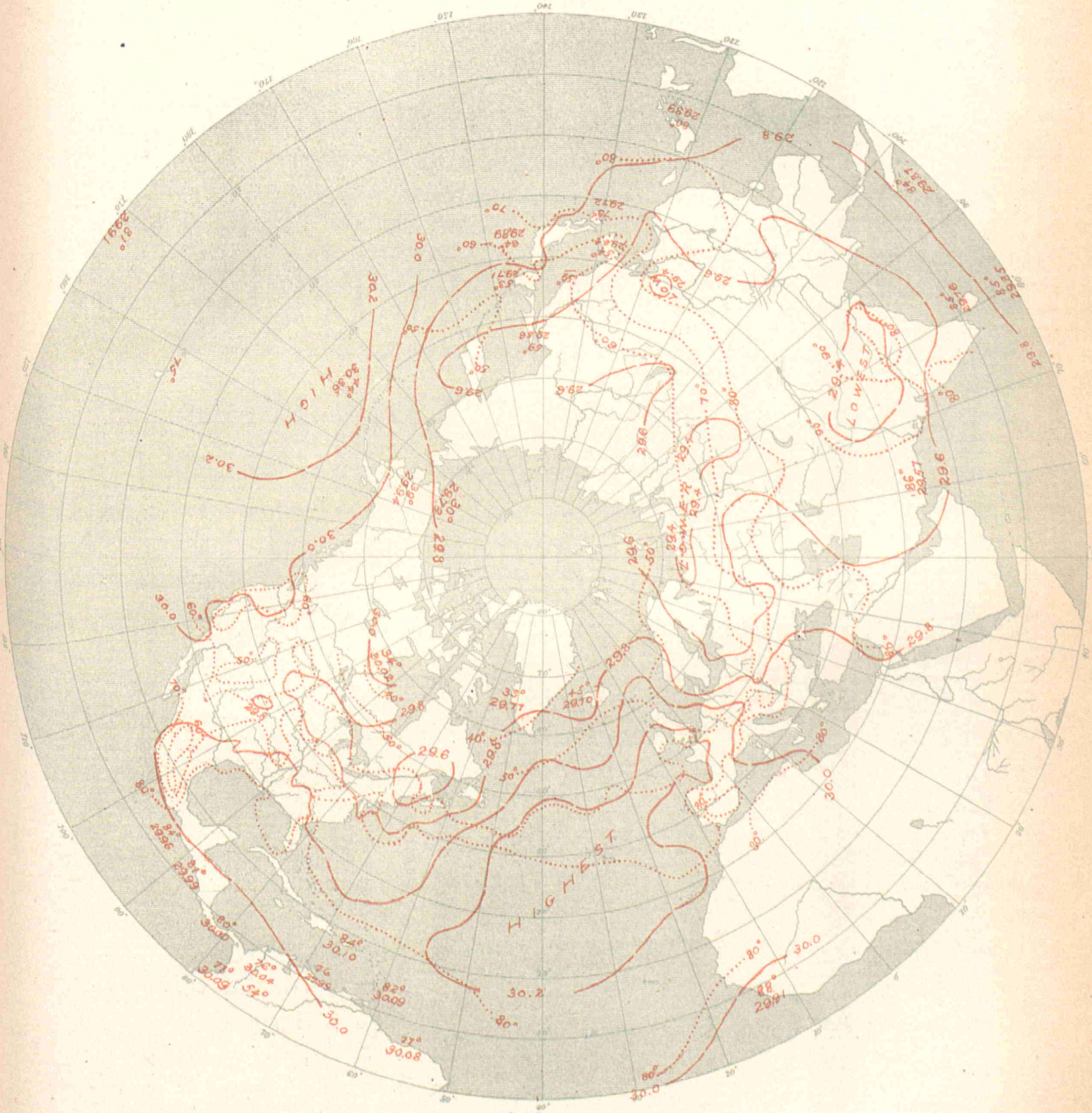
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	29.06	738.1	29.80	756.9	67	19.4	68	w.	8	3.6		7 c	0	w.		0	0	fair	W. Line.
Mobile, Alabama	30.02	762.5	30.06	763.5	80	26.7	82	sw.	2	0.9		0	2 ks		sw.	0	0	clear	J. D. Paxton.
Montgomery, Alabama	29.82	757.4	30.05	763.3	77	25.0	85	sw.	5	2.2		9 k	0	w.		0	0	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	28.79	731.3	29.76	755.9	58.2	14.6	93	n.	8	3.6			10 s			0.32	8.1	cloudy	H. Bessant.
Morgantown, W. Virginia	28.86	733.0	29.86	758.4	65.5	18.6	91	calm	0	0		0	fg.			0	0	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.55	598.2	29.67	753.6	47.2	8.4	100	nw.	57	25.5			10n;fg		nw.	0.81	20.6	heavy rain.	J. G. Lipsley.
Nashville, Tennessee	29.45	748.0	29.97	761.2	76.5	24.7	66	nw.	2	0.9		8 cs	0	w.		inap.	inap.	fair	L. A. Jesunofsky.
New Haven, Connecticut	29.58	751.3	29.69	754.1	70	21.1	78	nw.	5	2.2		1 c	0			0.10	2.5	clear	J. H. Sherman.
New London, Connecticut	29.64	752.8	29.68	753.9	68	20.0	100	calm	0	0		1 c	fg.			0.07	1.8	clear	J. G. Lynch.
New Orleans, Louisiana	29.98	761.5	30.03	762.7	80.0	26.7	82	sw.	5	2.2		4 c	sk.	w.		0	0	fair	L. Dunne.
Newport, Rhode Island	29.64	752.8	29.69	754.1	62.8	17.1	94	sw.	4	1.8			fg.			0.02	0.5	dense fog	W. McGillivray.
New River, N. Carolina					74	23.3	85	w.			1	0	3 s		sw.	0.65	16.5	clear	C. C. Corbin.
New Shoreham, Rhode I'd.	29.66	753.4	29.69	754.1	63.0	17.2	90	w.	12	5.4			fg.			0	0	dense fog	W. Davis.
New York, New York	29.58	751.3	29.75	755.6	71	21.7	76	nw.	10	4.5		2 cs	0			0.58	14.7	clear	J. B. Merrill.
Norfolk, Virginia	29.81	757.2	29.84	757.9	75	23.9	60	w.	5	2.2		9 cs	0	w.		0.07	1.8	cloudy	J. T. Elker.
North Platte, Nebraska	27.02	686.3	29.82	757.4	66.1	18.9	82	calm	0	0		0	5 s			0.02	0.5	fair	E. F. Brady.
Olympia, Washington T'y	30.06	763.5	30.10	764.5	61.0	16.1	84	ne.	1	0.4		5 ck	0	n.		inap.	inap.	fair	J. Dascomb.
Omaha, Nebraska	28.72	729.5	29.86	758.4	75.0	23.9	70	sw.	8	3.6		0	0			0	0	clear	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	29.76	755.9	29.78	756.4	29.5	— 1.4		nne.	6	2.7			fg.			0.07	1.8	foggy	P. H. Ray.
Oswego, New York	29.40	746.7	29.72	754.9	60.0	15.6	93	w.	9	4.0			10 s			0.65	16.5	cloudy	S. W. Beall.
Palestine, Texas	29.50	749.3	30.04	763.0	77.0	25.0	85	sw.	4	1.8		0	0			0	0	clear	L. M. Pindell.
Pensacola, Florida	30.03	762.7	30.06	763.5	78.8	26.0	91	sw.	2	0.9		0	6 s		w.	0	0	fair	M. McGauran.
Philadelphia, Pa.	29.67	753.6	29.77	756.1	75.5	24.2	73	w.	4	1.8		5 ck	0	w.		inap.	inap.	fair	T. F. Townsend.
Pike's Peak, Colorado	18.00	457.2	29.82	757.4	31	— 0.6	85	w.	15	6.7			9 s		w.	0	0	cloudy	L. M. Dey.
Ploche, Nevada	24.11	612.4	29.91	759.7	53	11.7	64	w.	7	3.1		4 k	0	s.		0	0	fair	C. N. Kitchel.
Pittsburg, Pennsylvania	29.02	737.1	29.80	756.9	69.8	21.0	78	w.	2	0.9			10 s		w.	0.02	0.5	cloudy	J. H. Bryce.
Poplar River, Montana	27.73	704.3						se.			1		10 s		calm	0.03	0.8	cloudy	U. D. Maxwell.
Port Eads, Louisiana	30.05	763.3	30.06	763.5	78.5	25.8	89	sw.	12	5.4		0	2 ks		w.	0.15	3.8	clear	H. G. Christian.
Port Huron, Michigan	29.12	739.6	29.79	756.7	63.5	17.5	90	n.	2	0.9		0	0			0	0	clear	W. O. Bailey.
Portland, Maine	29.54	750.3	29.59	751.6	67.0	19.4	84	w.	8	3.6		10 cs	0	w.		0.01	0.3	cloudy	W. W. Eichelberger.
Portland, Oregon	30.05	763.3	30.12	765.0	61.0	16.1	84	calm	0	0		8 cs	0	n.		0	0	cloudy	M. L. Hearne.
Portsmouth, N. Carolina																			F. P. Chaffee.
Prescott, Arizona	24.82	630.4	29.84	757.9	59	15.0	62	s.	4	1.8		0	0			c	0	clear	J. McN. Wright.
Provincetown, Mass.	29.61	752.1	29.64	752.8	63.5	17.5	84	sw.	7	3.1		2 ck	2 s	w.		0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	30.06	763.5	30.07	763.8	76.5	24.7	74	e.	5	2.2		0	0			0	0	clear	W. J. Evans.
Red Bluff, California	29.56	750.8	29.92	760.0	71.5	21.9	52	n.	4	1.8		0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.80	756.9	30.03	762.7	79	26.1	82	e.	8	3.6		0	0			0	0	clear	P. M. Wilson.
Rochester, New York	29.08	738.6	29.74	755.4	63	17.2	93	w.	12	5.4		hz.	hz.			0.36	9.1	dense haze.	E. W. McGann.
Roseburg, Oregon	29.57	751.1	30.12	765.0	61	16.1	81	n.	2	0.9		1 c	0	w.		0	0	clear	J. J. Nanry.
Sacramento, California	29.84	757.9	29.91	759.7	61.2	16.2	78	s.	7	3.1		0	4 s		ne.	0	0	fair	J. A. Barwick.
St. Louis, Missouri	29.35	745.5	29.94	760.5	71.5	21.9	95	sw.	9	4.0		1 k	0	w.		0	0	clear	J. H. Webber.
St. Paul, Minnesota	28.84	732.5	29.69	754.1	65.0	18.3	90	s.	8	3.6		4 k	2 s	n.	s.	0.14	3.6	fair	P. F. Lyons
St. Vincent, Minnesota	28.94	735.1	29.79	756.7	52	11.1	86	nw.	8	3.6		0	0			0.11	2.8	clear	G. Kingsbury.
Salt Lake City, Utah	25.69	652.5	29.91	759.7	56	13.3	53	calm	0	0		10 k	0	w.		0	0	cloudy	J. Craig.
San Antonio, Texas	29.34	745.2	30.02	762.5	76	24.4	90	se.	3	1.3		0	7 ks		se.	0	0	fair	E. Lane.
San Diego, California	29.95	760.7	30.01	762.2	60.7	15.9	79	nw.	2	0.9			10 s		nw.	0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.13	739.9	29.80	756.9	68	20.0	90	sw.	8	3.6			10 s		w.	0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.73	755.1	29.77	756.1	69.0	20.6	90	w.	10	4.5		1 k	0	w.		0.03	0.8	clear	B. A. Blundon.
San Francisco, California	29.94	760.5	30.01	762.2	54	12.2	90	sw.	8	3.6			fg.		sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.39	594.1	29.90	759.4	57	13.9	62	sw.	5	2.2		9 c	0	sw.		0.04	1.0	cloudy	H. U. Jones.
Savannah, Georgia	29.90	759.4	29.99	761.7	83	28.3	63	w.	8	3.6		4 cs	0			0	0	fair	H. W. Ford.
Shreveport, Louisiana	29.80	756.9	30.03	762.7	77	25.0	85	s.	4	1.8		hz.	1 s			0	0	clear	E. N. Meekins.
Silver City, New Mexico	24.38	619.2	29.88	758.9	55	12.8	64	nw.	1	0.4		0	3 s		calm	0.25	6.3	clear	J. B. Wallace.
Sitka, Alaska																0.23	5.8		J. J. McLean.
Smithville, North Carolina	29.89	759.2	29.93	760.2	76	24.4	76	w.	10	4.5		3 c	0			0.04	1.0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.93	709.4	29.97	761.2	63	17.2	63	sw.	5	2.2		10 cs	0	w.		0	0	cloudy	D. Moore.
Springfield, Illinois	29.23	742.4	29.90	759.4	74	23.3	76	s.	2	0.9		5 c	0	w.		0	0	fair	T. B. Jennings.
Springfield, Massachusetts	29.56	750.8	29.69	754.1	73.2	22.9	71	w.	3	1.3		3 k	0	nw.		0.07	1.8	clear	T. S. Outram.
Springfield, Mo.	28.54	724.9	30.00	762.0	68	20.0	90	s.	14	6.3			10 s			0.30	7.6	cloudy	J. B. Marbury.
Starkville, Miss.	29.56	750.8	30.03	762.7	78	25.6	77	sw.	8	3.6		2 c	2 s		s.	0	0	fair	M. J. Wright.
Stockton, Texas	27.04	686.8	29.96	761.0	63.8	17.7	90	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Thatcher's Island, Mass.	29.58	751.3	29.63	752.6	55.0	12.8	100	w.	12	5.4			fg.		w.	0	0	dense fog	G. Liebmann
Toledo, Ohio	29.13	739.9	29.81	757.2	68	20.0	78	w.	26	11.6			10 n			0.02	0.5	heavy rain.	A. Buell.
Tucson, Arizona	27.56	700.0	29.86	758.4	67	19.4	66	w.	2	0.9		0	8 ks			inap.	inap.	cloudy	J. L. Whiteside.
Umatilla, Oregon	29.65	753.1	30.01	762.2	68	20.0	66	sw.	1	0.4		2 cs	0			0	0	clear	J. Daly.
Uvalde, Texas	29.06	738.1	30.00	762.0	75	23.9	90	s.	6	2.7			10 s		s.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.80	756.9	30.05	763.3	77	25.0	76	calm	0	0		0	0			0	0	clear	H. P. Brisbane.
Visalia, California	29.53	750.0	29.90	759.4	66	18.9	68	e.	2	0.9			10 s		nw.	0.01	0.3	cloudy	W. L. Seward.
Washington, D. C.	29.72	754.9	29.83	757.7	74.7	23.7	71	calm	0	0		6 c	hz.	w.		0	0	fair	B. M. Purssell.
West Las Animas, Colorado	26.00	660.4	29.78	756.4	60.9	16.1	84	nw.	3	1.3			10 s		w.	0	0	cloudy	F. W. Brandenburg.
Williamsport, Pa.	29.18	741.2	29.78	756.4	67	19.4	84	w.	1	0.4		3 cs	fg.	w.		0.31	7.9	clear	B. F. Hough.
Wilmington, N. Carolina	29.86	758.4	29.90	759.4	74	23.3	85	w.	4	1.8		1 cs	0			0.17	4.3	clear	A. T. Sherwood.
Winnemucca, Nevada	25.68	652.3	29.94	760.5	51	10.6	80	ne.	4	1.8		0	0			0	0	clear	J. R. Williams.
Yankton, Dakota	28.53	724.6	29.81	757.2	71	21.7	66	w.	8	3.6		0	0			0	0	clear	J. H. Atfield.
Yuma, Arizona	29.70	754.4	29.84	757.9	66.5	19.2	54	calm	0	0			10 s			0	0	cloudy	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.10	561.3			53.5	11.9	82	calm	0	0		6 cs;k	3ks;s	w	nw.	0.16	4.1	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.08	764.0	30.09	764.3	82	27.8	87	e.				5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	30.06	763.5	30.09	764.3	77	25.0	90	calm	0	0		0	8 n		calm	0.70	17.8	light rain	J. I. Plume.
Havana, Cuba, W. I.	30.04	763.0	30.09	764.3	82	27.8	80	calm	0	0		2 cs	2 ks			0	0	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.06	763.5	30.07	763.8	81.0	27.2	77	calm	0	0		3 cs	0			0	0	fair	Robert Johnston.
Magua, San Domingo, W. I					74	23.3		calm			0	0	3 k		ne.	inap.	inap.		S. M. Pike.
Paramaribo, S. A.	30.08	764.0	30.08	764.0	77	25.0	86	e.			2	4 k	3 s	e.		0.770	19.6		Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.58	751.3	30.04	763.0	76	24.4	94	calm			0		10			1.14	29.0	raining.	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							92	ne.			1					0	0	fair	Earl Flint.
Santiago de Cuba, W. I.	30.01	762.2	30.03	762.7	82	27.8	78	calm	0	0		4 ck	0			0	0	fair	Robert Mason.
York Factory, B. A.	29.96	761.0	30.02	762.5	34.0	1.1	100	n.	16	7.2		fg.	fg.			0	0	foggy	Fortesque & Wood.

Stations and Vessels	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
British Naval.																		
H. M. S. Alert, Simon's Bay, Cape Colony, Africa	30.29	769.4	61.8	16.6	57	w.			1–2		8							d. clouds.
H. M. S. Alexandra, N. 31° 13′ E. 29° 47′	29.86	758.4	73	22.8	68	nw.			4–5		5	nw.				4	nw.	d. clouds.
H. M. S. Amethyst, S. 35° 05′, W. 54° 27′	30.46	773.7	55	12.8	96	calm			0		1	w.						blue sky.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.96	761.0	75	23.9		var.			1		3	n.						d. clouds.
H. M. S. Arab, N. 25° 17′, E. 60° 37′	29.47	748.5	86	30.0	85	s.			2		2					4	sw.	misty.
H. M. S. Bacchante, Corfu, Ionian Islands	30.00	762.0	67	19.4	90	e.			2–3		3	ese.						d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.28	769.1	67	19.4		w.			1		0							blue sky.
H. M. S. Champion, N 21° 00′ W. 158° 10′			75	23.9		ne.			2–3		7					3	ne.	d. clouds.
H. M. S. Cleopatra, N. 30° 16′, E. 129° 15′	29.72	754.9	77.5	25.3	95	sw.			6		10					6	sw.	showery.
H. M. S. Coquette, Port Said, Egypt	29.82	757.4	76	24.4		nw.			3		0							blue sky.
H. M. S. Cruiser, N. 38° 10′, E. 16° 30′	29.93	760.2	74	23.3		sse.			2		1	ssw.				2	sse.	blue sky.
H. M. S. Diamond, S. 12° 03′, E. 163° 16′	29.92	760.0	82	27.8	87	e.			2–3		3					1	e.	d. clouds.
H. M. S. Dido, N. 10° 37′, W. 67° 00′	29.99	761.7	76	24.4		calm			0		2	ene.				1	ne	d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	29.93	760.2	74.5	23.6	92	wsw.			1		5	wsw.						d. clouds.
H. M. S. Dwarf, S. 25° 16′, W. 57° 45′	29.94	760.5	65	18.3	92	calm			0		5							d. clouds.
H. M. S. Eclipse, S. 4° 37′, E. 55° 30′	29.97	761.2	80	26.7		ese.			1		7							showery.
H. M. S. Emerald, S. 51° 40′ W. 57° 50′	30.20	767.1	41	5.0	100	calm			0									d. clouds.
H. M. S. Euryalus, Trincomalee, Ceylon, India	29.76	755.9	85	29.4	68	sw.			4		4	calm						d. clouds.
H. M. S. Fawn, S. 23° 20′, E. 51° 40′	30.30	769.6	69.5	20.8	69	s.			3		10	s.				4	sse.	overcast.
H. M. S. Fantome, N. 9° 20′, W. 80° 34′	30.00	762.0	82	27.8		nw.			1		8	nw.				1	e.	d. clouds.
H. M. S. Flying Fish, N. 37° 18′, E. 126° 24′	29.54	750.3	64	17.8	91	wnw.			1		5					1	w.	d. clouds.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.15	765.8	55	12.8	80	calm			0		10	nw.						overcast.
H. M. S. Garnet, Montevideo, Uruguay.	30.37	771.4	50	10.0	86	n.			2		3							misty.
H. M. S. Griffon, N. 48° 41′, W. 53° 49′	29.90	759.4	58	14.4	64	s.			2		3	s.						d. clouds.
H. M. S. Inconstant, N. 12° 00′ W. 18° 00′	30.02	762.5	80	26.7	74	wnw.			2–3		5	wnw.				3	nw.	d. clouds.
H. M. S. Iron Duke, N. 35° 26′, E. 139° 39′	29.96	761.0	72	22.2	85	ssw.			2		5	wsw.						d. clouds.
H. M. S. Kingfisher, N. 13° 20′, W. 93° 30′	30.00	762.0	84	28.9		ne.			1		1					1	s.	blue sky.
H. M. S. Lark, S. 10° 37′, E. 162° 30′	29.90	759.4	81.3	27.4		se.			1		3					1	se.	d. clouds.
H. M. S. Magpie, N. 35° 08, E. 140° 18′	29.90	759.4	71	21.7	84	ssw.			2		10					1	ssw.	d. clouds.
H. M. S. Minotaur, N. 36° 37′, W. 1° 25′	30.07	763.8	69	20.6	87	ssw.			2		3					1	wsw.	misty.
H. M. S. Nelson, S. 37° 40′, E. 177° 30	29.72	754.9	63	17.2	89	sw.			3–4		4	s.				3	n.	d. clouds.
H. M. S. Northampton, Halifax, Nova Scotia	29.72	754.9	58.5	14.7	97	ssw.			1									foggy.
H. M. S. Phœnix, N. 18° 00′, W. 78° 26′	30.02	762.5	81	27.2	91	ese.			1		1					1	ese.	blue sky.
H. M. S. Rambler, Saint Paul de Loanda, Benguela	29.99	761.7	71	21.7	95	nnw.			1		0							blue sky.
H. M. S. Rocket, N. 49° 50′, W. 124° 40′	29.95	760.7	62	16.7	?	nne.			1		5							showery.
H. M. S. Sappho, S. 27° 00′, W. 109° 00′	30.25	768.3	68.5	20.3		se.			3		2	se.				3	sw.	d. clouds.
H. M. S. Swiftsure, N. 11° 36′, W. 25° 05′	30.13	765.3	73.5	23.1	68	ene.			3		7	ene.				3	con.	d. clouds.
H. M. S. Sylvia, Rio de Janeiro, Brazil	30.33	770.4	70.5	21.4	87	nnw.			2		0							showery.
H. M. S. Tamar, N. 47° 49′, W. 5° 51′	30.28	769.1	62.5	16.9	67	calm			0		3					2	wsw.	d. clouds.
H. M. S. Tenedos, N. 46° 40′ W. 56° 25′	29.88	758.9	47	8.3	100	s.			3		10					1	s.	foggy.
H. M. S. Triumph, Coquimbo, Chili	30.14	765.5	54	12.2	86	calm			0		10	calm						d. clouds.
H. M. S. Tyne, N. 48° 12′, W. 9° 08′	30.29	769.4	58	14.4	100	s.			1		1					2	wsw.	blue sky.
H. M. S. Woodlark, N. 25° 38′ E. 52° 57′	29.50	749.3	85.5	29.7	75	w.			2–3		0							blue sky.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verde Islands	30.08	763.9	78.8	26.0	88				2		2					1		d. clouds.
Tamega, Macao, China	29.68	753.8	82.4	28.0	85	sw.			2		5							d. clouds.
Swedish Naval.																		
Saga, N. 39° 16′, W. 19°.18′	30.22	767.7	64.0	17.8	78	nne.			3		3							d. clouds.
United States Naval.																		
Navy Yard, Pensacola, Fla	30.01	762.2	80	26.7	87	ssw.	8	3.6			2		ssw.	0	0			fair.
Navy Yard, Portsmouth, N. H.	29.58	751.3	68	20.0	79	w.	2	0.9			5		w.	0	0			fair.
Naval Hospital, Yokohama, Japan*	29.75	755.6	70	21.1	85	ssw.			4		10		ssw.	0	0			gloomy.
Adams, Mare Island, Cal	29.98	761.5	57	13.9	94	sw.			2		2		sw.	0	0			clear.
Alaska, Callao, Peru	30.07	763.8	60	15.6	88	calm			0		10			0	0	sm'h		cloudy.
Alert, N. 37° 30′, E. 144° 56′*	29.89	759.2	64	17.8	89	sse.			4		2		calm	0	0	sm'h		fair.
Alliance, Hampton Roads, Va	29.87	758.7	75	23.9	86	ssw.			1		8			0	0	sm'h		cloudy.
Ashuelot, Yokohama, Japan	29.89	759.2	70	21.1	90	ssw.			2		10		calm					cloudy.
Brooklyn, Rio de Janeiro, Brazil	30.32	770.1	72	22.2	90	nw.	8	3.6			8		calm	0.01	0.3	sm'h		fair.
Colorado, New York, N. Y			72	22.2	76	nw.	12	5.4			2		calm	0.4	10.			fair.
Constellation, Annapolis, Md*	29.80	756.9	76	24.4	73	nw.			1		2		calm			sm'h		fair.
Enterprise, Norfolk, Va*	29.83	757.7	74	23.3	95	sw.			1		5		sw.					fair.
Essex, S. 42° 11′, W. 60° 05′	30.32	770.1	51	10.6	79	nne.			2		10					long		cloudy.
Franklin, Norfolk, Va	29.86	758.4	74	23.3	81	sw.	4	1.8			8		w.	0	0			cloudy.
Galena, Alexandria, Egypt	29.88	758.9	74	23.3	81	nw.			4		0					sm'h		clear.
Independence, Navy Yard, Mare Island, Cal	29.98	761.5	57	13.9	100	sw.			5		10		sw.	0	0			misty.
Iroquois, San Francisco, Cal	29.97	761.2	56	13.3	87	sw.			3		10		sw.	0	0			cloudy.
Kearsarge, off Norfolk, Va	29.84	757.9	73	22.8	95	calm			0		8		calm					fair.
Lackawanna, Paita, Peru*	30.05	763.3	64	17.8	89	se.			2		10		se.					cloudy.
Lancaster, N. 36° 12′, W. 5° 10′*	29.99	761.7	71	21.7	90	se.			3		2		n.	0	0	sm'h		fair.
Marion, S. 34° 54′, W. 56° 13′	30.30	769.6	52	11.1	100	ne.			2		2					sm'h		hazy.
Michigan, Detroit, Mich	29.80	756.9	69	20.6	80	ne.			1		0							clear.
Minnesota, Newport, R. I.	29.71	754.6	65	18.3	84	w.	1	0.4			5		w.					foggy.
Monocacy, Nagasaki, Japan	29.63	752.6	72	22.2	100	nw.			2–4		10		calm					cloudy.
New Hampshire, Newport. R. I.	29.64	752.8	60	15.6	100	sw.			1		5		sw.			sm'h		foggy.
Nipsic, Venice, Italy	29.85	758.2	72	22.2	71	sse			1		5					sm'h		fair.
Onward, Callao, Peru	30.13	765.3	61	16.1	82	se.			1		10		n.			long	v	cloudy.
Palos, Kobe, Japan	29.79	756.7	69	20.6	95	e.			2		10		calm					drizzling.
Passaic, Washington, D. C.	29.87	758.7	76	24.4	?	w.			1		5		w.					fair.
Pensacola, Callao, Peru	30.10	764.5	60	15.6	94	sse.	3	1.3			10			0	0	sm'h		cloudy.
Powhatan, League Island, Pa	29.81	757.2	72	22.2	90	nw.			2		5		sw.					fair.
Portsmouth, off Bembridge, Isle of Wight, Eng*	30.17	766.3	60	15.6	100	w.			2		2		w.					clear.
Quinnebaug, N. 35° 23′, W. 80 20′	30.17	766.3	68	20.0	79	nnw.			1		10		calm			sm'h		cloudy.
Ranger, Mare Island, Cal*	29.97	761.2	59	15.0	82	sw.			3–4		10		calm	0	0	sm'h		cloudy.
Richmond, Nagasaki, Japan*	29.50	750.8	73	22.8	100	sw.			2		10		ne.	2.20	55.9			raining.
Saratoga, N. 50° 44′ W. 1° 04′	30.19	766.8	57	13.9	58	nne.			1		5		ne.	0	0	sm'h		fair.
St. Louis, League Island, Pa	30.02	762.5	75	23.9	81	calm	0	0			0			0	0			clear.
Swatara, Nagasaki, Japan*	29.44	747.8	73	22.8	95	sw			4		10		sw.			sm'h		heavy rain.
Tennessee, Fort Monroe, Va	29.88	758.9	75	23.9	90	sw.	3	1.3			10			0	0			cloudy.
Vandalia, Hampton Roads, Va*	29.83	757.7	74	23.3	95	s.			1		8		calm					cloudy.
Wabash, Boston, Mass	29.64	752.8	68	20.0	90	sw.	5	2.2			2		s.	0	0			fair.
Wachusetts, Fort Wrangle, Alaska	29.86	758.4	50	10.0	100	calm			0		10		calm			sm'h		rainy.
Wyoming, Port Royal, S. C	29.98	761.5	78	25.6	73	w.	10	4.5			8		w.	0	0			cloudy.
Yantic, Hampton Roads, Va*	29.82	757.4	74	23.3	90	sw			2		8		sw.					cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Grecian, off south part of Ireland *	30.28	769.1	.....	.....	.....	wsw.	.....	.....	1	.....	2	.....	wsw.	0	0	sm'h	.....	
S. S. Prussian, Glascow, Scotland*	29.96	761.0	62	16.7	.....	nw.	.....	.....	3	.....	2	.....	nw.	0	0	.....	.....	clear.
S. S. Scandinavian, N. 44° 35′ W. 44° 30′*	30.12	765.0	57	13.9	.....	s.	.....	.....	2	.....	1	.....	.....	0	0	sm'h	.....	blue sky
S. S. Waldensian, N. 44° 04′, W. 46° 16′*	30.30	769.6	58	14.4	.....	wsw.	.....	.....	1	.....	fg	.....	.....	0	0	light	sw.	dense fog.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, N. 42° 02′, W. 44° 01′	30.30	769.6	67	19.4	89	ssw.	.....	.....	2	.....	2	.....	s.	.....	.....	sm'h	s.	very fine.
S. S. Indiana, Liverpool, Eng.†	30.36	771.1	66	18.9	94	nw.	.....	.....	3	.....	2	.....	w.	.....	.....	.....	.....	fine.
S. S. Lord Clive, N. 41° 48′, W. 53° 55′ *†	30.10	764.5	.....	.....	.....	se.	.....	.....	3	.....	4	.....	s.	0	0	.....	.....	fine.
S. S. Pennsylvania, N. 42° 53′, W. 40° 50′†	30.34	770.6	68	20.0	.....	se.	.....	.....	1	.....	.....	.....	.....	.....	.....	sm'h	e.	blue sky.
ANCHOR LINE.																		
S. S. Ethiopa, New York, N. Y	29.88	758.9	64	17.8	89	sw.	.....	.....	3	.....	5?	.....	sw.	4 h'r	4 h'r	.....	.....	clear ?
S. S. Utopia, N 38° 51′ E. 6° 55′ †	30.20	767.1	72	22.2	63	se.	.....	.....	2	.....	7	.....	w.	2 h'r	2 h'r	mod.	.....	cloudy.
ATLAS LINE.																		
S. S. Ailsa, Savanilla, U. S. C.†	29.96	761 0	84	28.9	83	ne.	.....	.....	2	.....	5	.....	ne.	0	0	.....	.....	dull.
S. S. Alvena, Aricebo, Porto Rico, W. I.†	30.00	762.0	78	25.6	86	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	fine.
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, Cape Breton Island†	30.06?	763.5?	50	10.0	.....	ese.	.....	.....	.....	.....	fg.	.....	.....	0	0	.....	se.	dense fog.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 37° 43′, E. 73° 55′	29.48	748.8	52.5	11.4	60	wsw.	.....	.....	8	.....	8	.....	.....	.....	.....	.....	.....	raining.
S. Baroda, N. 2° 02′, E. 94° 30′	29.87	758.7	84.3	29.1	72	wnw.	.....	.....	2	.....	6	.....	.....	.....	.....	.....	.....	d. clouds.
British Merchant, N 21° 58′ W 35° 40′	30.26	768.6	76.5	24.7	69	ne.	.....	.....	4	.....	7	.....	.....	.....	.....	.....	.....	d. clouds.
Glencairn, S. 11° 54′, W. 9° 40′	30.18	766.6	75	23.9	83	s.	.....	.....	4–5	.....	9	.....	.....	.....	.....	.....	.....	showery.
S. S Gordon Castle, N. 1° 08′, E. 80° 00′	29.85	758.2	84.5	29.2	81	w.	.....	.....	6	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
May Hulse, S. 56° 51′, W. 57° 46′	29.97	761.2	38.7	3.7	80	nw.	.....	.....	2	.....	5	.....	.....	.....	.....	.....	.....	d. clouds.
S. S Minho, S. 0° 28′, W. 31° 29′	30.06	763.5	78.1	25.6	89	ese.	.....	.....	5	.....	5	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Pole Star, S. 27° 06′, W. 29° 25′	30.21	767.3	71	21.7	85	nnw.	.....	.....	4	.....	8	.....	.....	.....	.....	.....	.....	gloomy.
CUNARD LINE.																		
S. S. Gallia, N. 40° 33′, W. 62° 15′	29.84	757.9	75	23.9	95	s.	.....	.....	3	.....	8	.....	s.	0	0	sm'h	.....	fair.
S. S. Scythia, N. 45° 27′, W. 42° 39′	30.26	768.6	61	16.1	100	sw.	.....	.....	1	.....	2	.....	sw.	0	0	.....	.....	hazy.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. France, N. 40° 36′, W. 64° 00′ †	29.83	757.7	71.6	22.0	.....	ssw.	.....	.....	3	c	.....	ssw.	.....	0	0	sm'h	ssw.	clear.
S. S. St. Laurent, N. 48° 28′, W. 13° 40′	.....	.....	57.2	14.0	89	ssw.	.....	.....	3	.....	.....	.....	.....	0	0	sm'h	ssw.	clear.
S. S. Ville de Marseilles. N. 36° 50′, E. 1° 24′*†	30.10	764.5	75	23.9	.....	sse.	.....	.....	5	.....	0	.....	.....	0	0	sm'h	.....	clear.
GUION LINE.																		
S. S. Arizona, N. 41° 51′ W. 54° 06′	30.07	763.8	67	19.4	.....	sse.	.....	.....	2	.....	8	.....	calm	0	0	sm'h	.....	
S. S. Wisconsin, N. 44° 20′, W. 44° 30′*	30.07	763.8	56	13.3	.....	s.	.....	.....	6	.....	fg	.....	.....	0	0	sm'h	.....	foggy.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 41° 19′, W. 65° 27′ *†	29.82	757.4	.....	.....	.....	s.	.....	.....	4	.....	6	.....	se.	0	0	sm'h	se.	foggy.
S. S. Gellert, N. 49° 54′, W. 23° 54′	30.08	764.0	60	15.6	.....	ssw.	.....	.....	4	.....	10	.....	ssw.	0	0	mod.	ssw.	foggy.
S. S. Herder, Hamburg, Germany*†	29.78	756.4	55	12.8	.....	wsw.	.....	.....	6	.....	6?	.....	wnw.	rain	rain	.....	.....	covered?
S. S. Lessing, Harve, France	30.15	765.8	68	20.0	.....	nw.	.....	.....	7	.....	8	.....	nw.	0	0	.....	.....	cloudy.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, N. 49° 50′ W. 5° 00′ *†	30.43	772.9	60	15.6	.....	wsw.	.....	.....	1	.....	2	.....	wsw.	0	0	.....	.....	clear
S. S. Humboldt, N. 44° 37′, W. 35° 30′*	30.31	769.9	65	18.3	83	sw.	.....	.....	1	.....	2 k	.....	sw.	0	0	1	sw.	blue sky.
LEYLAND LINE.																		
S. S. Iberian, N. 51° 19′, W. 13° 13′	30.15	765.8	.....	.....	.....	sw.	.....	.....	3	.....	8	.....	sw.	0	0	light	nw.	cloudy.
MALLORY LINE.																		
S. S. Colorado, N. 25° 44′, W. 86° 51′†	30.08	764.0	80	26.7	.....	nw.	.....	.....	2	.....	1	.....	nw.	sh'rs	sh'rs	sm'h	se.	clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Hermod, N. 42° 05′, W. 46° 20′*†	30.00	762.0	77.0	25.0	.....	calm	.....	.....	0	.....	1	.....	ese.	6 h'r	6 h'r	sm'h	s.	fair.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, S. 3° 32′, W. 35° 00′	29.53	750.0	.....	.....	.....	e.	.....	.....	9	.....	.....	.....	se.	0	0	r'gh	e.	clear.
S. S. Glenapp, N. 16° 43′, W. 37° 28′.*†	30.20	767.1	.....	.....	.....	e.	.....	.....	3	.....	5	.....	var.	3 h'r	3 h'r	light	ese.	squally.
NATIONAL LINE.																		
S. S. Denmark, N. 40° 55′. W. 46° 55′	30.24	768.1	70	21.1	.....	sse.	.....	.....	3	.....	2	.....	ese.	0	0	sli't	se.	clear.
S. S. England, N. 42° 38′, W. 42° 14′	30.31	769.9	.....	.....	.....	s.	.....	.....	2	.....	2	.....	s.	0	0	sm'h	.....	clear.
S. S. Greece, N. 42° 53′, W. 44° 33′	30.24	768.1	.....	.....	.....	ssw.	.....	.....	2	.....	2	.....	ssw.	0	0	sm'h	nnw.	very fine.
The Queen, N. 40° 32′, W. 58° 20′*	29.79	756.7	72	22.2	.....	s.	.....	.....	5	.....	2	.....	n.	0	0	g'ntle	s.	clear.
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, New York, N. Y.*†	29.79	756.7	70	21.1	90	wnw.	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	.....	clear.
S. S. City of Puebla, N. 37° 00′, W 75° 04′†	29.79	756.7	65	18.3	.....	sw.	.....	.....	1	.....	10	.....	sw.	.....	.....	light	sw.	cloudy.
S. S. City of Washington, Havana, Cuba, W I.*†	30.20	767.1	85	29.4	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
NORTH GERMAN LLOYD.																		
S. S. Gen. Werder, N 41° 28′, W. 62° 34′	29.83	757.7	.....	.....	.....	s.	.....	.....	2	.....	5?	.....	w.	0	0	sm'h	.....	clear.?
S. S. Graf Bismarck, N. 43° 17′ W 9° 14′	30.13	765.3	69.8	21.0	.....	ene.	.....	.....	4–5	.....	4	.....	var.	.....	.....	mod.	ne.	fine.
S. S. Habsburg, N. 49° 47′, W. 7° 48′	30.30	769.6	60.8	16.0	.....	nnw.	.....	.....	1	.....	2	.....	nnw.	0	0	sm'h	.....	fair.
S. S. Hermann, N. 46° 44′, W. 29° 26′†	30.10	764.5	59.0	15.0	.....	w	.....	.....	4	.....	2	.....	w.	0	0	mod.	w.	clear.
S. S. Hohenzollern, N. 50° 19′ W. 1° 40′*	30.25	768.3	58	14.4	.....	wnw.	.....	.....	3	.....	4	.....	w.	0	0	3	w.	clear.
S. S. Leipzig, N. 43° 27′, W. 42° 59′	30.27	768.8	73.0	22.8	85	sw.	.....	.....	1	.....	0	.....	.....	0	0	sm'h	.....	fair.
S. S. Mosel, N. 45° 55′, W. 36° 19′	30.34	770.6	65	18.3	.....	wsw.	.....	.....	3	.....	2	.....	w.	0	0	sm'h	.....	clear.
S. S. Neckar, N. 48° 45′, W. 20° 30′	.....	.....	59.5	15.3	94	sw.	.....	.....	4	.....	8	.....	sw.	0	0	mod.	sw.	fair.
S. S. Ohio, Bremerhaven, Germany	29.90	759.4	.....	.....	.....	nw.	.....	.....	6	.....	10	.....	.....	8 h'r	8 h'r	.....	.....	cloudy.
S. S. Rhein, N. 50° 03′, E. 4° 01′	30.27	768.8	.....	.....	.....	s.	.....	.....	2	.....	4	.....	s.	sh'rs	sh'rs	mod.	s.	fair.
S. S. Salier, Bremerhaven, Germany	29.90	759.4	50.9	10.5	.....	nnw.	.....	.....	6	.....	8	.....	nnw.	3 h'r	3 h'r	.....	.....	cloudy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 32° 15′, E. 133° 14′*†	29.60	751.8	73	22.8	100	nw.	.....	.....	4–5	.....	10	.....	sw.	h'vy	h'vy	mod.	sw.	misty.
S. S. Belgic, N. 42° 41′, E. 156° 41′†	29.91	759.7	57	13.9	81	nw.	.....	.....	4	.....	10	.....	.....	0	0	mod.	w.	foggy.
S. S. Gaelic, N. 30° 18′, E. 128° 47′†	29.72	754.9	83	28.3	79	ssw.	.....	.....	5	.....	9	.....	ssw.	.....	.....	mod.	ssw.	cloudy.
S. S. Oceanic, N. 46° 51′, W. 173° 46′*	30.36	771.1	44	6.7	84	calm	.....	.....	0	.....	9	.....	n.	.....	.....	3	ene.	cloudy.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y†	29.77	756.1	.....	.....	.....	nw.	.....	.....	3	.....	4	.....	nw.	0	0	.....	.....	clear.
S. S. City of Columbus, N. 33° 58′, W. 77° 05′ †	29.93	760.2	.....	.....	.....	wsw.	.....	.....	5	.....	2	.....	nw.	1 h'r	1 h'r	long	sw.	clear.
S. S. Seminole, N. 32° 40′, W. 77° 10′†	30.02	762.5	84	28.9	79	wsw.	.....	.....	1	.....	1	.....	w.	0	0	sm'h	sw.	clear.
OREGON IMPROVEMENT COMPANY.																		
S. S. Willametta, N 45° 20′, W. 124° 30′†	30.22	767.6	58	14.4	88	w.	.....	.....	1	.....	0	.....	.....	0	0	.....	w.	foggy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, N. 40° 25′, W. 124° 35′†	30.03	762.7	50	10.0	86	nw.	.....	.....	1	.....	8	.....	nw.	.....	.....	high	nw.	misty.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 35° 30′, W. 121° 11′†	29.97	761.2	56	13.3	87	ese.	.....	.....	1	.....	10	.....	e.	.....	.....	sm'h	.....	cloudy.
S. S. Geo. W. Elder, Seattle, Wash. Ter.†	30.16	766.1	59	15.0	94	wsw.	.....	.....	3	.....	10	.....	.....	.....	.....	sm'h	.....	cloudy.
S. S. Idaho, N. 56° 52′, W. 135° 36′	29.97	761.2	47	8.3	100	se.	.....	.....	3	.....	10	.....	.....	.....	.....	.....	.....	foggy.
S. S Orizaba, N. 37° 07′, W. 122° 17′†	29.98	761.5	55	12.8	100	nw.	.....	.....	3	.....	fg.	.....	nw.	0	0	sm'h	nw.	dense fog.
S. S. State of California, San Francisco, Cal.†	29.99	761.7	52	11.1	93	wsw.	.....	.....	2	.....	10	.....	wsw.	.....	.....	.....	.....	overcast.
S. S. Victoria, N. 43° 48′, W. 124° 47′†	29.94	760.5	50	10.0	93	s.	.....	.....	2	.....	2	.....	.....	.....	.....	light	nw.	fair.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, N. 0° 41′, W. 167° 15′	29.91	759.7	81	27.2	78	se.	.....	.....	3	.....	0	.....	.....	0	0	sm'h	.....	clear.
S. S. City of Pekin, Hong Kong, China†	29.60	754.1	80	26.7	96	ssw.	.....	.....	2	.....	10	.....	wsw.	0	0	sm'h	.....	cloudy.
S. S. City of Rio de Janeiro, N. 12° 37′, W. 88° 30′†*	30.19	766.8	81	27.2	87	n.	.....	.....	1	.....	10	.....	w.	0.1	3.	long	s.	fair.
S. S. City of Sydney, Sydney N. S. W.†	29.67	753.6	57	13.9	60	sw.	.....	.....	6	.....	2	.....	sw.	0	0	sm'h	.....	clear.
S. S. City of Tokio, N. 40° 25′, W. 147° 20′†	30.34	770.6	58	14.4	88	s.	.....	.....	4	.....	10	.....	s.	2 h'r	2 h'r	mod.	s	raining.
S. S. Clyde, N. 15° 58′, W. 96° 31′†	29.98	761.5	81	27.2	70	nw.	.....	.....	2	.....	5?	.....	nw.	1 h'r	1 h'r	mod.	se.	clear.?
S. S. Colima, N 37° 48′, W. 122° 31′ †	29.97	761.2	53	11.7	93	calm	.....	.....	0	.....	10	.....	calm	0	0	sm'h	con.	cloudy.
S. S. Colon, Aspinwall, Panama†	29.99	761.7	80	26.7	.....	s.	.....	.....	1	.....	10	.....	se.	4 h'r	4 h'r	sm'h	.....	overcast

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
PACIFIC MAIL STEAMSHIP COMPANY.—CONTINUED.																		
S. S. Granada, N. 14° 29′, W. 93° 08′†	29.96	761.0	84	28.9	83	ene.			1		0			0	0	light		clear.
S. S. South Carolina, Panama, Panama†	30.01	762.2	83	28.3	79	nnw.			2		10		var.	sq'ls	sq'ls	sm'h		
S. S. Zelandia, S. 33° 52′, E. 158° 23′	29.73	755.1	65	18.3	78	w.			5		10		w.			high	w.	cloudy.
QUEBEC STEAMSHIP COMPANY.																		
S. S. Bermuda, St. Pierre, Martinique, W. I†	30.13	765.3	84	28.9		nne.			2		5		ene.	rain	rain	g'tl	se.	fine.
RED STAR LINE.																		
S. S. Rhynland, N. 44° 24′, W. 41° 22′	30.29	769.4	62	16.7	77	sw.			2		4		sw.	0	0	light	sw.	fair.
S. S. Switzerland, N. 41° 23′ W. 45° 56′†	30.33	770.4				sse.			2		2		s.	0	0	sm'h		fair.
S. S. Vaderland, N. 40° 51′, W. 66° 00′	29.70	754.4	59	15.0	94	sw.			1		fg.			0	0	sm'h		dense fog.
ROTTERDAM LINE.																		
S. S. P. Caland, N. 39° 48′ W. 64° 25′†	29.83	757.7	73.4	23	88	sse.			3		7 k;n		s.			sm'h	s.	fair.
S. S. W. A. Scholten, N. 47° 13′ W. 23° 00′	30.15	765.8	61.0	16.1	94	wsw.			5		6		sw.	0	0			
STATE LINE.																		
S. S. State of Florida, N. 45° 46′, W. 38° 11′	30.06	763.5	60	15.6		sw.			3		4		sw.	0	0	sm'h		fair.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 40° 21′ W. 72° 40′†	29.97	761.2	66.2	19.0	48	s.			1		3		s.	0	0	sm'h	s.	clear.
WARREN LINE.																		
S. S. Iowa, N. 44° 25′, W. 40° 25′*†	30.34	770.6	60	15.6		sw.			3		2		sw.	0	0	sl't	sw.	clear.
WHITE STAR LINE.																		
S. S. Britannic, N. 48° 37′, W. 29° 29′†	30.13	765.3	56	13.3	94	wsw.			4		8		w.	0	0	sm'h		d. clouds.
S. S. Celtic, Liverpool, England†	30.29	769.4	60	15.6	82	w.			3		0			0	0			fine.
S. S. Germanic, N. 41° 41′, W 61° 38′†	30.04	763.0	67	19.4		s.			2		6		wsw.			sm'h		d. clouds
S. S. Republic, N. 50° 06′ W. 22° 56′†	30.22	767.6	59	15.0	94	wsw.			4		8		w.	0	0	mod.	sw.	d. clouds.
WILSON LINE.																		
S. S. Romano, N. 42° 32′, W. 65° 55′	29.51	749.5	51	10.6		se.								0	0			foggy
MISCELLANEOUS.																		
Bg. Abbie Clifford, N. 20° 24′ W. 73° 58′*†	30.11	764.8	85	29.4		calm			0		3			0	0	sm'h		fine.
Schr. Addie Fuller, N. 38° 24′, W. 74° 24′†	29.90	759.4	67	19.4	90	calm			0	2 c	fg			0	0	sm'h		clear.
Schr. Ajax, N. 29° 59′, W. 93° 00′†	30.06	763.5				ssw.			1		1		sw.	0	0	sm'h	s.	clear.
Bk. Alpha, N. 26° 55′ W. 75° 15′†	30.04	763.0	78	25.6		nw.			1		3		n.	0	0	long	n.	fair.
Schr. Annie Lewis, Mobile, Ala†	30.19	766.8	75	23.9		s.			2		0			0	0			clear.
Bk. Anna Thorman, S. 17° 47′, W. 34° 57′	30.19	766.7	75.4	24.1	81	sse.			4		8 k		s.	2 h'r	2 h'r	mod.	se.	cloudy.
Schr. Asa Eldridge, Havana, Cuba, W. I.†	30.02	762.5				se.			3		5		ne.	0	0	sm'h		fair.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.45	773.4	78	25.6		nnw.			1		3		wsw.	2 h'r	2 h'r			clear.
Bk. Bergenseren, N. 39° 05′ W. 62° 30′†	29.73	755.2	73	22.8		ssw.			3				sw.	0	0	2	se.	fair.
Schr. C. R. Flint, Off Tampico Bar, Mexico†	30.16	766.1	84	28.9		calm			0		1		ese.	1 h'r	1 h'r	sm'h	e.	fair.
Schr. Edith R. Seward, Wilmington, N. C*†	29.94	760.5	84	28.9		w.			1		1		calm	½ h'r	½ h'r			clear.
S. E. J. Spicer, N. 46° 42′, W. 38° 00′†	30.32	770.1				wnw.			5		8			0	0	mod	nw.	
Bk. Essex, N. 0° 57, W. 31° 18′*†	30.01	762.2	79	26.1		se.			4		2		se.	0	0	h'vy	se.	fine.
S. Exporter, S 34° 20′, E. 75° 00′*†	29.80	756.9				nw·sw.			6		6		w.	0	0	cross		cloudy.
Bk. Freya, N. 43° 24′, W. 37° 37′			67	19.4		sw.			2		0			0	0	sm'h		fine.
S. Grecian, Hong Kong, China*†	29.70	754.4	80	26.7		calm			0		2		sw.	4 h'r	4 h'r			fair.
Bk Hattie G. McFarland, Sydney, Cape Breron*†	29.80	756.9	58	14.4		s.			3		10		s.	0	0			foggy.
S. Hedwig, N. 41° 37′, W. 40° 47′	30.32	770.2	67.6	19.8	87	sse.			1		4		sse.	0	0	sm'h	sw.	fine.
S. Ismir, S. 29° 52′ W 35° 00′†	30.22	767.6				sw.			4		10		sw.			sm'h	wsw.	drizzling.
Schr. James Slater, N. 1° 34′, W. 47° 30′*†	30.28	769.1	83	28.3		sse.			3					rain	rain	short	e.	
Schr. Jennie N. Huddle, Boston, Mass†	29.85	758.2	70	21.1	90	wnw.			1					0	0			clear.
Schr. John L. Thomas, Little Corn, Id., C. A.*†	29.98	761.5				nne.			3		7		ene.	0	0			gloomy.
Bkt. Josephine, N. 38° 59′, W. 72° 27′†	29.93	760.2	65	18.3	83	sse.			4		8			0	0	mod.	ene.	fair.
Light House Tender, Laurel, Key West, Florida†	30.10	764.5	83	28.3		se.			1		3		se.	0	0			fair.
S. Minnie N. Gerow, N. 41° 08′, W. 66° 39′*†	29.76	755.9				sw.			2		5		ssw.			sm'h	s.	dense fog.
S. M. P. Grace, N. 22° 46′, W. 40° 45′*	30.16	766.1	76	24.4		se.			4				ese.	0	0	sm'h	e.	squally.
S. S. Nebo, Off Seal Island, Canada*†	30.00	762.0				se.			2		10		se.	1 h'r	1 h'r	sm'h		dense fog.
S. Paramita, S. 58° 25′, W. 72° 50′†	29.68	753.9	43	6.1		nw.			6–8		5?		w.	7 h'r	7 h'r	hv'y	w.	clear ?
Bk. Peppina, N. 47° 39′ W. 6° 13′†	30.22	767.6	59	15.0	76	ne.			3		0			0	0		nw.	clear.
Bg. Potomac, N. 23° 35′, W. 55° 55′*†	30.20	767.1				s.			3				sw.	0	0	light	sw.	fine.
Bk. Princessen, N. 54° 33′ N. 10° 20′†	29.74	755.3	56	13.3		wnw.			4		8			5 h'r	5 h'r	sm'h		cloudy.
Bk. Rosebud, S. 25° 21′, W. 28° 00*†	30.05	763.3	70	21.1	84	var.			3		5			2 h'r	2 h'r	sm'h		gloomy.
S. Salisbury, S. 33° 05′, E. 97° 04′*	29.79	756.6	61.7	16.5	93	n.			8		3		n.	0	0	mod.	n.	clear.
S. S. Sunbeam, N. 50° 07′, W. 3° 58′	30.26	768.6	58	14.4	76	nw.			3		1		nw.					blue sky.
Bg. Teneriffe, N. 22° 50′, W. 70° 31′	30.02	762.5				calm			0		2			0	0	mod.		fine.
Bk. Truro, Havre, France*†	30.12	765.0				n.			2		2		n.	0	0			clear.
U. S. F. C. S. S. FishHawk, Mathias Point Md†.	30.05	763.3	76	24.4	86	w.			2		7		calm	0	0			cloudy.
Yacht Vega, N. 29° 55′, W. 70° 11′*†	30.11	764.8	73	22.8		n. to nw			1		5		n. to w.	0	0		n to w	fair.
Bk. Vincenzo Accame, N. 38° —′ W. 28° —′†	30.55	776.0	69.8	21.0		se.			1									
Schr. Viola Reppard, Brunswick, Ga†	29.96	761.0	80	26.7		wnw.			2		1		wnw.	0	0			clear.
Bkt. Wandering Jew, N. 40° 45′, W. 69° 25′*†	29.76	755.9	65	18.3		sw.			4		fg.			0	0	long	se.	foggy.
Bk. Warden Law, N. 42° 57′, W. 37° 54′*	30.23	767.8				se.			2		2		sse.	0	0	s'mh	s.	fair.
Bg. Wauburn, N. 39° 23′, W. 73° 52′*†	29.80	756.9				ssw.			5		4		s.	0	0	mod.	s	hazy.
Bk. Wm. Wilcox, S. 0° 20′, W. 29° 40′*†	30.19	766.8	78	25.6		ese.			3		2		se.	0	0	mod.	se.	hazy.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 17, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.99	761.8	76.1	24.5	80	s.			1		0			0	0	clear	Moiroud
Algiers			30.05	763.2	72.3	22.4	79	ne.			3		0			0	0	clear	Nicolas.
La Galle			30.06	763.4	80.2	26.8	64	ese.			1		2			inap.	inap.	fair	Fonfrède.
Tunis			30.04	763 0															Jacques.
Saida			30.10	764.6	92.8	33.8	25	ese.			2		3			0	0	pretty fair	Perès.
Tebessa			30.10	764.4	82.4	28.0	17	nw.			3		2			0	0	fair	Derché.
Geriville					95.0	35.0	9	ssw.			1		1			0	0	very fair	Louchamp.
Laghouat			30.11	764.9	96.1	35.6	31	n.			1		0			0	0	clear	Abraham.
Biskra			30.10	764.4	96.4	35.8	23	se.			1		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.53	750.0	29.62	752.3	50.0	10.0	78	nw	15	6.7			10			0.01	0.3	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.53	750.0	30.07	763.8	61.9	16.6	42	se.			2		5			0.004	0.1	raining	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.22	742.1	29.98	761.6	53.2	11.8	84	wsw.	6.3	2.8			10			0.161	4.1		Dr. Wierzbiski.
Eperies	29.03	737.3	29.89	759.1	63.3	17.4	50	calm			0	c	8 s		e.	0	0		Julius Mikolik.
Gratz	28.82	732.0	30.05	763.2	61.9	16.6	55	nw.			5		1			0	0		Andreas Rospini.
Hermannstadt	28.51	724.2	29.95	760.6	54.7	12.6	94	nw.			2		10			0.248	6.3	raining	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.80	731.6	30.14	765.6	55.9	13.3	50	wnw.			1		6			0.004	0.1		The Staff.
Lemberg	28.94	735.1	29.91	759.6	61.9	16.6	52	nw.			1		7			0.031	0.8		Dr. T. Stanecki.
Pola	29.96	760.9	30.07	763.7	66.7	19.3	64	e.			2		5			0.630	16.0	thunder	I. R. Hydrographic Office.
Szathmar	29.44	747.7	29.89	759.2	64.2	17.9	44	sw.			3		9			0.098	2.5		Joseph Midlinszky, S. J.
Szegedin	29.70	754.4	29.98	761.4	62.2	16.8	45	n.			1		8			0	0		Karl Stancel.
Trieste	29.98	761.5	30.08	764.1	67.3	19.6	30	ne.			1		6			0	0		Royal Academy.
Vienna	29.40	746.7	30.11	764.8	57.2	14.0	51	wnw.			2		8			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.80	756.9	29.90	759.4	55.6	13.1	59	s.	14	6.3			6			0.170	4.3	d. clouds	W. Boswell
Armagh, Observatory																			S. Gall.
Bidston, Liverpool Obs'y			29.99	761.7	58.2	14.6	60	s.	12	5.4			10					overcast	John Hartnup.
Bolton, Sharples	29.45	748.0	29.98	761.5	58.8	14.9	61	ssw.	12	5.4			10					overcast	Thomas Mackereth, A.S.
Bradford, Yorkshire	29.59	751.6	29.99	761.7	59.4	15.2	55	sw.			1		10			0.01	0.3	overcast	J. McLandsborough, F. R
Bridgetown, Barbadoes																			Corpl. J. Surgenor, A. H. C.
Cardington																			John McLaren.
Chatham, School M. E.	30.01	762.2	30.14	765.5	64.3	17.9	52	sw.			1		5			blank	blank	d clouds	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.85	758.2	30.08	764.0	59.2	15.1	64	s.			3		9					overcast	The Staff.
Fort Napier, Natal	27.88	708.1	30.10	764.5	71.6	22.0	31	e.			1		0					blue sky	Pvt. Lane, A. H. C
Free Town, Sierra Leone	29.65	753.1	29.88	758.9	87.0	30.6	69	sw.			6		3					drizzling	Sergt. John Robinson.
Gibraltar, Mediterranean	30.02	762.5	30.07	763.8	79.5	26.4	71	w.			4		0					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.66	753.4	29.87	758.7	53.0	11.7	81	s.			3		10 k					gloomy	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.93	760.2	30.10	764.5	65.5	18.6	50	ssw.			1		4					d. clouds	The Staff.
Guernsey	29.81	757.2	30.11	764.8	62.0	16.7	61	se.			1		0					blue sky	A. Collenette, F. M. S.
Kew, Observatory	30.07	763.8	30.11	764.8	62.3	16.8	59	sw.	20	8.9			6					hazy	The Staff.
Leicester, Museum	29.78	756.4	30.04	763.0	64.5	18.1	48	sw.			1		4					d. clouds	J. C. Smith.
Malta, Mediterranean	29.87	758.7	29.94	760.5	79.8	26.6	50	nw.			1		3					blue sky	I. H. Whysall.
Nassau, Bahamas	30.02	762.5	30.07	763 8	82.5	28.1	67	s.			1		5					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.52	749.8	30.03	762 7	61.7	16.5	53	ssw.			5		6					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.84	757.9	30.07	763.8	61.6	16.4	52	s.			4		7					d. clouds	The Staff.
Plymouth	30.02	762.5	30.09	764.3	63.0	17.2	63	ssw.			2		8					d. clouds	John Merrifield.
Sandwick Manse, Orkneys			29.78	756.4	53.5	11.9	76	se.	20	8.9			5					d. clouds	Rev. C. Clouston, L. L.D
Scutari Cemetery, Turkey	29.73	755 1	29.80	756.9	79.8	26.6	36	ne.			2		6					d. clouds	W. H. Lyne.
Sheffield	29.74	755.4	30.02	762.5	65.0	18.3	54	sw.			1		8			0.11	2.8	overcast	W. F. Cooper.
Silloth Rectory	29.89	759.2	29.92	760.0	57.8	14.3	66	sw.			6		10			0.290	7.4	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.00	762.0	57.5	14.2	57	sw.	15	6.7			10					overcast	J. New.
Stratfield Turgiss	29.88	758.9	30.10	764.5	64.6	18.1	44	sw.			2		3					d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	30.03	762.7	30.05	763.3	64	17.8	67	s.			4		6					d. clouds	W. Newcombe.
Valencia, Observatory	29.74	755.4	29.77	756.1	57.6	14.2	85	wsw.	31	13.9			7			blank	blank	misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.72	754.9	29.76	755.9	55	12.8	92	w.	5	2.2			10 n		n.	0.150	3.8	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.77	756.1	29.83	757.7	57	13.9	83	nw.	3	1.3		2 k	2 ks	nw.	nw.	0	0	fair	G. A. Blair.
Father Point, Quebec*	29.77	756.1	29.79	756.7	50	10.0	93	nw.	5	2.2		8 c	hz.	w.		0.10	2.5	cloudy	J. McWilliams.
Halifax, N. S*	29.61	752.1	29.73	755.1	60	15.6	100	nw.	5	2.2			fg.			0.230	5.8	foggy	A. Allison.
Kingston, Ontario*	29.33	745.0	29.65	753.1	61	16.1	93	s.	1	0.4		10 cs	o			0	0	foggy	A. P. Knight, M. A.
Montreal, Quebec*	29.49	749.0	29.69	754.1	63	17.2	78	s.	5	2.2		0	sk.			0	0	smoky	C. H. McLeod, C. E.
Parry Sound, Ontario*	28.89	733.8	29.56	750.8	59	15.0	93	se.	7	3.1		5 k	5 ks	s.	s.	0.20	5.1	cloudy	Rev. R. Mosley.
Port Dover, Ontario	28.96	735 6	29.03	752.6	63	17.2	94	sw.	3	1.3		4 k	0	sw.		0	0	fair	H. Morgan.
Port Stanley, Ontario	29.00	730.6	29.62	752.3	64	17 8	93	s.	1	0.4		hz.	hz.			0	0	hazy	M. Payne.
Quebec, Quebec*	29.44	747.8	29.75	755.6	57	13 9	90	w.			1	0	hz.			0	0	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.16	740.7	29.60	751.8	60	15.6	84	e.	5	2.2			10 s		sw.	0	0	cloudy	W. H. McIntyre.
Saugeen, Ontario*	28.85	732.8	29.54	750.3	57	13.8	93	s.	9	4.0			10 s			0	0	cloudy	
St. Andrews, N. B	29.70	754.4	29.75	755.6	62	16.7	70	n.	3	1.3		2 ck	5 k	nw.		0	0	fair	
Sydney, C. B*	29.67	753.6	29.73	755.1	49	9.4	100	n.	4	1.8			10 n			0.55	14.0	foggy	T. C. Hill, C. E
Toronto, Ontario*	29.27	743.4	29.65	753.1	57	13.9	96	e.	5	2.2			fg.			0	0	dense fog	Magnetic Observatory.
Yarmouth, N. S*	29.68	753.9	29.75	755.6	52	11.1	96	nw.	1	0.4			fg.			0.08	2.0	foggy	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.24	717.3	29.66	753.4	63.0	17.2	88	ese.				5 cs	0	ese.		0	0	fair	Wm. Wylie.
St. Johns, Newfoundland	29.98	761.5	30.22	767.6	69	20.6	90	s.	2	0.9			10 n			0.05	1.3		John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.18	766.6	30.21	767.3	64.0	17.8	88	sw.	5.5	2.5		0	0			0	0	clear	John Duthie.
Cape Town, C. G. H. Obs'y	30.20	767.1	30.24	768.1	58.4	14.7	82	wsw.	3	1.3		0	0			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Chinese (Sub-series).																			
Hankow	29.61	752.1	29.88	758.9	72.0	22.7	95	wsw.			2		10			0.86	21.8	raining	N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.69	754.1	29.72	754.8	68.0	20.0	96	ne.	4.5	2.0			10 n			1.858	47.2	raining	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.90	759.5	29.95	760.7	56.7	13.7	55	nw.	22	10			8						Oversergent Fischer.
Fanöe	30.02	762.5	30.04	763.0	51.3	10.7	87	wnw.			6		10						Overloerer Lauridsen.
Godthaab, Greenland	29.42	747.2	29.46	748.3	37.4	3.0	95	nne.			2		10			0	0		S. Kleinschmidt.
Stykkisholm, Iceland	29.58	751.3	29.62	752.4	47.8	8.8	81	se.			4		5						A. O. Thorlacius.
Thorshavn	29.79	756.6	29.82	757.5	51.3	10.7	79	ese.	16	7			10						Overloerer Bergh.
Vestervig	29.87	758.7	29.96	761.0	52.0	11.1	60	wnw.			6		9						Loerer Oesterbol.
French.																			
Agen, Normal School	29.43	747.5	30.05	763.3	74.1	23.4	43	calm			0	c; ck	c			0	0		M. Labroue, Director.
Alençon, Normal School	29.63	752.6	30.18	766.6	59.4	15.2	70	e.			1		k	n.	n.	0	0		M. Nicot, Director.
Arras, Engineer School	30.08	763.9	30.33	770.3	64.9	18.3	69	nw.			2		kn		nw.	0.055	1.4		M. Fénéon, Command't.
Avignon, Normal School	29.96	761.0	30.04	763.0	75.9	24.4	37	n.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.64	752.8	30.19	766.8	61.2	16.2	45	se.			1		3			0	0	slightly cl'd'y	M. Saillard, Director.
Beauvais, Normal School	29.92	760.0	30.19	766.7	62.1	16.7	40	e.			1		2		ene.	0	0	slightly cl'dy	M. Frère Eugène Marié.
Besançon, Normal School	29.10	740.6	30.11	764.7	64.4	18	46	ne.			1	c	0	sw.		0	0		M. Gobin, Director.
Bordeaux, Observatory	29.79	756.6	30.04	763.1	70.7	21.5	32	e.			1		8			0	0	very cloudy.	M. Rayet, Director.
Bourges, Normal School	29.58	751.4	30.12	765.1	68.9	20.5	33	ene.			1	c	0	ene.		0	0		M. Postel, Director.
Brest, Naval Observatory	29.87	758.6	30.11	764.8	73.0	22.8	63	sw.			1		1		sw.	0	0		M. de Kermaree, Dir.
Caen, Normal School	30.00	763.4	30.13	765.3	68.7	20.4	44	s.			1		2		s.	0	0	slightly cl'dy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.84	758.0	30.17	766.2	55.0	12.8	66	e.			2		0			0	0	clear	M. Jadot, Director.
Charleville, Normal School	29.62	752.4	30.12	765.1	63.0	17.2	34	se.			1		0			0.24	6.	clear	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.76	730.4	30.08	764.0	68.0	20.0	41	ne.			1		0			0	0	clear	M. Alluard, Director.
Cluny, Normal School	29.34	745.2	30.24	768.1	65.3	18.5	42	ne.			1		0			0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.35	745.4	30.21	767.4	61.0	16.1	49	ne.			1		ckn	ne.	ne.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.58	700.4	30.03	762.7	72.0	22.2	34	s.			1	0	1 cn		w.	0	0		M. Jeanginard, Director.
Gréasque, du Rhone	28.93	734.8	30.01	762.3	75.6	24.2	33	sw.			3		3		sw.	0	0		M. Kinn, Director.
Grenoble, Normal School	29.33	744.9	30.08	764.0	65.9	19.4	81	wnw.			1	c	0			0	0		M. Ablard, Director.
Guéret, Normal School	28.55	725.2	30.09	764.3	66.2	19	38	se.			1		0			0	0	clear	M. Rivoire, Director.
Lamballe, Normal School	29.82	757.4	30.10	764.4	68.9	20.5	50	se.			2		1		se.	0	0	clear	M. Ollitrault, Director.
Lescar, Normal School	29.55	752.6	30.11	764.8	62.6	17	68	se.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.04	762.9	30.14	765.5	68.4	20.2	55	s.			3		2		calm	0	0	¼ covered	Lt. T. Carre, Director.
Lyon, St. Genis-Laval	29.09	738.9	30.13	765.3	63.5	17.5	30	ne.			1		0			0	0	clear	M. André, Director.
Mans, Normal School	29.89	759.1	30.19	766.9	61.3	16.3	50	se.			1		2		w.	0	0	slightly cl'dy	M. Piboen, Director.
Marseille, Observatory	29.78	756.3	30.04	763.0	73.6	23.1	52	s.			2-3		1		se.	0	0		M. Stephan, Director.
Montlouis	24.91	632.8	29.70	755.8	62.2	16.8	51	se.	13.0	5.8			6	e.		0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.93	760.1	30.05	763.2	77.0	25	28	w.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.41	747.0	30.19	766.7	59.4	15.2	47	nw.			1		k		nw.	0	0		M. Hasse, Director
Nantes, Observatory	29.98	761.6	30.15	765.7	71.6	22	40	ene.			0-2	0	1 k		ese.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.97	761.2	30.08	763.9	71.8	22.1	34	se.	11.2	5.0			2	wnw.		0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.38	543.1			48.2	9.0		sw.			1		5		sw.	0	0	cloudy	Gen'l de Nansouty, Dir.
Privas, Normal School	29.13	739.8	30.17	766.3	69.8	21	27						0			0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.20	641.5			43.5	6.4	77	e.			3		0			0	0	clear	M. Alluard, Director.
Rochefort, Naval Obs'y	30.04	763.1	30.08	763.9	72.7	22.6	100	e.			2		5		ene.	0	0	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.93	760.2	30.14	765.5	70.5	21.4	45	e.			2		0			0	0	clear	M. Mouillot, Director.
Rodez, Normal School	28.00	711.2	30.09	764.3	66.9	19.4	42	calm			0					0	0		M. Seger, Director.
Rouen, Normal School	30.12	765.0	30.17	766.2	63.7	17.6	51	s.			2		0			0	0	clear	M. Brotier.
Saint Maur, Observatory	30.02	762.4	30.18	766.6	62.8	17.1	39	ese.			1		1		e.	0	0		M. Renou, Director.
Toulouse, Observatory	29.40	746.8	30.13	765.2	79.3	26.3	31	ne.			1		2	w.		0	0	slightly cl'dy	M. Baillaud, Director.
Tours	29.94	760.4	30.11	764.9	67.3	19.6	45	ne.			1		0			0	0	clear	M. de Tastes.
Versailles, Observatory	29.09	754.2	30.19	766.7	62.6	17	34	s.			3					0	0		Dr. A. Bergny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.90	759.5	30.19	766.9	63.7	17.6	39	e.			1		1		ene.	0	0		M. Marié Davy, Director
German.																			
Bamberg	29.33	744.8	30.18	766.6	59.0	15.0	50	nw.			2	0	3 k		w.	0	0		Prof. Dr. Hoh.
Berlin	29.97	761.3	30.15	765.8	58.6	14.8	65	w.			3		8			0.291	7.4		Prof. Dr. Arndt.
Breslau	29.54	750.2	30.07	763.7	56.5	13.6	71	w.			3		8			0.370	9.4		Royal University Obs'y.
Carlsruhe	29.77	756.2	30.21	767.4	58.8	14.9	52	ne.			1		1	nw.		0	0		Albert Senz.
Cassel	29.42	747.3	30.13	765.4	52.9	11.6	54	w.			2		6	w.		0.079	2.0		Dr. H. Möhl.
Frankfort-on-the-Main	29.84	757.9	30.21	767.2	59.5	15.3	44	nw.			1		6			0	0		Physical Society.
Friedrichshafen	28.75	730.3	30.19	766.7	57.2	14.0	60	sw.			2		2	wsw.		0	0		Wilhelm, Chief Tel.
Hamburg	30.03	762.8	30.13	765.2	52.0	11.1	67	wnw.			4		10			0.028	0.7		E. Preller.
Kiel	30.00	763.4	30.07	763.8	54.7	12.6	62	w.			6		10			0.126	3.2		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.72	755.0	30.15	765.8	55.0	12.8	73	wsw.			3		9	w.		0.063	1.6		H. Leppig, Asst.
Magdeburg	29.94	760.4	30.13	765.2	56.1	13.4	66	w.			4		10 ks		w.	0.012	0.3		Dr. Assmann.
Memel	29.85	758.3	29.86	758.5	59.5	15.3	77	wsw.			4	0	2 k						Isserimann.
Munich	28.35	720.2	30.23	767.8	56.3	13.5	42	nw.			1		4	w.		0	0		Central Station.
Neufahrwasser	29.92	760.0	29.94	760.4	56.5	13.6	37	w			2		6			0.016	0.4		A. Lothes.
Neustadt, Palatinate	29.05	753.2	30.19	766.7	59.9	15.5	52	calm			0		6			0	0		Dicknether.
Stuttgart	29.23	742.5	30.12	765.1	59.0	15.0	53	n.			1		5	w.		0	0		Prof. Dr. Schoder.
Wustrow	30.02	762.5	30.05	763.2	55.2	12.9	94	wnw.			4		10 s			0.047	1.2		Profs. Brandes & Reimer
Greek.																			
Athens	29.44	747.8			81.0	27.2		sw.			1.0	1 c	0			0	0	clear	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.53	750.2	29.58	751.4	87.8	31.0	73	w.	33.0	14.8			4		w.	0	0	misty	
Deesa	29.01	736.9	29.46	748.4	98.1	36.7	30	sw.	17.4	7.8			7	sw.	sw.	0	0	d. clouds	
Bombay	29.69	754.2	29.73	755.1	83.0	28.3	85	w.	17.0	7.6			10		w.	0.21	5.3	overcast	
Poona, Yarrowda	27.80	707.6	29.71	754.6	78.0	25.6	71	wsw.	25.0	11.2			10		w.	0	0	overcast	
Trichinopoly	29.48	748.6	29.75	755.6	89.6	32.0	48	wnw.	5.0	2.2			4			0	0	d. clouds	
Bellary	28.19	716.0	29.61	752.1	93.0	33.9	34	w.	14.9	6.7			4			0	0	d. clouds	
Belgaum	27.22	691.4	29.76	755.9	74.2	23.4	77	wsw.	11.0	4.9			4	sw.	sw.	0	0	d. clouds	
Lahore	28.62	727.0	29.32	744.7	105.3	40.7	20	nw.	2.8	1.2			0			0	0	blue sky	
Roorkee	28.53	724.8	29.41	746.9	87.2	30.7	71	calm	1.4	0.6			10			0.35	8.9		
Agra	28.89	733.8	29.44	747.8	85.7	29.8	59	s.	5.4	2.4			10		s.	0	0	overcast	
Nagpur	28.48	723.5	29.50	749.3	88.2	31.2	50	nw.	9.3	4.2			9		w.	0	0	gloomy	
Jubbulpore	28.13	714.5	29.48	748.8	76.8	24.9	86	nw.	7.8	3.5			10		nw.	3.20	81.3	raining	
Lucknow	29.00	736.5	29.36	745.8	85.1	29.5	81	nne.	5.9	2.6			9	ssw.		1.69	42.9	d. clouds	
Allahabad	29.05	737.8	29.35	745.5	83.3	28.5	85	calm	5.3	2.4			10		e.	0.29	7.4	overcast	
Patna	29.25	742.9	29.43	747.5	85.0	29.4	83	se.	9.0	4.0			5	se.	se.	0.03	0.8	d. clouds	
Hazaribagh	27.43	696.7	29.42	747.3	75.8	24.3	72	s.	9.9	4.4			5		s.	0.02	0.5	drizzling	
Cuttack	29.45	748.1	29.53	750.2	82.0	27.8	82	wsw.	1.9	0.8			10			0.91	23.1	raining	
Calcutta, Alipore	29.45	748.1	29.47	748.6	83.9	28.8	83	ssw.	4.0	1.8			10	s.	s.	0	0	overcast	
Dhubri	29.37	745.9	29.48	748.8	88.7	31.5	72	calm	7.7	3.4			8		se.	0	0	d. clouds	
Chittagong	29.48	748.9	29.57	751.1	79.1	26.2	94	calm	8.7	3.9			10			0.16	4.1	overcast	
Sibsagar	29.19	741.3	29.51	749.6	86.6	30.3	78	ne.	1.5	0.7			6	w.	w.	0.50	12.7	d. clouds	
Jeypore	28.01	711.4	29.35	746.6	94.2	34.6	40	e.	9.6	4.3			7	w.		0	0	d. clouds	
Zanzibar, Africa	30.07	763.8			79.4	26.3	69	se.	13.1	5.9			8		sse.	0.25	6.3	d. clouds	
Italian.																			
Udine	29.69	754.0	30.09	764.2	66.4	19.1	53	sw.	1.3	0.6			1			0.142	3.6		Prof. Giovanni Clodig.
Milan	29.60	751.7	30.10	764.5	68.5	20.3	35	s.	3.6	1.7			4	ene.		0	0		Prof. Schiaparelli.
Padua	29.99	761.8	30.10	764.5	66.4	19.1	37	ese.	5.6	2.5			1	wnw.		0.165	4.2		Prof. Dott. Lorenzoni.
Moncalieri	29.19	741.4	30.07	763.7	67.8	19.9	50	e.	3.1	1.4			8	nw.		0	0		Prof. P. F. Denza.
Genoa	29.87	758.8	30.06	763.6	70.9	21.6	29	n.	5.6	2.5			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.19	715.9	30.04	763.0	62.8	17.1	42	n.			4		6	w.		0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
ITALIAN.—Continued.																			
Pesaro	30.05	763.3	30.10	764.5	64.0	17.8	54	ne	4.3	1.9			0			0	0		Prof. Luigi Guidi.
Florence	29.80	756.8	30.04	763.1	71.6	22.0	29	n.			4		0			0	0		Prof. Costantino Pitter
Leghorn	29.89	759.3	29.98	761.4	72.5	22.5	42	wnw.	6.9	3.1			2			0	0		Prof. P. Monte.
Rome	29.76	755.9	29.93	760.2	79.2	26.2	31	nnw.	3.1	1.4			1			0	0		Prof. P. S. Ferrari.
Lecce	29.67	753.6	29.91	759.8	73.8	23.2	57	nnw	20.6	9.2			2			0	0		Prof. C. de Giorgi.
Cosenza	29.04	737.7	29.91	759.6	78.4	25.8	72	wsw.	3.8	1.7			2	w.		0	0		Prof. D. Conti.
Cagliari	29.77	756.2	29.96	761.0	78.6	25.9	24	nw.			4		0			0	0		Prof. A. Pacinotti.
Palermo	29.75	755.7	30.00	762.0	76.3	24.6	51	ne.	8.7	3.9			1	w.		0.091	2.3		Prof. G. Ciacciatore.
Syracuse	29.89	759.1	29.93	760.2	75.6	24.2	63	e.	5.6	2.5			1	wnw.		0.031	0.8		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.41	747.0	29.92	759 9	74.3	23.5	64	sw.	5.6	2.5			2	sw.		0	0		Prof. T. Brioschi.
Stelvio	22.22	564.4			35.6	2.0	51	sse.			4		2			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.26	565.3			38.7	3.7	75	e.			2		8			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.58	751.3	29.61	752.1	61 5	16.4	90	n.	0.5	0.2		0	8 s			0.010	0.2	cloudy	K. Ogawa.
Hakodate	29.61	752.1	29.62	752.3	59.2	15.1	92	calm	0	0			5			0	0	fair	
Hiroshima, I. M. Obs'y	29.63	752.6	29.64	752.8	66.6	19.2	97	wnw.	1.1	0.5			10 n			0.632	16.0	light rain	I. Sogawa.
Kanazawa	29.79?	756.6?	29.80?	759.2?	68.9	20.5	97	w.	7.7	3.4			10 n			0.970	24.6	raining	S. Endo.
Kioto	29.49	749.0	29.66	753.3	70.0	21.1	96	w.					10 n			1.459	37.1	light rain	M. Tojima.
Kochi	29.67	753.6	29.69	754.1	69.9	21.1	96	e.	2.7	1.2			10 n		sw.	5.350	135.9	light rain	K. Kusunose.
Nagasaki, I. M. Obs'y	29.46	748.3	29.65	753.1	69.0	20.6	94	sse.	4.0	1.8			10 n			4.410	112.0	light rain	S. Takechayashi.
Nemuro	29.76	755 9	29.82	757.4	55.0	12.8	96	sse.	3.0	1.3		10	0					rainy	
Niigata	29.57	751.1	29.61	752.1	66.3	19.1	97	sw.	2.1	0.9		ck	10 s			0.280	7.1	covered	M. Morita.
Nobiru	29.59	751 6	29.61	752.1	60.4	15.8	96	nnw.	1.2	0.5		0	7 s			0.135	3.4	fair	H. Midzushina.
Sapporo					59.5	15.3	84	se.	12.0	5.4			1			0	0	clear	
Tokei Obs'y, Yeddo	29.56	750.8	29.63	752.6	66.2	19.0	95	nnw.	1.8	0.8			10 n;s			0.332	8.4	overcast	The Staff.
Wakayama	29.63	752.6	29.68	753.9	69.0	20.6	97	wnw.	3.1	1.4			10 n			3.194	81.1	raining	Y. Kuwamura.
MAURITIUS																			
Mauritius Observatory	30.05	763.3	30.24	768.1	72.0	22.2	56	se.	15.5	6.9		0	4 k;ks		ese.	0.05	1.3	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.72	602 4	29.94	760.4	58.1	14.5	90	ene.				0	2 s		e.	0	0	clear	Prof. Vicente Fernandez.
Leon	24.33	618 0	29.99	761.7	58.6	14.8	84	n.			1	5 c	0	sw.		0	0		Prof. M. Leal.
Mazatlan	29.74	755.4	30.00	761.9	78.0	25.6	82	ene.	0.9	0.4		0	7 n			0	0	light haze	F. Quijano, U. E.
Mexico, Central Obs'y	23.14	587.8	30.15	765.8	57.6	14.2	80	calm	0	0			10 k			0	0	covered	The Staff.
Morelia	24.23	615.3	30.29	769.3	60.8	16.0	73	se.			2	2	1	s.	s.	0	0	½ clouded	M. Tena, M. D.
Pabellon, Aguascalientes	23.94	608.0	29.91	759.6	61.3	16.4	91	calm			0					inap.	inap.		M. V. de Leon, M. E
Puebla, Catholic Institute	23.43	595.2	30.16?	765.9?	56.1	13.4	79	calm	0	0		0	7		wsw.	0	0	cloudy	Prof. P. Spina.
San Luis Potosi	24.23	615.5	30.19	766.7	60.3	15.7	52	e.				0	0			0	0	clear	G. Barroeta, M. D.
Zacatecas	22.62	574.4	30.21	767.4	57.5	14.2	77					0	1 s			0	0	clear	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.19	766.7	30.19	766.7	63.5	17.5		se.			2					0	0		
Groningen	30.11	764.7	30.16	766.1	55.8	13.2		nw.			1					0	0		
Helder	30.16	766.1	30.16	766.1	53.4	11.9		wsw.			1					0	0		
Hellevoetsluis	30.18	766.5	30.18	766.5	66.0	18.9	57	w.			1					0	0		
Utrecht	30.14	765.6	30.19	766.8	62.4	16.9	53	sw.			1		5			0	0	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.84	757.9	29.90	759.5	52.5	11.4	52	w.	9	4			5			0	0		
Brono	29.86	758.4	29.90	759.4	44.6	7.0	09	n.	27	12			8			0.008	0.2		
Christiania	29.68	753.9	29.82	757.5	60.8	16.0	45	ne.	0	0			6			0	0	snowing	
Glæsvær	29.62	752.4	29.65	753.0	35.6	2.0		nne.			6		10						
Lodingen	29.82	757.5	29.87	758.7	41.9	5.5	59	nnw.			6		10			0	0		
PORTUGUESE.																			
Augra, Azores					64.9	18.3	84	sse.	8.7	3.9			3			0	0		Dr. J. A. Sampaio.
Campo Major	29.04	737.7	30.01	762.3	73.8	23.2	42	wsw.	1.8	0.8			4			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.17	766.2	30.25	768.4	68.9	20.5	61	sw.	2.5	1.1			9			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.70	754.3	30.05	763.3	64.4	18.0	67	w.	15.4	6.9			5			0	0		The Staff.
Ponta Delgada, Azores	30.34	770.5	30.41	772.3	71.6	22.0	86	calm	0	0			4			0	0		
Saint Paul de Loando	29.77	756.1	29.97	761.3	72.3	22.4	89	wsw.	0.7	0.3			6	e.		0	0		
Serra da Estrella	25.27	641.9	29.91	759.7	57.0	13.9	69	sse.	28.0	12.5			8			0	0		
RUSSIAN.																			
Akmoltinski	28.58	726.0	29.61	752.2	67.1	19.5	50	nnw.	22	10		0	5 k			0.051	1.3		
Archangel	29.52	749 7	29.54	750 2	61.7	16.5	52	s.	18	8		0	8 n			0	0		Major K. Lasarew.
Astrakhan	29.82	757.4	29.74	755.3	88.0	31.1	50	se.	9	4		0	3 s			0	0	light clouds	Capt. Sselilwerstow.
Barnaul	28.82	732.1	29.30	744.2	63.9	17.7	75	calm	0	0			9			0.402	10.2		Capt. Wisganow.
Dorpat	29.50	749.3	29.74	755.3	59.2	15.1	59	n.	7	3			10 kn			0.197	5.0	raining	Meteorological Obs'y.
Ekaterinburg	28.99	730.3	29.93	760.1	63.1	17.3	63	ne.	9	4			9			0.059	1.5		Observatory.
Irkutsk	28.00	711.2	29.59	751.6	58.6	14.8		sse.					9			0.010	0.4	thnd'rstorm	Meteorological Obs'y.
Kasan	29.58	751.2	29.83	757.7	71.4	21.9	72	wsw.	2	1			10			0.024	0.6		Observatory.
Kertch	29.81	757.1	29.83	757.6	75.0	23.9	46	ne.	9	4		3 ck	0			0	0		Lagorio & Sastyrea.
Kieff	29.26	743.1	29.87	758.7	66.6	19.2	49	wsw.	4	2		c;cs	10 ks			0.673	17.1		Observatory.
Lugan	29.60	751.7	29.79	756.7	80.4	26.9	30	nnw.	18	8			6			0	0		Meteorological Obs'y
Moscow	29.26	743.1	29.71	754.7	64.6	18.1	46	s.	7.8	3.5			3 ks						Meteorological Obs'y.
Nikolaiev	29.78	756.4	29.85	758.2	83.5	28.6	31	ssw.	13	6		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.48	748.9	29.57	751.1	56.7	13.7	93	n.	4	2			10			0.181	4.6	raining	Lieut. Iwanow.
Pekin, China	29.35	745.4	29.49	749.0	90.0	32.2	34	calm	0	0		0	5 k			0	0		Physical Observatory
St. Petersburg	29.62	752.3	29.63	752.7	59.9	15.5	57	nw.	18	8		cs	7 k;n			0	0	solar corona	Central Physical Obs'y
Semipalatinsk	28.87	733.3	29.49	749.1	70.5	21.4	42	wnw.	9	4		0	8 k			0.016	0.4		Major Lasarew.
Tashkend, Laboratory	28.11	714.0	29.56	750.9	87.3	30.7	52	calm	0	0			6			blank	blank	heavy cl'ds.	Teich, A. M.
Tiflis	28.40	721.4	29.77	756.2	69.8	21.0	66	n.	4	2			10 n			0.323	8.2		Physical Observatory
Vladivostock	29.45	747.9			56.1	13.4	97	se.	34	15			10 n						
Warsaw	29.51	749.6	29.93	760.2	57.2	14.0	76	ese.	4	2		0	8 ks			blank	blank		Astronomical Obs'y
Wilna	29.45	748.0	29.86	758.4	62.2	16.8	48	w.	2	1			2			0.268	6.8		Berg, Assistant.
SPANISH.																			
Barcelona, Met. Obs'y	29.94	760.4	30.04	763.0	71.6	22.	59	se.	4.3	1.9			0			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.93	760.3	29.99	761.8	79.2	26.2	51	w.	1.8	0.8		2	6	sw.		0	0	almost cov.	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.09	688.1	29.91	759.6	79.7	26.5	67	ne.	3.8	1.7			5			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.77	705.3	29.87	758.8	84.0	28.9	41	s.	9.2	4.1		0	7			0	0	cloudy	The Staff.
Murcia, Met. Obs'y	29.89	759.1	30.05	763.2	79.7	26.5	64	ene.	5.6	2.5		0	3			0	0	clouds	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.06	738.1	29.93	760.1	73.9	23.3	64	calm	0	0			0			0	0	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	29.96	761.0	30.03	762.7	79.9	26.6	79	ese.	1.3	0.6		0	0			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.84	757 8	29.89	759.3	84.5	29.2	80	ssw.	7.7	3.4		0	8 kn		e.	0	0	threatening	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.04	762.8	30.13	765.3	70.0	21.1	62	wsw.	14.8	6.6		0	7		w.	0	0		Capt. C. Pujazon, B. N.
San Juan de Porto Rico, W. I	30.00	761.9	30.09	764.2	79.5	26.4	89	s.	15.2	6.8		2 cs	3 k	s.	s	0	0		Manuel Maese.
Tuguegarao, Philippine Id's	29.74	755.4	29.88	758.9	83.5	28.6	82	nnw.	11.4	5.1		0	1 k		n.	0	0	clear	José L. Yrastorza.
SWEDISH																			
Haparanda	29.44	747.8	29.48	748.8	40.3	4.6	87	ne.			6		10			0.224	5.7		
Umea	29.60	751.7	29.65	753.0	56.1	13.4	80	nw.			6		10			0	0		
Hernosand	29.65	753.1	29.70	754.4	55.4	13.0	53	nw.			4		8			0.028	0.7		
Stockholm	29.62	752.3	29.80	756.8	57.2	14.0	37	nw.			4		2			0	0		
Wisby	29.74	755.3	29.80	756.8	53.2	11.8	88	nnw.			2		7					raining	
Sub-series.																			
Upsala	29.67	753.7	29.76	755.9	55.0	12.8	40	nnw.	7.8	3.5			7		w.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.72	729.5	30.12	765.1	61.9	16.6	38	nne.			3					0	0	clear	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
SCOTTISH.																			
Monach Lt			29.70	754.4	52	11.1	93	s.			4	3	0	s.		0.1	3.	light clouds	J. Youngclause.
North Unst			29.92	760.0				e.			3	7	3	ese.					
TURKISH.																			
Constantinople			29.85	758.3	72.3	22.4	40	ne.	10	4.5			7		sw.	0	0		The Observatory.
Valona			30.03	762.7	78.4	25.8		sw.			2		5			0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.81	757.1	80.4	26.9	59	w.			2	0	1 s			0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.65	753.1	29.73	755.1	69	20.6	70	n.	2	0.9		0	2 s			0	0	clear	J. O. Barnes.
Alpena, Michigan	28.89	733.8	29.54	750.3	64	17.8	84	n.	3	1.3		3 k	5 s	sw.	sw.	0.03	0.8	cloudy	Jas. J. Fitzgerald.
Atlanta, Georgia	28.73	729.7	29.88	758.9	77.0	25.0	76	w.	7	3.1		7 k	3 s			0	0	cloudy	H. Hall.
Atlantic City, New Jersey	29.70	754.4	29.71	754.6	67.7	19.8	90	sw.	8	3.6		5 c	0	calm		0	0	fair	Jas. M. Watson.
Augusta, Georgia	29.70	754.4	29.89	759.2	78	25.6	74	sw.	4	1.8		2 c	0	nw.		0	0	clear	John Healy.
Baltimore, Maryland	29.71	754.6	29.76	755.9	72	22.2	82	nw.	2	0.9		2 c	hz.			0.02	0.5	clear	Robert Seybolt.
Barnegat, New Jersey	29.70	754.4	29.72	754.9	74.5	23.6	81	sw.	7	3.1		6 cs	0	w.		0	0	fair	Chas. F. Merritt.
Behring Island, Behring Sea	29.42	747.3	29.44	747.8	40.5	4.7		ne.	19	8.5			10 k			0.33	8.4	cloudy	Dr. L. Steineger.
Bismarck, Dakota	27.81	706.4	29.56	750.8	58	14.4	93	e.	14	6.3			10 s		se.	0.77	19.6	cloudy	Cyrus Cramer.
Boise City, Idaho	27.14	689.3	29.92	760.0	50	10.0	74	nw.	4	1.8		0	4 s		calm	0	0	fair	B. E. Light.
Boston, Massachusetts	29.61	752.1	29.76	755.9	68.0	20.0	63	ne.	9	4.0		2 c	hz			0.20	5.1	clear	O. B. Cole.
Brownsville, Texas	29.87	758.7	29.91	759.7	79.6	26.4	82	s.	3	1.3		0	4 s		s.	0	0	fair	M. McCarty.
Buffalo, New York	28.92	734.6	29.66	753.4	65.7	18.7	77	s.	6	2.7		7 c;ck	hz.	sw.		0	0	fair	Wm. Finn.
Burlington, Vermont	29.44	747.8	29.73	755.1	64.0	17.8	81	s.	3	1.3		4 cs	0	w.		0	0	fair	G. C. Schaeffer.
Cairo, Illinois	29.41	747.0	29.80	756.9	77.8	25.4	86	nw.	1	0.4			10 s		nw.	0	0	cloudy	W. H. Ray.
Campo, California	27.39	695.7	29.87	758.7	35.8	2.1	82	s.	2	0.9		0	0			0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.22	691.4	29.85	758.2	63.5	17.5	92	se.			1	1 cs	1 k			0.49	12.4	clear	J. T. Fitzgerald.
Cape Henry, Virginia	29.76	755.9	29.78	756.4	70	21.1	90	s.	5	2.2			10 s		sw.	1.05	26.7	cloudy	A. K. Alderson.
Cape May, New Jersey	29.71	754.6	29.74	755.4	68	20.0	84	sw.	6	2.7		4 ck	fg.	sw.		inap.	inap.	fair	W. Bolton.
Cedar Keys, Florida	29.99	761.7	30.01	762.2	79	26.1	77	w.	10	4.5		4 c	2 ks		w.	0	0	fair	F. W. Mixer.
Champaign, Illinois	28.86	733.0	29.65	753.1	66.3	19.1	84	sw.	9	4.0			10 n		sw.	0.96	24.4	light rain	L. A. Welsh.
Charleston, S. Carolina	29.79	756.7	29.84	757.9	79.7	26.5	74	w.	8	3.6		5 c	0	nw.		0	0	fair	J. H. Smith.
Charlotte, N. Carolina	28.96	735.6	29.79	756.7	78.0	25.6	69	nw.	2	0.9		4 c	hz.	w.		0	0	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.05	737.9	29.86	758.4	77.0	25.0	82	sw.	5	2.2		4 cs	0	sw.		0	0	fair	B. L. Goulding.
Cheyenne, Wyoming	23.95	608.3	29.69	754.1	60.2	15.7	31	sw.	8	3.6		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	28.87	733.3	29.56	750.8	65.3	18.5	89	w.	4	1.8			10 k		w.	0.10	2.5	cloudy	J. Mitchell.
Chincoteague, Virginia	29.74	755.4	29.76	755.9	72	22.2	97	calm	0	0		6 c	0			0.05	1.3	fair	V. P. Temple.
Cincinnati, Ohio	29.08	738.6	29.73	755.1	70	21.1	84	sw.	4	1.8			10 n		sw.	0.82	20.8	light rain	R. B. Watkins.
Cleveland, Ohio	28.94	735.1	29.67	753.6	67.4	19.7	79	s.	6	2.7			10 k		w.	0	0	cloudy	J. B. Newlin.
Coleman City, Texas	28.08	713.2	29.83	757.7	74	23.3	82	sw.	9	4.0		6 c	0	nw.		0	0	fair	L. Dorman.
Columbus, Ohio	28.86	733.0	29.70	754.4	69	20.6	76	s.	5	2.2		10 cs	0	sw.		0	0	cloudy	D. Cuthbertson.
Concho, Texas	27.96	710.2	29.83	757.7	73	22.8	90	sw.	16	7.2		3 c	0	s.		0	0	fair	W. W. McConihe.
Davenport, Iowa	28.98	736.1	29.62	752.3	65	18.3	90	n.	5	2.2			10 s		calm	0.76	19.3	cloudy	R. R. Martin.
Dayton, Washington T'y	28.25	717.5	29.99	761.7	53.7	12.1	84	sw.	4	1.8		3 k	0			0.01	0.3	clear	H. Clifford.
Deadwood, Dakota	25.10	637.5	29.53	750.0	56	13.3	83	sw.	6	2.7		10 cs	0	w.		0.14	3.6	cloudy	G. W. Scott.
Decatur, Texas					78	25.6	62	se.	8	3.6		3 cs	0	s.		0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	29.72	754.9	29.74	755.4	67	19.4	100	sw.	8	3.6		4 c	2 s	sw.		inap.	inap.	fair	F. C. Pratz.
Denison, Texas	29.01	736.8	29.79	756.7	77.3	25.2	76	sw.	10	4.5		3 cs	0			0	0	clear	J. McGlone.
Denver, Colorado	24.64	625.8	29.68	753.9	60.0	15.6	56	s.	9	4.0		0	1 k		sw.	0	0	clear	F. M. Neal.
Des Moines, Iowa	28.75	730.2	29.63	752.6	64	17.8	90	calm	0	0		5 cs	0	w.		0.27	6.9	fair	F. W. Conrad.
Detroit, Michigan	28.90	734.0	29.59	751.6	70.9	21.6	76	s.	9	4.0		2 cs	8 k	w.	sw.	0	0	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.15	689.6	29.66	753.4	68	20.0	93	n.	10	4.5		0	0			0	0	clear	E. A. Thomas.
Dubuque, Iowa	28.92	734.6	29.60	751.8	65.2	18.4	78	sw.	1	0.4		3 c;k	3 s	w.	s.	1.46	37.1	fair	J. Harvey Smith.
Duluth, Minnesota	29.02	737.1	29.70	754.4	51	10.6	93	ne.	11	4.9			fg.			0.04	1.0	dense fog	N. B. Conger.
Eagle Pass, Texas	29.12	739.6	29.91	759.7	76.3	24.6	76	calm	0	0		0	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.15	638.8	29.74	755.4	58	14.4	58	s.	22	9.8		3 cs	3 k	w.	w.	0	0	fair	J. M. Clifford.
Eastport, Maine	29.70	754.4	29.77	756.1	59.0	15.0	81	n.	3	1.3			10 s		ne.	0	0	cloudy	D. C. Murphy.
El Paso, Texas	26.28	667.5	29.87	758.7	67	19.4	66	nw.	4	1.8		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	28.94	735.1	29.66	753.4	71	21.7	76	s.	8	3.6		3 c	0			0	0	clear	Peter Wood.
Escanaba, Michigan	28.95	735.3	29.60	751.8	55	12.8	93	n.	16	7.2			10 s		n.	0.09	2.3	cloudy	C. Dill.
Fort Apache, Arizona	25.09	637.3	29.84	757.9	55	12.8	90	se.	1	0.4			10 s		calm	0.06	1.5	cloudy	W. C. Barnes.
Fort Assinnaboine, Montana	26.87	682.5	29.66	753.4	56	13.3	69	sw.	10	4.5		0	9 s		w.	0.01	0.3	cloudy	B. O. Lenoir.
Fort Bennett, Dakota	28.00	711.2	29.54	750.3	63	17.2	93	se.	2	0.9		5 c	1 s	calm	calm	0.37	9.4	clearing	A. Pritchard.
Fort Benton, Montana	26.91	683.5	29.68	753.9	55	12.8	80	w.	12	5.4			10 s			0	0	cloudy	G. W. Davis.
Fort Buford, Dakota	27.60	701.0	29.56	750.8	57	13.9	77	e.	1	0.4		5 cs	0	calm		0.16	4.1	fair	A. H. Bell.
Fort Custer, Montana	26.65	676.9	29.71	754.6	55	12.8	100	w.	12	5.4			10 n		calm	0.22	5.6	light rain	V. Verge.
Fort Davis, Texas	25.14	638.5	29.76	755.9	71	21.7	53	sw.	4	1.8		0	0			0	0	clear	J. Williams.
Fort Elliott, Texas	27.10	688.3	29.77	756.1	70	21.1	59	se.	12	5.4		0	0			0	0	clear	W. J. Cundall.
Fort Grant, Arizona	25.26	641.6	29.80	756.9	64.9	18.3	56	n.	4	1.8		1 k	0			0.02	0.5	clear	Robert O. Lord.
Fort Keogh, Montana	27.11	688.6	29.54	750.3	61	16.1	93	sw.	5	2.2			10 s		sw.	0.04	1.0	cloudy	W. B. Stockman.
Fort Macon, North Carolina	29.77	756.1	29.78	756.4	77	25.0	82	sw	8	3.6		4 cs	hz.	calm	calm	0	0	fair	W. W. Thomas.
Fort McKavett, Texas	27.70	703.6	29.90	759.4	74	23.3	82	sw.	13	5.8		3 c	0			0	0	fair	J. E. Thatcher.
Fort Missoula, Montana	26.57	674.9	29.83	757.7	51	10.6	93	nw.	2	0.9		8 k	0	w.		0.47	11.9	cloudy	J. H. Jones.
Fort St. Michaels, Alaska	30.13	765.3	30.17	766.3	42	5.6	100	sw.	2	0.9			10 n			0.01	0.3	light rain	A. P. Leavitt.
Fort Shaw, Montana	26.13	663.7	29.70	754.4	50	10.0	86	w.	6	2.7		0	8 k		w.	0.10	2.5	cloudy	A. L. Mathews.
Fort Sill, Indian Territory	28.52	724.4	29.72	754.9	76.3	24.6	55	s.	14	6.3		4 c	0	w.		0	0	fair	T. Cleary.
Fort Smith, Arkansas	29.29	744.0	29.75	755.6	76.0	24.4	85	calm	0	0		0	0			0	0	clear	J. B. Campbell.
Fort Stevenson, Dakota	27.76	705.1	29.56	750.8	60	15.6	100	ne.	6	2.7			10 n			0.51	13.0	light rain	W. Burrows
Fort Verde, Arizona					62.3	16.8	39	sw.			1	0	0			0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.25	615.9	29.63	752.6	62.0	16.7	43	w.	12	5.4		1 c	5 k		w.	0	0	fair	T. M. Ambler.
Fredericksburg, Texas	28.18	715.8	29.86	758.4	72	22.2	90	sw.	6	2.7		0	0			0	0	clear	H. S. Miles.
Galveston, Texas	29.90	759.4	29.95	760.7	81	27.2	83	w.	16	7.2		0	5 ks		sw.	0	0	fair	E. O'C. MacInerney.
Grand Haven, Michigan	28.91	734.3	29.56	750.8	61.0	16.1	87	sw.	6	2.7			10 s			0	0	cloudy	W. A. Reid.
Hatteras, North Carolina	29.77	756.1	29.79	756.7	76	24.4	90	sw.	5	2.2		3 c	0	sw.		0	0	clear	R. M. Crawford.
Helena, Montana	25.62	650.7	29.74	755.4	53	11.7	61	nw.	5	2.2		5 k	0	w.		0.01	0.3	fair	S. Wheaton.
Henrietta, Texas	28.81	731.8	29.79	756.7	80.0	26.7	68	s.	9	4.0		4 c	0			0	0	fair	J. W. Byram.
Huron, Dakota	28.24	717.3	29.58	751.3	59.7	15.4	70	ne.	5	2.2		0	5 k		w.	inap.	inap.	fair	S. W. Glenn.
Indianapolis, Indiana	28.85	732.8	29.63	752.6	71	21.7	84	s.	2	0.9		5 cs;k	5 s	calm;s	s.	1.40	35.6	cloudy	O. Schutze
Indianola, Texas	29.90	759.4	29.93	760.2	80.6	27.0	79	sw.	17	7.6		0	1 k		sw.	0	0	clear	I. A. Reed.
Jacksboro, Texas	28.64	727.4	29.76	755.9	76	24.4	81	sw.	8	3.6		5 c	0	w.		0	0	fair	J. P. Sherry.
Jacksonville, Florida	29.91	759.7	29.95	760.7	84	28.9	72	sw.	6	2.7		2 k	0	sw.		0	0	clear	J. W. Smith.
Keokuk, Iowa	28.99	736.3	29.63	752.6	67.0	19.4	93	s.	3	1.3			10 s		s.	0.48	12.2	cloudy	F. Z. Gosewisch.
Key West, Florida	29.99	761.7	30.01	762.2	84.0	28.9	67	sw.	3	1.3		0	4 ks			0	0	fair	R. H. Paxton.
Kittyhawk, North Carolina	29.79	756.7	29.81	757.2	70.5	21.4	90	e.	2	0.9		2 c	0	n.		0.36	9.1	clear	E. A. Beals.
Knoxville, Tennessee	28.86	733.0	29.87	758.7	66.5	19.2	97	se.	3	1.3			10 s		w.	0.76	19.3	cloudy	J. A. Cody.
La Crosse, Wisconsin	28.83	732.3	29.59	751.6	70	21.1	76	calm	0	0		0	6 s			0.71	18.0	fair	S. C. Emery.
La Mesilla, New Mexico	26.12	663.4	29.84	757.9	62.5	16.9	74	n.	1	0.4		1 c	0	w.		0	0	clear	N. D. Lane.
Leavenworth, Kansas	28.77	730.7	29.64	752.8	73	22.8	71	s.	2	0.9		3 ck	0	w.		0.69	17.5	clear	A. W. Browne.
Lewiston, Idaho	29.10	739.1	29.92	760.0	65	18.3	56	w.	8	3.6		3 k	0	nw.		0	0	clear	W. Bell.
Little Rock, Arkansas	29.49	749.0	29.80	756.9	77	25.0	90	calm	0	0		6 ck	0			0	0	fair	W. U. Simmons.
Los Angeles, California	29.66	753.4	30.05	763.3	57.5	14.2	80	se.	4	1.8		0	7 s		s.	0	0	fair	E. F. Kubel.
Louisville, Kentucky	29.10	739.1	29.65	753.1	71	21.7	84	s.	6	2.7			10 n			0.53	13.5	light rain	H. C. Smyth.
Lynchburg, Virginia	29.10	739.1	29.77	756.1	75.0	23.9	69	sw.	1	0.4		1 c	2 s	sw.	w.	0.25	6.3	clear	W. R. Bushby.
Madison, Wisconsin	28.58	725.9	29.57	751.1	67	19.4	90	sw.	2	0.9			10 s		w.	0.56	14.2	cloudy	C. A. Shaw.
Marquette, Michigan	28.95	735.3	29.67	753.6	47	8.3	93	n.	7	3.1			fg.			inap.	inap.	dense fog	J. Gilligan.
Memphis, Tennessee	29.49	749.0	29.82	757.4	82	27.8	80	s.	6	2.7		3 cs	0			0	0	clear	D. T. Flannery.

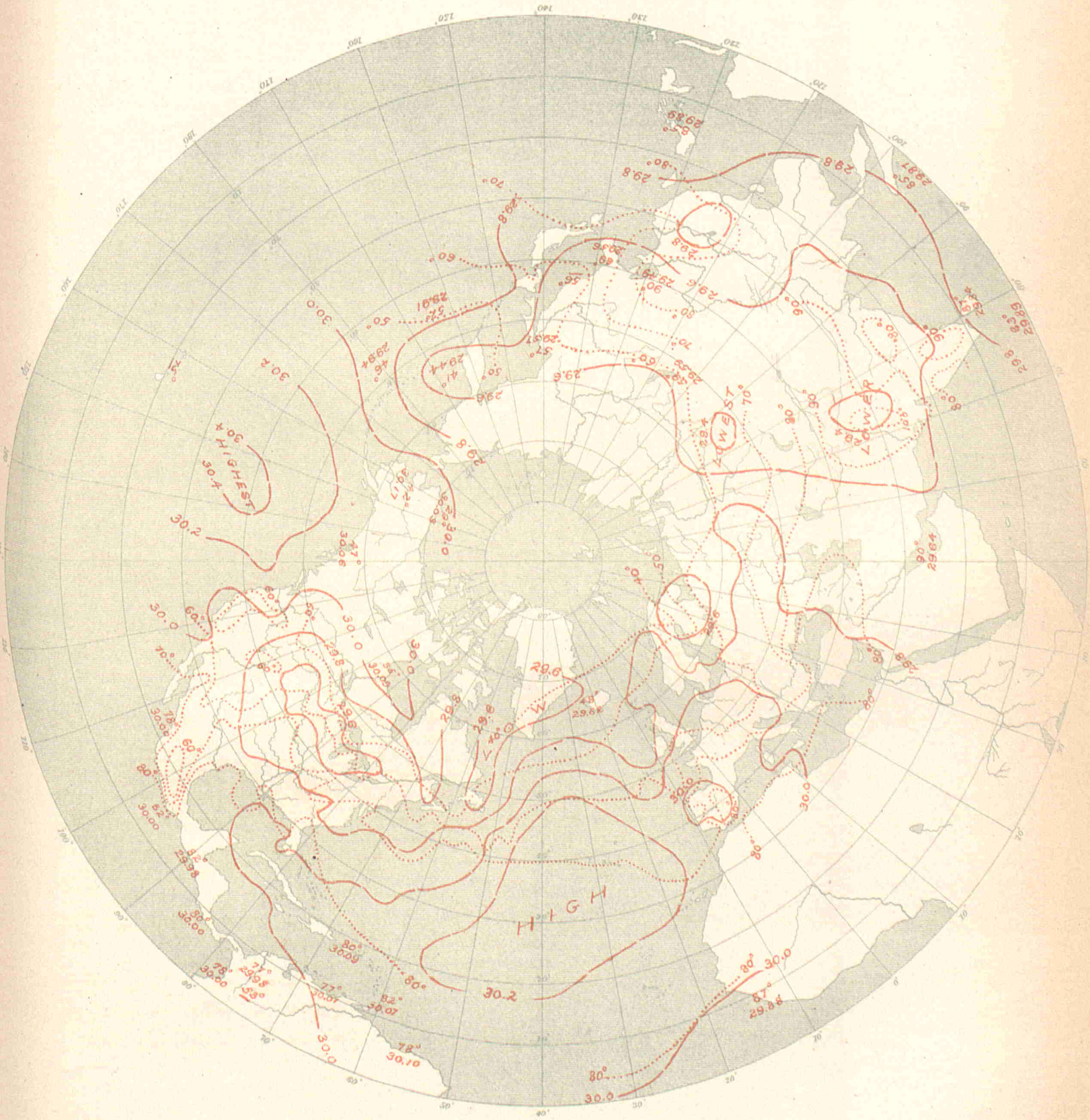
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	28.86	733.0	29.60	751.8	63	17.2	93	n.	9	4.0			fg.			0.03	0.8	dense fog	W. Line.
Mobile, Alabama	29.93	760.2	29.97	761.2	80.5	26.9	82	w.	5	2.2		1 c	0			0	0	clear	J. D. Paxton.
Montgomery, Alabama	29.72	754.9	29.95	760.7	78	25.6	77	sw.	5	2.2		4 c;cs	0	w.		0	0	fair	J. B. McLaughlin.
Moorhead, Minnesota	28.65	727.7	29.62	752.3	54	12.2	86	ne.	5	2.2		0	6 s			0.06	1.5	fair	H. Bessant.
Morgantown, W. Virginia	28.78	731.0	29.78	756.4	68.5	20.3	86	w.	6	2.7			10 s			0.24	6.1	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.71	602.2	29.83	757.7	48.0	8.9	64	nw.	4	1.8		0	1 s;hz		nw.	0.21	5.3	clear	J. G. Linsley
Nashville, Tennessee	29.27	743.4	29.79	756.7	79.0	26.1	79	w.	3	1.3		3 cs	7 ks	w.	nw.	0	0	cloudy	L. A. Jesunofsky.
New Haven, Connecticut	29.63	752.6	29.74	755.4	68	20.0	78	ne.	8	3.6		0	hz.			0.01	0.3	clear	J. H. Sherman.
New London, Connecticut	29.70	754.4	29.75	755.6	73	22.8	66	ne.	4	1.8		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.90	759.4	29.95	760.7	80.5	26.9	78	sw.	3	1.3		5 c	sk.	w.		0	0	fair	L. Dunne.
Newport, Rhode Island	29.71	754.6	29.76	755.9	71.3	21.8	63	ne.	7	3.1		1 c	hz.	w.		0	0	clear	W. McGillivray.
New River, N. Carolina					82	27.8	67	calm			0	0	2 s			0.02	0.5	clear	C. C. Corbin.
New Shoreham, Rhode I'd	29.72	754.9	29.75	755.6	67.0	19.4	78	e.	4	1.8		1 c	hz.	ne.		0	0	clear	W. Davis.
New York, New York	29.56	750.8	29.73	755.1	72.5	22.5	78	e.	6	2.7		4 cs	fg.			0	0	fair	J. B. Merrill.
Norfolk, Virginia	29.75	755.6	29.78	756.4	70	21.1	90	w.	1	0.4		3 cs	6 s	w.	w.	1.72	43.7	cloudy	J. T. Elker.
North Platte, Nebraska	26.80	680.7	29.60	751.8	67.1	19.5	70	w.	7	3.1		0	0			0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.11	764.8	30.15	765.8	54.0	12.2	74	ne.	4	1.8			10 s		calm	0	0	cloudy	J. Dascomb.
Omaha, Nebraska	28.49	723.6	29.63	752.6	74.3	23.5	70	s.	2	0.9		0	0			0	0	clear	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.01	762.2	30.03	762.7	29.1	— 1.6	100	nne.	10	4.5			fg.			0	0	dense fog	P. H. Ray.
Oswego, New York	29.35	745.5	29.67	753.6	66.0	18.9	87	s.	8	3.6		1 c	0	w.		0	0	clear	S. W. Beall.
Palestine, Texas	29.38	746.2	29.92	760.0	77.0	25.0	85	sw.	14	6.3		3 c	0	w.		0	0	clear	L. M. Pindell.
Pensacola, Florida	29.93	760.2	29.96	761.0	80.8	27.1	91	sw.	1	0.4		2 c	0	nw.		0	0	clear	M. McGauran.
Philadelphia, Pa	29.64	752.8	29.74	755.4	72	22.2	84	sw.	1	0.4		5 ck	0	w.		0	0	fair	T. F. Townsend.
Pike's Peak, Colorado	17.83	452 9	29.65	753.1	27	— 2.8	84	w.	52	23.3		1 k	0	w.		0	0	clear	L. M. Dey.
Pioche, Nevada	24.08	611.6	29.88	758.9	50.5	10.3	50	sw.	3	1.3		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	28.90	734.0	29.70	754.4	69.0	20.6	84	s.	4	1.8		hz.	0			1.44	36.6	clear	J. H. Bryce.
Poplar River, Montana	27.44	697.0						sw.			1	2 ck	0	calm		0.02	0.5	clear	U. D. Maxwell.
Port Eads, Louisiana	29.99	761.7	30.00	762 0	78.5	25.8	85	w.	10	4.5		0	2 ks		w.	0.10	2.5	clear	H. G. Christian.
Port Huron, Michigan	28.91	734.3	29.58	751.3	66.5	19.2	84	s.	10	4.5		8 ck	0	w.		0.12	3.0	cloudy	W. O. Bailey.
Portland, Maine	29.70	754.4	29.75	755.6	65.0	18.3	68	ne.	9	4.0		0	hz.			0	0	clear	W. W. Eichelberger.
Portland, Oregon	30.10	764.5	30.17	766.3	58.0	14.4	74	nw.	2	0.9		0	5 ks		ne.	inap.	inap.	fair	M. L. Hearne.
Portsmouth, N. Carolina																			F. P. Chaffee.
Prescott, Arizona	24.83	630.7	29.85	758.2	47	8.3	54	s.	2	0.9		0	0			0	0	clear	J. McN. Wright.
Provincetown, Mass	29.72	754.9	29.76	755.9	62	16.7	78	ne.	13	5.8		0	0			0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	29.98	761.5	29.99	761.7	81	27.2	69	sw.	1	0.4		1 c	3 k	n.	w.	0	0	fair	W. J. Evans.
Red Bluff, California	29.51	749.5	29.87	758.7	70.0	21.1	66	se.	3	1.3		0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.71	754.6	29.94	760.5	80	26.7	69	e.	6	2.7		0	0			0	0	clear	P. M. Wilson.
Rochester, New York	29.02	737.1	29.67	753.6	64	17.8	90	sw.	8	3.6		5 c	fg.	nw.		0	0	fair	E. W. McGann.
Roseburg, Oregon	29.61	752.1	30.16	766.1	60.7	15.9	73	calm	0	0			10 s		n.	0	0	cloudy	J. J. Nanry.
Sacramento, California	29.78	756.4	29.86	758.4	60.2	15.7	81	se.	5	2.2		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.16	740.7	29.75	755.6	66.0	18.9	100	se.	3	1.3			10 n		w.	2.44	62.0	thund'r st'm	J. H. Webber.
St. Paul, Minnesota	28.74	730.0	29.59	751.6	67.0	19.4	73	ne.	3	1.3		6 ck	0	nw.		0	0	fair	P. F. Lyons
St. Vincent, Minnesota	28.86	733.0	29.71	754.6	49	9.4	86	ne.	4	1.8			10 s		calm	0	0	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.58	649.7	29.80	756.9	63.1	17.3	45	e	4	1.8		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.21	741.9	29.89	759.2	74	23.3	90	calm	0	0		0	0			0	0	clear	E. Lane.
San Diego, California	29.93	760.2	30.00	762.0	61.2	16.2	87	nw.	5	2.2			fg.		nw.	0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	28.95	735.3	29.62	752.3	69.9	21.1	78	s.	8	3.6			10 s			0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.68	753.9	29.72	754.9	68.0	20.0	90	e.	5	2.2		hz.	hz.	calm	calm	0	0	light haze	B. A. Blundon.
San Francisco, California	29.88	758.9	29.95	760.7	55	12.8	90	w.	10	4.5			6s;fg		s;sw.	0	0	cloudy	N. Gorom.
Santa Fé, New Mexico	23.30	591.8	29.81	757.2	52	11.1	64	ne.	6	2.7		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	29.79	756.7	29.88	758.9	83	28.3	70	w.	10	4.5		4 ck	0	w.		0.05	1.3	fair	H. W. Ford.
Shreveport, Louisiana	29.67	753.6	29.90	759.4	77	25.0	85	s.	5	2.2		1 c	hz.			0	0	clear	E. N. Meekins.
Silver City, New Mexico	24.33	618.0	29.83	757.7	54	12.2	48	nw.	1	0.4		0	2 s		calm	0.08	2.0	clear	J. B. Wallace.
Sitka, Alaska	30.00	762.0	30.06	763.5	46.6	8.1	84	e.	8	3.6			10 n		e.	0.33	8.4	light rain	J. J. McLean.
Smithville, North Carolina	29.77	756.1	29.81	757.2	78	25.6	82	w.	12	5.4		1 k	0			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.90	708.6	29.94	760.5	57	13.9	69	sw.	6	2.7		6 k	0	sw.		0	0	fair	D. Moore.
Springfield, Illinois	29.01	736.8	29.68	753.9	67	19.4	90	se.	12	5.4			10 n		nw.	1.42	36.1	thund'r st'm.	T. B. Jennings.
Springfield, Massachusetts	29.63	752.6	29.76	755.9	70.3	21.3	76	n.	4	1.8		5 c	hz.	w.		0	0	fair	T. S. Outram.
Springfield, Mo	28.34	719.8	29.80	756.9	73	22.8	83	se.	5	2.2		0	6 s		nw.	0	0	fair	J. B. Marbury.
Starkville, Miss	29.43	747.5	29.90	759.4	78	25.6	82	sw.	12	5.4		2 cs	0			inap.	inap.	clear	M. J. Wright.
Stockton, Texas	26.92	683 8	29.84	757.9	70.5	21.4	76	calm	0	0		10 cs	0	calm		0	0	cloudy	J. O'Dowd.
Thatcher's Island, Mass	29.75	755.6	29.80	756.9	58.3	14.6	87	n.	7	3.1		0	0			0	0	clear	G. Liebmann.
Toledo, Ohio	28.93	734.8	29.61	752.1	70	21.1	79	w.	10	4.5		3 cs	5 s	w.	w.	0.30	7.6	cloudy	A. Buell.
Tucson, Arizona	27.56	700.0	29.86	758.4	70	21.1	55	se.	3	1.3		2 ck	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.67	753.6	30.03	762.7	61	16.1	56	sw.	20	8.9		0	1 s			inap.	inap.	clear	J. Daly.
Uvalde, Texas	28.94	735.1	29.88	758.9	75	23.9	90	calm	0	0		0	0			0	0	clear	E. C. Imlay.
Vicksburg, Mississippi	29.67	753.6	29.92	760.0	79	26.1	88	s.	3	1.3		0	0			0	0	clear	H. P. Brisbane.
Visalia, California	29.48	748.8	29.85	758.2	64	17.8	68	se.	3	1.3		0	0			0	0	clear	W. L. Seward.
Washington, D. C.	29.66	753.4	29.77	756.1	71.1	21.7	84	calm	0	0		0	0			0.33	8.4	clear	B. M. Purssell.
West Las Animas, Colorado	25.92	658.4	29.70	754.4	60.9	16.1	67	sw.	7	3.1		0	0			0	0	clear	F. W. Brandenburg.
Williamsport, Pa	29.15	740.4	29.75	755.6	63	17.2	90	w.	1	0.4			10 s			0.02	0.5	threatening.	B. F. Hough.
Wilmington, N. Carolina	29.74	755.4	29.79	756.7	77	25.0	69	w.	1	0.4		0	5 s		w.	inap.	inap.	fair	A. T. Sherwood.
Winnemucca, Nevada	25.62	650.7	29.88	758.9	56	13.3	64	nw.	5	2.2		0	0			0	0	clear	J. R. Williams.
Yankton, Dakota	28.34	719.8	29.62	752.3	64	17.8	84	e.	2	0.9		0	0			0.30	7.6	clear	J. H. Atfield.
Yuma, Arizona	29.69	754.1	29.83	757.7	65.5	18.6	55	calm	0	0		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8			53.0	11.7	79	ne.	2	0.9		4 ck;k	2 k; s	ne.	s.	0	0	fair	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.06	763.5	30.07	763.8	82	27.8	91	ne.				5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.97	761.2	30.00	762.0	78	25.6	86	calm	0	0		1 cs	0	calm		0.30	7.6	clear	J. I. Plume.
Havana, Cuba, W. I.	29.99	761.7	30.04	763.0	81	27.2	79	calm	0	0		0	1 ks			0	0	clear	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.02	762.5	30.03	762.7	79.5	26.4	78	calm	0	0		9 cs	0			0	0		Robert Johnston.
Magua, San Domingo, W. I.					76	24.4		calm			0	0	3 ck		sw.	0	0		S. M. Pike.
Paramaribo, S. A.	30.10	764.5	30.10	764.5	78	25.6	86	se.			2	5 p	5 ps	e.	e.	0.300	7.6		Dr. O. J. Hering.
Puerto Berrio, U. S. Col'mba	29.52	749.8	29.98	761.5	77	25.0	89	s.			1	8 ck	0	calm		0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							96	e.			1					0	0	cloudy	Earl Flint.
Santiago de Cuba, W. I.	30.01	762.2	30.03	762.7	79	26.1	74	n	1.2	0.5		8 cs	0			0.03	0.8	cloudy	Robert Mason.
York Factory, B. A.	30.03	762.7	30.09	764.3	35.0	1.7	90	ne	15	6.7		2 k	2 s	ne.	ne.	0	0	fair	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
British Naval.																		
H. M. S. Alert, Simon's Bay, Cape Colony, Africa	30.23	767.8	61	16.1	66	sw.			1		1							misty.
H. M. S. Alexandra, Alexandria, Egypt	29.88	758.9	74	23.3	69	nw.			4		3	nw.				2	nw.	d. clouds.
H. M. S. Amethyst, S. 34° 48′ W. 56° 09′	30.24	768.1	57	13.9	87	nne.			3		1	ne.						blue sky.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.86	758.4	68	20.0		n.			3-4		7	n.						d. clouds.
H. M. S. Arab, N. 25° 17′ E. 60° 37′	29.50	749.3	86	30.0	88	ssw.			2		1					2	sw.	misty.
H. M. S. Bacchante, Corfu, Ionian Islands	29.90	759.4	72	22.2	85	e.			1		3	ssw.						misty.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.23	767.8	63	17.2		var.			1		1							blue sky.
H. M. S. Champion, N. 30° 35′, W. 159° 30′			75	23.9		e.			1-2		1	ese.				3	ne.	blue sky.
H. M. S. Cleopatra, N. 31° 28′, E. 132° 09′	29.67	753.6	75.5	24.2	100	ssw.			6		10					5	s.	d. clouds.
H. M. S. Coquette, Port Said, Egypt	29.86	758.4	75	23.9		wnw.			2		0							blue sky.
H. M. S. Cruiser, N. 37° 45′, E. 16° 06′	29.89	759.2	77	25.0		sse.			1		0							blue sky.
H. M. S. Diamond, S. 10° 38′, E. 162° 32′	29.89	759.2	84	28.9	87	e.			2		2					1	e.	d clouds.
H. M. S. Dido, N. 10° 37′, W. 67° 00′	30.01	762.2	77	25.0		var.			1		2	ene.				1	ne.	d. clouds.
H. M. Dock Yard, Bermuda, W. I.	29.95	760.7	74.5	23.6	81	wsw.			1		1	wsw.						blue sky.
H. M. S. Dwarf, S. 25° 16′, W. 57° 45′	29.89	759.2	66.5	19.2	94	e.			1		4					1	nne.	d. clouds.
H. M. S. Eclipse, S 4° 37′, E. 55° 30′	29.98	761.5	79	26.1		ese.			1-2		10							raining.
H. M. S. Emerald, S. 51° 40′, W. 57° 50′	30.20	767.1	41	5.0	91	n.			2		5	ne.						d. clouds.
H. M. S. Euryalus, Trincomalee, Cylon. India	29.74	755.4	87	30.6	72	sw.			3		3	calm						misty.
H. M. S. Fawn, S. 24° 27′, E. 49° 58′	30.30	769.6	68	20.0	79	s.			3		1					2	se.	blue sky.
H. M. S. Fantome, N. 9° 43′ W. 79° 42′	29.91	759.7	83	28.3		nne.			3		7	ne.				2	ne.	d. clouds.
H. M. S. Flying Fish, N. 37° 27′, E. 125° 33′	29.56	750.8	68.5	20.3	81	w.			2		6							d. clouds.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.12	765.0	55	12.8	90	nnw.			4		10							misty.
H. M. S. Garnet, Montevideo Uruguay	30.29	769.4	52	11.1	79	e.			3		0							blue sky.
H. M. S. Griffon, N. 48° 41 W. 53° 49′	29.76	755.9	55	12.8	87	s.			2		10							d. clouds.
H. M. S. Inconstant, N. 14° 00′ W. 18° 30′	29.96	761.0	77	25.0	77	wnw.			2-3		2	wnw.				3	nnw.	d. clouds.
H. M. S. Iron Duke, N. 35° 26′, E. 139° 39′	29.59	751.6	68	20.0	94	calm			0		10							misty.
H. M. S. Kingfisher, N. 14° 35′, W. 96° 00′	30.00	762.0	82	27.8		nw.			1		2							d. clouds.
H. M. S. Lark, S. 10° 37′, E. 162° 30′	29.90	759.4	82.3	27.9		calm			0		2					1	e.	d. clouds.
H. M. S. Magpie, N. 35° 03′, E. 141° 07′	29.61	752.1	72.3	22.4	93	sw.			4-6		10					6-7	ssw.	showery.
H. M. S. Minotaur, N 37° 02′, E. 10° 12′	30.04	763.0	71	21.7	85	ene.			2		1					1	ene.	misty.
H. M. S. Nelson, S. 36° 20′ E. 175° 30′	29.92	760.0	62	16.7	83	ne.			1		0							blue sky.
H. M. S. Northampton, Halifax, Nova Scotia	29.65	753.1	59.5	15.3	94	nnw.			1		10							d. clouds.
H. M. S. Phœnix, N. 18° 00′, W. 78° 20′	29.98	761.5	80	20.7	91	ese.			1		1	ese.				1	ese.	blue sky.
H. M. S. Rambler, S. 8° 48′ E. 13° 03′	29.96	761.0	71	21.7	100	sw.			2		2	ssw.				2	sw.	d. clouds.
H. M. S. Rocket, N. 50° 30′, W. 124° 30′	30.02	762.5	50	10.0	?	wnw.			2		6							d. clouds.
H. M. S. Sappho, Eastern Island, South Pacific	30.25	768.3	65.5	18.6		ne.			1		2	s.				3	s.	d. clouds.
H. M. S. Swiftsure, N. 10° 18′, W. 25° 05	30.01	762.2	77.5	25.3	77	ne.			2		1	ene.				2	ssw.	blue sky.
H. M. S. Sylvia, Rio de Janeiro, Brazil	30.33	770.4	65.7	18.7	85	sse.			2-3		9							d. clouds.
H. M. S. Tamar, N. 44° 43′, W. 80 39′	30.07	763.8	57.5	14.2	?	nne.			3		5	nne.				2	nnw.	d. clouds.
H. M. S. Tenedos, N. 47° 20′ W. 57° 00′	29.72	754.9	40.5	8.1	96	ese.			1		10							raining.
H. M. S. Triumph, Coquimibo, Chili	30.10	764.5	55	12.8	93	nnw.			2		10	calm						d. clouds.
H. M. S. Tyne, N. 44° 24′, W. 9° 54′	30.07	763.8	61	16.1	82	e.			1-2		10					2	e.	d. clouds.
H. M. S. Woodlark, N. 26° 28′, E. 50° 49′	29.54	750.3	89.5	31.9	69	wnw.			1-2		0					2	nnw.	blue sky.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verd Islands	30.09	764.2	77.9	25.5	87	ene.			3		1					2		blue sky.
Tamega, Macao, China	29.77	756.2	84.2	29.0	81	sw.			2		2		nw.					blue sky.
Swedish Naval.																		
Saga, N. 38° 12′, W. 22° 41′	30.36	771.2	68.5	20.3	76	ne.			1		9							overcast.
United States Naval.																		
Navy Yard, Pensacola, Fla	29.90	759.4	81	27.2	91	sw.	4	1.8			5		w.	0	0			fair.
Navy Yard, Portsmouth, N. H	29.75	755.6	67	19.4	69	ne.	8	3.6			0			0	0			clear.
Naval Hospital, Yokohama, Japan*	29.50	749.3	66.5	19.2	97	calm			0		10		n.	1.42	36.1			gloomy.
Adams, Mare Island, Cal	29.98	761.5	60	15.0	94	sw.			2		10			0	0			cloudy.
Alaska, Callao, Peru	30.01	762.2	60	15.6	94	se.			1		10			0	0	sm'h		cloudy.
Alert, N. 39° 29′, E. 149° 10′*	29.69	754.1	63	17.2	94	se.			6		10		calm			sm'h		raining.
Alliance, Hampton Roads, Va	29.80	756.9	72	22.2	90	wsw.			1		8			h'vy	h'vy	sm'h		cloudy.
Ashuelot, Yokohama, Japan	29.57	751.1	68	20.0	95	calm			0		10		s.					drizzling.
Brooklyn, Rio de Janeiro, Brazil	30.31	769.9	68	20.0	90	w.	6	2.7			8		w.	0.28	7.1	sm'h		fair.
Colorado, New York, N. Y	29.69	754.1	66	18.9	94	n.	1	0.4			2		calm	0	0			hazy.
Constellation, Annapolis, Md*	29.74	755.4	72	22.2	80	calm			0		0					sm'h		clear.
Enterprise, Norfolk, Va*	29.74	755.4	72	22.2	95	w.			1		5		w.					fair.
Essex, S. 44° 06′, W. 61° 49′	29.97	761.2	49	9.4	93	nw.			4		10		nw.			mod.	n.	cloudy.
Franklin, Norfolk, Va	29.79	756.7	70	21.1	95	sw.	2	0.9			8		w.	2.05	52.1			fair.
Galena, Alexandria, Egypt	29.87	758.7	74	23.3	81	nnw.			2-3		2					sm'h		clear.
Independence, Mare Island, Cal	29.98	761.5	58	14.4	100	sw.			2		10			0	0			cloudy.
Iroquois, San Francisco, Cal	29.92	760.0	56	13.3	87	sw.			3		5		sw.	0	0			fair.
Kearsage, Norfolk, Va	29.78	756.4	72	22.2	95	calm			0		10							cloudy.
Lackawanna, Paita, Peru*	30.02	762.5	63	17.2	89	se.			2		10		se.					cloudy.
Lancaster, N. 36° 38′ W. 4° 28′*	29.98	761.5	71	21.7	95	se.			4		0			0	0	sm'h		clear.
Marion, S. 34° 54′, W. 56° 13′	30.25	768.3	52	11.1	100	nne.			3		8		calm	0	0	sm'h		fair.
Michigan, Detroit, Michigan	29.60	751.8	67	19.4	84	nw.			2		2		w.					fair.
Minnesota, Newport, R. I	29.79	756.7	67	19.4	84	ne.	5	2.2			2		nnw.					
Monocacy, Nagasaki, Japan	29.66	753.4	70	21.1	100	calm			0		10		calm					rainy.
New Hampshire, Newport, R. I	29.65	753.1	66	18.9	84	ese.			1		2					sm'h		hazy.
Nipsic, Venice, Italy	30.10	764.5	69	20.6	46	sse.			1		2					sm'h		clear.
Onward. Callao, Peru†	30.17	766.3	60	15.6	88	se.			3		10		w.			long	w.	misty.
Palos, Kobe, Japan	29.66	753.4	69	20.6	100	wsw.			1		10		calm					raining.
Passaic, Washington, D. C	29.78	756.4	79	26.1	95	calm			0		2							fair.
Pensacola, Callao, Peru	30.07	763.8	61	16.1	94	ese.	6	2.7			10			0	0	sm'h		cloudy.
Powhatan, League Island, Pa	29.76	755.9	71	21.7	90	wsw.			1		2							fair.
Portsmouth, N. 50° 11′, W. 2° 13′*	30.06	763.5	57	13.9	100	s.			3		2		sw.			sm'h		clear.
Quinnebaug, N. 35° 35′ W. 5° 34′	30.12	765.0	70	21.1	75	wsw.			1		8		w.			sm'h		cloudy.
Ranger, Mare Island, Cal*	29.93	760.2	60	15.6	82	sw.			3		10		calm	0	0	sm'h		cloudy.
Richmond, Nagasaki, Japan*	29.58	751.3	71	21.7	100	calm			0		10			3.30	83.8			raining.
Saratoga, N. 50° 15′ W. 2° 03′	30.09	764.3	62	16.7	83	s.			2		0			0	0	sm'h		fair.
St. Louis, League Island, Pa	29.99	761.7	71	21.7	90	sw.	2	0.9			2		sw.	0	0			clear.
Swatara, Nagasaki, Japan*	29.49	749.0	72	22.2	75	nne.			1		10					sm'h		light rain.
Tennessee, Fort Monroe, Va	29.81	757.2	72	22.2	95	wsw.	4.5	2.0			10			2.35	59.7			cloudy.
Vandalia, Hampton Roads, Va*	29.75	755.6	70	21.1	95	w.			1		10		w.					misty.
Wabash, Boston, Mass	29.76	755.9	70	21.1	85	ene.	3	1.3			0			0.28	7.1			clear.
Wachusetts, N. 56° 06′, W. 134° 32′	30.00	762.0	46	7.8	92	sw.			3		10		sw.			mod.	ssw.	misty.
Wyoming, Port Royal, S. C	29.83	757.7	78	25.6	73	w.	12	5.4			5		wnw.	0	0			fair.
Yantic, Hampton Roads, Va*	29.72	754.9	70	21.1	95	wnw.			1		8							cloudy.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
Allan Line.																		
S. S. Circassian, N. 55° 25′, W. 12° 35′*	29.64	752.8	54	12.2	87	wsw.			5		5		w.	0.01	0.3	3	wsw.	raining.
S. S. Grecian, N. 51° 40′, W. 12° 40′*	29.76	755.9				w.			6		10		w.	mist	mist	light	w.	misty.
S. S. Prussian, Glasgow, Scotland *	29.95	760.7	60	15.6		se.			2		3		sse.	1 h'r	1 h'r			clear.
S. S. Scandinavian, N. 47° 09′ W 39° 35′*	30.12	765.0	63	17.2		wsw.			2		2		nnw.	0	0			blue sky.
S. S. Waldensian, N. 43° 48′, W. 50° —′*	30.10	764.5	54	12.2		sse.			3		fg			0	0	light	sw.	dense fog.
American Steamship Company.																		
S. S. Illinois, N. 40° 03′. W. 50° 34′	29.99	761.7	72	22.2	95	s.			6		10		s.			sm'h	ssw.	overcast.
S. S. Indiana, Liverpool, Eng†	30.11	764.8	63	17.2	83	s.			3		8		sw.					cloudy.
S. S. Lord Clive, N. 41° 35′, W. 59° 36′ *†	29.86	758.4				ssw.			3		5		sw.	1 h'r	1 h'r			fine.
S. S. Lord Gough, Philadelphia, Pa	29.68	753.9	76	24.4							5			0	0			fair.
S. S. Pennsylvania, N. 45° 34′, W. 34° 43′†	30.37	771.4	66	18.9		wsw.			1		9		w.			sm'h		blue sky.
Anchor Line.																		
S. S. Ethiopa, New York, N. Y.	29.69	754.1	79	26.1	82	s.			2		3		s.	1 h'r	1 h'r			hazy.
S. S. Utopia, N. 39° 05′, E. 1° 44′†	30.28	769.1	80	26.7	66	nw.			2		0			0	0	mod.		clear.
Atlas Line.																		
S. S. Ailsa, Savantilla, U. S. C. †	29.96	761.0	82	27.8	91	e.			2		8		ne.	2 h'r	2 h'r			dull.
S. S. Alvena, Aricebo, Porto Rico, W. I. †	30.00	762.0	82	27.8	75	calm			0		0			0	0			fine.
S. S. Alvo, Inagua Island, W. I.	30.05	763.3				ne.			2		3		sw.	0	0			clear.
Boston and Halifax Line.																		
S. S. Carroll, Halifax, N. S †	30.01?	762.2?	52	11.1		sse.					fg						s.	foggy.
British Meteorological Office.																		
Bk. Arran, S. 36° 25′ E. 76° 46′	29.48	748.8	48.1	8.9	77	wsw.			9		6							rain & hail.
S. Baroda, N. 0° 34′. E. 94° 16′	29.87	758.7	84.5	29.2	76	sw.			2		4							d. clouds.
British Merchant, N. 24° 36′, W. 36° 20′	30.26	768.6	77.3	25.2	71	ene.			4		4							d. clouds.
S. S. Glencairn, S. 10° 08′, W. 11° 15′	30.10	764.5	79	26.1	74	s.			5		3							d. clouds.
S. S. Gordon Castle, N. 0° 41′, E. 76° 07′	29.89	759.2	83	28.3	87	w.			5		7							d. clouds.
Bkt. May Hulse, S. 55° 18′, W. 54° 47′	30.27	768.8	36	2.2	80	nw.			2		10							overcast.
S. S. Minho, N. 4° 16′, W. 29° 54′	30.03	762.7	79.6	26.4	81	ese.			4		9							d clouds.
S. S. Pole Star, S. 24° 49′, W. 27° 41′	30.09	764.3	71.5	21.9	85	wnw.			3		4							blue sky.
Cunard Line.																		
S. S. Gallia, N. 40° 45′ W. 54° 40′	29.93	760.2	74	23.3	90	s.			4		5		se.	0	0	sm'h		fine.
S. S. Scythia, N. 43° 02′ W. 48° 45′	30.06	763.5	62	16.7	97	s.			2		9		ssw.	0	0	sl'gt	ssw.	cloudy.
General Trans-Atlantic Company																		
S. S. France, N. 40° 58′, W. 59° 00′†	29.75	755.7	73.4	23.0		s.			3	c		s.		0	0	sm'h	s.	clear.
S. S. St. Laurent, N. 49° 45′, W. 6° 10′ †	30.14	765.5	57.2	14.0	67	sw.			3					0	0	sm'h	sw.	clear.
S. S. Ville de Marseilles, N. 39° 40′, E. 1° 22′ *†	30.10	764.5	74	23.3		ese.			4		0			0	0	sm'h		clear.
Guion Line.																		
S. S. Arizona, N. 43° 29′, W. 46° 23′	30.13	765.3	59	15.0		s.			3		8		sw.	0	0	sm'h		
S. S. Wisconsin, N. 42° 24′ W. 50° 30′*	29.89	759.2	56	13.3		s.			2		fg			0	0	mod.	ssw.	foggy.
Hamburg American Packet Company.																		
S. S Bohemia, N. 40° 38′. W. 69° 53′†*	29.78	756.4				s.			1		4		se.	1 h'r	1 h'r	sm'h	s.	hazy.
S. S. Gellert, N. 49° 54′, W. 15° 26′	29.90	759.4	60	15.6		sw.			6		10		sw.	0	0	rg'h	sw.	misty.
S. S. Herder, Hamburg, Germany*†	30.00	762.0	54	12.2		ssw.			8		8		nw.	8 h'r	8 h'r			covered.
S. S. Lessing, Havre France	30.11	764.8	70	21.1		sw.			2		5?			0	0			cloudy.?
Lampert and Holt's Line.																		
S. S. Hevelius, Liverpool Bay, Eng*†	30.11	764.8	57	13.9		wsw.			5		10		sw.	rain	rain			light rain.
S. S. Humboldt, N. 46° 01′, W. 30° 30′*	30.30	769.6	62.5	16.9	88	w.			4		3 k		s.	0	0	3	nw.	d. clouds.
Leyland Line.																		
S. S. Iberian, N. 52° 32′. W. 5° 40′	29.94	760.5				wsw.			3		10		w.	4 h'r	4 h'r			raining.
Mallory Line.																		
S. S. Colorado, N. 27° 39′. W. 91° 59′. †.	29.98	761.5	76	24.4		wnw.			3		0			0	0	small	wnw.	clear.
Merchants Express Line.																		
S. S. Hermod, N. 43° 40′ W. 42° 00′*†	30.15	765.8	71.6	22.0		se.			2		4		se.	0	0	sm'h	se.	fair.
Merchant Steamship Company.																		
S. S. Glenfyne, S. 5° 08′, W. 34° 48′	29.53	750.0				ese.			9				se.	4 h'r	4 h'r		e.	clear.
S. S. Glenapp, S. 13° 30′ W. 36° 27′*†	30.18	766.6				ese.			3		2		e.	1 h'r	1 h'r	sm'h		
National Line.																		
S. S. Denmark, N. 42° 40′ W. 41° 47′	30.27	768.8	69	20.6		se			3		8		ese.	0	0	slight	sse.	cloudy.
S. S. England, N. 44° 50′, W. 36° 50′	30.37	771.4				s.			3		0			0	0	sm'h		clear.
S. S. Greece, N. 41° 30′, W. 49° 57′	30.03	762.7				s.			2		5		sw.	0	0	sm'h	nnw.	very fine.
S. S. The Queen, N. 40° 39′, W. 52° 09′*	29.96	761.0	70	21.1		ssw.			3		5?		calm	0	0			clear ?
New York, Havana and Mexican Mail.																		
S. S. City of Alexandria, New York, N. Y *†	29.74	755.4	71	21.7	90	ene.			2									fair.
S. S. City of Puebla, N. 31° 48′ W. 77° 55′.†	29.79	759.7	79	26.1		sw.			3		5		sw.			mod.	wsw.	squally.
S. S. City of Washington, Havana, Cuba, W. I.*†	30.14	765.5	86	30.0		calm			0		0			0	0			clear.
North German Lloyd.																		
S. S. Gen. Werder, N. 40° 35′, W. 68° 58′	29.71	754.6				wsw.			1		0			0	0	sm'h		hazy.
S. S. Graf Bismark, N. 45° 30′, W. 7° 50′	30.19	766.8	70.7	21.5		nw.			3–5		4		var.			mod.	e.	fine.
S. S. Habsburg, off Needles, Isle of Wight	30.18	766.6	58.1	14.5		sw.			2		5		sw.	0	0	sm'h		fair.
S. S. Hermann, N. 48° 13′, W. 22° 14′†	30.00	762.0	59.9	15.5		w.			5		3?		wnw.	0	0	cross	w.	cloudy.?
S. S. Hohenzollern, N. 49° 33′, W. 8° 39′*	30.06	763.5	57	13.9		wsw.			4		8		wnw.	0	0	4	w.	cloudy.
S. S. Leipzig, N. 42° 02′. W 48° 18′	30.10	764.5	63.5	17.5	?	sse.			4		5		sse.	0	0	sm'h		fair.
S. S. Mosel, N. 47° 43′. W 29° 03′	30.26	768.0	60	15.6		w.			4		2		w.	0	0	sm'h		clear.
S. S. Necker, N. 47° 31′, W. 27° 46′			65.0	18.3	78	wsw.			5		2		wsw.	0	0	mod.	wsw.	clear.
S. S. Ohio, Bremerhaven, Germany	30.15	765.8				nw.			4		7		nw.	4 h'r	4 h'r			cloudy.
S. S. Rhein, N. 49° 50′ W. 12° 28′	29.89	759.2				w.			6		9		w.	sh'rs	sh'rs	cross	w.	misty.
S. S. Salier, Bremerhaven, Germany.	30.10	764.5	52.7	11.5		nw.			3		8		nw.	1 h'r	1 h'r			cloudy.
Occidental and Oriental Steamship Company.																		
S. S. Arabic, N. 30° 53′, E. 130° 42′*†	29.67	753.6	73	22.8	95	sw.			6		10		sw.	h'vy	hv'y	con.	sw.	showery.
S. S. Belgic, N. 44° 57′, E. 162° 37′†	29.91	759.7	52	11.1	86	w.			3		10			0	0	mod.	w.	foggy.
S. S. Gaelic, N. 32° 06′, E. 133° 14′†	29.67	753.6	78	25.6	86	var.			2		10		sw.			mod.	ssw.	overcast.
S. S. Oceanic, N. 46° 54′, E. 179° 37′*	29.94	760.5	46	7.8	92	s.			6		10		se.			4	s.	drizzling.
Ocean Steamship Company.																		
S. S. City of Augusta, New York, N. Y†	29.76	755.9				nne.			1		0			0	0			smoky.
S. S. City of Columbus, Tybee, Ga.†	29.94	760.5				sw.			5		2		sw.	0	0	mod.	sw.	clear.
S. S. Seminole, N. 34° 45′, W. 75° 30′†.	29.87	758.7	78	25.6	73	sw.			1		1		sw.	0	0	sm'h	ssw.	clear.
Oregon Improvement Company.																		
S. S. Willametta, Strait of Fuca, Wash. Ter†	30.19	766.8	60	15.6	88	w.			5		7		w.	0	0			hazy.
Oregon Railway and Navigation Company.																		
S. S. Columbia, Columbia River, Oregon†	30.15	765.8	56	13.3	81	wnw.			3		10		nw.					cloudy.
S. S. Oregon, N. 45° 32′, W 124° 09′†	30.19	766.8	55	12.8	93	n.			2		10					light	nw.	threatening.
Pacific Coast Steamship Company.																		
S. S. Ancon, N. 33° 56′, W. 118° 53′†	29.96	761.0	59	15.0	88	ese.			2		8		ene.			sm'h		fair.
S. S. Geo. W. Elder, Seattle, Wash. Ter†	30.16	766.1	55	12.8	87	ene.			3		10					sm'h		cloudy.
S. S. Idaho, N. 55° 40′, W. 132° 11′†	30.14	765.5	47	8.3	85	se.			2		10						w.	foggy.
S. S. State of California, San Francisco, Cal. †	29.93	760.2	54	12.2	87	w.			2		10		w.					overcast.
S. S. Victoria, N. 47° 19′, W. 124° 36′	30.18	766.5	50	10.0	100	nw.			4		10					h'vy	nw.	drizzling.
Pacific Mail Steamship Company.																		
S. S. Australia, S. 4° 06′, W. 168° 22′	29.91	759.7	81	27.2	83	se.			2		0			3 h'r	3 h'r	sm'h		clear.
S. S. City of Pekin, Hong Kong, Chihuahua	29.78	756.4	84	28.9	87	se.			1		5		ese.	0	0	sm'h		fair.
S. S. City of Rio de Janeiro, San Jose, Guatamala*†	30.18	766.6	82	27.8	83	ese.			2		9		ese.	0.1	3.	long	sw.	raining.
S. S. City of Sydney, Sydney, N. S. W.†	29.77	756.1	58	14.4	58	ssw.			5		2		sw.	0	0	sm'h		fair.
S. S. City of Tokio, N. 40° 03′, W. 142° 48′†	30.60	777.2	67	19.4	84	e.			1		10		s.	4 h'r	4 h'r	mod.	s.	raining.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
PACIFIC MAIL STEAMSHIP COMPANY.—CONTINUED.																		
S. S. Clyde, N. 16° 43′, W. 99° 41′†	29.99	761.7	82	27.8	71	nw.			1		8		nw.	1 h'r	1 h'r	mod	ssw.	fair.
S. S. Colon, Aspinwall, Panama†	29.93	760.2	80	26.7		sw.			1		10		se.	3 h'r	3 h'r	sm'h		overcast.
S. S. Grenada, San Jose, Guatemala†	29.97	761.2	83	28.3	91	ne.			1		5		ne.	2 h'r	2 h'r	mod.	sw.	rainy
S. S. South Carolina, Off Puercos Cape, Costa Rica†	30.00	762.0	80	26.7	96	wsw.			2				w.	0	0	light	wsw.	cloudy.
S. S. Zealandia, S. 34° 04′, E. 165° 19′	29.96	761.0	66	18.9	68	w.			5		5		w.			high	w.	fine
QUEBEC STEAMSHIP CO.																		
S. S. Bermuda, St. Pierre, Martinique, W. I†	30.13	765.3	84	28.9		ene.			1		8		ene.	rain	rain	g'tl	s.	cloudy.
RED STAR LINE.																		
S. S. Rhynland, N. 46° 38′, W. 35° 06′	30.31	769.9	62	16.7	77	wsw.			2		3		wsw.	0	0	light	w.	clear.
S. S. Switzerland, N. 40° 05′, W. 51° 29′†	30.06	763.5				sse.			3		10		ssw.	0	0	mod.	s.	cloudy.
S. S. Vaderland, N. 40° 27′, W. 71° 36′	29.62	752.3	62	16.7	88	calm			0		0			0	0	sm'h		clear.
ROTTERDAM LINE.																		
S. S. P. Caland, N. 40° 08′ W. 57° 30′.†	29.84	757.9	72.0	22.2	94	s.			2	4 ck	0	s.				sm'h	s.	fair.
S. S. W. A. Scholten, N. 48° 31′ W. 16° 34′	29.92	760.0	59	15.0	92	wnw.			6		7		w.	0	0			
STATE LINE.																		
S. S. State of Florida, N. 43° 18′, W. 43° 32′	30.06	763.5	67	19.4		sse.			5		6		s.	driz.	driz.	g'tl	s.	cloudy.
THINGVALLA LINE.																		
S. S. Thingvalla, Brooklyn, N. Y†	29.99	761.7	66.2	19.0		calm			0		10			0	0	sm'h	s.	cloudy.
WARREN LINE																		
S. S. Iowa. N. 42° 56′, W. 46° 07′*†	30.28	769.1	64	17.8		sse.			6		10		sse.	0	0	sli't	sse.	cloudy.
WHITE STAR LINE.																		
S. S. Britannic, N. 50° 22′, W. 20° 30′†	29.94	760.5	55	12.8	93	nnw.			4		8		nw.	0	0	mod	nw.	d. clouds.
S. S. Celtic, Liverpool, Eng†	29.58	751.3	58	14.4	94	s.			2		10			0	0			dull.
S. S. Germanic, N. 40° 49′, W. 69° 21′†	29.84	757.9	49	9.4		wsw.			1		2		wnw.			sm'h		hazy.
S. S. Republic, N. 48° 41′, W. 30° 20′†	30.33	770.4	62	16.7	88	wsw.			5		9		wsw.	0	0	long	w.	overcast.
WILSON LINE.																		
S. S. Otranto, N. 49° 47′, W. 10° 03′†	30.14	765.5	57	13.9		sw.			6		8		wsw.			short	wsw.	cloudy.
MISCELLANEOUS.																		
Bg. Abbe Clifford, N. 20° 42′ W. 73° 48′.*†	30.09	764.3	83	28.3		ese.			2		6			0	0	sm'h		fine.
Schr. Addie Fuller, N. 39° 17′, W. 73° 55′†	29.82	757 4	68	20.0	84	sw.			1	4 c	hz			0	0	sm'h		fair.
Schr. Ajax, N. 29° 12′, W 94° 26′†	30.00	762.0				sw.			3		1		sw.	0	0	mod.	s.	clear.
Bk. Alpha, N. 27° 50′. W. 75° 12′†	29.96	761.0	80	26.7		wsw.			3		1		w.	0	0	long	n.	clear.
Schr Annie Lewis, Mobile Bay, Ala†	30.07	763.8	83	28.3		w.			3		0			0	0			clear.
Bk. Anna Thormann, S. 17° 55′ W. 33° 12′	30.19	766.7	75.0	23.9	80	s.			5		5 ks		s.	1 h'r	1 h'r	short	sse.	fair.
Schr. Asa Eldridge, Havana, Cuba, W. I.†	30.01	762.2				e.			2		3		ne.	0	0			fair.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.47	773.9	74	23.3		w.			2		8		wsw.	2 h'r	2 h'r			cloudy.
Bk. Bergenseren. N. 39° 18′. W. 64° 25′†	29.62	752.3	74	23.3		nw.			2					rain	rain	2	s.	fair.
Schr. C. R. Flint, Off Tampico Bar, Mexico†	30.10	764.5	81	27.2		wnw.			1		2		sse.	0	0	mod	ne.	fair.
Schr. Edith R. Seward, Wilmington, N. C*†	29.84	757.9	81	27.2		wsw.			1		2		w.	0	0			clear.
S. E. J. Spicer, N. 47° 42′, W. 39° 20′†	30.34	770.6				w.			3		8		wnw.	0	0	mod	nnw.	
Bk. Essex, S. 0° 25′ W. 31° 25′*†	30.00	762.0	80	26.7		ese.			2		2		se.	0	0	long	se.	hazy.
S. Exporter, S. 31° 50′, E. 76° 10′*†	30.00	762.0				ssw.			6		2		ssw.	0	0	long	ssw.	
Bk Freya, N. 43° 08′ W. 37° 55′			68	20.0		s.			4		0			0	0	sm'h		fine.
S. Grecian, Hong Kong, China*†	29.68	753.9	83	28.3		se.			2		3		se.	0	0			clear.
Bk. Hattie G. McFarland, ydney, Cape Breton*†	29.78	756.4	60	15.6		n.			3		10		n.	0	0			foggy.
S. Hedwig, N. 42° 23′, W. 38° 46′	30.34	770.6	66.9	19.4	85	se.			3		4		se.	0	0	sm'h	sw.	fine.
S. Ismir, S. 30° 59′, W. 31° 52′†	30.10	764.5				ssw			6		8		ssw.			r'gh	ssw.	squally.
Schr. James Slater, S. 0° 30′ W. 47° 28′*†	30.25	768 3	83	28.3		ese.			2		0			3 h'r	3 h'r	short	ene.	
Schr. Jennie N. Huddell, Boston, Mass†	29.95	760.7	69	20.6	84	ene.			1					0	0			clear.
Schr. John L. Thomas, Pearl Ids., Mosquito coast C A*†	29.98	761.5				nne.			5		10		ne.	4 h'r	4 h'r			squally.
Bkt. Josephine, N. 40° 12′ W. 71° 07′†	29.92	760.0	65	18.3	83	sse.			2		2			0	0	sm'h		hazy.
Light House Tender, Laurel, Key West, Fla†	30.04	763.0	85	29.4		ssw.			2		4		sw.	0	0			fair.
S. Minnie N. Gerow, N. 40° 37′, W. 66° 54′*†	29.72	754 9				wsw.			1		2		w.			sm'h	sw.	hazy.
S. M. P. Grace, N. 20° 02′. W. 39° 53′*	30.13	765.3	76	24.4		e.			4				ene.	sqll's	sqll's	r'gh	ene.	squally.
S. S. Nebo, N. 44° 00′, W. 62° 00′ *†	29.70	754.4				w.			2		2		se.	0	0	sm'h		clear.
S. Paramita, S. 58° 25′ W. 76° 52′†	29.48	748.8	42	5.6		nnw.			7		5?		w.	5 h'r	5 h'r		wsw.	clear ?
Bk Peppina, N. 48° 15′, W. 6° 30′.†	30.10	764.5	57	13.9	?	ssw.			1		5		s.	0	0	mod.	wnw.	fair.
Bg. Potomac, N. 23° 06′, W. 56° 30′*†	30.20	767.1				sse.			1				se.	0	0	hv'y	s.	fine.
Bk. Princessen, N. 54° 49′, E. 9° 50′†	30.01	762.3	53	11.7		wnw.			4		8			0	0	sm'h		cloudy.
Bk. Rosebud, S. 26° 36′, W. 25° 16*†	29.90	759.4	66	18.9	78	w.			4–6		5		w.	shr's	shr's	str'g	w.	squally.
S. Salisbury, S. 32° 04′ E. 99° 06′*	29.88	759.0	60.4	15.8	84	calm			0		3		nw.	3 h'r	3 h'r	long	n.	clear.
S. S. Sunbeam, Penarth Roads, Eng	30.07	763.8	63	17.2	61	sse.			1		7		sse.					d. clouds.
Bg. Teneriffe, N. 22° 40′, W. 71° 00′	29.99	761.7				calm			0		2			0	0	mod.		fine.
Bk. Truro, Havre, France*†	30.05	763.3				calm.			0		1			0	0			clear.
U.S.F.C.S.S. Fish Hawk. Washington, D. C.†	30.03	762.7	82	27.8	83	calm			0		3		calm	0.15	3.8			clear.
Yacht Vega, N. 31° 43′, W. 70° 52′*†	30.10	764.5	73	22.8		wsw.			3		8		wsw.	mist	mist		w.	
S. S. Victoria J. Peed, Salamanca Id, U. S. C.						e.			3		6							
Bk. Vincenzo Accame N. 37° .–′, W. 27° 50′†	30.59	777.0	71.6	22.0		e.			2									
Schr Viola Reppard, Brunswick, Ga†	29.88	758.9	84	28.9		w.			2		1		w.	3 h'r	3 h'r			clear.
Bkt. Wandering Jew, N. 42° 04′ W. 69° 34′*†	29.78	756.4	61	16.1		ne.			3		2		ne.	0	0	sm'h		fair.
Bk. Warden Law, N. 43° 25′ W 35° 30′*	30.39	771.9				se.			4		2		s.	0	0	sm'h	nnw.	fair.
Bg. Wauburn, N. 38° 37′. W. 73° 51′*†	30.00	762.0				ssw.			4		4		s.	0	0	sm'h	s.	hazy.
Bk. Wm. Wilcox, S. 1° 59′ W. 30° 15′*†	30.18	766.6	78	25.6		se.			4		2		se.	0	0	sm'h		fair.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 18, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.97	761.3	74.7	23.7	78	s.			1		0			0	0	clear	Moiroud.
Algiers			30.02	762.6	75.9	24.4	43	w.			8		0			inap.	inap.	clear	Nicolas.
La Calle			30.05	763.2	79.5	26.4	46	ese.			2		2			0	0	fair	Fonfrède.
Tunis			30.11	764.7															Jacques.
Saida			30.10	764.6	79.2	26.2	38	w.			1		0			0	0	clear	Perès.
Tebessa			30.13	765.2	89.2	31.8	20	sw.			2		1			0	0	very fair	Derché.
Geriville					89.2	31.8	14	nw.			1		0			0	0	clear	Lonchamp.
Laghouat			30.10	764.6	95.0	35.0	37	s.			3		0			0	0	clear	Abraham.
Biskra			30.11	764.8	87.8	31.0	32	se.			2		6			0	0	cloudy	Malau.
Australian.																			
Melbourne, Victoria	29.68	753.9	29.78	756.4	45.0	7.2	82	wnw.	7	3.1			1			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.56	750.8	30.10	764.5	66.9	19.4	47	ne.			2		0			0	0		Prof. Ivan Stozir.
Cracow, I. R. Observatory	29.32	744.7	30.08	763.9	62.6	17.0	61	s.	1.8	0.8			4			0	0		Dr. Wierzbiski.
Eperies	29.15	740.4	30.00	762.1	65.5	18.6	59	n.			1	c	5 s			0.079	2.0		Julius Mikolik.
Gratz	28.83	732.3	30.05	763.2	65.3	18.5	76	nnw.			3		0			0	0		Andreas Rospini.
Hermannstadt	28.58	725.8	29.99	761.7	59.0	15.0	77	n.			4		10			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.64	727.4	29.93	760.3	68.9	20.5	58	ne.			1	1 c	0			0	0	clear	The Staff.
Lemberg	29.03	737.4	30.00	762.1	60.3	15.7	62	ne.			1		7			0.059	1.5		Dr. T. Stanecki.
Pola	30.02	762.6	30.13	765.4	70.0	21.1	80	s.			2		7			0	0		I. R. Hydrographic Office.
Szathmar	29.53	750.1	29.98	761.6	66.2	19.0	48	nw.			2		5			0	0		Joseph Midlinszky, S. J.
Szegedin	29.77	756.1	30.04	763.1	64.8	18.2	49	n.			1		4			0	0		Karl Stancel.
Trieste	30.05	763.3	30.15	765.9	69.8	21.0	52	calm			0		4			0	0		Royal Academy.
Vienna	29.35	745.5	30.05	763.2	67.5	19.7	42	se.			2		0			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.45	748.0	29.55	750.6	49.6	9.8	96	e.	10	4.5			10			0.015	0.4	overcast	W. Boswell
Armagh, Observatory																			S. Oall.
Bidston, Liverpool Obs'y			29.60	751.8	55.0	12.8	87	w.	18	8.0			10					raining	John Hartnup.
Bolton, Sharples	29.06	738.1	29.59	751.6	54.8	12.7	75	wsw.	18	8.0			8					overcast	Thomas Mackereth. [A.S.
Bradford, Yorkshire																0.01	0.3		J. McLandsborough, F. R
Bridgetown, Barbadoes																			Corpl. J. Surgenor, A. H. C.
Cardington																			John McLaren.
Chatham, School M. E.	29.55	750.6	29.68	753.9	57.1	13.9	74	sw.			1		10					raining	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.56	750.8	29.78	756.4	56.6	13.7	68	w.			4		8					d clouds	The Staff.
Fort Napier, Natal	27.86	707.6	30.07	763.8	75.0	23.9	19	e.			1		0					blue sky	Pvt. Lane, A. H. C
Free Town, Sierra Leone	29.64	752.8	29.87	758.7	82.0	27.8	87	w.			2		7					d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	30.06	763.5	30.11	764.8	79.6	26.4	69	sw.			4		4					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.26	743.2	29.46	748.3	52.2	11.2	93	wsw.			3		6					raining	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.51	749.5	29.68	753.9	53.7	12.1	90	ssw.			1		10					raining	The Staff.
Guernsey	29.50	749.3	29.80	756.9	60.0	15.6	76	sw.			2		7					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.65	753.1	29.69	754.1	54.7	12.6	90	sw.	12	5.4			10					raining	The Staff.
Leicester, Museum	29.36	745.7	29.61	752.1	57.2	14.0	64	sw.			2		8					d. clouds	J. C. Smith.
Malta, Mediterranean	29.97	761.2	30.05	763.3	78.6	25.9	57	ne.			3		0					blue sky	I. H. Whysall.
Nassau, Bahamas	30.05	763.3	30.09	764.3	80.0	26.7	78	sw.			1		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.11	739.4	29.66	753.4	56.9	13.8	69	wsw.			3		8					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.42	747.3	29.65	753.1	57.0	13.9	74	wsw.			2		10					threatening.	The Staff.
Plymouth	29.67	753.6	29.74	755.4	60.8	16.0	68	wnw.			4		10					showery	John Merrifield.
Sandwick Manse, Orkneys			29.65	753.1	50.5	10.3	90	e.	20	8.9			10					raining	Rev. C. Clouston, L. L. D
Scutari Cemetery, Turkey	29.79	756.7	29.85	758.2	60.0	15.6	82	n.			2		10					drizzling	W. H. Lyne.
Sheffield	29.32	744.7	29.59	751.6	64.9	18.3	65	sw.			1		4			0.01	0.3	d. clouds	W. F. Cooper.
Siloth Rectory	29.50	749.3	29.53	750.0	57.4	14.1	79	wsw.			4		6			0.045	1.2	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.60	751.8	54.5	12.5	68	w.	15	6.7			10					overcast	J. New.
Stratfield Turgiss	29.46	748.3	29.67	753.6	58.4	14.7	69	w.			3		8					d. clouds	Rev. O. H. Griffiths, F.M.S
Truro, Royal Institution	29.76	755.9	29.78	756.4	61	16.1	61	nw.			6		5					d. clouds	W. Newcombe.
Valencia, Observatory	29.78	756.4	29.80	756.9	54.5	12.5	81	wnw.	25	11.2			7			blank	blank	d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.							85	se.	4	1.8		2 c	5 s	w.	sw.	0	0	fair	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.85	758.2	29.89	759.2	62	16.7	90	ne.	1	0.4			10 s		ne.	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.80	756.9	29.86	758.4	58	14.4	90	e.	38	17.0			10 k		sw.	0	0	threatening	G. A. Blair.
Father Point, Quebec*	29.64	752.8	29.66	753.4	62	16.7	84	s.					fg.			0	0	dense fog	J. McWilliams.
Halifax, N. S*	29.83	757.7	29.95	760.7	55	12.8	100	se.	4	1.8			10 n			1.81	46.0	light rain	A. Allison.
Kingston, Ontario*	29.29	744.0	29.62	752.3	61	16.1	96	w.	3	1.3			10 n			0.03	0.8	heavy rain	A. P. Knight, M. A.
Montreal, Quebec*	29.44	747.8	29.64	752.8	66	18.9	93	calm	0	0			10 n					cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	28.97	735.8	29.65	753.1	56	13.3	80	e.	13	5.8			10 n		ne.	0.17	4.3	cloudy	Rev. R. Mosley.
Port Dover, Ontario	28.96	735.6	29.63	752.6	62	16.7	100	calm	0	0			fg.			0.50	12.7	foggy	H. Morgan.
Port Stanley, Ontario	29.00	736.6	29.61	752.1	62	16.7	96	se.	1	0.4			fg.			inap.	inap.	foggy	M. Payne.
Quebec, Quebec*	29.36	745.7	29.67	753.6	59	15.0	100	calm			0		8 n		w.	0.60	15.2	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.23	742.4	29.67	753.6	56	13.3	83	n.	5	2.2			10 n			0.75	19.0	cloudy	W. H. McIntyre.
Saugeen, Ontario*	28.91	734.3	29.60	751.8	59	15.0	93	e.	15	6.7			10 ks			0	0	cloudy	
St. Andrews, N. B	29.80	756.9	29.85	758.2	50	10.0	92	s.	4	1.8			fg.			0	0	dense fog	
Sydney, C. B*	29.91	759.7	29.97	761.2	58	14.4	86	w.	1	0.4		5 c	0	w.		0	0	fair	T. C. Hill, C. E
Toronto, Ontario*	29.25	742.9	29.62	752.3	63	17.2	87	n.	2	0.9		2 cs	2 ks		w.	inap.	inap.	fair	Magnetic Observatory.
Yarmouth, N. S*	29.79	756.7	29.86	758.4	56	13.3	100	se.	3	1.3			fg.			0	0	foggy	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.27	718.0	29.70	754.4	57.0	13.9	100					3 k	0	nw.		0	0	dense fog	Wm. Wylie.
St. Johns, Newfoundland	29.98?	761.5?	30.23?	767.8?	48	8.9	100	ne.	0	c			fg.			0.23	5.8	rain & fog	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.18	766.6	30.21	767.3	63.0	17.2	82	wsw.	8.5	3.8		0	2 s			0	0	clear	John Duthie.
Cape Town, C. G. H. Obs'y	30.17	766.3	30.21	767.3	59.0	15.0	86	nnw.	3	1.3		0	0			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow	29.60	751.8	29.87	758.7	69.5	20.8	96	sse.			3		10			0.51	13.0	raining	N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.71	754.7	29.74	755.4	69.3	20.7	94	ese.	3.8	1.7			10			0.929	23.6	covered	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.93	760.2	29.98	761.4	57.4	14.1	58	s.	11.	5.			7						Oversergent Fischer.
Fanöe	29.84	757.9	29.86	758.4	61.2	16.2	69	s.			4		8						Overloerer Lauridsen.
Godthaab, Greenland	29.56	750.8	29.60	751.9	46.2	7.9	79	ene.			2		1			0.063	1.6		S. Kleinschmidt.
Stykkisholm, Iceland	29.72	755.0	29.77	756.1	47.1	8.4	87	se.			2		8						A. O. Thorlacius.
Thorshavn	29.81	757.1	29.84	758.0	47.7	8.7	80	ne.	9	4			10						Overloerer Bergh.
Vestervig	29.76	756.0	29.85	758.3	59.4	15.2	59	se.			4		8						Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.38	746.3	29.95	760.7	63.0	17.2	90	wsw.			2		10		w.			sprinkling	M. Labroue, Director.
Alençon, Normal School	29.29	744.0	29.84	758.0	59.0	15	78	sw.			1		n	ne.	ne.	0	0		M. Nicot, Director.
Arras, Engineer School	29.61	752.0	29.86	758.4	61.5	16.4	74	s.			3		10		sw.	0	0	covered	M. Fénéon, Command't.
Avignon, Normal School	29.98	761.5	30.06	763.5	73.4	23	37	sw.			1		5		sw.	0	0	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.34	745.2	29.88	759.0	63.7	17.6	57	s.			1		10			0.098	2.5	covered	M. Saillard, Director.
Beauvais, Normal School	29.52	749.8	29.78	756.4	65.3	18.5	58	se.			1		10		w.	0.098	2.5	covered	M. Frère Eugène Marié.
Besançon, Normal School	29.12	739.7	30.07	763.7	73.8	23.2	43	ne.			3		cn		sw.	0	0		M. Gobin, Director.
Bordeaux, Observatory	29.74	755.4	30.00	761.9	61.5	16.4	67	w.			1		10			0.087	2.2	covered	M. Rayet, Director.
Bourges, Normal School	29.38	746.3	29.93	760.2	58.1	14.5	78	s.			2		n		s.	0	0		M. Postel, Director.
Brest, Naval Observatory	29.67	753.5	29.95	760.7	65.8	18.8	64	nnw.			2		8		nnw.	0.047	1.2		M. de Kermarec, Dir.
Caen, Normal School	29.65	753.1	29.72	755.0	67.6	19.8	55	ssw.			2		8		ssw.	0	0	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.50	749.4	29.74	755.4	56.3	13.5	61	s.			2		10			0	0	covered	M. Judot, Director.
Charleville, Normal School	29.30	744.3	29.80	756.9	67.6	19.8	42	s.			1		10			0	0	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.60	726.3	29.91	759.8	66.7	19.3	49	sse.			1		10			0	0	threatening	M. Allnard, Director.
Cluny, Normal School	29.10	739.0	30.00	761.9	77.0	25	52	w.			2		0			0.55	14.		M. de Villemontée, Dir.
Commercy, Normal School	29.01	736.8	29.85	758.3	67.1	19.5	54	sw.			1		kns	sw.	sw.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.58	700.6	30.05	763.3	68.4	20.2	31	s.			1		1 c n		sw.	0	0		M. Jeanginard, Director.
Grézasque, du Rhone	28.92	734.6	30.02	762.5	75.9	24.4	21	se.			3		7		s.	0	0		M. Kina, Director.
Grènoble, Normal School	29.20	741.6	29.93	760.3	73.4	23	61	wnw.			1	2 cs	0			0	0	slightly cl'dy	M. Ablard, Director.
Guéret, Normal School	28.39	721.1	29.95	760.7	56.1	13.4	79	sw.			2		10		ne.	0.150	3.8	covered	M. Rivoire, Director.
Lamballe, Normal School	29.61	752.0	29.88	759.0	59.0	15	68	wnw.			2		8		wnw.	0.04	1.	very cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.47	748.6	30.04	762.9	61.9	16.6	83	ssw.			3		5			0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.78	756.4	29.88	759.0	63.5	17.5	76	w.			2		10		w.	0	0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.91	734.4	29.93	760.3	73.2	22.9	35	s.			2	8 c		w.	n.	0	0	¾ covered	M. André, Director.
Mans, Normal School	29.55	750.6	29.85	758.3	60.8	16	59	w.			4		5		w.	0	0	cloudy	M. Piboen, Director.
Marseille, Observatory	29.78	756.4	30.04	763.1	75.7	24.3	32	sse.			4		5		w.	inap.	inap.		M. Stephan, Director.
Montlouis	24.89	632.3	29.74	755.3	54.7	12.6	72	e.	9.4	4.2			8		ne.	0.177	4.5		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.91	759.7	30.03	762.8	73.0	22.8	62	s.			2		10		n.	0	0	covered	M. Galzin, Director.
Nancy, Normal School	29.21	741.8	29.97	761.2	67.6	19.8	54	s.			1		ckn			0	0		M. Hasse, Director
Nantes, Observatory	29.78	756.3	29.94	760.4	61.5	16.4	70	sw.			2–3		10 n		wsw.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.91	759.6	30.01	762.3	73.0	22.8	58	se.	9.4	4.2			8	wsw.	sw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.30	541.0			39.7	4.3		sw.			1		10		sw.	0.236	6.0	rainy	Gen'l de Nansouty, Dir.
Privas, Normal School	29.09	738.8	30.12	765.0	73.4	23.0	31									0	0		M. Tallieu.
Puy de Dôme Obs'y, Summit	25.13	638.4			48.7	9.3	75	sw.			4		10			0	0	covered	M. Allnard, Director.
Rochefort, Naval Obs'y	29.93	760.1	29.96	760.9	67.5	19.7	100	w.			2		8		sw.	0	0	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.70	754.4	29.91	759.7	66.2	19	63	wsw.			1		8		wsw.	0	0	very cloudy	M. Mouillot, Director.
Rodez, Normal School	27.90	708.7	29.98	761.6	66.6	19.2	56	nw.			1		kn		s.	0	0		M. Seger, Director.
Rouen, Normal School	29.72	755.0	29.77	756.2	65.1	18.4	62	sw.			1		10	sw.		0	0	covered	M. Brotier.
Saint Maur, Observatory	29.66	753.3	29.82	757.5	60.3	15.7	65	sse.			1		10		sw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.34	745.1	30.06	763.5	67.6	19.8	79	se.			1		8			0	0	very cloudy	M. Baillaud, Director.
Tours	29.69	754.2	29.87	758.7	65.5	18.6	49	sw.			1		10	sw.	sw.	0	0	stormy	M. de Tastes.
Versailles, Observatory	29.32	744.8	29.84	757.8	62.6	17.0	57	w.			1					0.079	2.0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.54	750.3	29.83	757.7	60.1	15.6	70	s.			1		10		ssw.	0	0		M. Marié Davy, Director
GERMAN.																			
Bamberg	29.09	738.9	29.94	760.5	69.4	20.8	50	sse.			3	4 cs	0			0	0		Prof. Dr. Hoh.
Berlin	29.86	758.5	30.04	762.9	67.3	19.6	47	s.			2		1			0	0		Prof. Dr. Arndt.
Breslau	29.56	750.7	30.09	764.2	64.8	18.2	42	ese.			2		5			0	0		Royal University Obs'y.
Carlsruhe	29.44	747.7	29.86	758.4	71.2	21.8	46	sw.			1		9	sw.		0.343	8.7		Albert Senz.
Cassel	29.11	739.4	29.82	757.5	70.5	21.4	35	s.			4		5	sw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.52	749.9	29.88	758.9	72.3	22.4	34	ssw.			1		3			0	0		Physical Society.
Friedrichshafen	28.52	724.4	29.92	760.8	62.4	16.9	64	s.			2		5	sw.		0.480	12.2		Wilhelm, Chief Tel.
Hamburg	29.81	757.1	29.90	759.5	62.6	17.0	49	sse.			4		4			0	0		E. Preller.
Kiel	29.88	759.0	29.90	759.4	61.2	16.2	55	se.			1		6			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.54	750.4	29.95	760.8	67.1	19.5	41	s.			3		1			0	0		H. Leppig, Asst.
Magdeburg	29.73	755.2	29.92	759.9	67.1	19.5	39	sse.			2	3 c	0	w.		0	0		Dr. Assmann.
Memel	30.02	762.6	30.07	763.8	59.0	15.0	56	wsw.			4	5 ck	0						Issermann.
Munich	28.14	714.8	30.00	762.0	70.7	21.5	26	w.			2		2			0	0		Central Station.
Neufahrwasser	30.06	763.5	30.08	763.9	61.2	16.2	48	sw.			1		10			0	0		A. Lothes.
Neustadt, Palatinate	29.33	745.0	29.85	758.3	69.8	21.0	47	s			3		4			0.098	2.5		Dicknether.
Stuttgart	28.91	734.4	29.76	756.0	74.8	23.8	33	sw.			5		6	w.		0.142	3.6		Prof. Dr. Schoder.
Wustrow	29.98	761.6	30.01	762.3	63.0	17.2	53	se.			2	0	8 s			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.50	749.2			77.4	25.2		s.			3.0		6 k			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.56	750.9	29.61	752.1	87.9	31.1	73	wsw.	32.0	14.3			4		w.	0	0	misty	
Deesa	29.08	738.6	29.54	750.2	94.9	34.9	44	wsw.	19.2	8.6			8	sw.	sw.	0	0	d. clouds	
Bombay	29.72	754.8	29.75	755.7	85.1	29.5	78	wsw.	16.0	7.2			6		w.	0	0	d. clouds	
Poona, Yarrowda	27.89	708.3	29.72	755.0	82.0	27.8	58	w.	24.0	10.7			4		w.	0	0	d. clouds	
Trichinopoly	29.51	749.4	29.78	756.4	89.4	31.9	48	nw.	1.0	0.4			10			0	0	overcast	
Bellary	28.23	717.0	29.66	753.4	90.5	32.5	38	w.	17.1	7.6			8	sw.		0	0	d. clouds	
Belgaum	27.25	692.2	29.79	756.7	75.0	23.9	76	wsw.	10.0	4.5			4	se.	sw.	0	0	d. clouds	
Lahore	28.69	728.7	29.38	746.3	107.3	41.8	18	calm	2.2	1.0			0			0	0	blue sky	
Roorkee	28.63	727.2	29.51	749.5	87.6	30.9	64	ne.	2.8	1.2			6			0.01	0.3		
Agra	28.92	734.7	29.47	748.6	92.2	33.4	59	se.	3.7	1.6			9		se.	0	0	d. clouds	
Nagpur	28.51	724.2	29.52	749.9	91.2	32.9	47	sw.	6.2	2.8			7		w.	0	0	d. clouds	
Jubbulpore	28.21	716.4	29.56	750.9	73.8	23.2	92	w.	5.8	2.6			10		nw.	1.97	50.0	overcast	
Lucknow	29.11	739.5	29.48	748.8	86.1	30.1	94	calm	3.0	1.3			10	wnw.		0.46	11.7	overcast	
Allahabad	29.14	740.1	29.44	747.8	86.7	30.4	72	se.	2.2	1.0			3			0.15	3.8	d. clouds	
Patna	29.33	745.0	29.51	749.6	87.6	30.9	76	sse.	8.9	4.0			8	sse.	sse.	0	0	d. clouds	
Hazaribagh	27.52	699.1	29.50	749.4	79.8	26.6	62	s.	9.6	4.3			5		s.	0	0		
Cuttack	29.50	749.3	29.58	751.3	91.1	32.8	63	ssw.	6.9	0.4			6			0.04	1.0	d. clouds	
Calcutta, Alipore	29.57	751.2	29.60	751.7	85.1	29.5	79	s.	5.0	2.2			8			0.22	5.6	d. clouds	
Dhubri	29.50	749.3	29.62	752.3	82.9	28.3	92	calm	3.1	1.4			9			0.88	22.4	d. clouds	
Chittagong	29.57	751.1	29.66	753.4	83.7	28.7	80	s.	6.7	3.0			6			0	0	d. clouds	
Sibsagar	29.25	742.8	29.58	751.2	85.0	29.4	80	sw.	1.1	0.5			8	w.	w.	0.16	4.1	d. clouds	
Jeypore	28.11	714.0	29.53	750.0	84.7	29.3	57	e.	5.7	2.6			10	w.				drizzling	
Zanzibar, Africa	30.03	762.7			79.0	26.1	68	s.	7.0	3.1			8			0.07	1.8	gloomy	
ITALIAN.																			
Udine	29.71	754.5	30.11	764.7	67.6	19.8	62	calm	0	0			7			0	0		Prof. Giovanni Cloelig.
Milan	29.59	751.6	30.10	764.4	76.1	24.5	24	ene.	4.9	2.2			6	w.		0	0		Prof. Schiaparelli.
Padua	30.00	761.9	30.10	764.6	71.4	21.9	28	sw.	3.8	1.7			4	wnw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.19	741.4	30.07	763.7	72.5	22.5	32	s.	2.5	1.1			8			0	0		Prof. P. F. Denza.
Genoa	29.94	760.4	30.13	765.2	68.5	20.3	46	sw.	6.3	2.8			10	sw.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.19	715.9	30.04	763.0	67.1	19.5	37	e.			2		8	sw.		0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	30.12	765.0	30.17	766.2	67.5	19.7	47	e.	6.3	2.8			4			0	0		Prof. Luigi Guidi.
Florence	29.84	758.0	30.09	764.3	73.4	23.0	51	ne.			2		2			0	0		Prof. Costantino Pitter.
Leghorn	29.97	761.1	30.05	763.2	72.5	22.5	39	wsw.	6.3	2.8			7			0	0		Prof. P. Monte.
Rome	29.93	760.2	30.10	764.5	77.4	25.2	32	sw.	13.6	6.1			7			0	0		Prof. P. S. Ferrari.
Lecce	29.84	757.8	30.08	764.0	67.6	19.8	38	nnw.	14.3	6.4			3			0.020	0.5		Prof. C. de Giorgi.
Cosenza	29.18	741.2	30.04	763.1	77.7	25.4	71	sw.	1.8	0.8			1	s.		0	0		Prof. D. Conti.
Cagliari	29.83	757.6	30.02	762.4	77.4	25.2	33	se.			4		0			0	0		Prof. A. Pacinotti.
Palermo	29.84	757.8	30.08	764.1	75.2	24.0	36	ne.	7.4	3.3			0			0	0		Prof. G. Giacciatore.
Syracuse	30.05	763.2	30.09	764.3	74.5	23.6	59	ne.	12.5	5.0			3	nne.		0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.56	750.7	30.07	763.7	74.8	23.8	37	sw.	2.5	1.1			1	nw.		0	0		Prof. T. Brioschi.
Stelvio	22.25	565.2			42.3	5.7	60	w.			6		3			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.29	566.2			36.5	2.5	76	e.			2		10			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.70	754.4	29.74	755.4	65.0	18.3	86	n.	0.7	0.3		ck	10 s			0	0	overcast	K. Ogawa.
Hakodate	29.71	754.6	29.72	754.9	57.8	14.3	98	calm	0	0			1			0	0	clear	
Hiroshima, I. M. Obs'y	29.70	754.4	29.71	754.6	69.6	20.9	92	wsw.	0.8	0.4		cs	10 s			0	0	overcast	I. Sogawa.
Kanazawa	29.80	756.9	29.90	759.4	66.1	18.9	93	n.	2.8	1.2		ck	10 s			0.050	1.3	dull	S. Endo.
Kioto	29.59	751.6	29.76	755.9	71.0	21.7	82	s.					10 s			0.109	4.3	cloudy	M. Tojima.
Kochi	29.74	755.4	29.76	755.9	70.8	21.6	91	ese.	1.2	0.5			10 n		s.	0.290	7.4	light rain	K. Kusunose.
Nagasaki, I. M. Obs'y	29.56	750.8	29.76	755.9	69.0	20.6	96	sw.	3.0	1.3			10 n			0.160	4.1	light rain	S. Takehayashi.
Nagusaki	29.74	755.4	29.80	756.9	51.0	10.6	93	se.	6.0	2.7		10	0			0.320	8.1	foggy	
Nemuro	29.72	754.9	29.76	755.9	65.0	18.3	97		0.8	0.4			10 n			0.020	0.5	light rain	M. Morita.
Niigata	29.72	754.9	29.73	755.1	61.9	16.6	93	s.	6.8	3.0		0	2 b			0	0	fair	H. Midzushina.
Nobiru					61.9	16.6	91	n.	4.2	1.9			10			0	0	covered	
Supporo	29.71	754.6	29.77	756.1	66.3	19.1	93	ese.	4.4	2.0			10 s			1.643	41.7	cloudy	The Staff.
Tokei Obs'y, Yeddo	29.71	754.6	29.76	755.9	70.5	21.4	92	ssw.	6.2	2.8			10 n			0.184	4.7	raining	Y. Kuwamuea.
Wakayama																			
MAURITIUS																			
Mauritius Observatory	29.97	761.2	30.18	766.6	71.3	21.8	63	se.	12.5	5.6		0	2 k			0	0	clear	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.67	601.2	29.89	759.2	65.1	18.4	80	calm	0	0		0	1 ks		n.	0	0	clear	Prof. Vicente Fernandez.
Leon	24.30	617.2	29.89	759.2	63.1	17.3	85	n.			1	1 c	0			0	0	foggy	Prof. M. Leal.
Mazatlan	29.66	753.4	29.92	760.0	76.0	24.4	77	nne.	0.9	0.4		3 cs	1 k			0	0	fair	F. Quijano, C. E.
Mexico, Central Obs'y	23.09	586.4	30.07	763.6	59.0	15.0	77	calm	0	0		1 c	5 k		n.	0	0	clear	The Staff.
Morelia	24.21	614.9	30.28	769.0	59.7	15.4	70	n.			3	0	0			0	0	clear	M. Tena, M. D.
Pabellon, Aguascalientes	23.93	607.8	29.84	757.8	63.1	17.3	87	s.			1					inap.	inap.		M. V. de Leon, M. E.
Puebla, Catholic Institute	23.42	594.9	30.14	765.5	56.3	13.5	95	calm	0	0		0	4		wsw.	0.004	0.1	½ clouded	Prof. P. Spina.
San Luis Potosi	24.18	614.2	30.10	764.5	68.9	20.5	49	e.				2	0	w.		0	0	clear	G. Barroeta, M. D.
Zacatecas	22.52	572.0	30.05	763.3	59.3	15.2	79					0	3 s			0	0	clear	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.81	757.2	29.81	757.2	57.9	14.4		sw.			2					0	0		
Grontingen	29.75	755.6	29.80	757.0	63.5	17.5		s.			1					0	0		
Helder	29.77	756.2	29.77	756.2	60.1	15.6		sw.			1					0.236	6.0		
Hellevoetsluis	29.80	756.9	29.80	756.9	59.5	15.3	76	wsw.			1					0	0		
Utrecht	29.74	755.5	29.79	756.7	66.7	19.3	50	ssw.			2		8			0.189	4.8	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.74	755.3	29.80	756.9	59.4	15.2	41	nw.	4	2			6			0	0		
Brono	29.89	759.3	29.93	760.3	46.9	8.3	69	nnw.	18	8			8			0	0		
Christiania	29.71	754.5	29.85	758.1	63.0	17.2	50	s.	9	4			7			0	0	raining	
Gjæsvær	29.66	754.3	29.68	753.9	40.5	4.7		w.			4		10						
Lodingen	29.87	758.6	29.91	759.8	45.3	7.4	64	nnw.			4		10			0.024	0.6		
PORTUGUESE.																			
Angra, Azores					66.2	19.0	77	s.	6.9	3.1			2			0	0		
Campo Major	29.15	740.3	30.14	765.5	65.3	18.5	60	nw.	7.4	3.3			5			0	0		Dr. J. A. Sampaio.
Funchal, Maderia	30.22	767.5	30.31	769.8	69.8	21.0	59	sw.	6.3	2.8			6			0	0		Dr. A. M. R. dos Santos.
Lisbon, Observatory	29.89	759.1	30.24	768.2	65.5	18.6	54	nnw.	17.4	7.8			3			0.008	0.2		Capt. D. A. de Cunha.
Ponta Delgada, Azores	30.41	772.3	30.48	774.1	72.7	22.6	55	calm	0	0			4			0	0		The Staff.
Saint Paul de Loando	29.75	755.7	29.96	760.9	70.7	21.5	95	w.	1.3	0.6			0			0	0		
Serra da Estrella	25.40	645.1	30.14	765.5	49.5	9.7	75	w.	25.5	11.4			7			0.335	8.5	foggy	
RUSSIAN.																			
Akmolinski	28.79	731.3	29.84	757.8	64.2	17.9	33	nw.	18	8			9 kn			0	0		
Archangel	29.93	760.1	29.95	760.6	59.9	15.5	78	sw.	13	6			9 n			0	0		Major K. Lasarew.
Astrakhan	29.88	759.0	29.80	756.9	88.7	31.5	36	sse.	4	2			9 s			0	0		Capt. Ssellwerstow.
Barnaul	29.16	740.6	29.65	753.0	54.5	12.5	62	nw.	9	4			4			0.157	4.0		Capt. Wisganow.
Dorpat	29.74	755.3	29.97	761.3	60.1	15.6	59	wnw.	2	1		0	6 kn			0.016	0.4		Meteorological Obs'y.
Ekaterinburg	29.07	738.4	30.00	762.1	68.4	20.2	78	ene.	4	2			10			0.122	3.1		Observatory.
Irkutsk	28.00	711.2	29.62	752.4	49.1	9.5		wsw.					10			0.732	18.6	raining	Meteorological Obs'y.
Kasan	29.75	755.7	30.00	762.1	78.4	25.8	55	nne.	4	2		0	7			0	0		Observatory.
Kertch	29.74	755.4	29.76	755.9	76.8	24.9	48	e.	4	2		6 cs	0			0	0		Lagorio & Sastyrex.
Kieff	29.28	743.8	29.90	759.5	65.1	18.4	68	nnw.	9	4		ck	8 ks			0.232	5.9	solar halo	Observatory.
Lugan	29.54	750.3	29.74	755.3	78.8	26.0	44	ne.	9	4			9			blank	blank		Meteorological Obs'y
Moscow	29.46	748.2	29.91	759.7	70.2	21.2	41	sw.	4	2			5 ks						Meteorological Obs'y.
Nikolajev	29.78	756.3	29.85	758.1	74.7	23.7	63	nnw.	13	6		c	6 n			0.075	1.9		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.56	750.8	29.65	753.0	52.0	11.1	86	ne.	7	3			10			0.230	6.0		Lieut. Iwanow.
Pekin, China	29.23	742.5	29.37	746.1	93.7	34.3	27	se.	7	3		0	7 n			0.020	0.5	thun'rst'rm	Physical Observatory
St. Petersburg	29.97	761.3	29.99	761.7	55.9	13.3	72	wnw.	9	4			9 n			0.075	1.9		Central Physical Obs'y
Semipalatinsk	29.15	740.3	29.78	756.4	65.3	18.5	35	nw.	7	3			9 ks			0	0		Major Lasarew.
Tashkend, Laboratory	28.20	716.3	29.66	753.3	88.2	31.2	39	n.	7	3			2						Teich, A. M.
Tiflis	28.42	721.9	29.76	755.8	81.5	27.5	45	s.	2	1			9 ks			0.047	1.2		Physical Observatory
Vladivostock	29.58	751.2			57.6	14.2	98	se.	18	8			10 n						
Warsaw	29.64	752.8	30.05	763.3	64.0	17.8	50	nw.	4	2		0	8 ks						Astronomical Obs'y
Wilna	29.63	752.5	30.04	763.0	63.5	17.5	58	wsw.	4	2			5			0.004	0.1	heavy cl'ds.	Berg, Assistant.
SPANISH.																			
Barcelona, Met. Obs'y	29.85	758.2	29.95	760.8	71.2	21.8	87	e.	4.0	1.8			10			0.012	0.3		Antonio Rave, Director.
Bilbao, Met. Obs'y	30.05	763.3	30.11	764.8	62.2	16.8	86	nw.	2.0	0.9			10			0.035	0.9	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.13	689.0	30.05	763.2	60.6	15.9	86	ne.	4.3	1.9			10			0	0	covered	Domingo Martin.
Madrid, Royal Obs'y	27.78	705.7	29.93	760.2	75.2	24.0	43	nw.	13.4	6.0		0	7			0	0	cloudy	The Staff.
Murcia, Met. Obs'y	29.80	757.0	29.95	760.8	80.4	26.9	40	nw.	6.7	3.0		2	7	se.		0	0	cloudy	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.22	742.3	30.12	765.0	59.5	15.3	80	sw.	5.6	2.5			10			0	0	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	29.91	759.7	29.97	761.3	80.1	26.7	75	ese.	1.1	0.5		1 c	0	n.		0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.82	757.4	29.88	758.9	84.5	29.2	72	sw.	0.2	0.0		0	8 kn		e.	0.197	5.0	light rain	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.11	764.8	30.21	767.3	70.7	21.5	59	w.	11.7	5.3		0	1		w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.02	762.0	30.11	764.9	83.1	28.4	97	sw.	15.2	6.8		5 cs	2 k	sw.	sw.	0.165	4.2	d. clouds	Manuel Maese.
Tuguegarao, Philippine Id's	29.74	755.4	29.87	758.7	84.2	29.0	80	nnw.	8.5	3.8		0	5 ks		nnw.	0	0	cloudy	José L. Yrastorza.
SWEDISH																			
Haparanda	29.76	755.8	29.80	756.8	48.2	9.0	66	sw			2		10			0	0		
Umea	29.82	757.5	29.87	758.8	55.8	13.2	45	s.			4		0			0	0		
Hernosand	29.80	759.9	29.85	758.2	57.2	14.0	37	w.			2		2			0.051	1.3		
Stockholm	29.75	755.7	29.93	760.2	63.0	17.2	41	s.			2		4			0	0		
Wisby	29.82	757.4	29.88	758.9	60.8	16.0	57	se.			2		3			0.008	0.2		
Sub-series.																			
Upsala	29.81	757.1	29.89	759.3	61.3	16.3	47	ssw.	5.4	2.4			8		wsw.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.56	725.5	29.93	760.3	72.9	22.7	38	ssw.			5					0.024	0.6		The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
SCOTTISH.																			
Monach Lt			29.62	752.3	57	13.9	93	nnw.			4	5	5	n.		0.4	10.	cloudy	J. Youngclause.
North Unst			29.75	755.6				e.			4		10	e.					
TURKISH.																			
Constantinople			29.91	759.8	59.2	15.1	84	n.	13.4	6.0			10		n.	0.205	5.2	raining	The Observatory.
Valona			30.13	765.2	72.9	22.7		nw.			2		5			0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.85	758.1	82.0	27.8	57	wsw.			3	0	1 s			0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.60	757.8	29.68	753.9	69	20.6	90	s.	3	1.3			10 n			0.37	9.4	light rain	J. O. Barnes.
Alpena, Michigan	28.96	735.6	29.61	752.1	50	10.0	100	e.	20	8.9			fg.			0	0	dense fog	Jas. J. Fitzgerald.
Atlanta, Georgia	28.70	729.0	29.85	758.2	70.0	21.1	87	e.	7	3.1		6 k	4 s			0.46	11.7	cloudy	H. Hall.
Atlantic City, New Jersey	29.64	752.8	29.65	753.1	65.3	18.5	93	s.	11	4.9		8 ck	0			0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.71	754.6	29.90	759.4	74	23.3	88	w.	4	1.8			10 n		w.	0.01	0.3	light rain	John Healy.
Baltimore, Maryland	29.64	752.8	29.68	753.9	75	23.9	71	w.	9	4.0		7 cs	0	w.		0.09	2.3	fair	Robert Seyboth.
Barnegat, New Jersey	29.64	752.8	29.66	753.4	65.0	18.3	93	s.	15	6.7			10 k		sw.	0.43	10.9	cloudy	Chas. F. Merritt.
Behring Island, Behring Sea	29.62	752.3	29.64	752.8	41.0	5.0		n.	9	4.0			10 k			0.02	0.5	cloudy	Dr. L. Steineger.
Bismarck, Dakota	27.83	706.9	29.58	751.3	49	9.4	93	ne.	12	5.4			10 n		ne.	0.72	18.3	light rain	Cyrus Cramer.
Boise City, Idaho	27.13	689.1	29.91	759.7	48	8.9	71	nw.	2	0.9		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.61	752.1	29.76	755.9	60.0	15.6	96	se.	1	0.4			fg.			0	0	dense fog	O. B. Cole.
Brownsville, Texas	29.73	755.1	29.77	756.1	80.2	26.8	91	s.	13	5.8		0	4 k		s.	0	0	fair	M. McCarty.
Buffalo, New York	28.91	734.3	29.65	753.1	63.3	17.4	96	calm	0	0			10 s			0.88	22.4	cloudy	Wm. Finn.
Burlington, Vermont	29.38	746.2	29.67	753.6	68.0	20.0	90	s.	7	3.1			10 n		w.	0.01	0.3	light rain	G. C. Schaeffer.
Cairo, Illinois	29.33	745.0	29.72	754.9	74.8	23.8	77	sw.	8	3.6		0	0			0.44	11.2	clear	W. H. Ray.
Campo, California	27.33	694.2	29.81	757.2	49	9.4	86	w.	1	0.4			10 s		w.	0	0	cloudy	W. H. Clendenon.
Camp Thomas, Arizona	27.11	688.6	29.74	755.4	65.5	18.6	79	sw.			1		8 ks		sw.	0	0	cloudy	J. T. Fitzgerald.
Cape Henry, Virginia	29.72	754.9	29.74	755.4	75	23.9	71	w.	16	7.2		2 c	5 s			0	0	fair	A. K. Alderson.
Cape May, New Jersey	29.64	752.8	29.67	753.6	69	20.6	84	sw.	14	6.3		4 c	0	sw.		0	0	fair	W. Bolton.
Cedar Keys, Florida	29.92	760.0	29.94	760.5	80	26.7	79	w.	11	4.9		1 c	3 ks		w.	0	0	fair	F. W. Mixer.
Champaign, Illinois	28.74	730.0	29.53	750.0	68.2	20.1	76	s.	17	7.6			10 ks		sw.	0.69	17.5	cloudy	L. A. Welsh.
Charleston, S. Carolina	29.80	756.9	29.85	758.2	79	26.1	77	sw.	12	5.4		5 c	0	nw.		0.66	16.8	fair	J. H. Smith.
Charlotte, N. Carolina	28.93	734.8	29.76	755.9	73.0	22.8	82	sw.	2	0.9			10 s		sw.	0.05	1.3	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.01	736.8	29.82	757.4	70.0	21.1	90	s.	3	1.3		8 ck	2 ks	sw.		2.38	60.5	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.96	608.6	29.70	754.4	50.3	10.2	74	w.	5	2.2		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	28.73	729.7	29.42	747.3	69.8	21.0	98	sw.	11	4.9		10 c	0	sw.		0	0	cloudy	J. Mitchell.
Chincoteague, Virginia	29.67	753.6	29.69	754.1	74	23.3	90	nw.	10	4.5		4 c	0			0.03	0.8	fair	V. P. Temple.
Cincinnati, Ohio	29.06	738.1	29.71	754.6	72.3	22.4	75	sw.	3	1.3		8 cs;k	0	w.		0.10	2.5	cloudy	R. B. Watkins.
Cleveland, Ohio	28.94	735.1	29.67	753.6	67.8	19.9	87	s.	4	1.8		6 c	0			0.08	2.0	fair	J. B. Newlin.
Coleman City, Texas	27.96	710.2	29.71	754.6	74	23.3	88	sw.	4	1.8		3 c	0			0	0	clear	L. Dorman.
Columbus, Ohio	28.84	732.5	29.68	753.9	69	20.6	84	s.	4	1.8		9 cs	1 ks	sw.	sw.	0.51	13.0	cloudy	D. Cuthbertson.
Concho, Texas	27.84	707.1	29.71	754.6	78	25.6	47	sw.	20	8.9		0	0			0	0	clear	W. W. McConihe.
Davenport, Iowa	28.83	732.3	29.47	748.5	71	21.7	76	w.	14	6.3		2 cs	5 k	calm	w.	0.81	20.6	fair	R. R. Martin.
Dayton, Washington T'y	28.23	717.0	29.97	761.2	46.7	8.2	78	sw.	3	1.3		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.20	640.1	29.63	752.6	51	10.6	68	sw.	6	2.7		1 k	0	nw.		0.23	5.8	clear	G. W. Scott.
Decatur, Texas					86	30.0	48	s.	8	3.6		0	0			0	0	clear	D. J. Carr.
Delaware Breakwater, Del	29.65	753.1	29.67	753.6	71	21.7	84	sw.	12	5.4		5 c;ck	2 s	w;calm		0.01	0.3	fair	F. C. Pratz.
Denison, Texas	28.85	732.8	29.63	752.6	78.0	25.6	88	s.	13	5.8		0	0			0	0	clear	J. McGlone.
Denver, Colorado	24.63	625.6	29.67	753.6	57.0	13.9	67	s.	4	1.8		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	28.66	728.0	29.54	750.3	67	19.4	68	w.	8	3.6		0	3 s		w.	0	0	clear	F. W. Conrad.
Detroit, Michigan	28.91	734.3	29.60	751.8	64.2	17.9	93	e.	5	2.2			fg.			0.06	1.5	dense fog	C. F. R. Wappenhans.
Dodge City, Kansas	27.16	689.9	29.67	753.6	64	17.8	84	ne.	16	7.2		0	5 s		ne.	0	0	fair	E. A. Thomas.
Dubuque, Iowa	28.71	729.2	29.40	740.7	69.7	20.7	73	w.	10	4.5		3 c	0	sw.		0.07	1.8	clear	J. Harvey Smith.
Duluth, Minnesota	28.72	729.5	29.41	747.0	44	6.7	93	ne.	24	10.7			10 n		ne.	0.11	2.8	heavy rain	N. B. Conger.
Eagle Pass, Texas	28.97	735.8	29.76	755.9	77.0	25.0	74	calm	0	0		0	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.19	639.8	29.78	756.4	46	7.8	58	s.	2	0.9		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.78	756.4	29.86	758.4	52.0	11.1	86	s.	8	3.6			fg		s.	0	0	dense fog	D. C. Murphy.
El Paso, Texas	26.17	664.7	29.76	755.9	72	22.2	48	nw.	8	3.6		4 ck	0	calm		0	0	fair	J. F. Marshall.
Erie, Pennsylvania	28.94	735.1	29.66	753.4	69	20.6	84	s.	5	2.2		0	0			0.15	3.8	clear	Peter Wood.
Escanaba, Michigan	28.75	730.2	29.40	746.7	55	12.8	93	e.	18	8.0			10 s		e.	0.08	2.0	threatening	C. Dill.
Fort Apache, Arizona	25.04	636.0	29.78	756.4	51	10.6	64	e.	1	0.4		0	6 s		calm	0.04	1.0	fair	W. C. Barnes.
Fort Assinnaboine, Montana	27.02	686.3	29.81	757.2	47	8.3	86	sw.	4	1.8		0	0			0.02	0.5	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.04	712.2	29.58	751.3	57	13.9	69	nw.	15	6.7		5 k	0	nw.		inap.	inap.	fair	A. Pritchard.
Fort Benton, Montana	27.04	686.8	29.81	757.2	49	9.4	83	calm	0	0		0	0			0.02	0.5	clear	G. W. Davis.
Fort Buford, Dakota	27.78	705.6	29.74	755.4	48	8.9	71	n.	7	3.1			10 s		calm	0.09	2.3	cloudy	A. H. Bell.
Fort Custer, Montana	26.70	678.2	29.76	755.9	50	10.0	80	sw.	0	2.7		0	2 s		calm	0.12	3.0	clear	V. Verge.
Fort Davis, Texas	25.05	636.3	29.66	753.4	75	23.9	32	nw.	4	1.8		0	0			0	0	clear	J. Williams.
Fort Elliott, Texas	26.92	683.8	29.59	751.6	65	18.3	70	nw.	12	5.4		0	0			0	0	clear	W. J. Cundall.
Fort Grant, Arizona	25.13	638.3	29.67	753.6	64.4	18.0	60	e.	2	0.9		0	8 s			inap.	inap.	cloudy	Robert C. Lord.
Fort Keogh, Montana	27.31	693.7	29.74	755.4	49	9.4	71	nw.	16	7.2		0	0			0.31	7.9	clear	W. B. Stockman.
Fort Macon, North Carolina	29.82	757.4	29.83	757.7	75	23.9	76	w.	12	5.4		9 c	hz.	w.	calm	0.02	0.5	cloudy	W. W. Thomas.
Fort McKavett, Texas	27.57	700.3	29.77	756.1	75	23.9	76	sw.	11	4.9		0	0			0	0	clear	J. E. Thatcher.
Fort Missoula, Montana	26.60	675.0	29.86	758.4	44	6.7	68	ne.	2	0.9		0	0			0	0	clear	J. H. Jones.
Fort St. Michaels, Alaska	30.30	769.6	30.33	770.4	42	5.6	91	sw.	8	3.6			fg		sw.	0.02	0.5	dense fog	A. P. Leavitt.
Fort Shaw, Montana	26.23	666.2	29.80	756.9	48	8.9	71	w.	9	4.0		0	0			0.06	1.5	clear	A. L. Mathews.
Fort Sill, Indian Territory	28.37	720.6	29.57	751.1	71.8	22.1	64	sw.	11	4.9		0	0			0	0	clear	T. Cleary.
Fort Smith, Arkansas	29.16	740.7	29.62	752.3	79.0	26.1	82	e.	3	1.3		0	0			0	0	clear	J. B. Campbell.
Fort Stevenson, Dakota	27.85	707.4	29.65	753.1	48	8.9	100	ne.	12	5.4			10 n		e.	2.85	72.4	light rain	W. Burrows
Fort Verde, Arizona					65.2	18.4	73	s.			1		10 n		s.	0.14	3.6	heavy rain	D. Brooks.
Fort Washakie, Wyoming	24.38	619.2	29.76	755.9	42.1	5.6	89	sw.	5	2.2		0	0			0	0	clear	T. M. Ambler.
Fredericksburg, Texas	28.05	712.5	29.73	755.1	72	22.2	90	sw.	4	1.8		0	0			0	0	clear	H. S. Miles.
Galveston, Texas	29.80	756.9	29.85	758.2	81	27.2	83	sw.	16	7.2		3 c	hz.	w.		0	0	clear	E. O'C. MacInerney.
Grand Haven, Michigan	28.81	731.8	29.46	748.3	64.0	17.8	90	e.	8	3.6			10 s		s.	0.09	2.3	cloudy	W. A. Reid.
Hatteras, North Carolina	29.79	756.7	29.81	757.2	75	23.9	76	sw.	24	10.7		3 c	0	n.		0	0	clear	R. M. Crawford.
Helena, Montana	25.71	653.0	29.83	757.7	53	11.7	57	sw.	4	1.8		0	0			0	0	clear	S. Wheaton.
Henrietta, Texas	28.66	728.0	29.64	752.8	83.0	28.3	57	s.	8	3.6		0	0			0	0	clear	J. W. Byram.
Huron, Dakota	28.13	714.5	29.47	748.5	50.7	13.7	80	nw.	26	11.6		1 cs	0			0.32	8.1	clear	S. W. Glenn.
Indianapolis, Indiana	28.91	734.3	29.69	754.1	70	21.1	84	w.	4	1.8		0	8 n		w.	inap.	inap.	thnd'er st'rm	O. Schutze
Indianola, Texas	29.78	756.4	29.81	757.2	81.2	27.3	88	s.	20	8.9		0	2 k		sw.	0	0	clear	I. A. Reed.
Jacksboro, Texas	28.50	723.9	29.62	752.3	83	28.3	49	sw.	12	5.4		0	0			0	0	clear	J. P. Sherry.
Jacksonville, Florida	29.88	758.9	29.92	760.0	84	28.9	72	sw.	8	3.6		1 cs	2 k		sw.	inap.	inap.	clear	J. W. Smith.
Keokuk, Iowa	28.87	733.3	29.51	749.5	75.0	23.9	71	nw.	10	4.5		7 k	0	w.		0	0	fair	F. Z. Gosewisch
Key West, Florida	29.96	761.0	29.98	761.5	83.0	28.3	63	s.	3	1.3		6 cs	0			0	0	fair	R. H. Paxton.
Kittyhawk, North Carolina	29.76	755.9	29.78	756.4	75	23.9	74	w.	18	8.0		5 c	0	nw.		0	0	fair	E. A. Beals.
Knoxville, Tennessee	28.79	731.3	29.80	756.9	69	20.6	88	w.	4	1.8		4 ck	0	w.		0.41	10.4	fair	J. A. Cody.
La Crosse, Wisconsin	29.58	725.9	29.34	745.2	70	21.1	66	sw.	12	5.4		0	8 s		w.	0.20	5.1	cloudy	S. C. Emery
La Mesilla, New Mexico	26.00	660.4	29.72	754.9	64.3	17.9	57	calm	0	0		4 ck	3 s	sw.		0	0	fair	N. D. Lane.
Leavenworth, Kansas	28.79	731.3	29.66	753.4	68	20.0	84	nw.	3	1.3			10 n		w.	inap.	inap.	thnd'r str'm	A. W. Browne.
Lewiston, Idaho	29.10	739.1	29.92	760.0	59.0	15.0	42	sw.	8	3.6		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.40	746.7	29.71	754.6	80	26.7	79	s.	6	2.7		0	0			0	0	clear	W. U. Simmons.
Los Angeles, California	29.57	751.1	29.96	761.0	59.0	15.0	81	w.	4	1.8			8 s		w.	0	0	cloudy	E. F. Kubel.
Louisville, Kentucky	29.13	739.9	29.68	753.9	71	21.7	76	s.	6	2.7			8 s			0.22	5.6	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.06	738.1	29.73	755.1	72.5	22.5	79	sw.	1	0.4		2 ck;c	5 n		nw.	0.31	7.9	light rain	W. R. Bushby.
Madison, Wisconsin	28.36	720.3	29.35	745.5	68	20.0	93	sw.	7	3.1			10 s		w.	0.30	7.6	cloudy	C. A. Shaw.
Marquette, Michigan	28.78	731.0	29.50	749.3	45	7.2	100	e.	7	3.1			10 n		calm	0.30	7.6	heavy rain	J. Gilligan.
Memphis, Tennessee	29.42	747.3	29.74	755.4	72	22.2	82	se.	6	2.7		0	0			0.23	5.8	clear	D. T. Flannery.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	28.65	727.7	29.39	746.5	59	15.0	100	se.	8	3.6	.....	.....	fg.	.....	.....	0.11	2.8	dense fog	W. Line.
Mobile, Alabama	29.89	759.2	29.93	760.2	79.6	26.4	78	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. D. Paxton.
Montgomery, Alabama	29.61	752.1	29.84	757.9	80.6	27.0	80	sw.	8	3.6	.....	5c;cs	0	.....	.....	0	0	fair	J. B. McLaughlin.
Moorhead, Minnesota	28.49	723.6	29.46	748.3	48	8.9	100	n.	24	10.7	.....	.....	10 n	.....	n.	2.23	56.6	heavy rain	H. Bessant.
Morgantown, W. Virginia	28.74	730.0	29.74	755.4	72.5	22.5	75	calm	0	0	.....	.....	10 s	.....	sw.	0.29	7.4	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.70	602.0	29.82	757.4	49.0	9.4	96	sw.	32	14.3	.....	.....	10n;fg	.....	sw.	0.36	9.1	light rain	J. G. Linsley.
Nashville, Tennessee	29.21	741.9	29.73	755.1	72.5	22.5	79	s.	2	0.9	.....	2 cs	8 ks	w.	w.	0.12	3.0	cloudy	L. A. Jesunofsky.
New Haven, Connecticut	29.58	751.3	29.69	754.1	64	17.8	93	se.	5	2.2	.....	.....	10n;fg	.....	se.	0.02	0.5	light rain	J. H. Sherman.
New London, Connecticut	29.68	753.9	29.73	755.1	63	17.2	100	e.	4	1.8	.....	.....	fg.	.....	.....	0	0	dense fog	J. G. Lynch.
New Orleans, Louisiana	29.84	757.9	29.89	759.2	80.4	26.9	81	sw.	4	1.8	.....	0	0	.....	.....	0.04	1.0	clear	L. Dunne.
Newport, Rhode Island	29.70	754.4	29.74	755.4	63.0	17.2	93	e.	5	2.2	.....	.....	fg.	.....	.....	0	0	dense fog	W. McGillivray.
New River, N. Carolina	.....	.....	.....	.....	70	21.1	85	w.	.....	.....	1	2 cs	3 s	.....	.....	0.84	21.3	fair	C. C. Corbin.
New Shoreham, Rhode I'd.	29.71	754.6	29.74	755.4	62.8	17.1	100	se.	5	2.2	.....	.....	fg.	.....	.....	0	0	dense fog	W. Davis.
New York, New York	29.51	749.5	29.68	753.9	65	18.3	100	se.	4	1.8	.....	.....	10 s	.....	.....	0.14	3.6	cloudy	J. B. Merrill.
Norfolk, Virginia	29.72	754.9	29.75	755.6	77	25.0	69	w.	8	3.6	.....	9 cs	0	.....	.....	0	0	cloudy	J. T. Elker.
North Platte, Nebraska	26.89	683.0	29.69	754.1	58.6	14.8	65	calm	0	0	.....	0	0	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.01	762.2	30.05	763.3	49.0	9.4	77	s.	7	3.1	.....	0	4 s	.....	calm	0	0	fair	J. Dascomb.
Omaha, Nebraska	28.47	723.1	29.61	752.1	66.0	18.9	63	nw.	14	6.3	.....	0	0	.....	.....	0.01	0.3	clear	A. Pollak.
Ogalamie, Pt. Barrow, Alas.	30.13	765.3	30.15	765.8	34.0	1.1	94	ese.	9	4.0	.....	1 c	fg.	.....	.....	0	0	clear	P. H. Ray.
Oswego, New York	29.31	744.5	29.63	752.6	69.4	20.8	82	s.	2	0.9	.....	.....	10 s	.....	w.	0.04	1.0	cloudy	S. W. Beall.
Palestine, Texas	29.26	743.2	29.80	756.9	79.0	26.1	77	sw.	16	7.2	.....	6 k	0	sw.	.....	0	0	fair	L. M. Pindell.
Pensacola, Florida	29.89	759.2	29.92	760.0	78.8	26.0	88	sw.	4	1.8	.....	2 cs	0	.....	.....	0	0	clear	M. McGauran.
Philadelphia, Pa.	29.55	750.6	29.65	753.1	73	22.8	84	s.	3	1.3	.....	.....	10 s	.....	sw.	0.39	9.9	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.83	452.9	29.65	753.1	28	— 2.2	77	w.	22	9.8	.....	0	0	.....	.....	0	0	clear	C. N. Kitchel.
Pioche, Nevada	23.98	609.1	29.78	756.4	50	10.0	39	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. H. Bryce.
Pittsburg, Pennsylvania	28.89	733.8	29.68	753.9	69.0	20.6	90	s.	3	1.3	.....	3 k	0	sw.	.....	0.63	16.0	cloudy	U. D. Maxwell.
Poplar River, Montana	27.64	702.0	.....	.....	.....	.....	.....	se.	.....	.....	1	.....	10 s	.....	calm	0.03	0.8	clear	H. G. Christian.
Port Eads, Louisiana	29.93	760.2	29.94	760.5	78.5	25.8	88	sw.	10	4.5	.....	0	2 k	.....	sw.	0	0	dense fog	W. O. Bailey.
Port Huron, Michigan	28.94	735.1	29.61	752.1	59.8	15.4	100	ne.	1	0.4	.....	.....	fg.	.....	.....	0.33	8.4	dense fog	W. W. Eichelberger.
Portland, Maine	29.73	755.1	29.78	756.4	57	13.9	93	e.	4	1.8	.....	.....	fg.	.....	.....	0.02	0.5	cloudy	M. L. Hearne.
Portland, Oregon	30.01	762.2	30.08	764.0	48.2	9.0	86	s.	5	2.2	.....	0	8 s	.....	s.	0	0	.....	F. P. Chaffee.
Portsmouth, N. Carolina	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	clear	J. McN. Wright.
Prescott, Arizona	24.72	627.9	29.74	755.4	59	15.0	54	s.	13	5.8	.....	0	0	.....	.....	0	0	dense fog	P. T. Jenkins.
Provincetown, Mass.	29.72	754.9	29.76	755.9	64	17.8	93	se.	9	4.0	.....	.....	fg.	.....	.....	0	0	cloudy	W. J. Evans.
Punta Rassa, Florida	29.95	760.7	29.96	761.0	83	28.3	65	sw.	11	4.9	.....	6 c	3 k	nw.	sw.	0	0	clear	J. M. Frantz.
Red Bluff, California	29.39	746.5	29.75	755.6	67.2	19.6	68	calm	0	0	.....	0	1 s	.....	.....	0	0	clear	P. M. Wilson.
Rio Grande City, Texas	29.56	750.8	29.80	756.9	80	26.7	79	se.	4	1.8	.....	0	0	.....	.....	0	0	cloudy	E. W. McGann.
Rochester, New York	28.98	736.1	29.63	752.6	65	18.3	93	sw.	4	1.8	.....	8 k	fg.	.....	.....	0.18	4.6	clear	J. J. Nairy.
Roseburg, Oregon	29.54	750.3	30.09	764.3	50.5	10.3	75	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
Sacramento, California	29.67	753.6	29.74	755.4	60.2	15.7	81	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. H. Webber.
St. Louis, Missouri	29.04	737.6	29.63	752.6	72.5	22.5	98	s.	17	7.6	.....	0	1 k	.....	sw.	inap.	inap.	cloudy	P. F. Lyons
St. Paul, Minnesota	28.39	721.1	29.24	742.7	63.0	17.2	78	sw.	23	10.3	.....	3 k	7 ks	w.	sw.	0.40	10.2	fair	G. Kingsbury.
St. Vincent, Minnesota	28.78	731.0	29.63	752.6	45	7.2	83	n.	13	5.8	.....	6 cs	0	calm	.....	0	0	clear	J. Craig.
Salt Lake City, Utah	25.54	648.7	29.76	755.9	59	15.0	48	ne.	3	1.3	.....	3 k	0	w.	.....	0	0	cloudy	E. Lane.
San Antonio, Texas	29.08	738.6	29.76	755.9	74	23.3	90	calm	0	0	.....	.....	10 ks	.....	se.	0	0	cloudy	A. C. Dobbins.
San Diego, California	29.84	757.9	29.91	759.7	61.3	16.3	71	sw.	8	3.6	.....	.....	10 s	.....	s.	0	0	fair	M. H. Perry.
Sandusky, Ohio	29.94	735.1	29.61	752.1	70.8	21.6	84	s.	6	2.7	.....	2 c	3 s	.....	.....	0	0	cloudy	B. A. Blundon.
Sandy Hook, New Jersey	29.63	752.6	29.67	753.6	66.0	18.9	93	se	5	2.2	.....	.....	10 s	.....	se.	0.04	1.0	clear	N. Gorom.
San Francisco, California	29.76	755.9	29.83	757.7	56	13.3	90	sw.	9	4.0	.....	0	1s;fg	.....	s;sw.	0	0	clear	H. U. Jones.
Santa Fé, New Mexico	23.20	589.3	29.71	754.6	57	13.9	42	ne.	7	3.1	.....	1 c	0	.....	.....	0	0	cloudy	H. W. Ford.
Savannah, Georgia	29.79	756.7	29.88	758.9	80	26.7	77	sw.	9	4.0	.....	8 ck	0	sw.	.....	0.36	9.1	cloudy	E. N. Meekins.
Shreveport, Louisiana	29.54	750.3	29.77	756.1	77	25.0	85	sw.	6	2.7	.....	0	0 k	.....	s.	0	0	fair	J. B. Wallace.
Silver City, New Mexico	24.23	615.4	29.73	755.1	54	12.2	72	nw.	1	0.4	.....	7 cs	0	.....	.....	0	0	cloudy	J. J. McLean.
Sitka, Alaska	29.93	760.2	29.99	761.7	45.2	7.3	83	e.	4	1.8	.....	.....	10 s	.....	calm	0.24	6.1	fair	O. Parker.
Smithville, North Carolina	29.81	757.2	29.85	758.2	76	24.4	76	w.	12	5.4	.....	4 cs	0	w.	.....	0.01	0.3	clear	D. Moore.
Spokane Falls, Wash. Ter.	27.87	707.9	29.91	759.7	48	8.9	71	sw.	12	5.4	.....	0	0	.....	.....	0	0	fair	T. B. Jennings.
Springfield, Illinois	28.89	733.8	29.56	750.8	73.3	22.9	84	sw.	12	5.4	.....	2 ck	4 s	w.	sw.	0.03	0.8	light rain	T. S. Outram.
Springfield, Massachusetts	29.60	751.8	29.73	755.1	67.2	19.6	90	s.	2	0.9	.....	.....	10 n	.....	s.	inap.	inap.	clear	J. B. Marbury.
Springfield, Mo.	28.23	717.0	29.69	754.1	76.5	24.7	90	s.	12	5.4	.....	0	2 ks	.....	sw.	0.01	0.3	clear	M. J. Wright.
Starkville, Miss.	29.35	745.5	29.82	757.4	76	24.4	85	s.	12	5.4	.....	0	2 s	.....	.....	0.25	6.3	fair	J. O'Dowd.
Stockton, Texas	28.80	680.7	29.72	754.9	73.0	22.8	68	sw.	4	1.8	.....	6 cs	0	calm	.....	0	0	dense fog	G. Liebmann.
Thatcher's Island, Mass.	29.73	755.1	29.78	756.4	58.6	14.8	100	se.	3	1.3	.....	.....	fg.	.....	.....	0	0	fair	A. Buell.
Toledo, Ohio	28.88	733.5	29.56	750.8	72	22.2	82	se.	3	1.3	.....	6 cs	1 s	s.	.....	inap.	inap.	cloudy	J. L. Whiteside.
Tucson, Arizona	27.42	696.5	29.72	754.9	74	23.3	54	nw.	4	1.8	.....	.....	10 ks	.....	.....	0	0	clear	J. Daly.
Umatilla, Oregon	29.64	752.8	30.00	762.0	53.5	11.9	54	sw.	16	7.2	.....	0	0	.....	.....	0	0	clear	E. C. Imlay.
Uvalde, Texas	28.80	731.5	29.74	755.4	74	23.3	84	calm	0	0	.....	0	0	.....	.....	0	0	cloudy	H. P. Brisbane.
Vicksburg, Mississippi	29.60	751.8	29.85	758.2	76	24.4	90	s.	4	1.8	.....	0	8 s	.....	s.	0	0	cloudy	W. L. Seward.
Visalia, California	29.39	746.5	29.76	755.9	66	18.9	73	sw.	3	1.3	.....	0	8 s	.....	w.	0	0	cloudy	B. M. Purssell.
Washington, D. C.	29.59	751.6	29.70	754.4	76.0	24.4	71	calm	0	0	.....	3 cs	5 s	w.	w.	inap.	inap.	clear	F. W. Brandenburg.
West Las Animas, Colorado	25.94	658.9	29.72	754.9	57.9	14.4	72	nw.	6	2.7	.....	3 c	0	sw.	.....	0	0	cloudy	B. F. Hough.
Williamsport, Pa.	29.07	738.4	29.67	753.6	68	20.0	90	sw.	1	0.4	.....	5 k	5 k	nw.	w.	0.48	12.2	cloudy	A. T. Sherwood.
Wilmington, N. Carolina	29.78	756.4	29.82	757.4	75	23.9	76	w.	5	2.2	.....	5 k	4 ks	.....	nw.	0	0	clear	J. R. Williams.
Winnemucca, Nevada	25.56	749.2	29.82	757.4	49	9.4	46	ne.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. H. Atfield.
Yankton, Dakota	28.29	718.6	29.57	751.1	62	16.7	60	w.	13	5.8	.....	0	0	.....	.....	0.02	0.5	clear	O. D. Stewart.
Yuma, Arizona	29.55	750.6	29.69	754.1	71.2	21.8	43	se.	5	2.2	.....	0	2 ks	.....	se.	0	0	cloudy	Joaquin Gomez.
Sub-series.																			
Bogota, U. S. Columbia	22.04	555.8	.....	.....	54.0	12.2	77	w.	1	0.4	.....	.....	9 ks	.....	.....	0	0	fair	J. A. Racker.
Bridgetown, Barbados, W.I.	30.06	763.5	30.07	763.8	81	27.2	95	e.	.....	.....	.....	5 k	5 ks	e	e.	0	0	cloudy	J. I. Plume.
Buenaventura, U. S. C.	30.01	762.2	30.04	763.0	77	25.0	90	calm	0	0	.....	.....	10 ks	.....	calm	1.20	30.5	fair	A. Van Caneghem.
Havana, Cuba, W. I.	29.95	760.7	30.00	762.0	82	27.8	74	calm	0	0	.....	3 cs	0	.....	.....	0	0	fair	Robert Johnston.
Kingston, Jamaica, W. I.	30.00	762.0	30.01	762.2	84.0	28.9	72	se.	5	2.2	.....	1 c	1 ks	.....	.....	0	0	.....	S. M. Pike.
Magua, San Domingo, W. I	.....	.....	.....	.....	74	23.3	.....	e.	.....	.....	1	1 cs	0	e.	.....	0	0	.....	Dr. C. J. Hering.
Paranaribo, S. A.	30.07	763.8	30.07	763.8	77	25.0	91	e.	.....	.....	1	4 c	5 k	e.	.....	0.400	10.2	fair	Francisco J. Cisneros.
Puerto Berrio, U. S. Col'mba	29.49	749.0	29.95	760.7	78	25.6	84	s.	.....	.....	1	7 ck	2 k	calm	calm	0	0	cloudy	Earl Flint.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	99	e.	.....	.....	2	.....	0	.....	.....	0.50	12.7	fair	Robert Mason.
Santiago de Cuba, W. I.	29.99	761.7	30.02	762.5	80	26.7	74	calm	0	0	.....	2 c	0	.....	.....	0	0	clear	Portesque & Wood.
York Factory, B. A.	30.13	765.3	30.19	766.8	43.0	6.1	92	s.	13	5.8	.....	0	0	.....	.....	0	0		

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Alert, Simons Bay, Cape Colony, Africa	30.22	767.6	62.8	17.1	69	sw.			1-2		4							misty.
H. M. S. Alexandra, Alexandria, Egypt	29.92	760.0	75	23.9	76	nnw.			3		4	nw.				2	wnw.	d. clouds.
H. M. S. Amethyst, Montevideo, Uruguay	30.04	763.0	59	15.0	87	nnw.			1		8	n.						showery.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.90	759.4	60	15.6		n.			3-4		10	nnw.						overcast.
H. M. S. Arab, N. 25° 17′, E. 60° 37′	29.51	749.5	88	31.1	91	sw.			2		2					3	sw.	d. clouds.
H. M. S. Bacchante, Corfu, Ionian Islands	29.98	761.5	72	22.2	63	wnw.			4-5		0							blue sky.
H. M. S. Boadica, Simon's Bay, Cape Colony	30.23	767.8	64	17.8		sw.			1		0							blue sky.
H. M. S. Champion, N. 20° 20′, W. 160° 50′			77	25.0		ene.			1-2		2					2	ne.	misty.
H. M. S. Cleopatra, N. 32° 34′, E. 134° 33′	29.76	755.9	71.5	21.9	95	w.			2		10					4	s.	raining.
H. M. S. Coquette, Port Said, Egypt	29.92	760.0	74	23.3		wnw.			1		0							blue sky.
H. M. S. Cruiser, N. 38° 10′, E. 15° 34′	30.07	763.8	68	20.0		s.			3		1	ssw.				2	sse.	blue sky.
H. M. S. Diamond, S 10° 17′, E. 161° 38′	29.94	760.5	79	26.1	86	calm			0		4							showery.
H. M. S. Dido, N. 10° 37′, W. 67° 00′	30.01	762.2	77	25.0		calm			0		3	ene.				1	ne.	d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	30.03	762.7	76	24.4	90	sw.			2-3		4	sw.						d. clouds.
H. M. S. Dwarf, S. 25° 16′, W. 57° 45′	29.80	756.9	65.7	18.7	90	ne.			2		7							d. clouds.
H. M. S. Eclipse, S. 4° 37′, E. 55° 30′	29.94	760.5	81	27.2		ese.			2-3		3							d. clouds.
H. M. S. Emerald, S. 51° 40′, W. 57° 50′	29.64	752.8	40	4.4	100	wsw.			2-3		4	w.						d. clouds.
H. M. S. Euryalus, Trincomalee, Ceylon, India	29.77	756.1	88	31.1	69	sw.			2		4	calm						d. clouds.
H. M. S. Espiegle, S. 19° 54′, E. 174° 05′	30.07	763.8	73	22.8	71	se.			4		7					2	s.	d. clouds.
H. M. S. Fawn, S. 25° 05′ E. 48° 02′	30.25	768.3	70	21.1	69	se.			2		4					2	se.	d. clouds.
H. M. S. Fantome, N. 9° 57′, W. 79° 38′	29.85	758.2	81	27.2		ssw.			1		9					1	e.	drizzling.
H. M. S. Flying Fish, N. 37° 27′, E. 126° 33′	29.66	753.4	67.5	19.7	92	wsw.			1		6							d. clouds.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.12	765.0	54	12.2	86	calm			0		10							misty.
H. M. S. Garnet, Montevideo, Uruguay	30.10	764.5	56	13.3	93	n.			3		10							overcast.
H. M. S. Griffon, N. 48° 41′, W. 53° 49′	30.08	764.0	54	12.2	93	ene.			1		10							d. clouds.
H. M. S. Inconstant, N. 16° 00′, W. 19° 30′	29.96	761.0	73	22.8	85	nw.			1-2		9	n.				3	nnw.	d. clouds.
H. M. S. Iron Duke, N. 35° 26′ E. 139° 39′	29.77	756.1	68	20.0	94	sse.			1		4	e.						d. clouds.
H. M. S. Kingfisher, N. 15° 50′ W. 98° 15′	29.93	760.2	84	28.9		nw.			1-2		1					2		blue sky.
H. M. S. Lark, S. 10° 37′, E. 162° 30′	29.94	760.5	81.3	27.4		ne.			2		7					2	ne.	showery.
H. M. S. Magpie, N. 35° 23′, E. 141° 00′	29.70	754.4	68.5	20.3	90	nnw.			2		10					5	con.	d. clouds.
H. M. S. Minotaur, N. 37° 19′ E. 4° 03′	30.01	762.2	72	22.2	78	nnw.			2		1					2	wnw.	misty.
H. M. S. Nelson, S. 36° 20′, E. 175° 30′	30.10	764.5	65	18.3	90	calm			0		0							blue sky.
H. M. S. Northampton, Halifax, Nova Scotia	29.87	758.7	55.5	13.1	96	sse.			1									foggy.
H. M. S. Phoenix, N. 17° 45′, W. 77° 41′	29.98	761.5	82	27.8	91	e.			3-4		3	e.				3	e.	d. clouds.
H. M. S. Rambler, S. 10° 43′ E. 13° 06′	29.95	760.7	70	21.1	100	ssw.			2		8	ssw.				4	ssw.	d. clouds.
H. M. S. Rocket, N. 51° 00′, W. 125° 00′	29.84	757.9	54	12.2	86	ese.			2		3							raining.
H. M. S. Sappho, Easter Island, South Pacific	30.29	769.4	64.5	18.1		ne.			1		2	s.				5	s.	d. clouds.
H. M. S. Swiftsure, N. 9° 15′ W. 24° 55′	30.00	762.0	78.5	25.8	78	nne.			1-2		4	ese.				2	ssw.	d. clouds.
H. M. S. Sylvia, Rio de Janeiro, Brazil	30 32	770.1	64.5	18.1	89	calm			0		10							overcast.
H. M. S. Tamar, N. 40° 59′, W. 9° 37′	30.22	767.6	62.5	16.9	83	wsw.			4		9	wsw.				3	wnw	d. clouds.
H. M. S. Tenedos, N. 47° 40′ W. 56° 25′	29.97	761.2	54.5	12.5	97	calm			0		10							overcast.
H. M. S. Triumph, S. 30° 42′, W. 71° 54′	30.13	765.3	55	12.8	93	s.			5		10	sw.				7	var.	d. clouds.
H. M. S. Tyne, N. 40° 30′, W. 9° 56′	30.20	767.1	64	17.8	83	wnw.			2-3		9	nnw.				2	wnw	d. clouds.
H. M. S. Woodlark, Bahrein, Arabia	29.57	751.1	90.5	32.5	73	n.			3		0					2	nnw.	blue sky.
PORTUGUESE NAVAL.																		
Rio Lima, Porto Praya, Cape Verd Islands	30.06	763.6	79.9	26.6	87	ene.			1		5					2		d. clouds.
Tamega, Macao, China	29.82	757.3	86.0	30.0	89	sw.			2		3		sw.					d. clouds.
SWEDISH NAVAL.																		
Saga, N. 37° 52′, W. 24° 37′	30.46	773.7	70.5	21.4	70	n.			1		1							blue sky.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla.	29.89	759.2	84	28.9	75	sw.	10	4.5			2		sw.	0	0			fair.
N. Yard, Portsmouth, N. H.	29.75	755.6	57	13.9	100	e.	5	2.2			10		e.	0	0			foggy.
Naval Hospital, Yokohama, Japan*	29.59	751.6	66.5	19.2	94	calm			0		5		n.	1.29	32.8			clearing.
Adams, Mare Island, Cal.	29.95	760.7	59	15.0	94	w.			2		10			0	0			cloudy.
Alaska, Callao, Peru	29.96	761.0	59	15.0	94	s.			1		10			0	0	sm'h		cloudy.
Alert, N. 40° 55′, E. 152° 10′*	29.45?	748.0?	56	13.3	94	n.			6		10		calm			r'gh	n.	misty.
Alliance, N 37° 43′, W. 74° 09′	29.71	754.5	68	20.0	95	se.			1		5			0	0	sm'h		fair.
Ashuelot, Yokohama, Japan	29.74	755 4	68	20.0	95	sw.			1		10		calm					cloudy.
Brooklyn, Rio de Janeiro, Brazil	30.32	770.1	65	18.3	94	ne.	5	2.2			10		ne.	0.12	3.0	sm'h		cloudy.
Colorado, New York, N. Y.	29.65	753.1	66	18.9	94	ese.	0	0			10		calm	0.08	2.0			raining.
Constellation, Annapolis, Md*	29.66	753.4	73	22.8	76	wnw.			2		5		wnw.					fair.
Enterprise, Norfolk, Va*	29.74	755.4	75	23.9	81	w.			1		8		w.					cloudy.
Essex, S. 46° 01′, W. 62° 22′	29.92	760.0	44	6.7	84	sw.			2		10?		sw.			mod.		clear?
Franklin, Norfolk, Va.	29.77	756.1	75	23.9	77	w.	8	3.6			8		calm	0	0			fair.
Galena, Alexandria, Egypt	29.93	760.2	76	24.4	91	nw.			2		2					sm'h		fair.
Independence, Mare Island, Cal.	29.90	759.4	58	14.4	100	sw.			4		10		sw.	0	0			cloudy.
Iroquois, San Francisco, Cal.	29.82	757.4	56	13.3	87	sw.			3		5		sw.	0	0			fair.
Kearsarge, Norfolk, Va.	29.77	756.1	74	23.3	86	wsw.			1		8		calm					fair.
Lackawana, Paita, Peru*	29.96	761.0	61	16.1	88	se.			2		5?		se.					cloudy?
Lancaster, N. 36° 40′ W. 0° 29′*	30.00	762.0	70	21.1	90	w.			6		0			0	0	mod.	w.	clear.
Marion, S. 34° 54′, W. 56° 13′	30.04	763.0	58	14.4	100	n.			3		10		n.			sm'h		cloudy.
Michigan, Detroit, Mich.	29.50	749.3	60	15.6	?	e.			1		10		e.					hazy.
Minnesota, Newport, R. I.	29.78	756.4	64	17.8	89	sse.	2	0.9			0							dense fog.
Monocacy, Nagasaki, Japan	29.76	755.9	70	21.1	100	calm			0		10		calm					drizzling.
New Hampshire, Newport, R. I.	29.69	754.1	65	18.3	100	se.			1							sm'h		foggy.
Nipsic, Venice, Italy	30.13	765.3	69	20.6	57	s.			2		8					sm'h		cloudy.
Onward, Callao, Peru†	30.13	765.3	60	15.6	100	sse.			3		10		n.			long	w.	misty.
Palos, Kobe, Japan	29.76	755.9	71	21.7	90	w.			1		10		w.					cloudy.
Passaic, Washington, D. C.	29.71	754.6	79	26.1	?	sw.			2		5		sw.					fair.
Pensacola, Callao, Peru	30.00	762.0	62	16.7	94	sse.	4	1.8			10			0	0	sm'h		cloudy.
Powhatan, League Island, Pa.	29.64	752.8	73	22.8	90	nw.			1		5		n.					fair.
Portsmouth, N. 49° 36′, W. 3° 40′*	29.74	755.4	53	13.3	100	w.			5		2?		e.			sm'h		cloudy?
Quinnebaug, Gibraltar, Mediterranean	30.16	766.1	70	21.1	66	wnw.			3		5?		w.			sm'h		clear.?
Ranger, Mare Island, Cal*	29.82	757.4	59	15.0	88	ssw.			4		8		ssw.	0	0	sm'h		cloudy.
Richmond, Nagasaki, Japan*	29.72	754.9	72	22.2	95	calm			0		10			6.00	152.4			raining.
Saratoga, N. 49° 39′, W. 3° 32′	29.76	755.9	60	15.6	71	w.			5		5		w.	0	0	sm'h		fair.
St. Louis, League Island, Pa	29.88	758.9	76	24.4	82	calm	0	0			2			0.56	14.2			clear.
Swatara, Nagasaki, Japan*	29.60	751.8	73	22.8	90	calm			0		10		calm			sm'h		light rain.
Tennessee, N. 37° 31′ W. 74° 03′	29.75	755.6	68	20.0	95	s.			6		5?			0	0			cloudy.?
Vandalia, N. 37° 38′, W. 74° 12′*	29.69	754.1	69	20.6	90	s.			2		5		s.			sm'h		fair.
Wabash, Boston, Mass.	29.75	755.6	75	23.9	94	se.	1	0.4			10			0	0			foggy.
Wachusetts, Sitka, Alaska	29.93	760.2	44	6.7	92	ne.			1		10		calm			sm'h		cloudy.
Wyoming, Port Royal, S. C.	29.88	758.9	76	24.4	91	wsw.	11	4.9			8		w.	0.12	3.0			cloudy.
Yantic, N. 37° 40′, W. 74° 12′*	29.67	753.6	67	19.4	95	ssw.			3		8					sm'h		hazy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	Upper. From.	Lower. From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 54° 52′, W. 20° 33′*	29.83	757.7	51	10.6	100	wsw.			2		10		sw.	0.02	0.5	2	wsw.	heavy rain.
S. S. Grecian, N. 51° 40′ W. 18° 50′*	29.91	759.7				wnw.			6		10		wnw.	12 h'r	12 h'r	high	w.	misty.
S. S. Prussian, Glascow, Scotland*	29.76	755.9	59	15.0		s.			7		9		s.	12 h'r	12 h'r			cloudy.
S. S. Scandinavian, N. 49° 15′ W. 33° 57′*	30.11	764.8	59	15.0		sw.			5		10		sw.	0	0	mod.	sw.	overcast.
S. S. Waldensian, N. 42° 55′. W. 52° 12′*	30.11	764.8	60	15.6		se.			1		fg			0	0	light	sw.	dense fog.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, N. 39° 51′, W. 57° 17′	30.02	762.5	74	23.3	90	sw.			5		5		w.			sm'h	sw.	rainy.
S. S. Indiana, Liverpool, Eng.†	29.75	755.6	60	15.6	82	w.			3		10		w.					cloudy.
S. S. Lord Clive, N 41° 05°, W. 64° 04′ *†	29.90	759.4				sse.			3		2		sse.	0	0			fine.
S. S. Lord Gough, N. 38° 50′, W. 71° 41′	29.71	754.6	71	21.7		sse.			4		8		s.	0	0	sm'h	sse.	fair.
S. S. Pennsylvania, N. 47° 51′, W. 28° 00′†	30.39	771.9	60	15.6		nw.			4		3		w.			sm'h	e.	showery.
ANCHOR LINE.																		
S. S. Devonia, N. 40° 30′, W. 68° 20′ †	29.81	757.2	64	17.8		sse.			2		10					sm'h		dense fog.
S. S. Ethiopa, New York, N. Y	29.64	752.8	67	19.4	89	ssw.			3		4		sw.	0	0			hazy.
S. S. Utopia, Valencia, Spain†	30.22	767.6	68	20.0	79	se.			3		8		nw.	1 h'r	1 h'r			cloudy.
ATLAS LINE.																		
S. S. Ailsa, Savanilla, U. S. C.†	29.90	759.4	84	28.9	83	s.			1		2		ne.	0	0			hazy
S. S. Alvena, off Point Lima, Porto Rico, W. I.†	29.97	761.2	83	28.3	71	ese.			2		5		ese.	0	0	sm'h	ese.	fine.
S. S. Alvo, Bird Rock, W. I.	30.07	763.8				e.			2		1		w.	0	0		w.	clear.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 34° 10′, E. 79° 00′	29.55	750.6	54.3	12.4	87	w			9		9							raining.
S. Baroda, S. 1° 40′, E. 94° 38′	29.86	758.4	78.8	26.0	86	wsw.			6		9							raining.
British Merchant, N 26° 54′ W 36° 56′	30.31	769.9	76.5	24.7	71	ene.			3–4		4							d. clouds.
Glencairn, S. 8° 31′, W. 12° 41′	30.10	764.5	81	27.2	74	s.			4–5		3							d. clouds.
S. S Gordon Castle, N. 0° 15′, E. 71° 55′	29.89	759.2	85.5	29.7	74	w.			2		4							d. clouds.
May Hulse, S. 55° 20′, W. 52° 32′	29.57	751.1	39	3.9	91	nne.			8		10							raining.
S. S Minho, N. 8° 54′, W. 28° 30′	30.04	763.0	81	27.2	70	nne.			2		4							d. clouds.
S. S. Pole Star, S. 22° 48′, W. 27° 31′	30.08	764.0	70	21.1	90	sw.			4		5							squally.
CROMWELL LINE.																		
S. S. Hudson, N. 36° 20′, W. 74° 12′†	29.73	755.1	66	18.9		sse.			3		2		s.	1 h'r	1 h'r	light	se.	fair.
CUNARD LINE.																		
S. S. Gallia, N. 41° 41′, W. 47° 16′	30.12	765.0	69	20.6	90	s.			3		8		se.	mist	mist	sm'h		fine.
S. S. Scythia, N. 42° 06′. W. 55° 53′	30.00	762.0	71	21.7	?	s.			1		4		wsw.	1 h'r	1 h'r			clear.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. France, N. 41° 27′, W. 52° 00′ †	29.99	761.7	71.6	22.0		calm			0	ck		e.		0	0	sm'h	w.	cloudy.
S. S. Ville de Marseilles. N. 42° 38′, E. 4° 27′*†	30.05	763.3	65	18.3		se.			6		0			0	0	sm'h		clear.
GUION LINE.																		
S. S. Arizona, N. 47° 15′ W. 38° 56′	30.21	767.3	61	16.1		sw.			4		8		sw.	0	0	mod.	sw.	fine.
S. S. Wisconsin, N. 41° 45′, W. 57° 05′*	29.84	757.9	70	21.1		calm			0		fg.			1 h'r	1 h'r	sm'h		foggy.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, New York, N. Y. *†	29.67	753.6				s.			2		8			2 h'r	2 h'r			misty.
S. S. Gellert, Plymouth, Eng	29.81	757.2	62	16.7		n.			2		8		nw.	0	0	sm'h		covered.
S. S. Herder, Hamburg, Germany*†	29.45	748.0	61	16.1		nnw.			5		3?		wsw.	0	0			covered?
S. S. Lessing, N. 49° 28′, W. 8° 11′	29.89	759.3	65	18.3		nnw.			4		8		nnw.	rain	rain	sm'h	nnw.	cloudy.
INMAN LINE.																		
S. S. City of Berlin. N. 40° 40′ W. 66° —′	29.88	758.9				sse.			4		10			0	0	sm'h		foggy.
LAMPERT AND HOLT'S LINE.																		
S. S. Humboldt, N. 47° 30′, W. 24° 30′*	30.30	769.6	57	13.9	100	wsw.			5		9s			4 h'r	4 h'r	4	nw.	overcast.
MALLORY LINE.																		
S. S. Colorado, Galveston, Texas †	29.88	758.9	78	25.6		sw.			4		3		sw.	0	0			clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Hermod, N. 45° 20′, W. 37° 15′*†	30.25	768.3	62.6	17.0		s.			2		6		sw.	0	0	mod.		cloudy.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, S. 7° 20′, W. 34° 40′	29.55	750.6				se.			6				s.	9 h'r	9 h'r		e.	clear.
S. S. Glenapp, S. 10° 19′, W. 34° 48′.*†	30.10	764.5				se.			3		4		se.	0	0	mod.	se.	fine.
NATIONAL LINE.																		
S. S. Denmark, N. 44° 34′. W. 36° 30′	30.40	772.1	62	16.7		se.			3		10		ssw.	0	0	slight		cloudy.
S. S. England, N. 47° 02′, W. 31° 35′	30.46	773.7				s.			3		0			0	0	sm'h		clear.
S. S. Greece, N. 41° 09′, W. 55° 41′	30.02	762.5				ssw.			2		5		ssw.	0	0	sm'h	nnw.	very fine.
S. S. The Queen, N. 41° 19′, W. 46° 23′ *	30.10	764.5	69	20.6		n.			2		5?		calm	0	0			clear.?
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY																		
S. S. Saratoga, N. 37° 00′, W. 75° 00′†	29.91	759.7	74	23.3	90	ssw.			4		5?		s.	0	0	sm'h		cloudy ?
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, New York, N. Y.*†	29.71	754.6	68	20.0	94	nne.			4									fair.
S. S. City of Washington, N. 25° 13′, W. 80° 00′ *†	30.10	764.5	85	29.4		calm			0		2		e.	0	0	sm'h		clear.
NORTH GERMAN LLOYD.																		
S. S. Graf Bismarck, N. 47° 44′ W 5° 40′	29.94	760.5	60.8	16.0		w.			4		5		nnw.			mod.	nw.	fine.
S. S. Habsburg, N. 53° 31′, E. 5° 05′	29.78	756.4	59.0	15.0		s.			3		5		s.	0	0	sm'h		hazy.
S. S. Hermann, N. 48° 35′, W. 15° 01′†	29.96	761.0	57.2	14.0		w.			6		4?		w.	0	0	long	wnw.	cloudy?
S. S. Hohenzollern, N. 48° 49′ W. 15° 06′*	30.05	763.3	59	15.0		nw.			5		8		nw.	0	0	4	nw.	cloudy.
S. S. Leipzig, N. 41° 23′, W. 53° 58′	30.05	763.3	76.0	24.4	92	w.			2		5		w.	3 h'r	3 h'r	sm'h		fair.
S. S. Mosel, N. 48° 58′, W. 20° 55′	30.22	767.6	61	16.1		wnw.			5		7		wnw.	0	0	mod.	w.	cloudy.
S. S. Neckar, N. 46° 00′, W. 34° 38′			62.5	16.9	96	ssw.			3		5?		ssw.	4 h'r	4 h'r	sm'h	ssw.	clear.?
S. S. Ohio, Bremerhaven, Germany	29.89	759.2				s.			4		5		s.	0	0			fair.
S. S. Rhein, N. 48° 53′, W. 19° 44′	30.11	764.8				nw.			4		7		nw.	0	0	r'gh	nw.	cloudy.
S. S. Salier, Bremerhaven, Germany	29.74	755.4	53.6	12.0		s.			5		8		s.	0	0			cloudy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 29° 46′, E. 127° 17′*†	29.62	752.3	74	23.3	100	sw.			6		10		sw.	h'vy	h'vy	mod.	sw.	drizzling.
S. S. Belgic, N. 46° 15′, E. 168° 55′†	29.95	760.7	44	6.7	92	var.			1		10			0	0	mod.	w.	foggy.
S. S. Coptic, N 38° 28′ W. 125° 33′	29.79	756.7	55.5	13.1		nnw.			6		4?		nnw.	0	0	5	nw.	cloudy?
S. S. Gaelic, N. 34° 01′, E. 138° 03′†	29.75	755.6	73	22.8	90	sw.			2		5?		nw.			mod.	ssw.	overcast?
S. S. Oceanic, N. 46° 39′, E. 173° 56′*	29.91	759.7	42	5.6	91	wsw.			2		8		sw.			3	wsw.	cloudy.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, N. 37° 20′, W. 71° 52′†	29.72	754.9				ssw.			4		5		sw.	0	0	long	se.	clear.
S. S. City of Columbus, Savannah, Ga †	29.91	759.7				sw.			3		2		sw.	3 h'r	3 h'r			clear.
S. S. Seminole, N. 37° 54′, W. 74° 08′†	29.72	754.9	73	22.8	76	sw.			1		2		w.			sm'h	sw.	clear
OREGON IMPROVEMENT COMPANY.																		
S. S. Willametta, Seattle, Wash. Ter†	29.99	761.7	56	13.3	81	ssw.			2		7		s.	0.03	0.8			rainy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Columbia, N 42° 50′, W. 124° 40′†	30.07	763.8	51	10.6	93	nne.			4		0					mod.	n	clear.
S. S. Oregon, Columbia River, Oregon.†	30.07	763.8	53	11.7	93	nw.			1		8		nw.					cloudy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 32° 39′, W. 117° 13′†	29.88	758.9	61	16.1	77	sse.			3		10		sse.			sm'h		cloudy.
S. S. Geo. W. Elder, Utsalady, Wash. Ter.†	30.03	762.7	50	10.0	86	se.			2		10					sm'h		cloudy.
S. S. Idaho, N. 52° 42′, W. 128° 29′†	29.92	760.0	46	7.8	100	se.			1		10						w.	cloudy.
S. S. State of California, San Francisco, Cal.†	29.81	757.2	53	11.7	93	w.			2		8		w.					overcast.
S. S. Victoria, N. 45° 16′, W. 124° 12′†	30.03	762.8	50	13.3	87	w.			2		8					light	nw.	overcast.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, S. 9° 15′, W. 169° 40′	29.92	760.0	80	26.7	78	se.			2		0			0	0	sm'h		clear.
S. S. City of Pekin, Hong Kong, China†	29.80	756.9	83	28.3	87	w.			4		10		sw.	0	0	sm'h		cloudy.
S. S. City of Rio de Janeiro, N 15° 06′, W. 94° 41′†*	30.14	765.5	83	28.3	83	w.			1		8		w.	0	0	long	s.	clearing.
S. S. City of Sydney, Sydney N. S. W.†	29.76	755.9	55	12.8	68	w.			3		5		w.	0	0	sm'h		cloudy.
S. S. City of Tokio, N. 39° 11′, W. 137° 34′†	30.45	773.4	67	19.4	84	ne.			2		2		e.	0	0	sm'h		f ir.
S. S. Clyde, N. 16° 47′, W. 99° 48′†	29.95	760.7	84	28.9	71	calm			0		0			2 h'r	2 h'r	mod.	sw.	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
PACIFIC MAIL STEAMSHIP COMPANY.—Continued.																		
S. S. Colon, N. 10° 18′ W. 79° 00′†	29.87	758.7	84	28.9		nne.			2		10		ne.	3 h'r	3 h'r	mod.	nne.	overcast.
S. S. Grenada, La Libertad, San Salvador†	29.93	760.2	84	28.9	91	calm			0		0			2 h'r	2 h'r	mod.	s.	rainy.
S. S. South Carolina, Off Burica Point, Costa Rica†	29.93	760.2	79	26.1	86	sw.			3		5		ne.	6 h'r	6 h'r	long	sw.	fair.
S. S. Zelandia, S. 33° 46′, E. 171° 46′	30.16	766.1	66	18.9	79	e.			3		5		e.			mod.	nw.	fine.
QUEBEC S. S. COMPANY.																		
S. S. Bermuda, Roseau, Dominica, W. I†	30.13	765.3	83	28.3		e.					5		e.	rain	rain	hv'y	ese.	fine.
RED STAR LINE.																		
S. S. Nederland, N. 50° 33′, W. 0° 49′†	29.90	759.4	58	14.4		sw.			3		10		sw.	driz.	driz.			misty.
S. S. Rhynland, N. 48° 20′, W. 28° 29′	30.35	770.9	62	16.7	83	w.			4		10		w.	0	0	mod.	w.	cloudy.
S. S. Switzerland, N. 39° 47′. W. 56° 57′†	30.12	765.0				ssw.			3		8		ssw.	0	0	mod	ssw.	fair.
S. S. Vaderland, Jersey City, N. J.	29.57	751.1	68	20.0	90	sse.			2		0			2 h'r	2 h'r			overcast.
ROTTERDAM LINE.																		
S. S. P. Caland, N. 39° 58′, W. 52° —′†	29.99	761.7	74.8	23.8	91	s.			1		7 k		s.			sm'h	s.	fair.
S. S. W. A Scholten, N. 48° 36′, W. 9° 52	29.94	760.5	58.2	14.6	83	nw.			6		9		w.	1 h'r	1 h'r			
STATE LINE.																		
S. S. State of Florida, N. 41° 34′. W. 48° 48′	29.93	760.2	70	21.1		wsw.			3		9		wsw.	sh'rs	sh'rs	sm'h		cloudy.
S. S. State of Georgia, N. 55° 12′ W. 10° 05′†	29.75	755.6	53	11.7		nw.			5		3		nw.			long	w.	showery.
THINGVALLA LINE.																		
S. S. Thingvalla, Brooklyn, N. Y.†	29.92	760.0	67.1	19.5		ese.			1		10		ese.	0	0			covered.
WARREN LINE.																		
S. S. Iowa, N. 42° 40′ W. 52° 02′*†	30.10	764.5	57	13.9		s.			1		10		s.	12 h'r	12 h'r	slight	s.	dense fog.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 39° 51′ W. 71° 15′	29.75	755.6									6		sse.	0	0	sm'h		
WHITE STAR LINE.																		
S. S. Baltic, N. 51° 19′ W. 10° 35′†	29.89	759.2	56	13.3	81	w.			4		5		w.	7 h'r	7 h'r	mod.	w.	squally.
S. S. Britannic, N. 51° 03′, W. 11° 15′†	29.94	760.5	55	12.8	93	nw.			6		5		nw.	0	0	mod.	nw.	d. clouds.
S. S. Celtic, Liverpool, Eng†	29.67	753.6	58	14.4	88	w.			6		10		wnw.	12 h'r	12 h'r			cloudy.
S. S. Republic, N. 46° 44′, W. 37° 44′†	30.40	772.1	70	21.1	75	s.			5		4		sw.	8 h'r	8 h'r	mod.	sw.	d. clouds.
WILSON LINE.																		
S. S. Otranto, N. 49° 40′ W. 15° 03′†	30.18	766.6	59	15.0		w.			5		10		w.			mod.	w.	cloudy.
MISCELLANEOUS.																		
Bg. Abbie Clifford, N. 21° 53′. W. 74° 15′*†	30.09	764.3	85	29.4		sse.			2–3		7			0	0	sm'h		fine.
Schr. Addie Fuller, N. 40° 32′ W. 72° 24′†	29.75	755.6	68.5	20.3	100	se.			3		10 s		se.	0	0	short	se.	cloudy.
Schr. Ajax, N. 28° 48′, W. 93° 52′†	29.96	761.0				ssw.			3		4		sw.	0	0	mod.	sw.	fair.
Bk. Alpha, N. 30° 00′, W. 75° 12′†	29.96	761.0	80	26.7		sw.			5		5?		sw.	0	0	mod	sw.	cloudy.?
Schr. Annie Lewis, Mobile Bay, Ala†	30.05	763.3	82	27.8		w.			1		5		w.	0	0	sm'h		cloudy.
Bk. Anna Thormann, S. 17° 48′, W. 30° 54′	30.20	767.1	73.4	23.0	78	sse.			5		2 k		se.	0	0	r'gh	sse.	fair.
Schr. Asa Eldridge, Key West, Fla†	30.00	762.0				s.			3		3		sw.	0	0			fair.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.48	774.2	74	23.3		calm			0		8		ne.	½ h'r	½ h'r			cloudy.
Bk. Bergenseren, N. 39° 20′. W 65° 00′†	29.73	755.2	74	23.3		ssw.			4				sw.	0	0	3	sw.	squally.
Schr. C. R. Flint, N. 23° 32′, W. 95° 54′†	30.08	764.0	80	26.7		ese.			2		5?		sse.	0	0	mod.	e.	clear.?
Schr. Edith R. Seward, Wilmington, N. C*†	29.86	758.4	75	23.9		sw.			1		2		sw.	0	0			clear.
S. E. J. Spicer, N. 48° 00′, W. 43° 24′†	30.17	766.3				w.			5		10		wnw.	mist	mist	mod.	n.	
Bk. Essex, S. 1° 29′ W. 31° 17′*†	30.00	762.0	80	26.7		ese.			2		1		ese.	shr's	shr's	long	se.	clear.
S. Exporter, S. 28° 40′, E. 78° 20′*†	30.20	767.1				ssw.			6		3		ssw.	0	0	long	ssw.	
Bk. Freya, N. 42° 16′, W. 41° 30′			68	20.0		s.			5		10			1 h'r	1 h'r	sm'h		fair.
S. Grecian, Hong Hong, China*†	29.80	756.9	88	31.1		se.			3		3		se.	0	0			clear.
Bk. Hattie G. McFarland, N. 45° 50′, W. 59° 50′*†	30.00	762.0	58	14.4		calm			0		3		w.	0	0	long	ssw.	clear.
S. Hedwig, N. 43° 06′, W 36° 25′	30.39	771.8	66.4	19.1	89	se.			4		5		se.	0	0	long	n.	fine.
S. Ismir, S. 31° 44′, W. 29° 01′†	30.10	764.5				sse			9		8		sse.			h'vy		violent squ'l
Schr. Jennie N. Huddle, Boston, Mass†	29.93	760.2	63	17.2	94	ne.			1					0	0			foggy.
Schr. John L. Thomas, Pearl Ids, Mosquito coast C. A.*†	29.94	760.5				e.			6		10		ese.	3 h'r	3 h'r	mod.	ese.	squally.
Bkt. Josephine, N. 41° 30′ W. 69° 36′†	29.94	760.5	61	16.1	88	se.			4		fog			0	0	sm'h		dense fog.
S. S. Lamperts, N. 18° 52′, E. 72° 24′*	29.70	754.4	83.8	28.8	75	w			4.		6 k; s					4		misty.
S. S. Laurel, Key West, Florida†	30.02	762.5	86	30.0		ssw.			2				sw.	0	0			cloudy.
S. Minnie N. Gerow, N 40° 35′, W. 68° 40′*†	29.79	756.7				s.			2		fog					sm'h	se.	foggy.
S. M. P. Grace, N. 17° 17′, W. 38° 13′*	30.07	763.8	75	23.9		ene.			4				ene	0	0	r'gh	ene.	cloudy.
S. S. Nebo, Off Cape Breton Island*†	29.70	754.4				n.			2		10			0	0	sm'h		dense fog.
Bk Orpheus, N. 40° 11′, W. 72° 32′	29.74	755.4	64	17.8		s.			3		10					sm'h	s.	foggy.
S. Paramita, S. 58° 00′ W 79° 00′†	28.64	727.4	42	5.6		nw.					9		nnw.	7 h'r	7 h'r	hv'y	cross	cloudy.
Bk. Peppina, N. 50° 11′, W. 69 15′†	29.85	758.2	58	14.4	81	w.			6		2		w.	0	0		wnw.	fair.
Bg. Potomac, N. 21° 50′, W. 56° 23′*†	30.20	767.1				e.			1				ese.	0	0	h'vy	s.	fine.
Bk. Rosebud, S. 25° 48′ W. 21° 32′*†	29.95	760.7	65	18.3	83	ssw.			7		5		w; sw	sq'lls	sq'lls	h'vy	s-w.	squally.
S. Salisbury, S. 31° 00′, E. 101° 05′*.	29.80	756.9	65.7	18.7	85	nw; n			7		7		wsw.	1 h'r	1 h'r	cross	n.	cloudy.
Bg. Teneriffe, N. 22° 10′, W. 72° 20′	30.02	762.5				sse.			3		0			0	0	mod.		fine.
Bk. Truro, Havre, France*†	29.85	758.2				wnw.			5		10		wnw.	2 h'r	2 h'r			rainy.
U. S. F. C. S. Fish Hawk, Washington, D. C†	29.92	760.0	74	23.3	90	ssw.			2		6		calm	0	0			cloudy.
Yacht Vega, N. 34° 13′, W. 72° 09′*†	30.02	762.5	73	22.8		wsw.			3		5		wsw.	sq 'lls	sq 'lls		wsw.	
Bk. Vincenzo Accame, N. 37° —′, W. 27° 30′†	30.67	779.0	71.6	22.0		ese.			2									
Schr. Viola Reppard, Brunswick, Ga†	29.86	758.4	81	27.2		ssw.			2		2		ssw.	0	0			clear.
Bkt. Wandering Jew, N 42° 16′, W. 70° 33′*†	29.80	756.9	62	16.7		sw.			3		fog			0	0	sm'h		foggy.
Bk. Warden Law, N. 43° 54′, W. 31° 02′*	30.43	772.9				sse.			4		6		sse.	0	0	sm'h	sw.	fair.
Bg. Wauburn, N 38° 05′, W. 74° 53′*†	29.80	756.9				s.			6		4		s.	0	0	sm'h		hazy.
Bk. Wm. Wilcox, S. 3° 35′, W. 30° 50′*†	30.19	766.8	79	26.1		se.			4		2		se.	0	0	mod.	se.	fair.
S. Wm. Woodbury, N. 36° 52′, W. 73° 44′*†	29.70	754.4	72	22.2	54	ssw.			4		6?		sw.			sm'h	sw.	clear.?

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

UNITED STATES OF AMERICA.

SIGNAL SERVICE U.S. ARMY

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 19, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.06	763.5	76.6	24.8	58	s.			1		0			0	0	clear	Moiroud.
Algiers			29.98	761.5	76.3	24.6	55	n.			3		0			0	0	clear	Nicolas.
La Galle			30.00	762.0	75.2	24.0	67	nw.			6		2			0	0	fair	Foufréde.
Tunis			30.06	763.5															Jacques.
Saida			30.14	765.5	79.5	26.4	27	nne.			1		0			0	0	clear	Perès.
Tebessa			30.11	764.8	61.9	16.6	73	n.			6		0			0	0	clear	Derché.
Geriville					82.0	27.8	33	nw.			4		0			0	0	clear	Lonchamp.
Laghouat			30.11	764.8	86.0	30.0	27	n.			1		0			0	0	clear	Abraham.
Biskra			30.10	764.5	91.8	33.2	19	nnw.			6		1			0	0	very fair	Malau.
Australian.																			
Melbourne, Victoria	29.88	758.9	29.97	761.2	44.0	6.7	88	w.	6	2.7			2			0.01	0.3	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.33	745.0	29.86	758.4	72.7	22.6	34	sw.			3		0			0.142	3.6		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.15	740.5	29.89	759.3	71.6	22.0	47	e.	3.8	1.7			7			0	0		Dr. Wierzbiski.
Eperies	29.06	738.2	29.91	759.7	70.5	21.4	48	e.			2	5 cs	0			0	0		Julius Mikolik.
Gratz	28.63	727.1	29.83	757.6	69.8	21.0	64	s.			2		3			c	0		Andreas Rospini.
Hermannstadt	28.56	725.4	29.94	760.5	69.1	20.6	52	n.			2		8			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.51	724.1	29.81	757.2	64.0	17.8	65	nw.			1		10			0.319	8.1	gloomy	The Staff.
Lemberg	29.00	736.6	29.95	760.8	68.5	20.3	52	s.			1		8			0	0		Dr. T. Stanecki.
Pola	29.85	758.2	29.96	761.0	69.8	21.0	79	se.			4		5			0	0		I. R. Hydrographic Office.
Szathmar	29.49	749.1	29.95	760.6	70.5	21.4	52	se.			2		0			0	0		Joseph Midlinszky, S. J.
Szegedin	29.65	753.1	29.92	760.0	69.8	21.0	41	se.			2		4			0	0		Karl Stancel.
Trieste	29.87	758.6	29.97	761.2	69.1	20.6	51	sw.			1		2			0.248	6.3		Royal Academy.
Vienna	29.15	740.3	29.84	757.8	71.6	22.0	42	se.			4		2			0.051	1.3		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.66	753.4	29.76	755.9	52.0	11.1	90	ene.	10	4.5			7			0	0	d. clouds	W. Boswell
Armagh, Observatory																			S. Call.
Bidston, Liverpool Obs'y			29.80	756.9	55.0	12.8	83	w.	30	13.4			10					overcast	John Hartnup.
Bolton, Sharples	29.24	742.7	29.77	756.1	53.7	12.1	82	w.	12	5.4			9					overcast	Thomas Mackereth, A.S.
Bradford, Yorkshire	29.35	745.5	29.74	755.4	56.1	13.4	83	sw.			2		10			0.13	3.3	overcast	J. McLandsborough, F. R
Bridgetown, Barbadoes																			Corpl. J. Surgenor, A. H. C.
Cardington																			John McLaren.
Chatham, School M. E.	29.66	753.4	29.79	756.7	61.0	16.1	66	w.			1		7					d. clouds	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.78	756.4	30.00	762.0	59.4	15.2	59	wnw.			3		6					d. clouds	The Staff.
Fort Napier, Natal	27.80	706.1	30.02	762.5	71.2	21.8	47	calm			0		0					blue sky	Pvt. Lane, A. H. C
Free Town, Sierra Leone	29.64	752.8	29.87	758.7	85.0	29.4	68	w			3		6					raining	Sergt. John Robinson.
Gibraltar, Mediterranean	30.08	764.0	30.13	765.3	76.2	24.6	81	w.			5		2					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.54	750.3	29.75	755.6	59.1	15.1	61	w.			2		10 k					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.62	752.3	29.79	756.7	60.2	15.7	68	nw.			4		9					overcast	The Staff.
Guernsey	29.72	754.9	30.02	762.5	60.0	15.6	70	nw.			2		1					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.77	756.1	29.81	757.2	60.0	15.6	59	w.	17	7.6			8					threatening	The Staff.
Leicester, Museum	29.51	749.5	29.76	755.9	60.5	15.8	57	nw.			1		8					d. clouds	J. C. Smith.
Malta, Mediterranean	29.94	760.5	30.01	762.2	75.2	24.0	68	e.			3		8					overcast	I. H. Whysall.
Nassau, Bahamas	30.07	763.8	30.12	765.0	82.2	27.9	85	s.			1		8					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.30	744.2	29.81	757.2	56.9	13.8	66	wnw.			5		9					gloomy	Warren Middleton.
Oxford, Radcliffe Obs'y	29.59	751.6	29.82	757.4	57.0	13.9	74	w.			3		10					showery	The Staff.
Plymouth	29.88	758.9	29.95	760.7	63.0	17.6	65	w.			3		10					overcast	John Merrifield.
Sandwick Manse, Orkneys			29.80	756.9	53.9	12.2	79	e.	15	6.7			10					overcast	Rev. C. Clouston, L. L.D
Scutari Cemetery, Turkey	29.81	757.2	29.88	758.9	60.0	15.9	88	nnw.			2		10			blank	blank	misty	W. H. Lyne.
Sheffield	29.46	748.3	29.75	755.6	60.3	15.7	76	wnw.			3		8			inap.	inap.	overcast	W. F. Cooper.
Silloth Rectory	29.71	754.6	29.74	755.4	60.2	15.7	70	nw.			2		8			0.047	1.2	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.77	756.1	58.3	14.6	64	wnw.	19	8.5			10					d. clouds	J. New.
Stratfield Turgiss	29.62	752.3	29.83	757.7	61.4	16.3	63	nw.			3-4		9					squally	Rev. O. H. Griffiths, F.M.S
Truro, Royal Institution	29.98	761.5	29.99	761.7	63	17.2	61	w.			6		10					gloomy	W. Newcombe.
Valencia, Observatory	29.94	760.5	29.96	761.0	53.6	12.0	90	ssw.	16	7.2			10			blank	blank	misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.81	757.2	29.85	758.2	65	18.3	91	se.	8	3.6			10 s		calm	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.72	754.9	29.98	761.5	67	19.4	90	se.	5	2.2			10 s		se.	0	0	cloudy	G. A. Blair.
Father Point, Quebec*	29.61	752.1	29.63	752.6	45	7.2	100	ne.	5	2.2			10 n		s.	0.09	2.3	threatening	J. McWilliams.
Halifax, N. S*	29.76	755.9	29.89	759.2	56	13.3		s.	3	1.3			fg			0.164	4.2	foggy	A. Allison.
Kingston, Ontario*	29.22	742.2	29.54	750.3	62	16.7	93	w.	12	5.4			10 ks		sw.	0.04	1.0	threatening	A. P. Knight, M. A.
Montreal, Quebec*	29.32	744.7	29.52	749.8	69	20.6	81	s.	12	5.4		8 c	2 ks	s.		0.43	10.9	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	28.83	732.3	29.51	749.5	52	11.1		s.	9	4.0			10 n		s.	0.49	12.4	light rain	Rev. R. Mosley.
Port Dover, Ontario	28.93	734.8	29.59	751.6	64	17.8	83	w.	6	2.7		3 ck	0	sw.		0	0	fair	H. Morgan.
Port Stanley, Ontario	28.97	735.8	29.59	751.6	64	17.8	78	w.	14	6.3		0	5 k		w.	0.34	8.6	fair	M. Payne.
Quebec, Quebec*	29.28	743.7	29.59	751.6	59	15.0	93	ne.			5	0	5 s		e.	0.14	3.6	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	28.97	735.8	29.40	746.7	62	16.7	87	e.	1	0.4			10 ks		w.	0.23	5.8	cloudy	W. H. McIntyre.
Saugeen, Ontario*	28.88	733.5	29.59	751.6	49	9.4	93	nw.	17	7.6			10 ks			0.49	12.4	cloudy	
St. Andrews, N. B	29.69	754.1	29.74	755.4	54	12.2	97	se.	7	3.1			fg.			0.62	15.7	dense fog	
Sydney, C. B*	29.93	760.2	29.99	761.7	57	13.9	100	s.	3	1.3			10 n			0.08	2.0	cloudy	T. C. Hill, C. E
Toronto, Ontario*	29.18	741.2	29.55	750.6	66	18.9	87	sw.	8	3.6			10 ks		sw.	0.02	0.5	threatening	Magnetic Observatory.
Yarmouth, N. S*	29.73	755.1	29.80	756.9	57	13.9	100	sw.	6	2.7			fg.			0.17	4.3	foggy	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.26	717.8	29.72	754.9	52.0	11.1	100	nw.					10 k;n			0.280	7.1	raining	Wm. Wylie.
St. Johns, Newfoundland	29.98?	761.5?	30.23?	767.8?	56	13.3	94	ne.	0	0		5 k	5 s			0.23	5.8		John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.22	767.6	30.25	768.3	62.0	16.7	88	wsw.	8.7	3.9		0	8 s			0	0	light haze	John Duthie.
Cape Town, C. G. H. Obs'y	30.22	767.6	30.26	768.6	61.8	16.6	80	wsw.	11	4.9		0	2			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow	29.53	750.0	29.80	756.9	76.0	24.4	98	se.			1		10			0.18	4.6	raining	N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.67	753.5	29.69	754.1	72.1	22.3	95	e.	4.0	1.8			10			0.016	0.4	covered	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.65	753.1	29.70	754.3	57.7	14.3	93	sse.	23.5	10.5			10						Oversergent Fischer.
Fanöe	29.54	750.2	29.56	750.7	59.5	15.3	94	ssw.			4		7						Overloerer Lauridsen.
Godthaab, Greenland	29.89	759.3	29.94	760.4	38.5	3.6	88	nne.			4		0			0	0		S. Kleinschmidt.
Stykkisholm, Iceland	29.58	751.4	29.63	752.5	52.5	11.4	73	se.			2		8						A. O. Thorlacius.
Thorshavn	29.84	757.8	29.87	758.7	49.3	9.6	92	ne.	9	4			10						Overloerer Bergh.
Vestervig	29.49	749.0	29.58	751.3	51.8	11.0	92	se.			2		10					raining	Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.52	749.7	30.17	766.2	58.6	14.8	89	wnw.			2		10			0.04	1.	raining	M. Labroue, Director.
Alençon, Normal School	29.47	748.6	30.02	762.6	59.7	15.4	85	sw.			1		k	n.	n.	0.055	1.4		M. Nicot, Director.
Arras, Engineer School	29.64	752.8	29.89	759.2	58.5	14.7	74	wnw.			4		k		nw.	0.213	5.4		M. Fénéon, Command't.
Avignon, Normal School	29.95	760.7	30.03	762.7	73.8	23.2	50	n.			1		2		n.	0	0	slightly cl'dy	M. Giraud, Director.
Bar-sur-Seine	29.41	747.0	29.96	760.9	62.1	16.7	55	w.			3		8		w.	0.28	6.8	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.63	752.7	29.85	758.3	61.0	16.1	56	w.			3		8		wnw.	0	0	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.04	737.6	30.00	761.9	61.0	16.1	69	sw.			1		kn		ne.	0.610	15.5		M. Gobin, Director.
Bordeaux, Observatory	29.87	758.8	30.13	765.4	60.8	16.0	81	wsw.			1		10			0 059	1.5	light rain	M. Rayet, Director.
Bourges, Normal School	29.50	749.4	30.05	763.2	65.3	18.5	45	sw.			2	ck	0	sw.		0.138	3.5		M. Postel, Director.
Brest, Naval Observatory	29.83	757.7	30.08	763.9	67.3	19.6	58	nw.			2		5		nw.	0.031	0.8		M. de Kermaree, Dir.
Caen, Normal School	29.89	759.3	29.97	761.2	61.9	16.6	89	w.			1		5		sw.	0.016	0.4	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.58	751.4	29.90	759.4	60.4	15.8	53	sw.			4		5		nw.	0	0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.34	745.3	29.85	758.3	54.0	12.2	65	w.			3		10			0.28	7.	raining	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.72	729.5	30.05	763 3	64.0	17.8	58	w.			2		5			0.047	1.2	½ covered	M. Allnard, Director.
Cluny, Normal School	29.25	743.0	30.15	765.9	63.5	17.5	54	w.			3		4		w.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.06	738.2	29.92	760.0	61.7	16.5	66	wsw.			4		kns	wsw.	wsw.	0.205	5.2		Dr. Coulet, Director.
Gap, Normal School	27.55	699.8	30.05	763.3	59.7	15.4	62	nw.			1		4 n		nw.	0.012	0.3		M. Jeangirard, Director.
Gréasque, du Rhone	28.94	735.0	30.03	762.8	70.2	21.2	40	nw.			3		4		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.32	744.7	30.09	764.2	56.1	13.4	87	n.			1		10 n		ne.	0.059	1.5	raining	M. Ablard, Director.
Guéret, Normal School	28.49	723.7	30.06	763.5	58.1	14.5	75	sw.			1		5		ne.	0	0	cloudy	M. Rivoire, Director.
Lamballe, Normal School	29.76	755.8	30.03	762.8	64.0	17.8	55	w.			2		5		w.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.63	752.5	30.19	766.8	61.9	16.6	81	wsw.			3		5			0.087	2.2	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.97	761.1	30.07	763.7	62.6	17.0	61	wsw.			2		2		n.	0	0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.03	737.3	30.07	763.8	61.2	16.2	43	nw.			1		1 n		nw.	0.142	3.6	clear	M. André, Director.
Mans, Normal School	29.71	754.5	30.01	762.3	62.6	17	46	nw.			1		5		w.	0.012	0.3	cloudy	M. Piboen, Director.
Marseille, Observatory	29.73	755.1	29.99	761.8	75.9	24.4	46	wnw.			4		4		nnw.	0	0		M. Stephan, Director.
Montlouis	24.91	632.7	29.75	755.7	56.8	13.8	67	se.	7.4	3.3			6	s.		0.110	2.8		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.93	760.2	30.06	763.4	69.1	20.6	48	nw.			3		5			0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	29.15	740.3	29.92	760.0	57.9	14.4	70	wsw.			1	ck	0	w.		0.283	7.2		M. Hasse, Director.
Nantes, Observatory	29.93	760.1	30.09	764.2	69.3	20.7	51	wnw.			1–3	0	7 k; kn		wnw.	0.006	0.2		M. Larocque, Director.
Perpignan, Observatory	29.99	761.7	30.10	764.4	70.7	21.5	48	ne.	18.6	8.3			2	w.	nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.37	542.7			34.2	1.2		ne.			1		10		ne.	0.236	6.0	rainy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.85	732.8	29.89	759.1	67.6	19.8	49									0	0		M. Taillieu.
Puy de Dôme Obs'y, Summit	25.19	639.8			39.7	4.3	100	w.			4		10		w.	0.386	9.8	covered	M. Allnard, Director.
Rochefort, Naval Obs'y	30.05	763.2	30.08	764.0	66.2	19.0	94	w.			2		10		w.	0.08	2.	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.89	759.2	30.10	764.6	64.8	18.2	71	wsw.			1		5		w.	0.150	3.8	light rain	M. Mouillot, Director.
Rodez, Normal School	28.00	711.1	30.15	765.9	53.2	11.8	80	se.			1		n		s.	0.130	3.3		M. Seger, Director.
Rouen, Normal School	29.77	758.7	29.92	759.9	60.1	15.6	66	wsw.			3		8	sw.		0.465	11.8	very cloudy.	M. Brotier.
Saint Maur, Observatory	29.77	756.2	29.94	760.4	61.3	16.3	69	w.			1		10		w.	0.142	3.6		M. Renou, Director.
Toulouse, Observatory	29.50	749.2	30.22	767.7	61.3	16.3	74	w.			2		10	w.		0.031	0.8	covered	M. Baillaud, Director.
Tours	29.84	758.0	30.02	762.6	68.0	20.0	41	w.			2		5	wnw.	wnw.	0.006	0.2	cloudy	M. de Tastes.
Versailles, Observatory	29.46	748.3	29.95	760.8	55.4	13.0	79	w.			6					0.134	3.4		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.64	752.9	29.93	760.3	60.1	15.6	68	w.			1		7		w.	0.102	2.6		M. Marié Davy, Director
GERMAN.																			
Bamberg	29.02	737.1	29.87	758.6	58.5	14.7	70	sw.			3	0	8 k		w.	0.252	6.4		Prof. Dr. Hoh.
Berlin	29.69	754.2	29.87	758.7	60.6	15.9	75	se.			2		9			0.469	11.9		Prof. Dr. Arndt.
Breslau	29.36	745.8	29.89	759.2	74.5	23.6	35	s.			3		8	s.		0	0		Royal University Obs'y.
Carlsruhe	29.47	748.6	29.91	759.7	57.6	14.2	76	sw.			5		1	sw.		0.118	3.0	thund'r st'm	Albert Senz.
Cassel	29.02	737.1	29.73	755.2	56.8	13.8	85	sw.			6		10	sw.		0.003	1.6		Dr. H. Möhl.
Frankfort-on-the-Main	29.44	747.8	29.80	756.9	61.9	16.6	69	sw.			1		7			0.177	4.5		Physical Society.
Friedrichshafen	28.57	725.6	30.00	762.1	53.2	11.8	87	sw.			6		10	w.		0.091	2.3		Wilhelm, Chief Tel.
Hamburg	29.57	751.0	29.66	753.4	61.9	16.6	57	sw.			5		8			0.059	1.5	light rain	E. Preller.
Kiel	29.61	752.2	29.63	752.6	62.4	16.9	58	sw.			2		5			0.063	1.6		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.40	746.8	29.82	757.4	58.6	14.8	72	sw.			3		10	sw.		0.173	4.4		H. Leppig, Asst.
Magdeburg	29.56	750.9	29.75	755.6	62.4	16.9	54	sw.			3		10 ks		sw.	0	0		Dr. Assmann.
Memel	29.99	761.8	30.04	763.0	71.6	22.0	42	sse.			3	3 ck	0						Issermann.
Munich	28.11	713.9	29.97	761.1	51.3	10.7	92	n.			3		10	nw.		0.204	6.7		Central Station.
Neufahrwasser	29.87	758.7	29.89	759.1	74.1	23.4	38	se.			4		7			0	0		A. Lothes.
Neustadt, Palatinate	29.32	744.6	29.84	758.0	55.8	13.2	86	ssw.			2		9	s.		0.157	4.0		Dicknether.
Stuttgart	28.98	736.0	29.87	758.6	55.4	13.0	72	w.			3		8	w.		0.109	4.3		Prof. Dr. Schoder.
Wustrow	29.68	753.9	29.71	754.6	57.7	14.3	83	s.			3		10 s			0.197	5.0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.63	752.6			77.5	25.3		sw.			1.0		2			0	0	clear	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.62	752.4	29.67	753.7	88.1	31.2	76	sw.	27.0	12.1			6		w.	0	0	gloomy	
Deesa	29.17	740.8	29.63	752.5	92.2	33.4	44	sw.	18.9	8.4			7	sw.	sw.	0	0	d. clouds	
Bombay	29.75	755.6	29.79	756.6	84.2	29.0	81	wsw.	14.0	6.3			5		w.	0.01	0.3	d. clouds	
Poona, Yarrowda	27.92	709.1	29.76	755.7	83.3	28.5	54	wsw.	22.0	9.8			4		w.	0	0	d. clouds	
Trichinopoly	29.48	748.9	29.76	755.8	95.1	35.1	55	nw.	1.0	0.4			5			0	0	d. clouds	
Bellary	28.25	717.5	29.66	753.4	97.0	36.1	28	w.	11.4	5.1			7			0	0	d. clouds	
Belgaum	27.27	692.8	29.81	757.3	74.6	23.7	76	wsw.	9.0	4.0			3	e.	sw.	0	0	d. clouds	
Lahore	28.74	730.1	29.44	747.7	107.3	41.8	21	w.	2.9	1.3			2			0	0	blue sky	
Roorkee	28.67	728.2	29.55	750.6	84.8	29.3	77	calm	2.0	0.9			8			1.16	29.5		
Agra	28.96	735.5	29.51	749.6	85.1	29.5	79	ne.	4.0	1.8			8		ne.	0	0	d. clouds	
Nagpur	28.57	725.7	29.60	751.9	80.5	26.9	78	n.	5.6	2.5			10		nw.	0.02	0.5	overcast	
Jubbulpore	28.26	717.8	29.61	752.1	78.0	25.6	91	w.	4.4	2.0			10		nw.	0.29	7.4	raining	
Lucknow	29.12	739.6	29.49	749.0	83.2	28.4	85	ese.	3.5	1.6			9	ese.		0.35	8.9	d. clouds	
Allahabad	29.20	741.5	29.50?	749.3	83.4	28.6	84	ese.	1.8	0.8			8			0.11	2.8	d. clouds	
Patna	29.37	746.0	29.55	750.6	89.2	31.8	73	nne.	5.3	2.4			5	nne.	nne.	0	0	d. clouds	
Hazaribagh	27.60	701.0	29.57	751.1	83.0	28.3	56	w.	11.2	5.0			8	w.	e.	0	0		
Cuttack	29.55	750.6	29.63	752.6	89.2	31.8	65	s.	1.2	0.5			0			0	0	blue sky	
Calcutta, Alipore	29.60	751.8	29.62	752.3	86.0	30.0	77	sw.	7.0	3.1			5	sw.		0	0	d. clouds	
Dhubri	29.50	749.2	29.61	752.1	81.6	27.6	90	sw.	1.9	0.8			9			1.24	31.5	d. clouds	
Chittagong	29.62	752.2	29.71	754.5	82.7	28.2	88	s.	6.1	2.7			8			0	0	d. clouds	
Sibsagar	29.26	743.1	29.58	751.4	86.6	30.3	74	sw.	2.3	1.0			5	w	sw.	0	0.	d. clouds	
Jeypore	28.14	714.8	29.56	750.7	85.7	29.8	52	ne.	7.6	3.4			10	s.	ne.	0	0	overcast	
Zanzibar, Africa	30.00	762.0			83.2	28.4	59	s.	8.5	3.8			3			0	0	d. clouds	
ITALIAN.																			
Udine	29.59	751.5	29.99	761.7	72.5	22.5	58	n.	1.3	0.6			4			0	0		Prof. Giovanni Cloding.
Milan	29.43	747.5	29.93	760.3	71.6	22.0	36	ne.	4.3	1.9			9	w.		0	0		Prof. Schiaparelli.
Padua	29.82	757.4	29.93	760.1	70.5	21.4	53	ene.	8.7	3.9			9	e.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.01	736.8	29.89	759.1	71.2	21.8	41	ese.	3.8	1.7			8	e.		0	0		Prof. P. F. Denza.
Genoa	29.76	756.0	29.95	760.8	67.6	19.8	72	se.	16.1	7.2			10	se		0	0		Prof. G. M. Garibaldi.
Mondovi	28.00	711.2	29.85	758.3	69.3	20.7	46	w.			2		8			0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	29.81	757.2	29.86	758.4	72.9	22.7	55	e.	8.7	3.9			10			0	0		Prof. Luigi Guidi.
Florence	29.70	754.3	29.95	760.6	77.4	25.2	44	sw.			2		7	sw.		0	0		Prof. Costantino Pitter
Leghorn	29.81	757.2	29.89	759.3	72.3	22.4	71	sw.	1.3	0.6			10			0	0		Prof. P. Monte.
Rome	29.82	757.3	29.98	761.6	74.8	23.8	43	w.	11.2	5.0			10			0	0		Prof. P. S. Ferrari.
Lecce	29.76	755.9	30.00	762.1	75.7	24.3	31	ne.	7.4	3.3			10			0	0		Prof. C. de Giorgi.
Cosenza	29.14	740.1	30.00	762.0	75.6	24.2	71	wsw.	3.8	1.7			9	sw.		0.004	0.1		Prof. D. Conti.
Cagliari	29.74	755.4	29.93	760.2	72.9	22.7	67	s.			4		4			0.209	5.3		Prof. A. Pacinotti.
Palermo	29.80	756.8	30.04	763.1	69.4	20.8	78	ene.	6.9	3.1			10	wsw.		0.008	0.2		Prof. G. Ciacciatore.
Syracuse	29.97	761.1	30.01	762.2	76.3	24.6	53	s.	11.2	5.0			7	sw.		0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.48	748.8	29.99	761.8	72.5	22.5	58	sw.	8.7	3.9			10	sw.		0.012	0.3		Prof. T. Brioschi.
Stelvio	22.44	560.9			36.9	2.7	88	w.			6		10			0.098	2.5	covered	Prof. P. F. Denza.
Valdobbia	22.16	562.8			36.5	2.5	90	n.			2		10			0.071	1.8	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.78	756.4	29.81	757.2	65.0	18.3	87	calm	0	0		0	3 s			0	0	fair	K. Ogawa.
Hakodate	29.79	756.6	29.80	756.9	61.0	16.1	92	ese.	1.8	0.8			10			0	0	covered	
Hiroshima, I. M. Obs'y	29.78	756.4	29.79	756.6	71.2	21.8	89	wsw.	2.3	1.0		cs;ck	10 s			0	0	covered	I. Sogawa.
Kanazawa	29.79	756.6	29.89	759.2	67.8	19.9	94	ne.	4.7	2.1		ck	9 s			0	0	cloudy	S. Endo.
Kioto	29.66	753.3	29.83	757.7	71.0	21.7	89	ssw.	1.2	0.5		ck	6 s			0	0	fair	M. Tojima.
Kochi	29.85	758.2	29.87	758.7	70.9	21.6	90	s.	2.6	1.2			10 s			0	0	overcast	K. Kusunose.
Nagasaki, I. M. Obs'y	29.60	751.8	29.80	756.9	70.1	21.2	93	se.	7.9	3.5			10 n			0.130	3.3	light rain	S. Takehayashi.
Nemuro	29.79	756.6	29.85	758.2	51.5	10.8	93	calm	0	0		0	6			0	0	cloudy	
Niigata	29.80	756.9	29.84	757.9	64.6	18.1	95		0.3	0.1		10 ck	0			0	0	cloudy	M. Morita.
Nobiru	29.81	757.2	29.83	757.7	64.7	18.2	98	s.	3.2	1.4			10 n			0.015	0.4	light rain	H. Midzushima.
Sapporo					61.0	16.1	87	calm	0	0			10			0	0	covered	
Tokei Obs'y, Yeddo	29.81	757.2	29.87	758.7	67.6	19.8	91	sse.	3.5	1.5		0	7 ks			0	0	fair	The Staff.
Wakayama	29.79	756.6	29.85	758.2	71.5	21.9	82	ssw.	1.2	0.5		0	0			0	0	clear	Y. Kuwamura.
MAURITIUS																			
Mauritius Observatory	29.94	760.5	30.14	765.5	71.4	21.9	66	e.	21.0	9.4		1ck;cs	3 k;ks		ese.	0.11	2.8	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.67	601.2	29.89	759.2	62.4	16.9	93	ssw.					10 n		s.	0.024	0.6	covered	Prof. Vicente Fernandez.
Leon	24.30	617.2	29.88	758.9	64.4	18.0	89	nw.			1	6 c	4 kn	sw.	sw.	0.292	7.4	covered	Prof. M. Leal.
Mazatlan	29.63	752.6	29.89	759.1	77.5	25.3	86	ne.				2 cs	1 k			0	0	hazy	F. Quijano, C. E.
Mexico, Central Obs'y	23.07	585.9	30.04	762.9	59.4	15.2	82	calm	0	0		6 c	5 k	e.		0	0	cloudy	The Staff.
Morelia	24.18	614.2	30.23	767.9	61.2	16.2	66	ne.			2	3	3	e.	e.	0.374	9.5		M. Tena, M. D.
Pabellon, Aguascalientes	23.89	606.9	29.79	756.6	65.3	18.5	79	s.			2					0	0		M. V. de Leon, M. E.
Puebla, Catholic Institute	23.42	594.9	30.09	764.3	59.4	15.2	89	calm	0	0		0	5		s.	0.024	0.6	½ clouded	Prof. P. Spina.
San Luis Potosi	24.18	614.1	30.06	763.4	63.6	17.6	64	e.				5	0	w.		0	0	½ clouded	G. Barroeta, M. D.
Zacatecas	22.56	573.0	30.09	764.2	60.5	15.8	82					3 ck	0	n.		0	0	clear	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.72	754.8	29.72	754.8	58.8	14.9		wsw.			5					0.276	7.0		
Groningen	29.50	749.3	29.56	750.7	56.3	13.5		sw.			5					0.248	6.3		
Helder	29.54	750.4	29.54	750.4	55.0	12.8		w.			4					0.094	2.4		
Hellevoetsluis	29.66	753.3	29.66	753.3	54.9	12.7	87	wsw.			4					0.539	13.7		
Utrecht	29.60	751.7	29.64	752.9	53.2	11.8	93	wsw.			4		10			0.402	10.2	raining	H. van der Brink.
NORWEGIAN.																			
Bergen	29.71	754.5	29.77	756.1	64.8	18.2	40	e.	2	1			3			0	0		
Brono	29.92	759.9	29.96	760.9	60.4	15.8	33	ene.	4	2			0			0	0		
Christiania	29.71	754.7	29.85	758.3	65.5	18.6	42	ese.	18	8			9			0	0		
Gjæsvær	30.01	762.2	30.03	762.8	41.7	5.4		w.			6		10					raining	
Lodingen	30.07	763.8	30.12	765.0	50.5	10.3	51	ne.			4		1			0	0		
PORTUGUESE.																			
Angra, Azores					66.7	19.3	77	ene.	5.6	2.5			3			0	0		
Campo Major	29.17	741.0	30.14	765.5	77.9	25.5	41	nw.	6.3	2.8			0			0	0		Dr. J. A. Sampaio.
Funchal, Maderia	30.22	767.5	30.31	769.8	69.8	21.0	65	sw.	6.3	2.8			1			0	0		Dr. A. M. R. dos Santos.
Lisbon, Observatory	29.90	759.5	30.26	768.6	68.2	20.1	48	n.	18.6	8.3			0			0	0		Capt. D. A. de Cunha.
Ponta Delgada, Azores	30.40	772.2	30.47	774.0	71.2	21.8	58	ne.	7.4	3.3			4			0	0		The Staff.
Saint Paul de Loando	29.78	756.3	29.98	761.5	72.3	22.4	92	nw.	0.7	0.3			0			0	0		
Serra da Estrella	25.51	647.9	30.17	766.3	58.8	14.9	57	nnw.	9.4	4.2			2			0.118	3.0		
RUSSIAN.																			
Akmolinski	28.88	733.5	29.92	759.9	69.4	20.8	23	n.	11	5		3 ck	0			0	0		
Archangel	29.98	761.4	30.00	761.9	63.1	17.3	60	nnw.	2	1			10			0.087	2.2		Major K. Lasarew.
Astrakhan	29.89	759.2	29.81	757.1	83.3	28.5	52	se.	11	5			9 s;n			0	0		Capt. Sselliwerstow.
Barnaul	29.22	742.3	29.72	754.8	52.2	11.2	88	sw.	9	4			10			0	0		Capt. Wisganow.
Dorpat	29.89	759.3	30.13	765.3	66.6	19.2	51	ese.	4	2		0	4 k			0	0		Meteorological Obs'y.
Ekaterinburg	29.21	742.0	30.13	765.4	78.6	25.9	42	calm	0	0		0	1 ks			0	0		Observatory.
Irkutsk	28.19	716.1	29.81	757.2	53.1	11.7		nnw.					10			0.024	0.6		Meteorological Obs'y.
Kasan	29.70	754.3	29.95	760.6	87.6	30.9	29	s.	11	5		c	9 k			0	0		Observatory.
Kertch	29.66	753.4	29.68	753.9	68.5	20.3	89	n.	4	2			9 n			blank	blank		Lagorio & Sastyrex.
Kieff	29.28	743.8	29.89	759.3	70.7	21.5	54	nne.	4	2		c;ck	7 k;ks			0	0		Observatory.
Lugan	29.47	748.6	29.67	753.6	80.1	26.7	50	wnw.	9	4			6			0.185	4.7		Meteorological Obs'y
Moscow	29.44	747.7	29.89	759.2	70.3	21.3	54	n.	4	2			8 ks						Meteorological Obs'y.
Nikolaiev	29.73	755.1	29.80	756.9	81.5	27.5	34	ne.	18	8		0	4 kn			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.67	753.7	29.76	755.9	55.2	12.9	91	calm	0	0			10			0.087	2.2		Lieut. Iwanow.
Pekin, China	29.27	743.5	29.41	747.1	92.8	33.8	27	s.	7	3		0	6 k			blank	blank		Physical Observatory
St. Petersburg	30.11	764.9	30.13	765.3	61.9	16.6	46	nw.	11	5		0	2 k			0	0		Central Physical Obs'y
Semipalatinsk	29.19	741.5	29.84	758.0	55.8	13.2	47	nw.	2	1		0	8			0.106	2.7		Major Lasarew.
Tashkend, Laboratory	28.32	719.3	29.78	756.4	88.5	31.4	55	calm	0	0			0						Teich, A. M.
Tiflis	28.34	719.7	29.65	753.2	89.4	31.9	38	s.	4	2		0	5 k			0	0		Physical Observatory
Vladivostock	29.54	750.4			56.8	13.8	95	se.	22	10		0	8 n						
Warsaw	29.54	750.3	29.95	760.6	72.5	22.5	38	s.	16	7		cs	8 k						Astronomical Obs'y
Wilna	29.67	753.5	30.07	763.8	70.7	21.5	43	se.	2	1			6			0	0		Berg, Assistant.
SPANISH.																			
Barcelona, Met. Obs'y	29.95	760.7	30.05	763.3	73.9	23.3	61	sw.	5.1	2.3			1			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.17	766.3	30.23	767.8	70.9	21.6	63	nw.	2.2	1.0			10			0.051	1.3	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.27	692.7	30.17	766.2	67.6	19.8	67	ne.	5.4	2.4			4			0	0	light clouds	Domingo Martin.
Madrid, Royal Obs'y	27.92	709.1	30.05	763.3	78.8	26.0	41	se.	5.1	2.3		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.94	760.5	30.08	764.1	84.9	29.4	39	ene.	2.0	0.9		0	0			0	0	clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.35	745.5	30.25	768.3	61.9	16.6	86	calm	0	0			10			0.004	0.1	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	29.95	760.8	30.02	762.4	79.8	26.6	81	se.	2.2	1.0		3 c;cs	0	n.		0.083	2.1	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.86	758.4	29.91	759.8	81.5	27.5	80	se.	4.4	2.0			9 ck		e.	0.335	8.5	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.10	764.4	30.19	766.8	72.9	22.7	62	w.	8.9	4.0		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.99	761.7	30.08	764.0	81.0	27.2	91	sw.	11.0	4.9		3 k	2 kn	sw.	sw.	0.138	3.5	d. clouds	Manuel Maese.
Tuguegarao, Philippine Id's	29.77	756.1	29.90	759.4	83.0	28.3	72	nnw.	2.9	1.3		0	8 ks		sw.	0.05	1.3	covered	José L. Yrastorza.
SWEDISH																			
Haparanda	30.06	763.6	30.10	764.6	56.5	13.6	62	sw.			2		8			0	0		
Umea	30.05	763.3	30.10	764.6	60.8	16.0	37	s.			2		3			0	0		
Hernosand	30.02	762.5	30.07	763.8	50.7	10.4	76	e.			4		5			0	0		
Stockholm	29.88	758.9	30.06	763.4	58.6	14.8	56	se.			6		10			0	0		
Wisby	29.89	759.3	29.95	760.8	61.9	16.6	51	ese.			6		5			0	0		
Sub-series.																			
Upsala	29.93	760.1	30.01	762.3	61.3	16.3	53	se.	11.2	5.0			9		sse.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.66	728.0	30.08	764.0	56.8	13.8	64	ssw.			4					0.173	4.4	clouds	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Scottish.																			
Monach Lt			29.83	757.7	58	14.4	93	n.			3	5	3	n.		0	0	hazy	J. Youngclause.
North Unst			29.85	758.2				e.			2	3	4	se.					
Turkish.																			
Constantinople			29.93	760.2	61.5	16.4	85	nnw.	14.5	6.5			10		n.	0.209	5.3		The Observatory.
Valona			30.08	764.1	71.8	22.1		nw.			1		10			0	0	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.86	758.5	81.5	27.5	60	sw.			3	0	2 k		sw.	0	0		Prof. C. V. A. van Dyck.
United States.																			
Albany, New York	29.56	750.8	29.64	752.8	76	24.4	74	s.	5	2.2		2 c	0			0.25	6.3	clear	J. O. Barnes.
Alpena, Michigan	29.09	738.9	29.74	755.4	48	8.9	77	nw.	16	7.2			10 s		nw.	0.88	22.4	cloudy	Jas. J. Fitzgerald.
Atlanta, Georgia	28.73	729.7	29.88	758.9	73.0	22.8	90	s.	2	0.9		8 k	0			0.04	1.0	cloudy	H. Hall.
Atlantic City, New Jersey	29.69	754.1	29.70	754.4	67.4	19.7	87	s.	10	4.5		2 cs	0			0	0	clear	Jas. M. Watson.
Augusta, Georgia	29.71	754.6	29.90	759.4	73	22.8	87	calm	0	0		5 k	5 s	sw.	sw.	0.75	19.0	cloudy	John Healy.
Baltimore, Maryland	29.64	752.8	29.69	754.1	77	25.0	76	s.	4	1.8		9 cs	0	w.		0	0	cloudy	Robert Seyboth.
Barnegat, New Jersey	29.69	754.1	29.71	754.6	68.0	20.0	78	s.	13	5.8		0	0			0	0	clear	Chas. F. Merritt.
Behring Island, Behring Sea	29.60	751.8	29.62	752.3	39.5	4.2		nw.	8	3.6			fg.			0.06	1.5	dense fog	Dr. L. Steineger.
Bismarck, Dakota	28.13	714.5	29.88	758.9	53	11.7	80	e.	8	3.6		1 c	0			0.15	3.8	clear	Cyrus Cramer.
Boise City, Idaho	26.94	684.3	29.72	754.9	53	11.7	61	w.	10	4.5		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.58	751.3	29.73	755.1	58.0	14.4	100	e.	4	1.8			fg.			0.22	5.6	dense fog	O. B. Cole.
Brownsville, Texas	29.78	756.4	29.82	757.4	79.7	26.5	91	s.	4	1.8		0	0			0	0	clear	M. McCarty.
Buffalo, New York	28.89	733.8	29.63	752.6	62.2	16.8	92	sw.	9	4.0		0	9ks;s		sw.	0.64	16.3	cloudy	Wm. Finn.
Burlington, Vermont	29.30	744.2	29.59	751.6	72.3	22.4	81	s.	15	6.7		5 ck;c	0	nw; sw		0.01	0.3	fair	G. C. Schaeffer.
Cairo, Illinois	29.53	750.0	29.92	760.0	69.7	20.9	77	n.	10	4.5		1 k	0	n.		inap.	inap.	clear	W. H. Ray.
Campo, California	27.36	694.9	29.84	757.9	42	5.6	76	nw.	2	0.9		0.	0			0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.15	689.6	29.78	756.4	55	12.8	90	s.			1	0	0			0.08	2.0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	29.76	755.9	29.78	756.4	78	25.5	76	sw.	14	6.3		2 ck	0			0.25	6.3	clear	A. K. Alderson.
Cape May, New Jersey	29.69	754.1	29.72	754.6	70	21.1	84	s.	14	6.3		5 k	hz.	w.		0	0	fair	W. Bolton.
Cedar Keys, Florida	29.98	761.5	30.00	762.0	80	26.7	74	w.	11	4.9		9 ck	1 ks		w.	0	0	cloudy	F. W. Mixer.
Champaign, Illinois	29.09	738.9	29.88	758.9	53.8	12.1	74	nw.	18	8.0			10 ks		nw.	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	29.82	757.4	29.87	758.7	78	25.6	90	w.	10	4.5		0	8 ks		w.	4.06	103.1	cloudy	J. H. Smith.
Charlotte, N. Carolina	28.97	735.8	29.80	756.9	73.0	22.8	82	w.	2	0.9		4 k	6 ks	w.	w.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.06	738.1	29.87	758.7	74.0	23.3	87	calm	0	0		4 cs	fg.	w.		0.41	10.4	fair	B. L. Goulding.
Cheyenne, Wyoming	23.90	607.0	29.64	752.8	56.2	13.4	67	s.	14	6.3			10 s		s.	0.01	0.3	cloudy	E. McGovern.
Chicago, Illinois	29.23	742.4	29.92	760.0	50.1	10.1	72	n.	14	6.3		10 k	0	n.		inap.	inap.	cloudy	J. Mitchell.
Chincoteague, Virginia	29.73	755.1	29.75	755.6	71	21.7	90	s.	10	4.5		3 c	4 ks	sw.	w.	0	0	fair	V. P. Temple.
Cincinnati, Ohio	29.12	739.6	29.78	756.4	71.5	21.9	65	nw.	10	4.5		0	0			0	0	clear	R. B. Watkins.
Cleveland, Ohio	28.99	736.3	29.72	754.9	63	17.2	73	w.	16	7.2			10 k		w.	0.01	0.3	cloudy	J. B. Newlin.
Coleman City, Texas	28.05	712.5	29.80	756.9	70	24.4	79	sw.	8	3.6		6 cs	0			0	0	fair	L. Dorman.
Columbus, Ohio	28.88	733.5	29.72	754.9	70	21.1	62	nw.	16	7.2		0	0			0	0	clear	D. Cuthbertson.
Concho, Texas	27.93	709.4	29.80	756.9	78	25.6	71	calm	0	0		0	9 s			0	0	cloudy	W. W. McConihe.
Davenport, Iowa	29.36	745.7	30.00	762.0	52	11.1	66	ne.	6	2.7			10 s		ne.	0	0	cloudy	R. R. Martin.
Dayton, Washington T'y	28.10	713.7	29.84	757.9	45	7.2	76	sw.	8	3.6		7 k	0	sw.		0.03	0.8	fair	H. Clifford.
Deadwood, Dakota	25.19	639.8	29.62	752.3	54	12.2	72	sw.	10	4.5		7 k	0	w.		0	0	fair	G. W. Scott.
Decatur, Texas					78	25.6	54	s.	14	6.3		6ck;0s	0	s.		0.01	0.3	fair	D. J. Carr.
Delaware Breakwater, Del.	29.69	754.1	29.71	754.6	75	23.9	90	sw.	19	8.5		6 c	hz.	sw.		0	0	fair	F. C. Pratz.
Denison, Texas	28.99	736.3	29.77	756.1	78.3	25.7	82	s.	14	6.3		5 cs	0			0	0	fair	J. McGlone.
Denver, Colorado	24.56	623.8	29.60	751.8	62.0	16.7	78	sw.	2	0.9			10 s		sw.	0.10	2.5	cloudy	F. M. Neal.
Des Moines, Iowa	29.17	740.9	30.05	763.3	48	8.9	77	ne.	8	3.6		0	0			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.01	736.8	29.70	754.4	59.0	15.0	75	w.	15	6.7			10 s		w.	0.01	0.3	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.35	694.7	29.86	758.4	63	17.2	73	se.	12	5.4			10 s		se.	0	0	cloudy	E. A. Thomas.
Dubuque, Iowa	29.29	744.0	29.98	761.5	53.8	12.1	61	n.	6	2.7		0	0			0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.37	746.0	30.06	763.5	48.6	9.2	78	nw.	1	0.4		0	0			0.50	12.7	clear	N. B. Conger.
Eagle Pass, Texas	29.06	738.1	29.85	758.2	79.4	26.3	82	se.	5	2.2			10 s		nw.	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.03	635.8	29.62	752.3	58	14.4	58	calm	0	0		4 cs	2 s	s.		0	0	fair	J. M. Clifford.
Eastport, Maine	29.69	754.1	29.76	755.9	53.0	11.7	93	s.	7	3.1			fg.		s.	0.54	13.7	dense fog	D. C. Murphy.
El Paso, Texas	26.17	664.7	29.76	755.9	67	19.4	84	nw.	5	2.2		2 c	0			0.06	1.5	clear	J. F. Marshall.
Erie, Pennsylvania	28.93	734.8	29.65	753.1	68	20.0	78	sw.	14	6.3		10 k;c	0	sw.		0.01	0.3	cloudy	Peter Wood.
Escanaba, Michigan	29.25	742.9	29.90	759.4	47	8.3	77	n.	15	6.7		0	5 s		n.	1.94	49.3	fair	C. Dill.
Fort Apache, Arizona	24.98	634.5	29.72	754.9	52	11.1	86	e.	2	0.9		0	0			0.76	19.3	clear	W. C. Barnes.
Fort Assinnaboine, Montana	26.79	680.5	29.58	751.3	58	14.4	64	ne.	6	2.7		0	9 s		e.	0	0	cloudy	B. O. Lenoir.
Fort Bennett, Dakota	28.36	720.3	29.90	759.4	55	12.8	86	se.	6	2.7		3 k	2 s	calm	calm	0	0	fair	A. Pritchard.
Fort Benton, Montana	26.82	681.2	29.59	751.6	58	14.4	60	w.	9	4.0		0	3 s			0	0	clear	G. W. Davis.
Fort Buford, Dakota	27.85	707.4	29.81	757.2	53	11.7	74	e.	10	4.5		0	0			0	0	clear	A. H. Bell.
Fort Custer, Montana	26.42	671.1	29.48	748.8	57	13.9	83	se.	4	1.8		0	6 s		calm	0	0	fair	V. Verge.
Fort Davis, Texas	25.10	637.5	29.71	754.6	64	17.8	84	s.	5	2.2			10 s		calm	0.53	13.5	cloudy	J. Williams.
Fort Elliott, Texas	27.11	688.6	29.78	756.4	65	18.3	78	ne.	4	1.8			10 s		ne.	0	0	cloudy	W. J. Cundall.
Fort Grant, Arizona	25.14	638.5	29.68	753.9	54.5	12.5	49	n.	8	3.6		0	0			0.15	3.8	clear	Robert C. Lord.
Fort Keogh, Montana	27.18	690.4	29.61	752.1	58	14.4	72	se.	17	7.6		3 c	0	sw.		0	0	clear	W. B. Stockman.
Fort Macon, North Carolina	29.84	757.9	29.85	758.2	75	23.9	90	sw.	11	4.9			10 ks		sw.	0.09	2.3	cloudy	W. W. Thomas.
Fort McKavett, Texas	27.67	702.8	29.87	758.7	77	25.0	79	calm	0	0			9 ks		w.	0	0	cloudy	J. E. Thatcher.
Fort Missoula, Montana	26.46	672.1	29.72	754.9	50	10.0	86	nw.	2	0.9			10 n			0.07	1.8	light rain	J. H. Jones.
Fort St. Michaels, Alaska	30.33	770.4	30.36	771.1	45	7.2	92	ne.	4	1.8			fg.		ne.	0	0	dense fog	A. P. Leavitt.
Fort Shaw, Montana	26.05	661.7	29.62	752.3	50	10.0	74	w.	5	2.2		3 k	0	w.		0	0	clear	A. L. Mathews.
Fort Sill, Indian Territory	28.61	726.7	29.81	757.2	73.2	22.9	71	n.	12	5.4			10 s		n.	0	0	cloudy	T. Cleary.
Fort Smith, Arkansas	29.41	747.0	29.87	758.7	74.5	23.6	76	e.	3	1.3			10 s		s.	inap.	inap.	cloudy	J. B. Campbell.
Fort Stevenson, Dakota	28.07	713.0	29.87	758.7	55	12.8	80	se.	9	4.0		0	0			0.05	1.3	clear	W. Burrows.
Fort Verde, Arizona					60.8	16.0	62	s.			1	0	0			0.71	18.0	clear	D. Brooks.
Fort Washakie, Wyoming	24.20	614.7	29.58	751.3	55.0	12.8	69	w.	5	2.2			8 k			0	0	cloudy	T. M. Ambler.
Fredericksburg, Texas	28.14	714.7	29.82	757.4	73	22.8	84	sw.	2	0.9		5 cs	0			0	0	fair	H. S. Miles.
Galveston, Texas	29.84	757.9	29.89	759.2	81	27.2	87	s.	12	5.4		0	hz.			0	0	clear	E. O'C. MacInerney.
Grand Haven, Michigan	29.18	741.2	29.83	757.7	49.5	9.7	71	nw.	20	8.9			10 s		nw.	0	0	cloudy	W. A. Reid.
Hatteras, North Carolina	29.83	757.7	29.85	758.2	77	25.0	85	sw.	22	9.8		hz.	7 ks		s.	inap.	inap.	fair	R. M. Crawford.
Helena, Montana	25.48	647.2	29.60	751.8	58	14.4	44	sw.	16	7.2		5 k	0	sw.		0	0	fair	S. Wheaton.
Henrietta, Texas	28.83	732.3	29.81	757.2	77.0	25.0	82	nw.	10	4.5			10 s			0	0	cloudy	J. W. Byram
Huron, Dakota	28.63	727.2	29.97	761.2	49.8	9.9	77	e.	6	2.7		5 k	0	e.		0	0	fair	S. W. Glenn.
Indianapolis, Indiana	29.04	737.6	29.82	757.4	59.5	15.3	65	nw.	10	4.5		0	9 ks		nw.	0.12	3.0	cloudy	O. Schutze
Indianola, Texas	29.85	758.2	29.88	758.9	81.3	27.4	91	se.	6	2.7		0	2 k		s.	0	0	clear	I. A. Reed.
Jacksboro, Texas	28.66	728.0	29.78	756.4	81	27.2	67	sw.	2	0.9		6 cs	0	s.		0	0	fair	J. P. Sherry.
Jacksonville, Florida	29.94	760.5	29.98	761.5	82	27.8	74	sw.	7	3.1		5 cs	0	sw.		0	0	fair	J. W. Smith.
Keokuk, Iowa	29.35	745.5	29.99	761.7	53.0	11.7	69	n.	10	4.5			10 s		n.	0.01	0.3	cloudy	F. Z. Gosewisch
Key West, Florida	30.00	762.0	30.02	762.5	82.0	27.8	74	sw.	7	3.1		0	5 ks		sw.	0	0	fair	R. H. Paxton.
Kittyhawk, North Carolina	29.81	757.2	29.83	757.7	79.5	26.4	80	sw.	18	8.0		4 ck	1 s	sw.	sw	0	0	fair	E. A. Beals.
Knoxville, Tennessee	28.85	732.8	29.86	758.4	71	21.7	84	sw.	2	0.9		2 ck	0	w.		0.03	0.8	clear	J. A. Cody.
La Crosse, Wisconsin	29.27	743.4	30.03	762.7	51	10.6	66	n.	6	2.7		0	0			0.11	2.8	clear	S. C. Emery.
La Mesilla, New Mexico	26.02	660.9	29.74	755.4	63.0	17.2	73	calm	0	0		1 k	0			inap.	inap.	clear	N. D. Lane.
Leavenworth, Kansas	29.13	739.9	30.00	762.0	58	14.4	74	ne.	5	2.2		0	0			0.14	3.6	clear	A. W. Browne.
Lewiston, Idaho	28.97	735.8	29.79	756.7	56	13.3	45	w.	12	5.4		0	0			0.01	0.3	clear	W. Bell.
Little Rock, Arkansas	29.58	751.3	29.89	759.2	72	22.2	90	nw.	6	2.7		0	9 s			0.55	14.0	cloudy	W. U. Simmons.
Los Angeles, California	29.60	751.8	29.99	761.7	57.3	14.1	86	ne.	3	1.3			10 s		calm	0	0	cloudy	E. F. Kubel.
Louisville, Kentucky	29.24	742.7	29.78	756.4	70	21.1	70	nw.	7	3.1		0	6 k			0.11	2.8	fair	H. C. Smyth.
Lynchburg, Virginia	29.08	738.6	29.74	755.4	75.0	23.9	76	s.	1	0.4			10 s		sw.	inap.	inap.	threatening	W. R. Bushby.
Madison, Wisconsin	28.98	736.1	29.97	761.2	47	8.3	86	n.	20	8.9		0	0			0.01	0.3	clear	C. A. Shaw.
Marquette, Michigan	29.25	742.9	29.97	761.2	48	8.9	71	nw.	20	8.9		1 c	0	w.		1.44	36.6	clear	J. Gilligan.
Memphis, Tennessee	29.56	750.8	29.89	759.2	74	23.3	90	w.	5	2.2			10 s		w.	1.42	36.1	cloudy	D. T. Flannery.

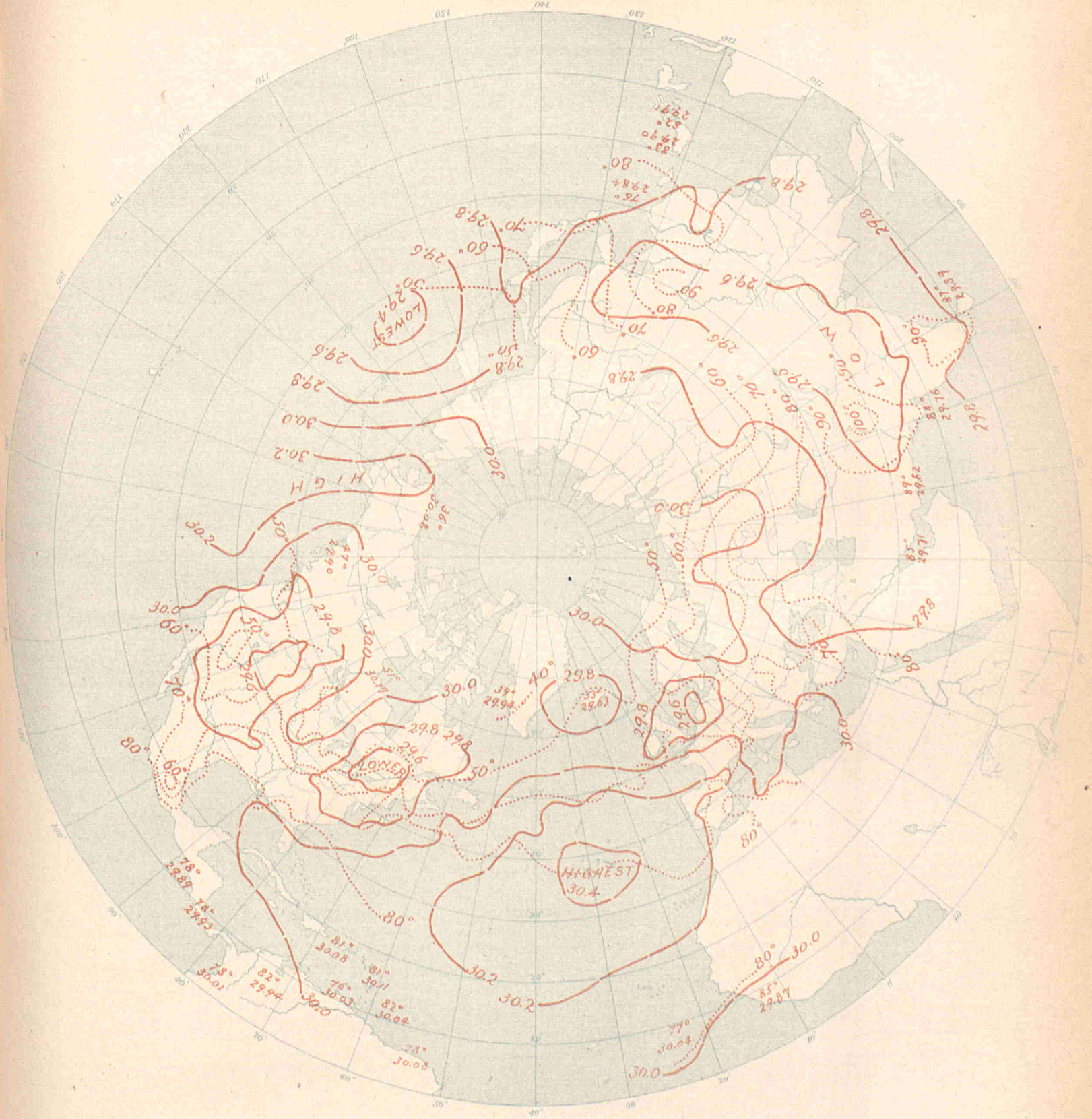
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	29.18	741.2	29.92	760.0	50	10.0	72	nw.	14	6.3			10 s		nw.	0.01	0.3	cloudy	W. Line.
Mobile, Alabama	29.95	760.7	29.99	761.7	79	26.1	88	w.	4	1.8			10 s		w.	0	0	cloudy	J. D. Paxton.
Montgomery, Alabama	29.69	754.1	29.92	760.0	80	26.7	82	sw.	7	3.1			10 s			0	0	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	29.04	737.6	30.00	762.0	51	10.6	80	se.	3	1.3		0	0			0.25	6.3	clear	H. Bessant.
Morgantown, W. Virginia	28.75	730.2	29.75	755.6	69.5	20.8	79	sw.	5	2.2			10 n		sw.	0.08	2.0	light rain	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.67	601.2	29.79	756.7	52.5	11.4	96	nw.	48	21.5			fg.		nw.	0.50	12.7	dense fog	J. G. Linsley.
Nashville, Tennessee	29.30	744.2	29.82	757.4	73.5	23.1	83	w.	5	2.2		0	9 ks		w.	0.63	16.0	cloudy	L. A. Jesunofsky.
New Haven, Connecticut	29.59	751.6	29.70	754.4	69	20.6	90	se.	3	1.3		1 k	sk.			0.05	1.3	clear	J. H. Sherman.
New London, Connecticut	29.69	754.1	29.74	755.4	68	20.0	90	se.	3	1.3		7 k	fg.			0.03	0.8	fair	J. G. Lynch.
New Orleans, Louisiana	29.92	760.0	29.98	761.5	80.5	26.9	81	s.	4	1.8		8 cs	2 s		s.	0	0	cloudy	L. Dunne.
Newport, Rhode Island	29.69	754.1	29.74	755.4	67.0	19.4	84	s.	3	1.3		3 c	0		w.	0.04	1.0	clear	W. McGillivray.
New River, N. Carolina					74	23.3	92	sw.			1		10 s			0.23	5.8	threatening	C. C. Corbin.
New Shoreham, Rhode I'd	29.71	754.6	29.74	755.4	68.0	20.0	90	sw.	14	6.3		2 c	0		s.	0	0	clear	W. Davis.
New York, New York	29.53	750.0	29.70	754.4	74.2	23.4	76	se.	4	1.8		1 cs	0			0	0	clear	J. B. Merrill.
Norfolk, Virginia	29.75	755.6	29.78	756.4	78	25.6	88	sw.	14	6.3		3 ck	4 s	sw.	sw.	0	0	fair	J. T. Elker.
North Platte, Nebraska	27.06	687.3	29.86	758.4	59.6	15.3	76	se.	14	6.3			10 s		s.	0	0	cloudy	E. F. Brady.
Olympia, Washington T'y	29.80	756.9	29.84	757.9	50.0	10.0	86	s.	7	3.1		0	9 s		sw.	inap.	inap.	cloudy	J. Dascomb.
Omaha, Nebraska	28.90	734.0	30.04	763.0	56.7	13.7	67	e.	8	3.6		2 c	0			0	0	clear	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.06	763.5	30.08	764.0	36.4	2.4	100	sw.	13	5.8			10 s		sw.	0.01	0.3	cloudy	P. H. Ray.
Oswego, New York	29.25	742.9	29.57	751.1	67.0	19.4	90	s.	6	2.7			10 n		w.	0.54	13.7	light rain	S. W. Beall.
Palestine, Texas	29.38	746.2	29.92	760.0	77.0	25.0	90	sw.	6	2.7		8 ck	0	sw.		0	0	fair	L. M. Pindell.
Pensacola, Florida	29.96	761.0	29.99	761.7	80.7	27.1	85	w.	4	1.8			10 s		w.	0	0	cloudy	M. McGauran.
Philadelphia, Pa.	29.59	751.6	29.69	754.1	77	25.0	76	sw.	6	2.7		0	0			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.78	451.6	29.60	751.8	30	— 1.1	100	sw.	20	8.9			fg.		sw.	0.02	0.5	dense fog	L. M. Dey.
Pioche, Nevada	23.89	606.8	29.69	754.1	44.8	7.1	89	e.	1	0.4			10 n		s.	1.07	27.2	light rain	C. N. Kitchel.
Pittsburg, Pennsylvania	28.88	733.5	29.67	753.6	68.4	20.2	90	w.	8	3.6			10 n		w.	0.25	6.3	thund'r st'm	J. H. Bryce.
Poplar River, Montana	27.63	701.8						se.			1	0	0			0	0	clear	U. D. Maxwell.
Port Eads, Louisiana	30.00	762.0	30.00	762.0	78.0	25.6	90	sw.	9	4.0			10 s			0	0	cloudy	H. G. Christian.
Port Huron, Michigan	29.01	736.8	29.68	753.9	51.3	10.7	100	n.	20	8.9			10 n			0.48	12.2	light rain	W. O. Bailey.
Portland, Maine	29.67	753.6	29.72	754.9	62.0	16.7	93	se.	4	1.8			10s; fg			0.50	12.7	cloudy	W. W. Eichelberger.
Portland, Oregon	29.83	757.7	29.90	759.4	51.0	10.6	86	s.	4	1.8			10 s		s.	inap.	inap.	cloudy	M. L. Hearne.
Portsmouth, N. Carolina																			F. P. Chaffee.
Prescott, Arizona	24.66	626.4	29.68	753.9	48	8.9	61	s.	2	0.9		0	0			0.45	11.4	clear	J. Mc N. Wright.
Provincetown, Mass.	29.72	754.9	29.75	755.6	67	19.4	90	s.	7	3.1		2 cs	2 s	w.		0.09	2.3	fair	P. T. Jenkins.
Punta Rassa, Florida	30.00	762.0	30.01	762.2	81	27.2	69	sw.	6	2.7		8 c	0	n.		c	0	cloudy	W. J. Evans.
Red Bluff, California	29.47	748.5	29.83	757.7	60.0	15.6	75	s.	4	1.8		0	1 s			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.64	752.8	29.87	758.7	82	27.8	74	se.	2	0.9		0	0			0	0	clear	P. M. Wilson.
Rochester, New York	28.93	734.8	29.58	751.3	67	19.4	93	sw.	11	4.9			10 n		w.	0.86	21.8	light rain	E. W. McGann
Roseburg, Oregon	29.44	747.8	29.99	761.7	50	10.0	74	calm	0	0		0	9 ks		w.	0	0	cloudy	J. J. Nanry.
Sacramento, California	29.77	756.1	29.84	757.9	58.1	14.5	75	s.	15	6.7		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.38	746.2	29.97	761.2	55.5	13.1	94	n.	17	7.6			10 s		nw.	0	0	cloudy	J. H. Webber.
St. Paul, Minnesota	29.18	741.2	30.03	762.7	47.0	8.3	86	calm	0	0		0	0			0.09	2.3	clear	P. F. Lyons
St. Vincent, Minnesota	29.14	740.1	29.99	761.7	47	8.3	77	se.	7	3.1		0	0			0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.38	644.6	29.60	751.8	58	14.4	64	se.	16	7.2			10 ks		sw.	0	0	threatening	J. Craig.
San Antonio, Texas	29.17	740.9	29.85	758.2	79	26.1	88	calm	0	0			10 ks		sw.	0	0	cloudy	E. Lane.
San Diego, California	29.88	758.9	29.95	760.7	62.4	16.9	69	e.	4	1.8			10 s			0	0	cloudy	A. O. Dobbins.
Sandusky, Ohio	29.04	737.6	29.71	754.6	62	16.7	68	w.	33	14.8		0	0			0.54	13.7	clear	M. H. Perry.
Sandy Hook, New Jersey	29.65	753.1	29.69	754.1	69.0	20.6	84	sw.	7	3.1		0	0			0	0	clear	B. A. Blundon.
San Francisco, California	29.84	757.9	29.91	759.7	55	12.8	90	sw.	10	4.5			fg.		sw.	0.02	0.5	dense fog	N. Gorom.
Santa Fé, New Mexico	23.18	588.8	29.69	754.1	57	13.9	72	s.	3	1.3		5 k	5 s	sw.	sw.	0.07	1.8	cloudy	H. U. Jones.
Savannah, Georgia	29.82	757.4	29.91	759.7	80	26.7	79	sw.	8	3.6		7 ck	0	sw.		1.05	26.7	fair	H. W. Ford.
Shreveport, Louisiana	29.70	754.4	29.92	760.0	78	25.6	88	s.	4	1.8		0	9 k		s.	0	0	cloudy	E. N. Meekins.
Silver City, New Mexico	24.24	615.7	29.74	755.4	54	12.2	64	nw.	4	1.8		0	0			0.03	0.8	clear	J. B. Wallace.
Sitka, Alaska	29.84	757.9	29.90	759.4	47.1	8.4	86	calm	0	0			fg		calm	0	0	dense fog	J. J. McLean.
Smithville, North Carolina	29.84	757.9	29.88	758.9	73	22.8	90	sw.	26	11.6			10 s		w.	0.08	2.0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.72	704.1	29.76	755.9	49	9.4	93	s.	10	4.5			10 s		s.	0.10	2.5	cloudy	D. Moore.
Springfield, Illinois	29.29	744.0	29.96	761.0	54	12.2	74	n.	12	5.4			10 s		ne.	inap.	inap.	cloudy	T. B. Jennings.
Springfield, Massachusetts	29.57	751.1	29.70	754.4	69.2	20.7	93	s.	4	1.8			10s; fg		s.	0.33	8.4	cloudy	T. S. Outram.
Springfield, Mo.	28.53	724.6	29.99	761.7	67	19.4	73	ne.	3	1.3		5 c	0			0	0	fair	J. B. Marbury.
Starkville, Miss.	29.43	747.5	29.90	759.4	75	23.9	82	sw.	16	7.2			10 n		w.	0.80	20.3	light rain	M. J. Wright.
Stockton, Texas	26.84	681.7	29.76	755.9	69.0	20.6	90	sw.	12	5.4			10 s		calm	0.03	0.8	cloudy	J. O'Dowd.
Thatcher's Island, Mass.	29.69	754.1	29.74	755.4	59.0	15.0	96	se.	4	1.8			fg.			0	0	dense fog	G. Liebmann
Toledo, Ohio	29.03	737.3	29.71	754.6	63	17.2	63	w.	14	6.3			10 ks		w.	0	0	cloudy	A. Buell.
Tucson, Arizona	27.48	698.0	29.78	756.4	61	16.1	48	e.	3	1.3		0	0			0.01	0.3	clear	J. L. Whiteside.
Umatilla, Oregon	29.53	750.0	29.89	759.2	51	10.6	59	sw.	16	7.2		1 cs	0			inap.	inap.	clear	J. Daly.
Uvalde, Texas	28.89	733.8	29.83	757.7	79	26.1	82	se.	2	0.9			10 s		se.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.69	754.1	29.94	760.5	79	26.1	82	s.	4	1.8			10 s		sw.	0	0	cloudy	H. P. Brisbane.
Visalia, California	29.50	749.3	29.88	758.9	63	17.2	52	nw.	1	0.4		0	0			0	0	clear	W. L. Seward.
Washington, D. C.	29.58	751.3	29.69	754.1	78.0	25.6	77	s.	6	2.7		5 c	0	w.		0	0	fair	B. M. Purssell.
West Las Animas, Colorado	25.93	658.6	29.71	754.6	62.4	16.9	81	se.	21	9.4			10 s		se.	0	0	threatening	F. W. Brandenburg.
Williamsport, Pa.	29.05	737.9	29.65	753.1	72	22.2	87	w.	1	0.4			10 ks		sw.	0	0	threatening	B. F. Hough.
Wilmington, N. Carolina	29.81	757.2	29.86	758.4	75	23.9	85	sw.	11	4.9			10 n		s.	0.15	3.8	light rain	A. T. Sherwood.
Winnemucca, Nevada	25.40	645.1	29.66	753.4	55	12.8	49	se.	4	1.8		0	0			0	0	clear	J. R. Williams.
Yankton, Dakota	28.74	730.0	30.02	762.5	55	12.8	62	se.	3	1.3		4 cs	0			inap.	inap.	fair	J. H. Atfield.
Yuma, Arizona	29.61	752.1	29.75	755.6	65.0	18.3	56	se.	2	0.9		0	1 s		se.	0.05	1.3	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.03	559.6			54.0	12.2	77	calm	0	0			10ks; s		sw.	0.01	0.3	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.03	762.7	30.04	763.0	82	27.8	91	ne.				5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.98	761.5	30.01	762.2	78	25.6	86	calm	0	0		4 c	0	s.		0	0	fair	J. I. Plume.
Havana, Cuba, W. I.	30.04	763.0	30.09	764.3	82	27.8	91	se.	1.2	0.5		5 cs	0			inap.	inap.	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.00	762.0	30.01	762.2	82.0	27.8	71	ese.	4	1.8		9 cs	1 s		e.	0	0	cloudy	Robert Johnston.
Magua, San Domingo, W. I.					76	24.4		e.			2	3 cs	0	se.		0	0		S. M. Pike.
Paramaribo, S. A.	30.08	764.0	30.08	764.0	78	25.6	86	e.			1	5 ck	5 k	e.	e.	0.200	5.1		Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.48	748.8	29.94	760.5	82	27.8	80	calm			0	9 ck	0	n.		0.83	21.1	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							100	se.			1					0.62	15.7	cloudy	Earl Flint.
Santiago de Cuba, W. I.	29.99	761.7	30.01	762.2	79	26.1	74	calm	0	0		2 c	0			0	0	fair	Robert Mason.
York Factory, B. A.	30.13	765.3	30.19	766.8	51.0	10.6	93	ne.	11	4.9		0	0			0	0	clear	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
British Naval.																		
H. M. S. Alert, Simon's Bay, Cape Colony, Africa	30.29	769.4	65	18.3	66	sw.			2		2							d. clouds.
H. M. S. Alexandra, Alexandria, Egypt	29.97	761.2	73	22.8	73	nw.			4		0					1	wnw.	misty.
H. M. S. Amethyst, Montevideo, Uruguay	29.93	760.2	56	13.3	100	ese.			1		10							drizzling.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.91	759.7	64	17.8		wnw.			3-5		10	n.						raining.
H. M. S. Arab, N. 25° 12′, E. 59° 48′	29.52	749.8	89	31.7	84	wsw.			3		0					4	s.	misty.
H. M. S. Bacchante, Corfu, Ionian Islands	30.03	762.7	75	23.9	72	ese.			1		2	ese.						d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.26	768.6	65	18.3		s.			1		2	s.						d. clouds.
H. M. S. Champion, N 20° 00′ W. 162° 15′			75	23.9		ene.			2-3		2							d. clouds.
H. M. S. Cleopatra, N. 32° 50′, E. 135° 27′	29.81	757.2	69.5	20.8	84	e.			2-3		6	se.						d. clouds.
H. M. S. Coquette, Port Said, Egypt	29.93	760.2	75	23.9		nw.			2		0							blue sky.
H. M. S. Cruiser, N. 39° 20′, E. 15° 03′	30.01	762.2	71	21.7		sse.			2		5	ssw.				3	sse.	showery.
H. M. S. Diamond, S. 10° 17′, E. 161° 38′	29.94	760.5	79.5	26.4	86	calm			0		10							overcast.
H. M. S. Dido, N. 50′, 10° W. 65° 40′	30.03	762.7	76	24.4		e.			1		4	ene.				2	ene.	d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	30.13	765.3	76.5	24.7	86	ssw.			1-2		4	ssw.						d. clouds.
H. M. S. Dwarf, S. 25° 16′, W. 57° 45′	29.74	755.4	63	17.2	100	ene.			1		10					1	n.	heavy rain.
H. M. S. Eclipse, S. 4° 37′, E. 55° 30′	29.94	760.5	80	26.7		ese.			2		2							d. clouds.
H. M. S. Emerald, S. 50° 35′ W. 55° 15′	29.61	752.1	39	3.9	100	nw.			4							3	nw.	squally.
H. M. S. Euryalus, Trincomalee, Ceylon, India	29.79	756.7	87	30.6	72	sw.			2		3	calm						d. clouds.
H. M. S. Espiegle, S. 20° 21′ E. 171° 30′	30.03	762.7	75	23.9	72	ene.			4		3					3	ene.	d. clouds.
H. M. S. Fawn, S. 25° 40′, E. 45° 03′	30.10	764.5	68.5	20.3	94	e.			4		1					3	e.	blue sky.
H. M. S. Fantome, N. 10° 28′, W. 77° 06′	29.86	758.4	80	26.7		se.			1		9	se.				2	e.	drizzling.
H. M. S. Flying Fish, N. 37° 27′, E. 126° 33′	29.68	753.9	71	21.7	85	calm			0		4							misty.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.10	764.5	50.5	10.3	89	calm			0		0							blue sky.
H. M. S. Garnet, Montevideo, Uruguay.	29.98	761.5	56	13.3	93	se.			3		10							raining.
H. M. S. Griffon, N. 48° 41′, W. 53° 49′	30.08	764.0	58	14.4	69	s.			1		1							blue sky.
H. M. S. Inconstant, N. 17° 00′ W. 22° 00′	30.02	762.5	73	22.8	85	nnw.			1-2		9	n.				3	nnw.	d. clouds.
H. M. S. Iron Duke, N. 35° 26′, E. 139° 39′	29.87	758.7	69	20.6	90	ssw.			1		3	sw.						misty.
H. M. S. Kingfisher, N. 10° 46′, W. 99° 50′	29.89	759.2	81	27.2		ne.			1		3					2	sw.	d. clouds.
H. M. S. Lark, S. 10° 40′, E. 162° 22′	29.88	758.9	82.3	27.9		ne.			2		10					2	ne.	overcast.
H. M. S. Magpie, N. 35° 19′, E. 140° 27′	29.87	758.7	68.5	20.3	93	calm			0		4					3	s.	d. clouds.
H. M. S. Minotaur, N. 37° 33′, E. 7° 16′	30.06	763.5	71	21.7	80	w.			5		3					4	w.	misty.
H. M. S. Nelson, S. 36° 11′, E. 175° 20	30.12	765.0	64	17.8	78	calm			0		4							d. clouds.
H. M. S. Northampton, Halifax, Nova Scotia	29.86	758.4	57.5	14.2	100	sse.			1									foggy.
H. M. S. Phœnix, N. 17° 43′, W. 77° 00′	29.95	760.7	81	27.2	91	e.			5		10					3	ene.	d. clouds.
H. M. S. Rambler, Benguela, Benguela	29.95	760.7	67	19.4	100	nnw.			1		0							blue sky.
H. M. S. Rocket, N. 51° 00′, W. 125° 00′	29.81	757.2	50	10.0	?	calm			0		9							d. clouds.
H. M. S. Sappho, S. 27° 00′, W. 110° 00′	30.09	764.3	68.5	20.3		w.			3		6	sw				4	s.	showery.
H. M. S. Swiftsure, N. 7° 35′, W. 23° 00′	30.04	763.0	76.5	24.7	86	var.			1-2		9	sse.				3	sse.	heavy rain.
H. M. S. Sylvia, Rio de Janeiro, Brazil	30.29	769.4	65.5	18.6	91	nw.			1		5	w.						d. clouds.
H. M. S. Tamar, N. 37° 10′, W. 9° 20′	30.25	768.3	62.5	16.9	83	nne.			4		3	nne.				1	nne.	d. clouds.
H. M. S. Tenedos, N. 47° 35′ W. 56° 20′	29.98	761.5	52	11.1	96	calm			0		10							misty.
H. M. S. Triumph, S. 31° 44′, W. 71° 42′	30.17	766.3	55	12.8	87	s.			3		2	s.				4	s.	d. clouds.
H. M. S. Tyne, N. 36° 56′, W. 8° 48′	30.08	764.0	69	20.6	84	w.			4		0					5	w.	blue sky.
H. M. S. Woodlark, N. 27° 51′ E. 50° 45′	29.61	752.1	84.5	29.2	79	nw.			3-4		0					2	nw.	blue sky.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verde Islands	30.07	763.8	77.0	25.0	92	s.			1		4					2	se.	d. clouds.
Tamega, Macao, China	29.81	757.1	84.2	29.0	88	s.			4		4							d. clouds.
United States Naval.																		
Navy Yard, Pensacola, Fla	29.93	760.2	81	27.2	83	wsw.	8	3.6			8		wsw.	0	0			fair.
Navy Yard, Portsmouth, N. H.	29.74	755.4	62	16.7	88	calm	0	0			10			0.3	8.			foggy.
Naval Hospital, Yokohama, Japan*	29.73	755.1	67.5	19.7	95	calm			0		5		e.	0.20	5.1			hazy.
Adams, Mare Island, Cal	29.88	758.9	57	13.9	94	sw.			2-3		10			0	0			cloudy.
Alaska, Callao, Peru	30.01	762.2	60	15.6	88	calm			0		10			0	0	sm'h		cloudy.
Alert, N. 42° 04′, E. 155° 22′*	29.71	754.6	53	11.7	93	n.			3		10		calm			sm'h	n.	drizzling.
Alliance, N. 38° 48′ W. 72° 45′	29.79	756.7	66	18.9	94	s.			1-2		8			0	0	sm'h		fair.
Ashuelot, Yokohama, Japan	29.84	757.9	70	21.1	95	sw.			1		8		calm					cloudy.
Brooklyn, Rio de Janeiro, Brazil	30.31	769.9	66	18.9	94	n.	1	0.4			8		calm	0.11	2.8	mod.	s.	fair.
Colorado, New York, N. Y.	29.70	754.4	74	23.3	76	sse	2	0.9			1		calm	0	0			clear.
Constellation, Annapolis, Md*	29.65	753.1	79	26.1	78	sse.			4		2		calm					clear.
Enterprise, Norfolk, Va*	29.76	755.9	78	25.6	91	ssw.			2		5		sw.					fair.
Essex, S. 49° 00′, W. 64° 15′	29.44	747.8	48	8.9	85	nnw.			4		5?		nw.			long	w.	clear.?
Franklin, Norfolk, Va.	29.80	756.9	77	25.0	91	sw.	12	5.4			5		sw.	0	0			squally.
Galena, Alexandria, Egypt	29.98	761.5	77	25.0	86	nw.			3		2					sm'h		fair.
Independence, Navy Yard, Mare Island, Cal	29.90	759.4	55	12.8	93	sw.			0		10		sw.	0	0			misty.
Iroquois, San Francisco, Cal	29.87	758.7	56	13.3	87	sw.			4		10			0	0			misty.
Kearsarge, off Norfolk, Va	29.78	756.4	77	25.0	95	ssw.			2		10		ssw.					cloudy.
Lackawanna, Paita, Peru*	29.94	760.5	61	16.1	88	se.			2		8		se.					cloudy.
Lancaster, N. 37° 07′, E. 3° 26′*	30.10	764.5	76	24.4	86	nne.			2		0			0	0	sm'h		misty.
Marion, S. 34° 53′, W. 56° 13′	29.94	760.5	55	12.8	100	ese.			1		10		light	light		sm'h		rainy.
Michigan, Detroit, Mich	29.65	753.1	59	15.0	82	nw.			4		10		nw.					cloudy.
Minnesota, Newport, R. I.	29.79	756.7	67	19.4	84	sw.	2	0.9			5		sw.					
Monocacy, Nagasaki, Japan	29.81	757.2	72	22.2	100	sw.			1		10		calm					cloudy.
New Hampshire, Newport, R. I.	29.70	754.4	71	21.7	85	sw.			3		2		sw.			sm'h		clear.
Nipsic, N. 45° 25′, E. 12° 56′	29.94	760.5	67	19.4	79	se.			3		2					sm'h		clear.
Onward, Callao, Peru†	30.09	764.3	60	15.6	88	calm			0		10					long	v	misty.
Palos, Kobe, Japan	29.84	757.9	72	22.2	90	calm			0		8		calm					fair.
Passaic, Washington, D. C.	29.73	755.1	77	25.0	95	sw.			2		2		sw.					fair.
Pensacola, Callao, Peru	29.97	761.2	59	15.0	94	calm	0	0			10			0	0	sm'h		cloudy.
Powhatan, League Island, Pa	29.69	754.1	80	26.7	78	wnw.			1		2							fair.
Portsmouth, N. 48° 57′, W. 4° 51′*	30.00	762.0	55	12.8	100	wnw.			4		2		s.			sm'h		fair.
Quinnebaug, Gibralter, Mediterranean	30.15	765.8	69	20.6	75	ssw.			5		0					sm'h		clear.
Ranger, Mare Island, Cal*	29.85	758.2	57	13.9	87	sw.			3-4		8		sw.	0	0	sm'h		cloudy.
Richmond, Nagasaki, Japan*	29.72	754.9	73	22.8	100	s.			2		10			0.08	2.0			raining.
Saratoga, N. 49° 36′ W. 4° 20′	29.96	761.0	59	15.0	70	wnw.			4-5		2		nw.	0	0	mod.	nw.	fair.
St. Louis, League Island, Pa	29.94	760.5	77	25.0	82	s	8	3.6			0			0.4	10.			clear.
Swatara, Nagasaki, Japan*	29.63	752.6	73	22.8	90	se.			2		10		calm			sm'h		light rain.
Tennessee, N. 38° 48′, W. 72° 38′	29.80	756.9	67	19.4	95	sse.	4	1.8			5?			0	0			cloudy.?
Vandalia, N. 38° 58′, W. 72° 43′*	29.73	755.1	70	21.1	90	s.			2		5		calm			long		fair.
Wabash, Boston, Mass	29.73	755.1	61	16.1	94	calm	0	0			10			0.31	7.9			foggy.
Wachusetts, Sitka, Alaska	29.82	757.4	45	7.2	100	calm			0		10		calm	0	0			foggy.
Wyoming, Port Royal, S. C.	29.88	758.9	76	24.4	91	wsw.	12	5.4			8		s.	0	0			cloudy.
Yantic, N. 38° 50′, W. 72° 40′*	29.74	755.4	68	20.0	90	s.			3		5					sm'h		misty.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 54° 05′, W. 27° 20′*	30.02	762.5	49	9.4	78	w.			4		9		wnw.	inap.	inap.	3	w.	drizzling.
S. S. Grecian, N. 51° 22′, W. 24° 17′*	30.06	763.5				w.			5		10		w.	12 h'r	12 h'r	mod.	w.	misty.
S. S. Prussian, Glasgow, Scotland *	29.57	751.1	58	14.4		nne.			2		6		se.	4 h'r	4 h'r			cloudy.
S. S. Scandinavian, N. 51° 08′ W 27° 34′*	29.99	761.7	57	13.9		sw.			4		10		sw.			mod.	sw.	drizzling.
S. S. Waldensian, N. 42° 23′, W. 58° 36′*	30.13	765.3	67	19.4		s.			3		5		sw.	0	0	light	ssw.	hazy.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, N. 39° 26′, W. 63° 16′	29.98	761.5	78	25.6	100	s.			4		5		sw.			sm'h	sw.	rainy.
S. S. Indiana, Liverpool, Engl†	29.95	760.7	62	16.7	72	nw.			4		8		nw.					cloudy.
S. S. Lord Clive, N. 40° 03′, W. 69° 08′ *†	29.80	756.9				ssw.			2		fg			0	0			foggy.
S. S. Lord Gough, N. 39° 21′, W. 64° 53′	29.92	760.0	80	26.7		ssw.			5		8		ssw.	0	0	sm'h	ssw.	cloudy.
S. S. Pennsylvania, N. 49° 34′, W. 20° 33′†	30.26	768.6	66	18.9		w.			3		2		w.			sm'h	nw.	d. clouds.
ANCHOR LINE.																		
S. S. Devonia, N. 40° 40′, W. 62° 06′†	30.07	763.8	78	25.6		sse.			2		4		sse.			short	sse.	hazy.
S. S. Ethiopa, New York, N. Y.	29.67	753.6	77	25.0	91	sw.			2		4		sw.	0	0			hazy.
S. S. Utopia, Valentia, Spain†	30.28	769.1	76	24.4	60	se			3		1		calm	0	0	sm'h		clear.
ATLAS LINE.																		
S. S. Ailsa, Savanilla, U. S. C.†	29.92	760.0	84	28.9	83	var.			1		8		ne.	12 h'r	12 h'r			overcast.
S. S. Alvena, Hamacoa, Porto Rico, W. I.†	29.97	761.2	83	28.3	79	ese.			2–3		5		se.	1 h'r	1 h'r			fine.
S. S. Alvo, N. 27° 28′, W. 74° 20′	30.10	764.5				se.			1		1		var.	rain	rain			
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 32° 45′ E. 79° 22′	30.09	764.3	55.5	13.1	80	sw.			5		5							d. clouds.
S. Baroda, S. 2° 44′, E. 94° 34′	29.91	759.7	79.3	26.3	66	nw.			1		10							squally.
British Merchant, N. 29° 48′, W. 36° 51′	30.36	771.1	75	23.9	77	e.			3–4		4							d. clouds.
S. S. Glencairn, S. 6° 35′, W. 13° 54′	30.10	764.5	81	27.2	83	s.			4		3							d. clouds.
S. S. Gordon Castle, N. 1° 24′, E. 68° 00′	29.86	758.4	88	31.1	71	calm			0		3							d. clouds.
Bkt. May Hulse, S. 54° 27′, W. 51° 08′	29.52	749.8	36.9	2.7	86	wnw.			5		10							drizzling.
S. S. Minho, N. 13° 07′, W. 26° 38′	30.07	763.8	78.8	26.0	70	ne.			2		9							overcast.
S. S. Pole Star, S. 19° 55′, W. 27° 26′	30.17	766.3	70.6	21.4	74	ssw.			5		5							blue sky.
CROMWELL LINE.																		
S. S. Hudson, N. 34° 15′, W. 76° 45′†	29.93	760.2	74	23.3		sw.			5		9		sw.	0	0	rg'h	s.	overcast.
CUNARD LINE.																		
S. S. Bothnia, N. 51° 12′, W. 14° 19′	29.96	761.0	62	16.7	77	w.			5–6		10			8 h'r	8 h'r	h'vy	w.	misty.
S. S. Gallia, N. 44° 22′ W. 40° 15′	30.18	766.6	67	19.4	95	wsw.			3					0	0	sm'h		foggy.
S. S. Scythia, N. 41° 20′ W. 62° 17′	29.93	760.2	74	23.3	?	ssw.			3		2		sw.	0	0	sl'gt	ssw.	clear.
GENERAL TRANS-ATLANTIC COMPANY																		
S. S. France, N. 43° 02′, W. 45° 16′†	29.99	761.7	71.6	22.0		calm			0	ck		e.		0	0	sm'h	wsw.	cloudy.
GUION LINE.																		
S. S. Arizona, N. 49° 52′, W. 30° 41′	30.14	765.5	60	15.6		sw.			4		10		sw.	4 h'r	4 h'r	mod.	sw.	foggy.
S. S. Wisconsin, N. 41° 10′ W. 63° 40′*	29.78	756.4	71	21.7		s.			3		2		sw.	0	0	sm'h		fair.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, New York, N. Y.†*	29.80	756.9				s.			2		3		e.	0	0			
S. S. Herder, Hamburg, Germany*†	29.61	752.1	57	13.9		s.			3		4?		w.	4 h'r	4 h'r			cloudy.?
S. S. Lessing, N. 48° 40′, W. 14° 18′	30.24	768.1	60	15.6		w.			4		10			0	0	mod.	nnw.	covered.
INMAN LINE.																		
S. S. City of Berlin, N. 40° 45′, W. 59° —	30.03	762.7				s.			5		8		sse.	0	0	mod.	s.	fair.
LAMPERT AND HOLT'S LINE.																		
S. S. Humboldt, N. 9° 18′, W. 19° 30′*	30.18	766.6	57.5	14.2	93	wsw.			4		9 8			10 h'r	10 h'r	4	nw.	drizzling.
MALLORY LINE.																		
S. S. Colorado, Galveston, Texas†	29.83	757.7	78	25.6		s.			3		0			0	0			clear.
MERCHANTS EXPRESS LINE.																		
S. S. Hermod, N. 46° 50′ W. 32° 40′*†	30.10	764.5	66.2	19.0		sw.			3		10		sw.	6 h'r	6 h'r	mod.	w.	drizzling.
MERCHANT STEAMSHIP COMPANY.																		
S. S. Glenfyne, Pernambuco, Brazil	29.55	750.6				se.			5				s.	8 h'r	8 h'r		se.	clear.
S. S. Glenapp, S. 6° 50′ W. 34° 09′*†	30.06	763.5				se.			3		3		se.	0	0	mod.	se.	fine.
NATIONAL LINE.																		
S. S. Denmark, N. 46° 10′ W. 30° 48′	30.35	770.9	64	17.8		ssw.			3		8		wnw.	0	0			cloudy.
S. S. England, N. 49° 09′, W. 25° 51′	30.38	771.6				wsw.			4		2		w.	0	0	sm'h		clear.
S. S. Greece, N. 40° 56′, W. 61° 19′	29.99	761.7				ssw.			2		5		ssw.	1 h'r	1 h'r	sm'h	nnw.	very fine.
S. S. The Queen, N. 43° 03′, W. 40° 56′*	30.15	765.8	62	16.7		ne.			1		0			3 h'r	3 h'r			
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Saratoga, N. 32° 55′, W. 76° 02′	30.16	766.1	78	25.6	90	ssw.			6		10		ssw.	4 h'r	4 h'r	mod.	s.	overcast.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, New York, N. Y*†	29.76	755.9	76	24.4	90	ne.			2									fair.
S. S. City of Puebla, Havana, Cuba, W. I.†	29.93	760.2	89	31.7		calm			0		2		se.					fine.
S. S. City of Washington, N. 31° 20′ W. 79° 15′*†	30.05	763.3	85	29.4		sw.			4		2		sw.	0	0	light	sw.	clear.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N. 49° 54′, W. 50° 48′*†	30.17	766.3	58	14.4		wnw.			4								wsw.	overcast
NORTH GERMAN LLOYD.																		
S. S. Graf Bismark, off the Isle of Wight	29.93	760.2	59	15.0		w.			5		4		w.			mod.	w.	fine.
S. S. Hermann, N. 49° 46′, W. 7° 54′†	29.92	760.0	60.8	16.0		w.			3		4		w.	5 h'r	5 h'r	mod.	wnw.	fair.
S. S. Hohenzollern, N. 48° 05′, W. 21° 02′*	30.31	769.9	65	18.3		nw.			5		9		nw.	0	0	mod.	nw.	cloudy.
S. S. Leipzig, N. 41° 01′, W 59° 26′	30.07	763.8	76.0	24.4	95	ssw.			4		2		ssw.	0	0	mod.	ssw.	clear.
S. S. Mosel, N. 49° 40′, W 12° 28′	30.13	765.3	64	17.8		w.			5		0			1 h'r	1 h'r	mod.	wnw.	hazy.
S. S. Necker, N 43° 36′, W. 41° 32′			65.0	18.3	100	ssw.			3		5		s.	0	0	sm'h	s.	foggy.
S. S. Oder, N. 51° 46′, E. 2° 30′	29.72	754.9	59.0	15.0		wnw.			6		8		nw.	3 h'r	3 h'r	mod.	wnw.	cloudy.
S. S. Ohio, Bremerhaven, Germany	29.62	752.3				sw.			5		6		sw.	3 h'r	3 h'r			drizzling.
S. S. Rhein, N. 47° 37′ W. 26° 55′	30.30	769.6				wnw.			3		5		wnw.	0	0	long	wnw.	fair.
S. S. Salier, Bremerhaven, Germany	29.79	756.7	57.2	14.0		s.			4		8		s.	0	0			cloudy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 27° 50′, E. 123° 24′*†	29.64	752.8	76	24.4	90	s.			3		5		w.	light	light	mod.	sw.	d. clouds.
S. S. Belgic, N. 47° 17′, E. 175° 02′†	29.30	744.2	50	10.0	70	se.			6		10			rain	rain	high	se.	cloudy.
S. S. Coptic, N. 40° 04′, W. 130° 25′	30.13	765.3	55.5	13.1		w.			6		2		nnw.	0	0	3	nw.	fair.
S. S. Gaelic, Yokahama, Japan†	29.82	757.4	73	22.8	85	se.			2		4?		s.			mod.	ne.	overcast?
S. S. Oceanic, N. 45° 05′, E. 167° 43′*	29.30	744.2	45	7.2	92	ne.			6		9		nw.			3	n.	overcast.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, N. 33° 26′, E. 78° 08′†	29.94	760.5				ssw.			3		10		sw.			sm'h		raining.
S. S. City of Columbus, Savannah, Ga.†	29.91	759.7				w.			3		2		w.	2 h'r	2 h'r			clear.
S. S. Seminole, off Montauk Point, Long Island,†	29.77	756.1	66	18.9	68	sw.			1		2		sw.			sm'h	sw.	clear.
OREGON IMPROVEMENT COMPANY.																		
S. S. Willametta, Seattle, Wash Ter†	29.88	758.9	55	12.8	87	s.			3		3		s.	0	0			clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, Portland, Oregon†	29.87	758.7	52	11.1	79	se.			1		10		s.					threatening.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Pedro Bay, Cal.†	29.92	760.0	61	16.1	82	ene.			2		10		e.			sm'h		cloudy.
S. S. Geo. W. Elder, Seattle, Wash. Ter†	29.89	759.2	51	10.6	86	se.			2		5					sm'h		hazy.
S. S. Idaho, N. 50° 10′, W. 125° 14′†	29.78	756.4	48	8.9	100	sse.			2		10					sm'h		foggy.
S. S. State of California, San Francisco, Cal.†	29.89	759.2	53	11.7	93	wsw.			3		10		wsw.					overcast.
S. S. Victoria, Columbia River, Oregon†	30.02	762.5	50	10.0	86	se.			2		8					sm'h		drizzling.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, S. 14° 02′, W. 170° 22′	29.99	761.7	78	25.6	61	s.			2		0			0	0	sm'h		clear.
S. S. City of Pekin, Hong Kong, China†	29.82	757.4	84	28.9	91	s.			4		5		sse.	0	0	sm'h		fair.
S. S. City of Rio de Janeiro, N. 16° 19′, W. 98° 55′*†	30.08	764.0	82	27.8	79	n.			2		4		w.	0	0	long	s.	fine.
S. S. City of Sydney, Sydney, N. S. W.†	29.79	756.7	54	12.2	74	w.			3		2		w.	0	0	sm'h		fair.
S. S. City of Tokio, N. 38° 42′, W. 131° 37′†	30.30	769.6	67	19.4	64	nne.			6		2		ne.	0	0	sm'h		fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
PACIFIC MAIL STEAMSHIP COMPANY.—CONTINUED.																		
S. S. Clyde N. 17° 14′, W. 101° 13′†	29.98	761.5	84	28.9	71	nw.			2		3		nw.	o	o	long	sw.	clear.
S. S. Colon, N. 13° 21′, W. 77° 16′†	29.83	757.7	80	26.7		e.			6		9		ne.	o	o	large	ene.	cloudy.
S. S. Granada, N. 11° 54′, W. 87° 45′†	29.89	759.2	78	25.6	65	nw.			1		8?		nw.	2 h'r	2 h'r	mod.	s.	clear?
S. S. South Carolina, Punta Arenas, Costa Rica†	29.93	760.2	78	25.6	91	nne.			2		2		ne.	o	o	sm'h		fair.
S. S. Zelandia, Auckland, New Zealand	30.19	766.8	67	19.4	79	nw.			3		10		nw.			mod.	nw.	cloudy.
QUEBEC STEAMSHIP COMPANY.																		
S. S. Bermuda, Guadaloupe, W. I†	30.11	764.8	81	27.2		e.					5		ese.	rain	rain	g'tl	s.	fine.
RED STAR LINE.																		
S. S. Nederland, N. 49° 45′, W. 7° 22′†	30.12	765.0	60	15.6		wnw.			3		10		w.	o	o	mod	w.	misty.
S. S. Rhynland, N. 49° 32′, W. 21° 01′	30.22	767.6	65	18.3	73	wsw.			5		10		wsw.	o	o	mod.	w.	cloudy.
S. S. Switzer and, N. 39° 45′ W. 61° 50′†	30.05	763.3				s.			3		8		s.	1 h'r	1 h'r	mod.	s.	fair.
S. S. Vaderland, Jersey City, N. J	29.60	751.8	76	24.4	82	sse.			1		5		s.	o	o			fair.
ROTTERDAM LINE.																		
S. S. P. Caland, N. 40° 25′ W. 46° 26′†	30.21	767.3	72.3	22.4	94	ne.			2		8 k;n		ne.			sm'h	s.	fair.
S. S. W. A. Scholten, N. 50° 00′ W. 3° 26′	29.85	758.2	55.4	13.0	85	nw.			5		7		w.	o	o			
STATE LINE.																		
S. S. State of Florida, N. 41° 23′, W. 54° 34′	29.99	761.7	66	18.9		wsw.			2		3		sw.	sh'rs	sh'rs	sm'h		hazy.
S. S. State of Georgia, N. 53° 52′, W. 17° 29′†	29.94	760.5	56	13.3		wnw.			6		8		wnw.	3 h'r	3 h'r	long	w.	drizzling.
THINGVALLA LINE.																		
S. S. Thingvalla, Brooklyn, N. Y.†	29.97	761.2	75.2	24.0		ese.			1		3		ese.	6 h'r	6 h'r			clear.
WARREN LINE.																		
S. S. Iowa, N. 42° 31′, W. 57° 36′*†	30.18	766.6	60	15.6		sse.			3		8		sse.	14 h'r	14 h'r	sl't	sse.	dense fog.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 39° 48′. W. 65° 52′	29.90	759.4									5		ssw.			3	sw.	
WHITE STAR LINE.																		
S. S. Baltic, N. 50° 43′ W. 19° 00′†	30.18	766.6	57	13.9	94	wsw.			4		10		w.	8 h'r	8 h'r	r'gh	w;nw	misty.
S. S. Celtic, Liverpool, England†	29.76	755.9	57	13.9	100	wnw.			4		8		nw.	o	o	o		fair.
S. S. Republic, N. 44° 21′ W. 44° 41′†	30.35	770.9	57	13.9	87	wsw.			2		fg			4 h'r	4 h'r	mod.	w.	misty.
WILSON LINE.																		
S. S. Otranto, N. 49° 14′, W. 19° 16′†	30.38	771.6	62	16.7		wsw.			5		10		wsw.			mod.	wsw.	cloudy.
S. S. Romano, Boston, Mass	29.60	751.8	61	16.1														
MISCELLANEOUS.																		
Schr. Addie Fuller, N. 41° 02′, W. 71° 37′†	29.83	757.7	66	18.9	90	ssw.			2	0	hz.			o	o		sw.	clear.
Schr. Ajax, N. 28° 22′, W. 95° 57′†	29.96	761.0				se.			1		4		se.	o	o	r'gh	s.	fair.
Bk. Alpha, N. 32° 00′ W. 74° 50′†	29.96	761.0	78	25.6		ssw.			5		8		sw.	o	o	mod.	ssw.	cloudy.
Schr. Annie Lewis, Mobile Bay, Ala†	30.09	764.3	83	28.3		wsw.			3		8		w.	o	o	s'mh		cloudy.
Bk. Anna Thorman, S. 18° 35′, W. 31° 39′	30.26	768.5	72.5	22.5	85	se.			4		7 k		se.	o	o	short	s	fair.
Schr. Asa Eldridge, Key West, Fla†	29.99	761.7				s.			3		3		s.	o	o			fair.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.49	774.4	74	23.3		wnw.			1		2		nne.	1 h'r	1 h'r			clear.
Bk. Bergenseren, N. 40° 00′ W. 67° 56′†	29.69	754.1	68	20.0		ssw.			3					o	o	3	s.	foggy
Schr. C. R. Flint, N. 25° 00′, W. 93° 13′†	30.12	765.0	78	25.6		se.			2		2		ese.	o	o	mod.	ese.	clear.
Schr. Edith R. Seward, Wilmington, N. C*†	29.90	759.4	77	25.0		s.			2		7		w.	o	o			cloudy.
S. E. J. Spicer, N. 48° 05′, W. 43° 30′†	30.22	767.6				calm			0					rain	rain	mod.	w.	
Bk. Essex, S. 3° 44, W. 31° 13′*†.	30.01	762.2	80	26.7		ese.			2		1		se.	shr's	sh'rs		se.	clear.
S. Exporter, S 25° 50′, E. 80° 30′*†	30.20	767.1				ssw.			6		3		ssw.	o	o	long	ssw.	
Bk. Freya, N. 41° 50′, W. 43° 55′			71	21.7		s.			2		fg.			2 h'r	2 h'r	sm'h		fair.
S. Grecian, Hong Kong, China*†	29.85	758.2	83	28.3		ese.			3		5?		ese.	o	o			clear.?
Bk Hattie G. McFarland, N. 45° 30′ W. 60° 08′*†	29.90	759.4	52	11.1		sse.			3		fg.			o	o	short	sse.	foggy.
S. Hedwig, N. 43° 37′, W. 33° 05′	30.39	772.0	66.4	19.1	91	sse.			5		7		sse.			short	sse.	fine.
S. Ismir, S. 31° 20′ W 27° 50′†	30.32	770.1				sse			6		7		s.			h'vy		h'y squalls.
Schr. James Slater, Para, Brazil*†	30.22	767.6	80	26.7		calm			0		5			2 h'r	2 h'r			
Schr. Jennie N. Huddell, Boston, Mass†	29.95	760.7	66	18.9	94	calm			0					light	light			light rain
Schr. John L. Thomas, N. 13° 00′, W. 83° 00′*†	29.96	761.0				ne.			6		9		e.	4 h'r	4 h'r	hv'y	e.	squally.
Bkt. Josephine, N. 42° 17′, W. 70° 42′†	29.92	760.0	62	16.7	88	s.			3		fg.			o	o	sm'h		dense fog.
S. S. Lamperts, N. 19° 01′, E. 69° 30′*	29.76	755.9	83.5	28.6	79	wsw.			4		5 k;s					3		misty.
Light House Tender, Laurel, Key West, Florida†	30.08	764.0	85	29.4		ssw.			1		5		ssw.	o	o			fair.
S. Minnie N. Gerow, N. 40° 33′, W. 71° 54′*†	29.70	754.4				s.			3		3		sw.			sm'h	s.	fine.
S. M. P. Grace, N. 14° 21′, W. 36° 12′*	30.04	763.0	75	23.9		ne.			5				ne.	o	o	r'gh	e.	
S. S. Nebo, Sydney, Cape Breton Island*†	29.90	759.4				sse.			2		10			o	o			dense fog.
Bk. Orpheus, N. 39° 33′. W. 69° 47′	29.89	759.2	68	20.0		ssw.			3		10					sm'h	s.	foggy.
S. Paramita, S. 57° 52′, W. 80° 04′†	28.68	728.5	42	5.6		nw.					7		wsw.	2 h'r	2 h r	hv'y	cross	
Bk. Peppina, Newport, Eng†	29.89	759.2	61	16.1	66	nw.			4		5		nw.	o	o			fair.
Bg. Potomac, N. 19° 18′, W. 56° 28′*†	30.15	765.8				e.			3				e.	o	o	h'vy	sse.	fine.
Bk. Rosebud, S. 25° 13′, W. 180 25*†	30.10	764.5	66	18.9	78	ssw.			7		5		s.	sq'ls	sq'ls	h'vy	s.	squally.
S. Salisbury, S. 28° 07′, E. 103° 06′*	30.02	762.4	67.1	19.5	88	nnw.			2		2		wsw.	o	o	long	wsw.	clear.
Bg. Teneriffe, N. 21° 18′, W. 74° 50′	30.02	762.5				e.			4		2		e.	o	o	mod.		fine.
Bk. Truro, Havre, France*†	29.92	760.0				wnw.			5		2		wnw.	3 h'r	3 h'r			clear.
U. S. F. C. S. S. FishHawk, Washington, D. C†	29.92	760.0	77	25.0	90	ssw.			3		5		calm	o	o			fair.
Yacht Vega, N. 36° 36′, W. 74° 16′*†	30.00	762.0	72	22.2		w.			3		5		w.	sq'ls	sq'ls		wsw.	
S. S. Victoria J Peed, Salamanca Id, U. S. C						ne.			4		3							
Bk. Vincenzo Accame, N. 37° 30′ W. 27° —†.	30.67	779.0	71.6	22.0		ese.			2									
Schr. Viola Reppard, Brunswick, Ga†	29.88	758.9	81	27.2		wsw.			1		9		wsw.	o	o			cloudy.
Bkt. Wandering Jew, N. 42° 29′, W. 70° 20′*†	29.78	756.4	62	16.7		calm			0		fg.			o	o	sm'h		foggy.
Bk Warden Law, N. 44° 04′, W. 27° 42′*	30.29	769.4				ssw.			4		8		sw.	o	o	sm'h	sw.	fair.
Bg. Wauburn, N. 36° 56′, W. 73° 05′*†	29.80	756.9				ssw.			4		4		sse.	sq'lls	sq'lls	mod	se.	squally.
Bk Wm. Wilcox, S. 5° 12′, W. 31° 33′*†	30.20	767.1	81	27.2		se.			4		2		se.	o	o	mod.	se.	fair.
S. Wm. Woodbury, N. 36° 51′, W. 70° 10′*	29.76	755.9	80	26.7	?	sw.			6		6?		sw.			cross	sw.	covered?

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 20, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.10	764.6	75.6	24.2	60	s.			1		0			0	0	clear	Moiroud.
Algiers			30.19	766.9	74.1	23.4	70	ne.			2		0			0	0	clear	Nicolas.
La Calle			30.07	763.7	78.8	26.0	67	n.			1		1			0	0	Very fair	Fonfréde.
Tunis			30.09	764.2															Jacques.
Saida			30.14	765.6	85.3	29.6	33	se.			1		1			0	0	very fair	Perés.
Tebessa			30.13	765.3	61.5	16.4	83	ese.			1		0			0	0	clear	Derché.
Geryville					85.3	29.6	8	n.			2		0			0	0	clear	Lonchamp.
Laghouat			30.13	765.3	86.0	30.0	41	ne.			2		0			0	0	clear	Abraham.
Biskra			30.12	765.0	87.1	30.6	41	nnw.			2		3			0	0	pretty fair	Malau.
Australian.																			
Melbourne, Victoria	30.04	763.0	30.13	765.3	43.4	6.3	96	w.	4	1.8			2			0.07	1.8	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.54	750.3	30.08	764.1	63.7	17.6	70	sw.			2		6			0.102	2.6		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.23	742.4	30.00	761.9	53.4	11.9	90	w.	7.4	3.3			10			0.126	3.2		Dr. Wierzbiski.
Eperies	29.02	737.0	29.86	758.4	73.0	22.8	45	se.			2		10 s		e.	0	0		Julius Mikolik.
Gratz	28.82	731.9	30.04	763.1	62.6	17.0	76	w.			2		4			0.421	10.7		Andreas Rospini.
Hermannstadt	28.51	724.2	29.87	758.7	75.0	23.9	41	n.			2		10			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.72	729.4	30.05	763.3	55.9	13.3	71	nw.			1		10			0.429	10.9	gloomy	The Staff.
Lemberg	28.92	734.6	29.87	758.6	73.0	22.8	50	s.			1		4			0.740	18.8		Dr. T. Stanecki.
Pola	29.92	760.0	30.03	762.8	68.7	20.4	77	e.			3		6			0	0		I. R. Hydrographic Office.
Szathmar	29.42	747.2	29.87	758.6	78.8	26.0	36	w.			2		2			0	e		Joseph Midliuszky, S. J.
Szegedin	29.71	754.5	29.98	761.6	58.6	14.8	77	calm			0		10			0	0		Karl Stancel.
Trieste	29.95	760.8	30.06	763.4	69.8	21.0	38	ne.			3		2			0	0		Royal Academy.
Vienna	29.34	745.1	30.04	763.1	58.6	14.8	72	w.			1		8			0.142	3.6		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.66	753.4	29.76	755.9	58.6	14.8	67	se.	12	5.4			3			0.020	0.5	blue sky	W. Boswell
Armagh, Observatory																			S. Call.
Bidston, Liverpool Obs'y			29.85	758.2	58.1	14.5	76	nw.	6	2.7			10					overcast	John Hartnup.
Bolton, Sharples	29.35	745.5	29.88	758.9	61.8	16.6	66	w.	6	2.7			7					d. clouds	Thomas Mackereth, A.S.
Bradford, Yorkshire	29.42	747.3	29.82	757.4	64.2	17.9	52	w.			1		4			0	0	d. clouds	J. McLandsborough, F. R
Bridgetown, Barbadoes																			Corpl. J. Surgenor, A. H. C.
Cardington																			John McLaren.
Chatham, School M. E.	29.79	756.7	29.92	760.0	63.2	17.3	61	calm			0		8					d. clouds	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.76	755.9	29.98	761.5	61.0	16.1	70	wnw.			2		8					overcast	The Staff.
Fort Napier, Natal	27.89	708.4	30.10	764.5	68.2	20.1	26	e.			1		0					blue sky	Pvt. Lane, A. H. C
Free Town, Sierra Leone	29.68	753.9	29.91	759.7	84.0	28.9	71	nw.			4		4					drizzling	Sergt. John Robinson.
Gibraltar, Mediterranean	30.05	763.3	30.10	764.5	78.6	25.9	73	ne.			3		0					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.58	751.3	29.79	756.7	60.8	16.0	63	wsw.			3		9 k					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.72	754.9	29.89	759.2	66.5	19.2	58	wsw.			1		10					overcast	The Staff.
Guernsey	29.73	755.1	30.02	762.5	62.0	16.7	88	wnw.			2		2			blank	blank	d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.87	758.7	29.91	759.7	65.0	18.3	50	wsw.	8	3.6			8					d. clouds	The Staff.
Leicester, Museum	29.66	753.4	29.91	759.7	63.5	17.5	52	sw.			3		5					d. clouds	J. C. Smith.
Malta, Mediterranean	29.91	759.7	29.99	761.7	74.8	23.8	70	ne.			2		3					blue sky	I. H. Whysall.
Nassau, Bahamas	30.09	764.3	30.14	765.5	86.0	30.0	75	e.			1		7					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.36	745.7	29.86	758.4	66.2	19.0	56	ssw.			2		4					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.07	753.6	29.90	759.4	62.8	17.1	63	sw.			2		9					overcast	The Staff.
Plymouth	29.88	758.9	29.95	760.7	65.4	18.6	73	wnw.			2		10					overcast	John Merrifield.
Sandwick Manse, Orkneys			29.75	755.6	52.7	11.5	90	w.	10	4.5			0					blue sky	Rev. C. Clouston, L. L.D
Scutari Cemetery, Turkey	29.87	758.7	29.94	760.5	75.4	24.1	72	sw.			2		3					d. clouds	W. H. Lyne.
Sheffield	29.55	750.6	29.82	757.4	70.7	21.5	60	sw.			1		4			0	0	d. clouds	W. F. Cooper.
Silloth Rectory	29.78	756.4	29.81	757.2	63.8	17.7	68	wsw.			3		1			0.290	7.4	blue sky	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.87	758.7	62.2	16.8	61	w.	14	6.3			6					d. clouds	J. New.
Stratfield Turgiss	29.69	754.1	29.90	759.4	61.8	16.6	76	sw.			2		9					d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.96	761.0	29.97	761.2	63	17.2	61	w.			4		6					d. clouds	W. Newcombe.
Valencia, Observatory	29.91	759.7	29.94	760.5	57.8	14.3	67	sw.	14	6.3			6			blank	blank	d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.70	754.4	29.74	755.4	63	17.2	93	s.	9	4.0			10 s			0.085	2.2	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.61	752.1	29.07	753.6	61	16.1	93	s.	5	2.2			10 n			0.36	9.1	cloudy	G. A. Blair.
Father Point, Quebec*	29.63	752.6	29.66	753.4	48	8.9	86	nw.	20	8.9			10 s		sw.	0.14	3.6	cloudy	J. McWilliams.
Halifax, N. S*	29.69	754.1	29.81	757.2	57	13.9	100	se.	4	1.8			fg.			0.380	9.7	dense fog.	A. Allison.
Kingston, Ontario*	29.76	755.9	30.09	764.3	54	12.2	72	ne.	8	3.6		0	0			0	0	clear	A. P. Knight, M. A.
Montreal, Quebec*	29.75	755.6	29.96	761.0	54	12.2	66	nw.	16	7.2		0	2 ks			0.23	5.8	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.45	748.0	30.14	765.5	56	13.3	74	w.	8	3.6		0	0			0.01	0.3	clear	Rev. R. Mosley.
Port Dover, Ontario	29.50	749.3	30.19	766.8	52	11.1	79	nw.	6	2.7		0	0			0	0	clear	H. Morgan.
Port Stanley, Ontario	29.53	750.0	30.18	766.6	50	10.0	86	n.	3	1.3		0	0			inap.	inap.	clear	M. Payne.
Quebec, Quebec*	29.51	749.5	29.83	757.7	53	11.7	74	w.			6		10 s		nw.	0.13	3.3	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.60	751.8	30.06	763.5	51	10.6	80	nw.	5	2.2		0	0			0.08	2.0	clear	W. H. McIntyre.
Saugeen, Ontario*	29.47	748.5	30.19	766.8	47	8.3	89	sw.	2	0.9		0	0			0	0	clear	
St. Andrews, N. B	29.68	753.9	29.73	755.1	50	10.0	95	s.	1	0.4			10 n			0.09	2.3	light rain	
Sydney, C. B*	29.80	756.9	29.86	758.4	62	16.7	93	s.	8	3.6			10 n			0.02	0.5	cloudy	T. C. Hill, C. E
Toronto, Ontario*	29.81	757.2	30.19	766.8	54	12.2	69	nw.	5	2.2		0	0			0	0	clear	Magnetic Observatory.
Yarmouth, N. S*	29.70	754.4	29.77	756.1	51	10.6	100	sw.	1	0.4			fg.			0.12	3.0	light rain	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.77	730.7	30.27	768.8	42.0	5.6	91	nw.				0	0			0.029	0.7	clear	Wm. Wylie.
St. Johns, Newfoundland	29.987	761.5?	30.227	767.0?	70?	24.4?	73	sw.	2	0.9		0	0			0	0		John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.31	769.9	30.34	770.6	64.6	18.1	87	sse.	11.6	5.2		0	4 k			0	0		John Duthie.
Cape Town, C. G. H. Obs'y	30.17	766.3	30.21	767.3	67.1	19.5	66	nw	7	3.1		1	2			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Chinese (*Sub-series*).																			
Hankow	29.42	747.3	29.69	754.1	73.3	22.9	96	ese.			2		10			0.36	9.1	thund'r st'm	N. Titoushkin.
Zi-Ka-Wei, near Shanghai.	29.54	750.3	29.56	750.9	79.7	26.5	90	sw.	4.9	2.2		10 ck	c			0	0	covered	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.85	758.3	29.90	759.5	59.2	15.1	72	s.	20	9			9						Oversergent Fischer.
Fanöe	29.76	756.0	29.78	756.5	57.9	14.4	86	wsw.			4		9						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	29.59	751.5	29.63	752.6	52.5	11.4	81	se.			2		8						A. O. Thorlacius.
Thorshavn	29.73	755.2	29.77	756.1	51.1	10.6	84	ne.	7	3			5					foggy	Overloerer Bergh.
Vestervig	29.66	753.3	29.75	755.6	58.8	14.9	84	ssw.			6		6						Loearer Oesterbol.
French.																			
Agen, Normal School	29.56	750.9	30.21	767.4	64.8	18.2	72	w.			1		n		w.	0.091	2.3		M. Labroue, Director.
Alençon, Normal School	29.50	749.3	30.05	763.3	65.8	18.8	83	sw.			1		kn	se.	se.	0.008	0.2		M. Nicot, Director.
Arras, Engineer School	29.76	755.8	30.01	762.3	58.6	14.8	90	w.			2		n		w.	0.028	0.7		M. Fénéon, Command't.
Avignon, Normal School	30.00	762.0	30.08	764.0	79.5	26.4	46	n.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.48	748.9	30.04	762.9	61.7	16.5	69	s.			1		10		w.	0.008	0.2	covered	M. Saillard, Director.
Beauvais, Normal School	29.72	755.0	29.98	761.6	63.7	17.6	72	s.			1		10		sw.	0.043	1.1	hazy	M. Frère Eugène Marié.
Besançon, Normal School	29.10	739.1	30.06	763.4	62.2	16.8	80	ssw.			4		n		nne.	0	0		M. Gobin, Director.
Bordeaux, Observatory	29.93	760.2	30.19	766.8	63.1	17.3	83	w.			1		10			0.067	1.7	covered	M. Rayet, Director.
Bourges, Normal School	29.56	750.8	30.11	764.7	59.9	15.5	78	sw.			2		n		sw.	0	0		M. Postel, Director.
Brest, Naval Observatory	29.84	757.9	30.08	764.1	64.8	18.2	80	w.			2		10		w.	0.276	7.0	misty	M. de Kermaree, Dir.
Caen, Normal School	29.95	760.0	30.02	762.5	64.0	17.8	73	sw.			2		8		sw.	0.004	0.1	very cloudy.	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.09	754.1	30.00	762.1	59.7	15.4	75	s.			2		10			0.276	7.0	covered	M. Jadot, Director.
Charleville, Normal School.	29.49	749.0	30.00	761.9	60.4	15.8	55	s.			1		10			0.16	4.	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.77	730.8	30.09	764.2	69.8	21.0	50	sw.			2		8			0.012	0.3	¾ covered	M. Allnard, Director.
Cluny, Normal School	29.28	743.8	30.12	765.0	61.5	16.4	75	sw.			2		6		sw.	0	0		M. de Villemontée, Dir.
Commercy, Normal School.	29.19	741.3	30.04	763.1	59.9	15.5	68	w.			1		kn	w.	w.	0.055	1.4		Dr. Coulet, Director.
Gap, Normal School	27.58	700.0	30.04	762.9	72.3	22.4	27	n.			3	2 c	o	nw.		0	0		M. Jeanginard, Director.
Gréasque, du Rhone	28.96	735.5	30.04	763.0	75.2	24	26	nw.			2		1		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.32	744.7	30.06	763.6	70.9	21.6	51	ese.			1	ck	o			0	0		M. Ablard, Director.
Guéret, Normal School	28.56	725.3	30.12	765.1	57.2	14	91	w			2		10		ne.	0.08	2.	covered	M. Rivoire, Director.
Lamballe, Normal School.	29.76	755.9	30.04	762.9	63.7	17.6	84	n.			1		8		n.	0	0	very cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.05	753.2	30.21	767.4	67.6	19.8	67	w.			1		5			0.063	1.6	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.99	761.8	30.10	764.4	63.1	17.3	81	w.			2		10		w.	0.039	1.0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.08	738.6	30.12	765.0	66.0	18.9	61	se.			1		10 cn		w.	0.020	0.5	covered	M. André, Director.
Mans, Normal School	29.72	755.0	30.03	762.8	61.3	16.3	87	nw.			3		10			0	0	covered	M. Piboen, Director.
Marseille, Observatory	29.79	750.7	30.06	763.4	74.8	23.8	53	nw.			3		6		nw.	0	0		M. Stephan, Director.
Montlouis	25.01	635.2	29.85	758.2	61.3	16.3	58	e.	7.4	3.3			5	e.		0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.96	761.0	30.09	764.2	76.3	24.6	50	wnw.			2		2			0	0	slightly cl'dy	M. Galzin, Director.
Nancy, Normal School	29.24	742.8	30.01	762.3	61.2	16.2	67	w.			1		kn			0.071	1.8		M. Hasse, Director
Nantes, Observatory	29.95	760.8	30.12	765.0	63.3	17.4	80	wsw.			2–3		10 n		wsw.	0.094	2.4		M. Larocque, Director.
Perpignan, Observatory	30.04	763.0	30.15	765.7	73.6	23.1	47	nw.	33.5	15.0			2	nw.	nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit.	21.43	544.4			44.2	6.8		nw.			1		1		nw.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.08	738.7	30.12	765.0	71.6	22	47									0	0		M. Taillen.
Puy de Dôme Obs'y, Summit	25.22	640.6			41.0	5.0	100	w.			6		10			0.169	4.3	foggy	M. Allnard, Director.
Rochefort, Naval Obs'y	30.12	765.1	30.15	765.9	65.5	18.6	84	w.			2		10			0.04	1.	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.88	759.0	30.09	764.3	61.5	16.4	87	wsw.			2		5		sw.	0	0	cloudy	M. Mouillot, Director.
Rodez, Normal School	28.07	712.9	30.21	767.3	57.2	14.0	65	e.			1		kn		e.	0	0		M. Seger, Director.
Rouen, Normal School	29.91	759.7	29.96	760.9	60.8	16	92	sw.			1		10	w.		0.189	4.8	covered	M. Brotier.
Saint Maur, Observatory	29.85	758.3	30.02	762.5	57.9	14.4	86	ssw.			1		10		w.	0.024	0.6		M. Renou, Director.
Toulouse, Observatory	29.53	750.1	30.26	768.6	64.8	18.2	67	wnw.			3		10	w.		0.028	0.7	covered	M. Baillaud, Director.
Tours	29.87	758.7	30.05	763.2	66.6	19.2	72	sw.			1		10		sw.	0.008	0.2	rainy	M. de Tastes.
Versailles, Observatory	29.52	749.8	30.02	762.4	59.0	15.0	80	w.			2					0.008	0.2		Dr. A. Berigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.73	755.1	30.02	762.5	59.7	15.4	86	sw.			2		10		wsw.	0.012	0.3		M. Marié Davy, Director
German.																			
Bamberg	29.17	741.0	30.02	762.6	61.5	16.4	66	sw.			2	0	6 k		sw.	0.08	2.		Prof. Dr. Hoh.
Berlin	29.88	758.9	30.05	763.3	69.1	20.6	47	nw.			2		6			0	0		Prof. Dr. Arndt.
Breslau	29.50	749.4	30.04	762.9	62.6	17.0	63	sse.			2		9			0.150	3.8		Royal University Obs'y.
Carlsruhe	29.00	751.7	30.03	762.8	58.6	14.8	69	sw.			3		10	sw.		0.394	10.0	raining	Albert Senz.
Cassel	29.23	742.4	29.94	760.5	65.1	18.4	61	s.			4		8	sw.		0.354	9.0		Dr. H. Möhl.
Frankfort-on-the-Main	29.61	752.0	29.90	761.0	66.6	19.2	45	w.			1		5			0.004	0.1		Physical Society.
Friedrichshafen	28.64	727.5	30.05	763.2	65.5	18.6	57	ssw.			1		8	w.		0.520	13.2		Wilhelm, Chief Tel.
Hamburg	29.82	757.5	29.92	759.9	56.8	13.8	81	wsw.			5		10			0.039	1.0	showery	E. Preller.
Kiel	29.86	758.4	29.87	758.8	61.0	16.1	69	wsw.			1		9			0.102	2.6		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.56	750.8	29.97	761.2	66.4	19.1	49	sw.			3		8	wsw.		0	0	hazy	H. Leppig, Asst.
Magdeburg	29.76	755.8	29.94	760.5	64.9	18.3	57	ssw.			1	0	7k;ks		sw.	0.008	0.2		Dr. Assmann.
Memel	29.98	761.4	30.02	762.0	77.0	25.0	36	s.			3	0	7 ks						Issermann.
Munich	28.24	717.4	30.11	764.8	62.4	16.9	47	nw.			1		5	nw.		0.185	4.7		Central Station.
Neufahrwasser	29.95	760.8	29.97	761.2	59.2	15.1	77	n.			2		10			0	0		A. Lothes.
Neustadt, Palatinate	29.47	748.4	29.99	761.8	61.3	16.3	85	w.			3		10	w.		0.020	0.5		Dicknether.
Stuttgart	29.13	740.0	30.01	762.3	64.4	18.0	50	w.			1		9	w.		0.228	5.8		Prof. Dr. Schoder.
Wustrow	29.90	759.5	29.93	760.2	63.0	17.2	63	wsw.			2	0	5 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.61	752.0			74.5	23.6		s.			3.5		1 k			0	0	clear	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.65	753.2	29.70	754.4	87.8	31.0	73	wsw.	34.0	15.2			5		w.	0	0	d. clouds	
Deesa	29.17	740.8	29.62	752.4	97.3	36.3	37	sw.	15.0	6.7			5		sw.	0	0	d. clouds	
Bombay	29.77	756.2	29.81	757.2	85.5	29.7	73	wsw.	12.0	5.4			3		sw.	0	0	d. clouds	
Poona, Yarrowda	27.93	709.4	29.76	755.9	84.8	29.3	47	wsw.	25.0	11.2			3		w.	0	0	d. clouds	
Trichinopoly	29.49	748.9	29.76	755.9	94.1	34.5	43	nw.	1.0	0.4			5			0	0	d. clouds	
Bellary	28.27	717.9	29.68	753.9	97.0	36.1	26	w.	16.4	7.3			4			0	0	d. clouds	
Belgaum	27.29	693.1	29.82	757.3	77.1	25.1	73	wsw.	11.0	4.9			1	se.	sw.	0	0	d. clouds	
Lahore	28.69	728.8	29.38	746.2	111.3	44.1	17	n.	2.9	1.3			2			0	0	blue sky	
Roorkee	28.56	725.4	29.42	747.3	94.2	34.6	58	e.	0.9	0.4			2			0	0		
Agra	28.91	734.4	29.45	748.1	95.1	35.1	56	nw.	2.6	1.2			5		nw.	0	0	d. clouds	
Nagpur	28.59	726.2	29.60	751.9	93.7	34.3	39	w.	5.4	2.4			8		w.	0	0	d. clouds	
Jubbulpore	28.25	717.4	29.59	751.6	79.8	26.6	87	calm	6.0	2.7			10		n.	0.52	13.2	overcast	
Lucknow	29.11	739.3	29.48	748.6	85.1	29.5	81	calm	0.9	0.4			8		wnw.	0.11	2.6	d. cloudy	
Allahabad	29.17	741.0	29.48	748.8	83.7	28.7	87	sw.	2.2	1.0			8	sw.	sw.	0.14	3.6	d. clouds	
Patna	29.33	744.9	29.51	749.5	89.8	32.1	66	sse.	2.7	1.2			8	sse.	sse.	0	0	d. clouds	
Hazaribagh	27.57	700.4	29.54	750.3	84.8	29.3	53	w.	6.8	3.0			6	w.	w.	0	0		
Cuttack	29.57	751.1	29.65	753.2	82.6	28.1	83	ne.	2.3	1.0			6			0	0	d. clouds	
Calcutta, Allpore	29.58	751.4	29.60	751.9	77.9	25.5	93	w.	10.0	4.5			9		w.	0.08	2.0	drizzling	
Dhubri	29.46	748.2	29.58	751.2	79.7	26.5	93	s.	4.5	2.0			10		s.	1.32	33.5	gloomy	
Chittagong	29.59	751.5	29.68	753.8	82.9	28.3	87	s.	7.1	3.2			8			0	0	d. clouds	
Sibsagar	29.22	742.2	29.55	750.5	85.2	29.6	76	sw.	5.8	2.6			10	w.	w.	0.25	6.4	d. clouds	
Jeypore	28.11	713.9	29.48	748.7	102.4	39.1	23	nw.	11.4	5.1			1		nw.	0	0	blue sky	
Zanzibar, Africa	29.99	761.7			81.7	27.6	56	s.	7.4	3.3			7		s.	0	0	gloomy	
Italian.																			
Udine	29.67	753.5	30.07	763.7	69.8	21.0	61	w.	1.8	0.8			3			0.614	15.6		Prof. Giovanni Clodig.
Milan	29.50	750.9	30.07	763.7	72.5	22.5	44	ne.	5.6	2.5			5	nw.		0	0		Prof. Schiaparelli.
Padua	29.97	761.1	30.07	763.8	69.4	20.8	41	se.	1.8	0.8			1			0.094	2.4		Prof. Dott. Lorenzoni.
Moncalieri	29.15	740.3	30.02	762.6	73.4	23.0	25	e.	4.9	2.2			2			0	0		Prof. P. F. Denza.
Genoa	29.87	758.8	30.06	763.6	70.2	21.2	65	sw.	3.1	1.4			2	s.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.14	714.8	30.00	761.9	69.3	20.7	33	nw.			2		0			0	0		Prof. D. O. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Pesaro	29.99	761.7	30.04	762.9	65.5	18.6	68	se.	6.9	3.1			0			0	0		Prof. Luigi Guidi.
Florence	29.77	756.1	30.02	762.4	74.8	23.8	32	ne.			2		0			0	0		Prof. Costantino Pitter.
Leghorn	29.88	758.9	29.96	761.0	71.4	21.9	57	w.	1.8	0.8			3			0	0		Prof. P. Monte.
Rome	29.83	757.6	30.00	761.9	77.7	25.4	42	nw.	1.8	0.8			7			0	0		Prof. P. S. Ferrari
Lecce	29.74	755.5	29.99	761.7	76.6	24.8	54	ene.	2.5	1.1			7			0.150	3.8		Prof. C. de Giorgi.
Cosenza	29.11	739.4	29.97	761.3	77.0	25.0	71	ssw.	3.1	1.4			6	w.		0	0		Prof. D. Conti.
Cagliari	29.84	758.0	30.03	762.8	74.7	23.7	34	nw.			6		0			0	0		Prof. A. Pacinotti.
Palermo	29.80	756.9	30.05	763.2	68.2	20.1	74	nw.	12.5	5.6			10	nw.		0.539	13.7		Prof. G. Ciacciatore.
Syracuse	29.93	760.1	29.97	761.2	77.9	25.5	66	s.	3.8	1.7			5	wnw.		0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.47	748.6	29.98	761.6	73.4	23.0	71	nw.	8.7	3.9			6	ssw.		0.378	9.6		Prof. T. Brioschi.
Stelvio	22.20	564.0			42.8	6.0	45	s.			2		8			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.28	565.9			43.7	6.5	64	n.			2		4			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.70	754.4	29.73	755.1	67.0	19.4	82	w.	3.2	1.4		0	3 s			0	0	fair	K. Ogawa.
Hakodate	29.71	754.6	29.72	754.9	59.5	15.3	93	calm	0	0			1			0	0	clear	
Hiroshima, I. M. Obs'y	29.68	753.9	29.69	754.1	73.4	23.0	87	sw.	2.4	1.1		ck	10 s			0.367	9.3	covered	I. Sogawa.
Kanazawa	29.78	756.4	29.88	758.9	74.5	23.6	74	se.	3.7	1.6		ck	8 s			0	0	cloudy	S. Endo.
Kioto	29.62	752.3	29.78	756.4	74.2	23.4	83	nne.	4.3	1.9		0	2 s			0	0	fair	M. Tojima.
Kochi	29.78	756.4	29.80	756.9	72.8	22.7	91	se.	7.4	3.3			10 n			5.006	127.2	light rain	K. Kusunose.
Nagasaki, I. M. Obs'y	29.50	749.3	29.69	754.1	73.6	23.1	92	ssw.	3.0	1.3			10 n			1.360	34.5	light rain	S. Takehayashi.
Nemuro	29.77	756.1	29.83	757.7	55.0	12.8	57	nw.	12.0	5.4		10	0			0	0	cloudy	
Niigata	29.74	755.4	29.77	756.1	69.5	20.8	87		0	0		1 s	0			0	0	clear	M. Morita.
Nobiru	29.74	755.4	29.76	755.9	66.1	18.9	95	s.	5.9	2.6			10 s			0.005	0.1	covered	H. Midzushina.
Supporo					62.0	16.7	88	se.	16.2	7.2			1			0.239	6.1	clear	
Tokei Obs'y, Yeddo	29.75	755.6	29.82	757.4	68.4	20.2	91	s.	3.3	1.5		0	0			0	0	clear	The Staff.
Wakayama	29.74	755.4	29.79	756.6	73.3	22.9	79	sw.	7.7	3.4		3 ck	4 ks	wsw.	sw.	0.420	10.7	fair	Y. Kuwamuea.
MAURITIUS																			
Mauritius Observatory	29.88	758.9	30.06	763.5	73.0	22.8	65	e.	17.5	7.8		2ck;cs	4 ks;n		ese.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.66	600.9	29.88	758.9	63.5	17.5	79	w.				2 p	1 k		se.	0	0	clear	Prof. Vicente Fernandez.
Leon	24.29	617.0	29.92	760.0	60.8	16.0	90	nw.			1	6 c	0	sw.		0.032	0.8	½ clouded	Prof. M. Leal.
Mazatlan	29.62	752.3	29.88	758.8	78.0	25.6	86	e.	0.9	0.4		7 ck	0			0	0	hazy	F. Quijano, C. E.
Mexico, Central Obs'y	23.09	586.5	30.07	763.9	58.5	14.7	80	nw.	0.2	0.1		1 c	3 ks		se.	0	0		The Staff.
Morelia	24.17	614.0	30.21	767.4	63.1	17.3	67	se.			3	2	6	s.	e.	0.331	8.4	cloudy	M. Tena, M. D.
Rabellon, Aguascallentes	23.93	607.7	29.83	757.7	65.1	18.4	79	s.			2					0	0		M. Y. de Leon, M. E
Puebla, Catholic Institute	23.43	595.0	30.15	765.8	55.9	13.3	87	calm	0	0		0	0			0.197	5.0	clear	Prof. P. Spina.
San Luis Potosi	24.21	614.9	30.10	764.5	65.3	18.5	67	e.				3	3	w.	w.	0	0	½ clouded	G. Barroeta, M. D.
Zacatecas	22.58	573.4	30.14	765.6	57.2	14.0	74	ese.	4.7	2.1		0	2 s			0	0	clear	J. A. Bonilla, M. E
NETHERLANDS.																			
Flushing	29.95	760.6	29.95	760.6	59.4	15.2		wnw.			4					0.181	4.6		
Groningen	29.83	757.7	29.89	759.1	60.4	15.8		wnw.			1					0.268	6.8		
Helder	29.88	758.9	29.88	758.9	58.3	14.6		wsw.			3					0	0		
Hellevoetsluis	29.93	760.1	29.93	760.1	61.9	16.6	64	w.			2					0.055	1.4		
Utrecht	29.89	759.2	29.94	760.4	62.4	16.9	72	sw.			3		8			0.010	0.4	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.63	752.6	29.69	754.2	63.7	17.6	44	e.	7	3			9			0	0		
Brono	29.58?	751.3?	29.62?	752.3?	62.2	16.8	37	sse.	27	12			8			0	0		
Christiania	29.73	755.1	29.87	758.8	58.5	14.7	73	ese.	9	4			9			0.331	8.4		
Gjæsvær	30.24	768.1	30.26	768.7	48.7	9.3		calm			0		7						
Lodingen	30.11	764.7	30.15	765.9	61.5	16.4	51	calm			0		0			0	0		
PORTUGUESE.																			
Angra, Azores					67.6	19.8	81	sse.	7.4	3.3			3			0	0		
Campo Major	29.10	739.1	30.05	763.2	86.9	30.5	31	sse.	1.3	0.6			1			0	0		Dr. J. A. Sampaio.
Funchal, Maderia	30.15	765.8	30.24	768.0	70.7	21.5	64	sw.	5.6	2.5			8			0	0		Dr. A. M. R. dos Santos.
Lisbon, Observatory	29.82	757.3	30.17	766.3	72.5	22.5	54	nne.	16.8	7.5			0			0	0		Capt. D. A. de Cunha.
Ponta Delgada, Azores	30.37	771.3	30.44	773.1	74.5	23.6	58	calm	0	0			4			0	0		The Staff.
Saint Paul de Loando	29.80	757.0	30.00	762.1	75.9	24.4	85	nne.	0.7	0.3			8			0	0		
Serra da Estrella	25.48	647.2	30.05	763.3	67.1	19.5	51	e.	9.4	4.2			3			0	0		
RUSSIAN.																			
Akmolinski	28.96	735.6	29.99	761.7	77.4	25.2	28	wnw.	7	3		0	0			0	0		
Archangel	30.24	768.0	30.26	768.5	57.4	14.1	68	w.	9	4		0	2 ks			0	0		Major K. Lasarew.
Astrakhan	29.83	757.6	29.74	755.5	84.4	29.1	44	ese.	25	11		0	0			0	0		Capt. Sselliwerstow.
Barnaul	29.28	743.8	29.77	756.1	60.6	15.9	56	wnw.	4	2			9			0.039	1.0		Capt. Wisganow.
Dorpat	29.93	760.2	30.17	766.2	69.8	21.0	47	e.	11	5		0	6 k			0	0		Meteorological Obs'y.
Ekaterinburg	29.11	739.3	30.01	762.2	85.6	29.8	34	w.	4	2		c	5 ks			0	0		Observatory.
Irkutsk	28.20	716.2	29.82	757.3	53.4	11.9		wnw.					7			0.319	8.1		Meteorological Obs'y.
Kasan	29.73	755.2	29.98	761.5	90.0	32.2	29	sse.	7	3		0	7			0	0		Observatory.
Kertch	29.72	754.8	29.74	755.3	68.5	20.3	89	w.	2	1			10 n			0.567	14.4		Lagorio & Sastyrez.
Kieff	29.15	740.4	29.76	756.0	64.8	18.2	78	n.	4	2			10 n			0.185	4.7	light rain	Observatory.
Lugan	29.50	749.2	29.69	754.2	72.3	22.4	69	sse.	18	8			9			0.669	17.0		Meteorological Obs'y
Moscow	29.42	747.2	29.87	758.7	70.2	21.2	72	n.	7.8	3.5			10 s						Meteorological Obs'y.
Nikolaiev	29.69	754.0	29.76	755.8	71.1	21.7	80	nnw.	13	6			9 n			0.055	1.4		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.62	752.4	29.71	754.6	57.0	13.9	80	n.	4	2			2			0	0		Lieut. Iwanow.
Pekin, China	29.30	744.3	29.45	747.9	91.2	32.9	37	sw.	11	5		0	8 n			0	0		Physical Observatory
St. Petersburg	30.22	767.7	30.24	768.1	64.8	18.2	31	ene.	11	5		0	1 k			0	0		Central Physical Obs'y
Semipalatinsk	29.27	743.5	29.90	759.4	72.7	22.6	34	wnw.	13	6		0	7 k			0	0		Major Lasarew.
Tashkend, Laboratory	28.33	719.5	29.79	756.6	87.8	31.0	40	calm	0	0			0						Telch, A. M.
Tiflis	28.32	719.3	29.63	752.5	93.7	34.3	33	calm	0	0		0	1 k			0	0		Physical Observatory
Vladivostock	29.54	750.2			62.2	16.8	89	se.	7.8	3.5			9 k						
Warsaw	29.50	749.4	29.91	759.8	68.9	20.5	60	nw.	9	4		8cs;ck	0						Astronomical Obs'y
Wilna	29.01	752.1	30.01	762.3	74.8	23.8	39	e.	4	2			6			0	0		Berg, Assistant.
SPANISH.																			
Barcelona, Met. Obs'y	30.02	762.6	30.13	765.2	66.6	19.2	78	ne.	3.8	1.7			10			0.165	4.2	misty	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.21	767.3	30.27	768.8	68.7	20.4	74	nw.	2.2	1.0			10			0.299	7.6	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.26	692.5	30.15	765.7	69.6	20.9	63	ne.	5.1	2.3			0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.93	709.4	30.02	762.4	81.0	27.2	35	nw.	4.7	2.1		0	1			0	0	clouds	The Staff.
Murcia, Met. Obs'y	29.97	761.1	30.08	763.9	85.6	29.8	54	sse.	2.9	1.3		0	0			0	0	clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.32	744.6	30.21	767.3	62.4	16.9	69	ne.	4.9	2.2			9			0.004	0.1	almost cov.	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	30.00	762.0	30.07	763.7	77.9	25.5	82	e.	1.6	0.7		9 c;cs	0	ne.		1.579	40.1	cloudy	Benito Vines, S. J.
Manilla, Philippine Islands	29.84	757.9	29.90	759.4	84.2	29.0	75	sw.	9.9	4.4		0	8 ck		e.	0	0	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.01	762.3	30.11	764.8	76.1	24.5	58	ssw.	2.6	1.2		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I.	30.02	762.4	30.11	764.7	83.8	28.8	78	se.	6.5	2.9		3 cs	4 k	se.	se.	0.020	0.5	d. clouds	Manuel Maese.
Tuguegarao, Philippine Id's	29.78	756.4	29.91	759.7	77.9	25.5	85	nne.	4.3	1.9			10 kn		nw.	0.01	0.3	covered	José L. Yrastorza.
SWEDISH																			
Haparanda	30.30	769.5	30.34	770.5	59.7	15.4	43	sw.			2		0			0	0		
Umea	30.31	769.8	30.36	771.1	65.5	18.6	41	se.			2		1			0	0		
Hernosand	30.19	766.8	30.24	768.1	60.8	16.0	56	se.			4		2			0	0		
Stockholm	29.90	759.4	30.08	763.9	66.2	19.0	50	ese.			7		3			0	0		
Wisby	29.88	758.9	29.94	760.4	72.7	22.6	51	sse.			4		3			0	0		
Sub-series.																			
Upsala	29.92	760.0	30.01	762.2	69.3	20.7	48	ese.	14.5	6.5			6		sse.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.69	728.6	30.08	763.9	66.4	19.1	53	wsw.			3					0.028	0.7	covered	The Observatory

Stations.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
SCOTTISH.																			
Monach Lt			29.75	755.6	60	15.6	93	sw.			3		10			0	0	overcast	J. Youngclause.
North Unst			29.71	754.6				se.			2		10						
TURKISH.																			
Constantinople			30.00	761.9	75.6	24.2	59	sw.	8.	3.5			5		wnw.	0	0		The Observatory.
Valona			30.10	764.5	74.8	23.8		w.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.96	760.9	74.8	23.8	58	nw.			1	0	0			0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.92	760.0	30.00	762.0	64	17.8	45	n.	9	4.0		0	1 k			0.93	23.6	clear	J. O. Barnes.
Alpena, Michigan	29.55	750.6	30.20	767.1	52	11.1	66	nw.	8	3.6		0	0			0	0	clear	Jas. J. Fitzgerald.
Atlanta, Georgia	28.89	733.8	30.04	763.0	77.0	25.0	74	nw.	3	1.3		6 c	0			0	0	fair	H. Hall.
Atlantic City, New Jersey	29.95	760.7	29.96	761.0	61.2	16.2	65	nw.	17	7.6		0	0			0.35	8.9	clear	Jas. M. Watson.
Augusta, Georgia	29.86	758.4	30.05	763.3	77	25.0	82	w.	2	0.9		0	0			0	0	clear	John Healy.
Baltimore, Maryland	30.03	762.7	30.08	764.0	64	17.8	52	n.	12	5.4		0	0			0.81	20.6	clear	Robert Seyboth.
Barnegat, New Jersey	29.95	760.7	29.97	761.2	62.0	16.7	65	nw.	22	9.8		0	0			0.32	8.1	clear	Chas. F. Merritt.
Behring Island, Behring Sea	29.55	750.6	29.57	751.1	40.2	4.6		ne.	12	5.4			10 k			0.01	0.3	cloudy	Dr. L. Stejneger.
Bismarck, Dakota	27.84	707.1	29.59	751.6	54	12.2	86	se.	23	10.3			10 n		se.	0.32	8.1	light rain	Cyrus Cramer.
Boise City, Idaho	27.14	689.3	29.92	760.0	46	7.8	77	nw.	2	0.9			10 s		calm	0	0	cloudy	B. E. Light.
Boston, Massachusetts	29.68	753.9	29.83	757.7	59.0	15.0	67	w.	20	8.9		2 cs	0	w.		0.01	0.3	clear	O. B. Cole.
Brownsville, Texas	29.85	758.2	29.89	759.2	80.0	26.7	88	se.	7	3.1		0	5 s		se.	0	0	fair	M. McCarty.
Buffalo, New York	29.44	747.8	30.18	766.6	53.7	12.1	76	nw.	4	1.8		0	0			0.03	0.8	clear	Wm. Finn.
Burlington, Vermont	29.69	754.1	29.98	761.5	54.5	12.5	59	n.	15	6.7		0	1 ks		n.	0.46	11.7	clear	G. C. Schaeffer.
Cairo, Illinois	29.68	753.9	30.07	763.8	60.6	15.9	79	se.	12	5.4		0	8 s		se.	0	0	cloudy	W. H. Ray.
Campo, California	27.35	694.7	29.83	757.7	44	6.7	93	calm	0	0			fg.		w.	0	0	dense fog	W. H. Clendenon.
Camp Thomas, Arizona	27.14	689.3	29.77	756.1	56.5	13.6	63	calm			0	0	0			0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.00	762.0	30.02	762.5	67	19.4	73	nw.	30	13.4		0	0			0.12	3.0	clear	A. K. Alderson.
Cape May, New Jersey	29.95	760.7	29.98	761.5	62	16.7	72	nw.	31	13.9		0	0			1.28	32.5	clear	W. Bolton.
Cedar Keys, Florida	30.07	763.8	30.09	764.3	80	26.7	79	w.	9	4.0		4 c	2 k		w.	0	0	fair	F. W. Mixer.
Champaign, Illinois	29.32	744.7	30.11	764.8	52.3	11.3	71	ne.	11	4.9			9 s		ne.	Inap.	Inap.	cloudy	L. A. Welsh.
Charleston, S. Carolina	29.94	760.5	29.99	761.7	80	26.7	79	w.	9	4.0		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.15	740.4	29.98	761.5	76.0	24.4	52	ne.	7	3.1		3 c	hz.	w.		0	0	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.28	743.7	30.08	764.0	71.0	21.7	76	ne.	3	1.3		2 cs	0			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	23.88	606.5	29.62	752.3	51.3	10.7	52	w.	6	2.7		0	0			0.36	9.1	clear	E. McGovern.
Chicago, Illinois	29.45	748.0	30.14	765.5	54.4	12.4	85	e.	4	1.8		10 c	0			0	0	cloudy	J. Mitchell.
Chincoteague, Virginia	29.96	761.0	29.98	761.5	66	18.9	68	n.	25	11.2		0	7 k		n.	0.13	3.3	fair	V. P. Temple.
Cincinnati, Ohio	29.52	749.8	30.17	766.3	58.8	14.9	70	n.	8	3.6		0	0			0	0	clear	R. B. Watkins.
Cleveland, Ohio	29.48	748.5	30.20	767.1	54.5	12.5	79	ne.	3	1.3		0	0			0.02	0.5	clear	J. B. Newlin.
Coleman City, Texas	28.10	713.7	29.85	758.2	75	23.9	90	se.	10	4.5		0	9 s		s.	0.22	5.6	cloudy	L. Dorman.
Columbus, Ohio	29.34	745.2	30.18	766.6	55	12.8	69	ne.	5	2.2		6 ck	0	sw.		0	0	fair	D. Cuthbertson.
Concho, Texas	27.97	710.4	29.84	757.9	78	25.6	90	s.	10	4.5			10 s		s.	0.03	0.8	cloudy	W. W. McConihe.
Davenport, Iowa	29.47	748.5	30.11	764.8	55	12.8	74	se.	10	4.5			10 s		se.	0	0	cloudy	R. R. Martin.
Dayton, Washington T'y	28.16	715.3	29.90	759.4	43.8	6.6	81	sw.	3	1.3		0	7 k		sw.	0	0	fair	H. Clifford.
Deadwood, Dakota	25.08	637.0	29.51	749.5	56	13.3	90	sw.	8	3.6			9 k		nw.	0.70	17.8	cloudy	G. W. Scott.
Decatur, Texas					77	25.0	56	s.	8	3.6		0	0			Inap.	Inap.	clear	D. J. Carr.
Delaware Breakwater, Del.	29.97	761.2	29.99	761.7	63	17.2	73	nw.	32	14.3		1 k	0	nw.		0.50	12.7	clear	F. C. Pratz.
Denison, Texas	29.10	739.1	29.88	758.9	78.3	25.7	82	s.	13	5.8		8 cs	0	w.		0	0	cloudy	J. McGlone.
Denver, Colorado	24.58	624.3	29.62	752.3	55.2	12.9	56	s.	6	3.6		0	0			0.20	5.1	clear	F. M. Neal.
Des Moines, Iowa	29.06	738.1	29.94	760.5	58	14.4	69	se.	14	6.3		5 ck	5 s	w.	se.	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.52	749.8	30.21	767.3	54.8	12.7	69	ne.	6	2.7		0	0			0.01	0.3	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.17	690.1	29.68	753.9	68	20.0	90	s.	2	0.9		0	0			0.03	0.8	clear	E. A. Thomas.
Dubuque, Iowa	29.40	746.7	30.09	764.3	53.2	11.8	66	se.	9	4.0			10 s		se.	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.43	747.5	30.12	765.0	49	9.4	71	ne.	6	2.7		3 cs	0	calm		0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.09	738.9	29.88	758.9	83.0	28.3	72	se.	8	3.6			10 s		se.	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.08	637.0	29.67	753.6	45	7.2	65	s.	16	7.2			10 s		s.	0	0	cloudy	J. M. Clifford.
Eastport, Maine	29.66	753.4	29.73	755.1	50.0	10.0	93	s.	2	0.9			fg.		s.	0.12	3.0	light fog	D. C. Murphy.
El Paso, Texas	26.21	665.7	29.80	756.9	55	12.8	38	calm	0	0		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.47	748.5	30.19	766.8	57	13.9	74	n.	4	1.8		0	0			0	0	clear	Peter Wood.
Escanaba, Michigan	29.54	750.3	30.19	766.8	50	10.0	77	n.	3	1.3		3 c	0	w.		0	0	clear	C. Dill.
Fort Apache, Arizona	24.99	634.7	29.74	755.4	49	9.4	61	ne.	3	1.3		0	0			0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	26.88	682.7	29.68	753.9	50	10.0	80	sw.	14	6.3		0	9 s		sw.	0.84	21.3	cloudy	B. O. Lenoir.
Fort Bennett, Dakota	28.04	712.2	29.58	751.3	58	14.4	86	se.	29	13.0			10 s		se.	0.46	11.7	threatening	A. Pritchard.
Fort Benton, Montana	26.95	684.5	29.72	754.9	49	9.4	93	w.	2	0.9		0	5 s		w.	0.05	1.3	fair	G. W. Davis.
Fort Buford, Dakota	27.63	701.8	29.59	751.6	44	6.7	100	e.	8	3.6			10 n		calm	0.18	4.6	heavy rain	A. H. Bell.
Fort Custer, Montana	26.52	673.6	29.58	751.3	54	12.2	86	n.	4	1.8		0	6 s		calm	0.02	0.5	fair	V. Verge.
Fort Davis, Texas	25.11	637.8	29.72	754.9	65	18.3	70	sw.	4	1.8		0	0			0.01	0.3	clear	J. Williams.
Fort Elliott, Texas	27.05	687.1	29.72	754.9	63	17.2	68	calm	0	0		0	0			0.03	0.8	clear	W. J. Cundall.
Fort Grant, Arizona	25.19	639.8	29.73	755.1	57.9	14.4	42	n.	4	1.8		0	0			0	0	clear	Robert O. Lord.
Fort Keogh, Montana	27.15	689.6	29.58	751.3	54	12.2	80	w.	9	4.0		4 c	0	s.		0.02	0.5	fair	W. B. Stockman.
Fort Macon, North Carolina	29.95	760.7	29.96	761.0	75	23.9	82	ne.	16	7.2		1 k	hz.	n.	calm	0.03	0.8	clear	W. W. Thomas.
Fort McKavett, Texas	27.79	705.9	29.99	761.7	76	24.4	94	sw.	8	3.6			10 s			0.37	9.4	cloudy	J. E. Thatcher.
Fort Missoula, Montana	26.54	674.1	29.80	756.9	43	6.1	83	se.	2	0.9		0	0			0.02	0.5	clear	J. H. Jones.
Fort St. Michaels, Alaska	30.25	768.3	30.28	769.1	50	10.0	86	ne.	6	2.7		0	0			0	0	clear	A. P. Leavitt.
Fort Shaw, Montana	26.13	663.7	29.70	754.4	45	7.2	63	sw.	10	4.5		0	0			0.22	5.6	clear	A. L. Mathews.
Fort Sill, Indian Territory	28.60	726.4	29.80	756.9	75.5	24.2	89	s.	8	3.6		0	0			0.68	17.3	clear	T. Cleary.
Fort Smith, Arkansas	29.43	747.5	29.89	759.2	77.5	25.3	86	e.	6	2.7			10 s		se.	0	0	cloudy	J. B. Campbell.
Fort Stevenson, Dakota	27.79	705.9	29.59	751.6	53	11.7	100	se.	12	5.4			10 n			0.42	10.7	light rain	W. Burrows
Fort Verde, Arizona					57.9	14.4	72	w.			1	0	0			0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.24	615.7	29.62	752.3	50.3	10.2	76	nw.	10	4.5			10 n			0.17	4.3	light rain	T. M. Ambler.
Fredericksburg, Texas	28.19	716.0	29.87	758.7	75	23.9	88	sw.	12	5.4			10 ks		sw.	0	0	cloudy	H. S. Miles.
Galveston, Texas	29.91	759.7	29.96	761.0	82	27.8	91	s.	13	5.8		0	5 s			0	0	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.52	749.8	30.18	766.6	55.0	12.8	62	e.	4	1.8			10 s			0	0	cloudy	W. A. Reid.
Hatteras, North Carolina	29.93	760.2	29.95	760.7	75	23.9	69	ne.	28	12.5		0	hz.			0.11	2.8	clear	R. M. Crawford.
Helena, Montana	25.59	650.0	29.71	754.6	47	8.3	58	calm	0	0		4 k	0			0.07	1.8	fair	S. Whenton.
Henrietta, Texas	28.87	733.3	29.85	758.2	79.0	26.1	82	s.	12	5.4		1 c	0			0.14	3.6	clear	J. W. Byram.
Huron, Dakota	28.40	721.3	29.74	755.4	54.7	12.6	93	se.	16	7.2			10 n		se.	0.07	1.8	light rain	S. W. Glenn.
Indianapolis, Indiana	29.36	745.7	30.14	765.5	58	14.4	67	ne.	4	1.8		4 c	hz	w.		0	0	fair	O. Schutze
Indianola, Texas	29.91	759.7	29.94	760.5	81.3	27.4	88	s.	11	4.9		5 k	0	s.		0	0	fair	I. A. Reed.
Jacksboro, Texas	28.70	729.0	29.82	757.4	77	25.0	82	s.	14	6.3		2 cs	0			0.06	1.5	clear	J. P. Sherry.
Jacksonville, Florida	30.02	762.5	30.06	763.5	84	28.9	72	sw.	6	2.7		2 k	0	sw.		0	0	clear	J. W. Smith.
Keokuk, Iowa	29.39	746.5	30.03	762.7	55.0	12.8	60	e.	12	5.4			10 n		e.	Inap.	Inap.	light rain	F. Z. Gosewisch
Key West, Florida	30.04	763.0	30.06	763.5	87.0	30.6	61	se.	4	1.8		5 c	1 k			0	0	fair	R. H. Paxton.
Kittyhawk, North Carolina	30.00	762.0	30.02	762.5	68.5	20.3	81	n.	27	12.1		hz.	0			0.40	10.2	clear	E. A. Beals.
Knoxville, Tennessee	29.07	738.4	30.08	764.0	65.3	18.5	77	ne.	3	1.3		3 c	0	nw.		0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.31	744.5	30.07	763.8	57	13.9	57	se.	8	3.6			10 s			0	0	cloudy	S. C. Emery.
La Mesilla, New Mexico	26.05	661.7	29.77	756.1	49.6	9.8	70	calm	0	0		0	0			0	0	clear	N. D. Lane.
Leavenworth, Kansas	28.99	736.3	29.86	758.4	60	15.6	87	se.	9	4.0			10 n		se.	0.44	11.2	light rain	A. W. Browne.
Lewiston, Idaho	29.06	738.1	29.88	758.9	48	8.9	67	se.	2	0.9		0	8 s			0.03	0.8	cloudy	W. Bell.
Little Rock, Arkansas	29.64	752.8	29.95	760.7	78	25.6	97	se.	3	1.3		0	9 s		sw.	0.04	1.0	cloudy	W. U. Simmons.
Los Angeles, California	29.60	751.8	29.99	761.7	53.0	11.7	80	s.	6	2.7		0	2 s		calm	0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.55	750.6	30.10	764.5	60	15.6	65	ne.	8	3.6		5 cs	c			0	0	fair	H. C. Smyth.
Lynchburg, Virginia	29.37	746.0	30.04	763.0	74.0	23.3	52	e.	4	1.8		0	0			0.08	2.0	clear	W. R. Bushby.
Madison, Wisconsin	29.14	740.1	30.13	765.3	53	11.7	66	e.	12	5.4			10 s		e.	0	0	cloudy	C. A. Shaw.
Marquette, Michigan	29.49	749.0	30.21	767.3	51	10.6	72	w.	1	0.4		3 c	0	w.		0	0	clear	J. Gilligan.
Memphis, Tennessee	29.68	753.9	30.01	762.2	70	21.1	78	e.	4	1.8		0	4 s			0	0	fair	D. T. Flannery.

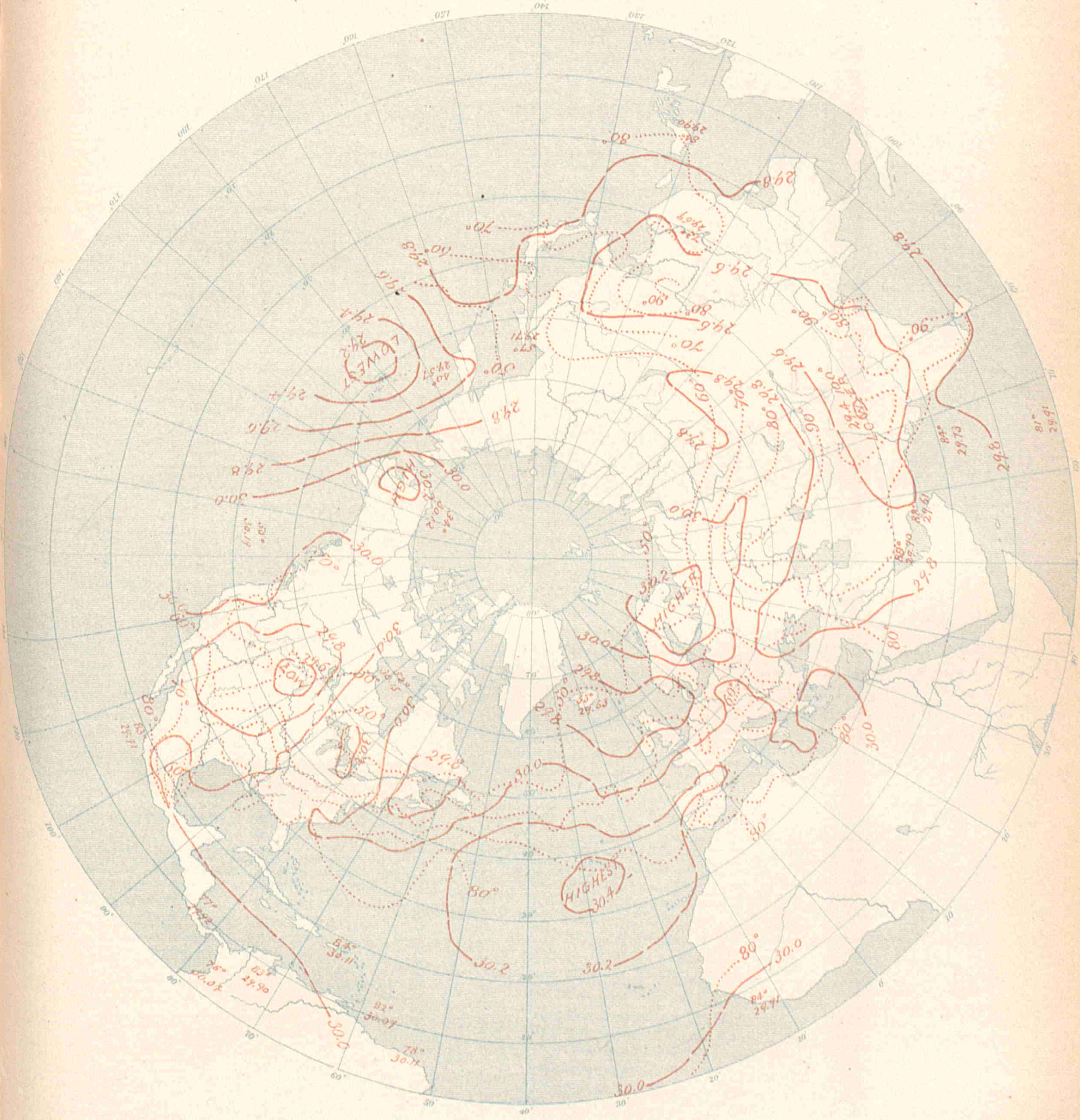
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	29.42	747.3	30.16	766.1	50	10.0	86	ne.	5	2.2			10 s		w.	0	0	cloudy	W. Line.
Mobile, Alabama	30.03	762.7	30.07	763.8	81	27.2	85	sw.	1	0.4		1 c	0			0	0	clear	J. D. Paxton.
Montgomery, Alabama	29.83	757.7	30.06	763.5	77.7	25.4	80	sw.	2	0.9		1 c	0			0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	28.87	733.3	29.84	757.9	56	13.3	74	se.	18	8.0			10 s		se.	0	0	cloudy	H. Bessant.
Morgantown, W. Virginia	29.18	741.2	30.18	766.6	60.0	15.6	70	ne.	1	0.4		0	5 s		ne.	0.36	9.1	fair	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.59	599.2	29.71	754.6	30.0	— 1.1	96	nw.	47	21.0			fg.		nw.	2.57	65.3	dense fog	J. G. Linsley.
Nashville, Tennessee	29.54	750.3	30.06	763.5	66.5	19.2	68	ne.	4	1.8		6 cs	0	sw.		0	0	fair	L. A. Jesunofsky.
New Haven, Connecticut	29.79	756.7	29.90	759.4	59	15.0	65	n.	23	10.3		0	0			0.09	2.3	clear	J. H. Sherman.
New London, Connecticut	29.81	757.2	29.86	758.4	65	18.3	63	nw.	12	5.4		1 k	0	nw.		0.06	1.5	clear	J. G. Lynch.
New Orleans, Louisiana	29.99	761.7	30.04	763.0	80.7	27.1	80	se.	3	1.3		0	sk.			0	0	clear	L. Dunne.
Newport, Rhode Island	29.80	756.9	29.85	758.2	63.8	17.7	71	nw.	13	5.8		2 k	0	nw.		0	0	clear	W. McGillivray.
New River, N. Carolina											1								C. C. Corbin.
New Shoreham, Rhode I'd.	29.81	757.2	29.84	757.9	64.0	17.8	78	n.	16	7.2		0	2 s		n.	0.10	2.5	clear	W. Davis.
New York, New York	29.80	756.9	29.97	761.2	61	16.1	65	n.	9	4.0		1 cs	0			0.94	23.9	clear	J. B. Merrill.
Norfolk, Virginia	29.98	761.5	30.01	762.2	71	21.7	62	n.	13	5.8		0	0			inap.	inap.	clear	J. T. Elker.
North Platte, Nebraska	26.88	682.7	29.68	753.9	58.1	14.5	94	s.	6	2.7			10 s			0.39	9.9	cloudy	E. F. Brady.
Olympia, Washington T'y	29.95	760.7	29.99	761.7	42.0	5.6	92	s.	1	0.4			10 s		calm	0.02	0.5	cloudy	J. Dascomb.
Omaha, Nebraska	28.78	731.0	29.92	760.0	56.8	13.8	96	ne.	8	3.6			10n;fg			0.73	18.5	heavy rain	A. Pollak.
Ogdenamie, Pt. Barrow, Alas.	30.11	764.8	30.12	765.0	34.0	1.1	100	w.	12	5.4			fg.			inap.	inap.	dense fog	P. H. Ray.
Oswego, New York	29.78	756.4	30.10	764.5	54.0	12.2	80	nw.	9	4.0		0	0			0.28	7.1	clear	S. W. Beall.
Palestine, Texas	29.45	748.0	29.99	761.7	77.5	25.3	88	s.	8	3.6			10 ks		s.	0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.04	763.0	30.07	763.8	80.3	26.8	88	sw.	2	0.9		4 cs	1 s	w.		0	0	fair	M. McGauran.
Philadelphia, Pa.	29.93	760.2	30.03	762.7	62	16.7	60	nw.	16	7.2		0	3 k		nw.	0.56	14.2	clear	T. F. Townsend.
Pike's Peak, Colorado	17.77	451.3	29.59	751.6	21.5	— 5.8	85	w.	12	5.4		0	0			0.32	8.1	clear	L. M. Dey.
Pioche, Nevada	23.86	606.0	29.66	753.4	53.3	11.8	61	s.	11	4.9		0	0			0.06	1.5	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.36	745.7	30.14	765.5	55.0	12.8	74	ne.	4	1.8		0	0			0.06	1.5	clear	J. H. Bryce.
Poplar River, Montana	27.44	697.0						se.			1		10 s		calm	0.08	2.0	cloudy	U. D. Maxwell.
Port Eads, Louisiana	30.08	764.0	30.09	764.3	78.5	25.8	90	s.	2	0.9		0	0			0	0	clear	H. G. Christian.
Port Huron, Michigan	29.54	750.3	30.21	767.3	52.0	11.1	66	ne.	8	3.6		0	0			0.04	1.0	clear	W. O. Bailey.
Portland, Maine	29.74	755.4	29.79	756.7	60.0	15.6	60	nw.	14	6.3		6 k	0	nw.		0.06	1.5	fair	W. W. Eichelberger.
Portland, Oregon	29.95	760.7	30.02	762.5	49.6	9.8	88	s.	4	1.8			10 s			0.79	20.1	cloudy	M. L. Hearne.
Portsmouth, N. Carolina																			F. P. Chaffee.
Prescott, Arizona	24.70	627.4	29.72	754.9	55	12.8	72	s.	4	1.8		0	0			0	0	clear	J. McN. Wright.
Provincetown, Mass.	29.77	756.1	29.80	756.9	59.5	15.3	87	nw.	18	8.0		3 k	6 s	nw.	nw.	0.12	3.0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.06	763.5	30.07	763.8	80	26.7	74	e.	5	2.2		3 c	1 k	calm	calm	0	0	fair	W. J. Evans.
Red Bluff, California	29.62	752.3	29.98	761.5	54.0	12.2	49	nw.	7	3.1		0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.69	754.1	29.92	760.0	82	27.8	82	se.	12	5.4		0	4 ks		se.	0	0	fair	P. M. Wilson.
Rochester, New York	29.48	748.8	30.13	765.3	54	12.2	74	nw.	7	3.1		0	0			0.02	0.5	clear	E. W. McGann.
Roseburg, Oregon	29.54	750.3	30.09	764.3	50	10.0	86	calm	0	0			10 n		sw.	0.03	0.8	light rain	J. J. Nanry.
Sacramento, California	29.90	759.4	29.97	761.2	54.1	12.3	80	ne.	2	0.9		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.50	749.3	30.09	764.3	55.0	12.8	93	e.	6	2.7			10 s		e.	0	0	cloudy	J. H. Webber.
St. Paul, Minnesota	29.15	740.4	30.00	762.0	57.0	13.9	69	se.	16	7.2		7 cs	2 s	w.	se.	0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.08	738.6	29.93	760.2	53	11.7	93	e.	7	3.1			10 n		e.	0.03	0.8	light rain	G. Kingsbury.
Salt Lake City, Utah	25.45	646.4	29.67	753.6	54	12.2	74	e.	3	1.3			10 ks			0.91	23.1	threatening	J. Craig.
San Antonio, Texas	29.21	741.9	29.89	759.2	79	26.1	88	se.	4	1.8			9 ks		se.	0	0	cloudy	E. Lane.
San Diego, California	29.88	758.9	29.94	760.5	62.1	16.7	87	nw	2	0.9			10 s		nw.	0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.52	749.8	30.19	766.8	59	15.0	70	ne.	4	1.8		0	0			0	0	clear	M. H. Perry.
Sandy Hook, New Jersey	29.93	760.2	29.97	761.2	60.0	15.6	75	nw.	27	12.1		8 k	0	nw.		1.13	28.7	cloudy	B. A. Blundon.
San Francisco, California	29.96	761.0	30.03	762.7	52.5	11.4	72	w.	7	3.1		0	0			0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.23	590.0	29.74	755.4	50	10.0	56	e.	3	1.3		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	29.93	760.2	30.02	762.5	84	28.9	72	w.	8	3.6		0	0			0	0	clear	H. W. Ford.
Shreveport, Louisiana	29.74	755.4	29.98	761.5	77	25.0	90	s.	4	1.8		0	9 s		s.	0	0	cloudy	E. N. Meekins.
Silver City, New Mexico	24.24	615.7	29.74	755.4	51	10.6	64	nw.	5	2.2		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	29.91	759.7	29.97	761.2	49	9.4	77	calm	0	0		0	0			0	0	clear	J. J. McLean.
Smithville, North Carolina	29.92	760.0	29.96	761.0	80	26.7	82	nw.	6	2.7		0	0			0.14	3.6	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.84	707.1	29.88	758.9	44	6.7	93	sw.	8	3.6		9 k	0	sw.		0.08	2.0	cloudy	D. Moore.
Springfield, Illinois	29.45	748.0	30.12	765.0	56	13.3	74	se.	4	1.8		3 c	6 s	w.	sw.	0	0	cloudy	T. B. Jennings.
Springfield, Massachusetts	29.80	756.9	29.93	760.2	59.4	15.2	70	nw.	8	3.6		8 k	0	w.		0.76	19.3	cloudy	T. S. Outram.
Springfield, Mo.	28.54	724.9	30.00	762.0	66.5	19.2	90	se.	9	4.0			10 s		s.	inap.	inap.	threatening	J. B. Marbury.
Starkville, Miss.	29.56	750.8	30.03	762.7	79	26.1	88	s.	4	1.8		3 c	2 k		s.	0.09	2.3	fair	M. J. Wright.
Stockton, Texas	26.90	683.2	29.82	757.4	68.5	20.3	100	sw.	4	1.8		3 c	0	calm		0.63	10.0	clear	J. O'Dowd.
Thatcher's Island, Mass.	29.76	755.9	29.81	757.2	58.0	14.4	74	nw.	28	12.5		4 k	4 s	nw.	nw.	0.05	1.3	cloudy	G. Liebmann.
Toledo, Ohio	29.51	749.5	30.19	766.8	56	13.3	94	e.	4	1.8		1 c	0	w.		0	0	clear	A. Buell.
Tucson, Arizona	29.48	748.8	29.78	756.4	63	17.2	45	s.	2	0.9		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.59	751.6	29.95	760.7	50	10.0	64	sw.	19	8.5		2 ck	1 s	nw.		inap.	inap.	clear	J. Daly.
Uvalde, Texas	28.92	734.6	29.86	758.4	79	26.1	82	s.	6	2.7			10 s		s.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.78	756.4	30.03	762.7	78	25.6	88	s.	2	0.9			10 s		sw.	0	0	cloudy	H. P. Brisbane.
Visalia, California	29.55	750.6	29.92	760.0	57	13.9	45	nw.	5	2.2		0	0			0	0	clear	W. L. Seward.
Washington, D. C.	29.97	761.2	30.08	764.0	62.0	16.7	64	nw.	8	3.6		5 k	0	nw.		0.01	0.3	fair	B. M. Purssell.
West Las Animas, Colorado	25.89	657.6	29.67	753.6	55.9	13.3	60	nw.	11	4.9		0	0			0.10	2.5	clear	F. W. Brandenburg.
Williamsport, Pa.	29.51	749.5	30.11	764.8	59	15.0	56	n.	2	0.9			10 ks		nw.	0.40	10.2	cloudy	B. F. Hough.
Wilmington, N. Carolina	29.91	759.7	29.96	761.0	79	26.1	74	n.	3	1.3		1 cs	0	w.		0.01	0.3	clear	A. T. Sherwood.
Winnemucca, Nevada	25.55	649.0	29.81	757.2	42	5.6	82	se.	6	2.7			10 n		sw.	0.20	5.1	light rain	J. R. Williams.
Yankton, Dakota	28.48	723.4	29.76	755.9	57	13.9	80	se.	14	6.3		0	8 ks		s.	0.13	3.3	cloudy	J. H. Atfield.
Yuma, Arizona	29.62	752.3	29.76	755.9	67.3	19.6	54	w.	1	0.4		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.02	559.3			54.0	12.2	71	ne.	2	0.9		2 cs	5 ks		w.	0	0	fair	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.06	763.5	30.07	763.8	82	27.8	91	ne.				5 k	5 ks	e.	e.	1.00	25.4	fair	J. A. Racker.
Buenaventura, U. S. C.	30.01	762.2	30.04	763.0	76	24.4	95	n.	8	3.6			10 ks		calm	0.50	12.7	cloudy	J. I. Plume.
Havana, Cuba, W. I.	30.09	764.3	30.14	765.5	80	26.7	79	calm	0	0		6 cs	1 ks			1.15	29.2	fair	A. Van Cangheim.
Kingston, Jamaica, W. I.	30.03	762.7	30.04	763.0	82.3	27.9	71	calm	0	0		10 cs	0			0	0		Robert Johnston.
Magua, San Domingo, W. I.					74	23.3		e.			1	0	0			0	0		S. M. Pike.
Paramaribo, S. A.	30.11	764.8	30.11	764.8	78	25.6	91	e.			2		10 n	e.	e.	0.700	17.8	rainy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.44	747.8	29.90	759.4	83	28.3	80	calm			0	8 ck	0	calm		0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							100	e.			1					1.80	45.7	cloudy	Earl Flint.
Santiago de Cuba, W. I.	30.00	762.0	30.03	762.7	84	28.9	64	n.	2.4	1.1		2 c	0			0	0	fair	Robert Mason.
York Factory, B. A.	30.09	764.3	30.15	765.8	52.0	11.1	86	s.	10	4.5		0	0			0	0	clear	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Alert, Simon's Bay, Cape Colony, Africa	30.21	767.3	64	17.8	77	e.					4							d. clouds.
H. M. S. Alexandra, Alexandria, Egypt	29.99	761.7	73	22.8	71	nnw.			3		3	nnw.				2	wnw.	d. clouds.
H. M. S. Amethyst, Montevideo, Uruguay	30.02	762.5	50	10.0	96	s.			2		8							d. clouds.
H. M. S. Antelope, N. 41° 08', E. 29° 03'	30.00	762.0	73	22.8		calm			0		4	wnw.						d. clouds.
H. M. S. Arab, Jask, Persia	29.51	749.5	88	31.1	88	sw.			2		2							misty.
H. M. S. Bacchante, N. 39° 02' E. 18° 08'	30.01	762.2	75	23.9	72	calm			0		0							misty.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.19	766.8	70	21.1		calm			0		0							blue sky.
H. M. S. Champion, N. 19° 50', W. 163° 30'			78	25.6		e.			1-2		2					2	ne.	d. clouds.
H. M. S. Cleopatra, N. 34° 19', E. 138° 26'	29.87	758.7	69.5	20.8	90	ene.			2		5	calm				1	s.	d. clouds.
H. M. S. Coquette, Port Said, Egypt	29.94	760.5	73	22.8		n.			3		2	wnw.						d. clouds.
H. M. S. Cruiser, N. 39° 26', E. 14° 15'	30.02	762.5	74	23.3		w.			1		3	sw.				1	ssw.	d. clouds.
H. M. S. Diamond, S. 10° 17', E. 161° 38'	29.89	759.2	80	26.7	91	calm			0		2	n.						d. clouds.
H. M. S. Dido, N. 11° 25', W. 64° 10'	30.03	762.7	77	25.0		ene.			4		7	ene.				4	ene.	d. clouds.
H. M. Dock Yard, Bermuda, W. I.	30.18	766.6	77	25.0	90	ssw.			1-2		5	ssw.						d. clouds.
H. M. S. Druid, N. 17° 53', W. 76° 00'	30.02	762.5	83.5	28.6	91	ese.			3-4		9	ese.				4	e.	squally.
H. M. S. Dwarf, S. 25° 16', W. 57° 45'	29.84	757.9	56.7	13.7	98	nne.			1-2		10							drizzling.
H. M. S. Eclipse, S 4° 37', E. 55° 30'	29.93	760.2	81	27.2		ese.			2		3							d. clouds.
H. M. S. Emerald, S. 49° 20', W. 52° 50'	29.15	740.4	40	4.4	100	nw.			5							4	nw.	overcast.
H. M. S. Euryalus, Trincomalee, Ceylon, India	29.80	756.9	87.5	30.8	90	sw.			2		1	calm						blue sky.
H. M. S. Espiegle, S. 20° 23' E. 170° 18'	30.03	762.7	75	23.9	76	e.			3		9					2	e.	d. clouds.
H. M. S. Fawn, S. 25° 39', E. 43° 14'	30.10	764.5	71.5	21.9	63	sw.			2		1					2	sw.	blue sky.
H. M. S. Fantome, N. 11° 23' W. 76° 18'	29.88	758.9	82	27.8		nne.			5-6		7	nne.				5	nne.	d. clouds.
H. M. S. Flying Fish, N. 37° 21', E. 125° 23'	29.56	750.8	65.5	18.6	90	wnw.			1		5							d. clouds.
H. M. S. Gannet, S. 29° 56', W. 71° 20'	30.02	762.5	51	10.6	93	n.			1		10							foggy.
H. M. S. Garnet, Montevideo Uruguay	30.06	763.5	48	8.9	92	s.			2		10							drizzling.
H. M. S. Griffon, N. 49° 05' W. 53° 35'	30.07	763.8	50	10.0	86	sse.			1		5							foggy.
H. M. S. Inconstant, N. 17° 00' W. 25° 00'	30.06	763.5	75	23.9	85	n.			1-2		8	nnw.				3	nne.	d. clouds.
H. M. S. Iris, N. 34° 40', E. 18° 00'	30.00	762.0	72	22.2	75	e.			2		1	e.				1	ene.	blue sky.
H. M. S. Iron Duke, N. 35° 26', E. 139° 39'	29.81	757.2	69	20.6	95	s.			1		5	sse.						d. clouds.
H. M. S. Kingfisher, Acapulco, Mexico	29.89	759.2	84	28.9		w.			1		6							d. clouds.
H. M. S. Lark, S. 10° 40', E. 162° 22'	29.93	760.2	81.3	27.4		se.			1		2					1	e.	d. clouds.
H. M. S. Magpie, N. 35° 20', E. 140° 27'	29.81	757.2	69.9	21.1	93	s.			1		0					3	se.	blue sky.
H. M. S. Minotaur, N. 37° 23', E. 10° 28'	30.10	764.5	70.5	21.4	77	nw.			4		3					3	wnw.	misty.
H. M. S. Nelson, S. 36° 11' E. 175° 20'	29.80	756.9	58	14.4	94	n.			1-3		9							raining.
H. M. S. Northampton, Halifax, Nova Scotia	29.78	756.4	56	13.3	100	ssw.			1									foggy.
H. M. S. Rambler, Benguela, Benguela	29.97	761.2	69	20.6	100	ne.			1		1							blue sky.
H. M. S. Rocket, N. 50° 40', W. 127° 00'	29.96	761.0	51	10.6	86	calm			0		4							d. clouds.
H. M. S. Sappho, S. 26° 00' W. 113° 00'	30.10	764.5	63.5	17.5		s.			0		6	s.				6	s.	showery.
H. M. S. Swiftsure, N. 4° 50', W. 23° 00	30.04	763.0	75.5	24.2	90	sse.			3		8	sse.				2	sse.	d. clouds.
H. M. S. Sylvia, S. 24° 29', W. 44° 13'	30.13	765.3	69.7	20.9	81	ne.			3-4		3					3	ene.	d. clouds.
H. M. S. Tenedos, N. 47° 39' W. 56° 11'	30.01	762.2	59	15.0	97	calm			0		10							rain & fog.
H. M. S. Triumph, Valparaiso, Chili	30.03	762.7	52	11.1	86	calm			0		2	calm						d. clouds.
H. M. S. Woodlark, Bushire, Persia	29.60	751.8	88.5	31.4	72	wnw.			3-4		0					2	wnw.	blue sky.
PORTUGUESE NAVAL.																		
Rio Lima, Porto Praya, Cape Verd Islands	30.05	763.2	77.9	25.5	87	se.			1		1					2		blue sky.
Tamega, Macao, China	29.81	757.2	85.5	29.7	78	sw.			3		4							d. clouds.
SWEDISH NAVAL.																		
Saga, N. 37° 55', W. 25° 57'	30.41	772.5	69.1	20.6	75	calm			0		1							d. clouds.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	30.00	762.0	79	26.1	91	sw.	4	1.8			2		w.	0.86	21.8			fair.
Navy Yard, Portsmouth, N. H	29.82	757.4	59	15.0	70	nw.	14	6.3			5		nw.	0.4	10.			fair.
Naval Hospital, Yokohama, Japan*	29.71	754.6	68.5	20.3	95	s.			1		0			0	0			clear.
Adams, Mare Island, Cal	30.02	762.5	55	12.8	87	wsw.			3		2			0	0			clear.
Alaska, Callao, Peru	29.98	761.5	58	14.4	88	nnw.			2		8			0	0	sm'h		fair.
Alert, N. 42° 52', E. 157° 42'*	29.72	754.9	53	11.7	93	w.			2		10		calm	0	0	sm'h		foggy.
Alliance, N. 39° 26', W. 72° 28'	29.89	759.2	64	17.8	89	nnw.			3		5			h'vy	h'vy	sm'h		fair.
Ashuelot, Yokohama, Japan	29.82	757.4	71	21.7	90	sw.			2		2		calm					clear.
Brooklyn, Rio de Janeiro, Brazil	30.18	766.6	67	19.4	84	n.	4	1.8			8		calm	0	0	sm'h		fair.
Colorado, New York, N. Y	29.96	761.0	61	16.1	66	nnw.	0	0			2		nw.	1.02	25.9			light haze.
Constellation, Annapolis, Md*	30.03	762.7	63	17.2	62	nnw.			0		0							clear.
Enterprise, Norfolk, Va*	29.98	761.5	69	20.6	85	n.			3		2		nw.					clear.
Essex, S. 51° 11', W. 67° 15'	29.21	741.9	46	7.8	84	wsw.			7		10					mod.	sw.	overcast.
Franklin, Norfolk, Va	30.01	762.2	70	21.1	66	nnw.	18	8.0			0			0	0			clear.
Galena, Alexandria, Egypt	29.99	761.7	74	23.3	86	nnw.			2		0					sm'h		hazy.
Independence, Mare Island, Cal	30.01	762.2	54	12.2	67	wnw.			5		0			0	0			clear.
Iroquois, San Francisco, Cal	29.97	761.2	56	13.3	69	wsw.			2		0			0	0			clear.
Kearsage, Norfolk, Va	30.01	762.2	71	21.7	80	nnw.			4		2		n.					fair.
Lackawanna, Paita, Peru*	29.93	760.2	61	16.1	88	se.			2		10		se.					cloudy.
Lancaster, N. 37° 10' E. 7° 30'*	30.13	765.3	72	22.2	95	nne.			2		0			0	0	sm'h		misty.
Marion, S. 34° 53', W. 56° 13'	29.97	761.2	48	8.9	100	sse.			1		10		calm	light	light	sm'h		cloudy.
Michigan, Detroit, Michigan	30.19	766.8	59	15.0	65	ne.			1		0							clear.
Minnesota, Newport, R. I	29.88	758.9	64	17.8	73	nnw.	10	4.5			5		n.					threatening.
Monocacy, Nagasaki, Japan	29.70	754.4	75	23.9	100	calm			0		10		calm					rainy.
New Hampshire, Newport, R. I	29.76	755.9	65	18.3	84	n.			4-5		8		n.			sm'h		fair.
Nipsic, Trieste, Austria	30.04	763.0	71	21.7	42	nne.			3		2					sm'h		clear.
Onward, Callao, Peru†	30.07	763.8	59	15.0	94	nw.			3		10		s.			long	w.	cloudy.
Palos, Kobe, Japan	29.80	756.9	74	23.3	86	sw.			2		10		calm					cloudy.
Passaic, Washington, D. C	30.04	763.0	64	17.8	94	nw.			3		5		nw.					fair.
Pensacola, Callao, Peru	29.95	760.7	59	15.0	88	nw.	6	2.7			10			0	0	sm'h		cloudy.
Powhatan, Chester, Pa	30.04	763.0	63	17.2	97	nnw.			4		2							fair.
Portsmouth, off Bust, France*	30.02	762.5	58	14.4	100	wnw.			4		10		s.			mod.		cloudy.
Quinnebaug, Gibralter, Mediterranean	30.11	764.8	72	22.2	80	wnw.			1		0					sm'h		hazy.
Ranger, Mare Island, Cal*	29.97	761.2	56	13.3	69	wnw.			1		0			0	0	sm'h		clear.
Richmond, N. 33° 48' E. 130° 06'*	29.64	752.8	74	23.3	95	ne.			2		10		ne.	0.1	3.			cloudy.
Saratoga, N. 48° 36' W. 5° 14'	29.98	761.5	58	14.4	94	wnw.			3		10		wnw.	light	light	mod.	nw.	overcast.
St. Louis, League Island, Pa	30.18	766.6	61	16.1	61	nw.	13	5.8			2		nw.	0.3	8.			clear.
Swatara, Nagasaki, Japan*	29.53	750.0	76	24.4	91	calm			0		10		calm			sm'h		light rain.
Tennessee, N. 39° 21', W. 72° 23'	29.89	759.2	70	21.1	75	nw.	24	10.7			2			0.11	2.8			clear.
Vandalia, N. 39° 10' W. 72° 22'*	29.86	758.4	64	17.8	89	nnw.			5		2		n.			mod.	nnw.	fair.
Wabash, Boston, Mass	29.83	757.7	60	15.6	76	nw.	11	4.9			2		nw.	0.2	5.			clear.
Wachusetts, Sitka, Alaska	29.89	759.2	46	7.8	92	calm			0		0			0	0	sm'h		clear.
Wyoming, Port Royal, S. C	30.01	762.2	78	25.6	82	wsw.	8	3.6			2		calm	0.5	13.			clear.
Yantic, N. 39° 29', W. 72° 28'*	29.82	757.4	63	17.2	89	nnw.			4		2					mod.	nw.	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 52° 35′, W. 35° 40′*	30.12	765.0	49	9.4	85	nnw.			3		3		sw.	0	0	1	nnw.	d. clouds.
S. S. Grecian, N. 51° 22′ W. 33° 36′*	30.14	765.5				nw.			3		6?		nw.	6 h'r	6 h'r	mod.	nw.	clear.?
S. S. Prussian, Glasgow, Scotland*	29.56	750.8	56	13.3		sw.			3		4?		s.	0	0	mod.	ssw.	cloudy?
S. S. Scandinavian, N. 52° 51′ W. 21° 07′*	29.74	755.4	49	9.4		nnw.			5		10		w.	9 h'r	9 h'r	light		overcast.
S. S. Waldensian, N. 42° 25′, W. 64° 12′*	29.60?	751.8?	56	13.3		ssw.			2		fg			2 h'r	2 h'r	long	s.	dense fog.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, N. 39° 17′, W. 69° 21′	29.76	755.9	69	20.6	95	wnw.			3		8		sw.			mod.	s.	rainy.
S. S. Indiana, Liverpool, Eng.†	30.00	762.0	63	17.2	83	wsw.			3		8		sw.					cloudy.
S. S. Lord Clive, N. 38° 48°, W. 74° 26′ *†	29.94	760.5				nw.			4		0			0	0			fine.
S. S. Lord Gough, N. 40° 00′, W. 57° 03′	30.02	762.5	80	26.7		ssw.			5		5		ssw.	0	0	mod.	ssw.	fair.
S. S. Pennsylvania, N. 50° 56′, W. 12° 43′†	29.89	759.2	62	16.7		w			4				nw.			sm'h	nw.	foggy.
ANCHOR LINE.																		
S. S. Devonia, N. 40° 38′, W. 55° 34′†	30.28	769.1	79	26.1		ssw.			2		4		s.			short	ssw.	hazy
S. S. Ethiopa, New York, N. Y	29.94	760.5	66	18.9	59	nnw.			3		9		nw.	4 h'r	4 h'r			cloudy.
S. S. Utopia, N. 37° 43′, W. 0° 38′†..	30.32	770.1	81	27.2	63	calm			0		0			0	0	sm'h		clear.
ATLAS LINE.																		
S. S. Ailsa, Savanilla, U. S. C.†	29.91	759.7	84	28.9	87	ne.			2		2		ne.	0	0			fair.
S. S. Alvena, Arroyo, Porto Rico, W. I.†	29.99	761.7	81	27.2	83	ese.			2–3		5		e.	0	0			fine.
S. S. Alvo, N. 31° 52′, W. 74° 15′	30.08	764.0							4		4		ne.	4 h'r	4 h'r			
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 31° 35′, E. 79° 41′	30.35	770.9	59	15.0	66	calm			0		10							d. clouds.
S. Baroda, S. 4° 31′, E. 93° 50′	29.88	758.9	81.5	27.5	87	sse.			3		10							d. clouds.
British Merchant, N. 31° 52′ W 36° 16′	30.39	771.9	75.3	24.1	63	e.			2–3		5							d. clouds.
Glencairn, S. 4° 59′, W. 15° 04′	30.11	764.8	78	25.6	82	s.			4		3							d. clouds.
S. S Gordon Castle, N. 2° 29′, E. 64° 02′	29.91	759.7	81.3	27.4	87	w.			1–2		9							d. clouds.
May Hulse, S. 52° 57′, W. 49° 13′	29.11	739.4	38	3.3	95	nw.			6		10							raining.
S. S Minho, Porto Grande, Cape Verde Ids	30.07	763.8	77	25.0	77	ne.			4		7							misty.
S. S. Pole Star, S. 17° 31′, W. 27° 34′	30.20	767.1	72.6	22.6	83	sse.			5		6							showery.
CROMWELL LINE.																		
S. S. Hudson, N. 31° 25′, W. 80° 20′†	30.07	763.8	76	24.4		ssw.			3		2		s.	2 h'r	2 h'r	mod.	s.	fair.
CUNARD LINE.																		
S. S. Bothnia, N. 50° 03′, W. 21° 54′	29.88	758.9	64	17.8	83	nw.			5–6		10			12 h'r	12 h'r	mod.	nw.	raining.
S. S. Gallia, N. 47° 03′, W. 32° 09′	30.13	765.3	64	17.8	89	ne.			3					0	0	sm'h		foggy.
S. S. Scythia, N. 40° 31′, W. 68° 21′	29.97	761.2	65	18.3	?	wsw.			1		10		wsw.	2½h'r	2½h'r	mod.	sw.	foggy.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. France, N. 44° 55′, W. 38° 20′†	30.11	764.7	62.6	17.0		wnw.			3	ck		wnw.		0	0	sm'h	w.	hazy.
GUION LINE.																		
S. S. Arizona, N. 50° 54′ W. 21° 03′	29.86	758.4	57	13.9		w.			4		10		wnw.	3 h'r	3 h'r	mod.	w.	hazy.
S. S. Wisconsin, N. 40° 36′, W. 70° 00′*	29.63	752.6	58	14.4		w.			2		fg.		w.	6 h'r	6 h'r	mod.	w.	foggy.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, New York, N. Y. *†	29.98	761.5				n.			5		2		n.	2 h'r	2 h'r			
S. S. Herder, Hamburg, Germany*†	29.90	759.4	64	17.8		sse.			2		2?		w.	2 h'r	2 h'r			covered?
S. S. Lessing, N. 48° 04′, W. 21° 02′	30.05	763.2	60	15.6		wsw.			6		10			0	0	long	wnw.	misty.
INMAN LINE.																		
S. S. City of Berlin, N. 40° 54′ W. 52° —′	30.23	767.8				sse.			1		1		se.	0	0	sm'h		fair.
JOHNSTON LINE.																		
S. S. Thanemore, N. 51° 48′ W. 8° 18′	29.91	759.7				sw.			4		2		w.	3 h'r	3 h'r			fair.
LAMPERT AND HOLT'S LINE.																		
S. S. Humboldt, N. 50° 35′, W. 13° 25′*	29.96	761.0	56.5	13.6	100	sw.			6		10 s			12 h'r	12 h'r	4	nw.	drizzling.
MALLORY LINE.																		
S. S. Colorado, Galveston, Texas†	30.06	763.5	80	26.7		s.			3		1		s.	0	0			clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Hermod, N. 48° 08′, W. 27° 40′*†	29.86	758.4	60.8	16.0		nw.			4		10		nw.	2 h'r	2 h'r	mod.		foggy.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, Pernambuco, Brazil	29.57	751.1				s.			6				s.	4 h'r	4 h'r		se.	clear
S. S. Glenapp, S. 3° 41′, W. 36° 22′.*†	30.02	762.5				sse.			4		7		se.	5 h'r	5 h'r	long	se.	heavy rain.
NATIONAL LINE.																		
S. S. Denmark, N. 47° 45′. W. 24° 42′	30.14	765.5	60	15.6		wsw.			4		10			3 h'r	3 h'r	mod.	w.	raining.
S. S. England, N. 50° 36′, W. 19° 09′	29.98	761.5				w.			5		10		w.	8 h'r	8 h'r	mod.	w.	cloudy.
S. S. Greece, N. 44° 44′, W. 66° 56′	29.80	756.9				sw.			2–4		10		w.	3 h'r	3 h'r	mod.	sw.	heavy rain.
S. S. The Queen, N. 45° 03′, W. 35° 16′ *	30.13	765.3	59	15.0		ne.			1		5		calm	0	0			d. clouds.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY																		
S. S. Saratoga, N. 28° 30′, W. 78° 45′†	30.30	769.6	81	27.2	91	sw.			2		0			0	0	sm'h		clear.
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, New York, N. Y.*†	30.02	762.5	61	16.1	82	n.			3									clear.
S. S. City of Puebla, Havana, Cuba, W. I.†	29.96	761.0	89	31.7		ne.			1		5		ene.					fine.
S. S. City of Washington, N. 36° 00′, W. 74° 35′*†	30.05	763.3	73	22.8		n.			5		2		n.	0	0	light	sw.	fine.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N. 49° 52′, W. 11° 49′††	30.16	766.1	59	15.0		sw.			3								wsw.	rain & hail.
NORTH GERMAN LLOYD.																		
S. S. Graf Bismarck, Scheldt river, Belgium	29.93	760.2	57.2	14.0		w.*			3		4		w.			mod.	w.	fine.
S. S. Hermann, N. 50° 30′, W. 0° 31′†	29.77	756.1	57.2	14.0		e.			2		3		sw.	0	0	mod.	wnw.	fair.
S. S. Hohenzollern, N. 47° 04′ W. 27° 05′*	30.15	765.8	62	16.7		w.			6		10		w.	rain	rain	mod.	w.	
S. S. Leipzig, N. 40° 58′, W. 65° 02′	29.89	759.2	72.0	22.2	92	s.			4		2		ssw.	4 h'r	4 h'r	mod.	sw.	clear.
S. S. Mosel, N. 50° 05′, W. 4° 17′	30.01	762.2	64	17.8		nw.			4		6?		wnw.	1 h'r	1 h'r	mod.	ssw.	clear.?
S. S. Neckar, N. 41° 25′, W. 46° 49′			78.5	25.8	73	wnw.			2		2		wnw.	0	0	sm'h	s.	clear.
S. S. Oder, Southampton, England	29.93	760.2	68.0	20.0		w.			5		4		w.	2 h'r	2 h'r			fair.
S. S. Ohio, Bremerhaven, Germany	29.86	758.4				w.			1		5		w.	0	0			fair.
S. S. Rhein, N. 45° 37′, W. 33° 17′	30.19	766.8				w.			2		8		w.	0	0	mod.	w.	foggy.
S. S. Salier, Bremerhaven, Germany	29.84	757.9	57.2	14.0		s.			3		8		s.	1 h'r	1 h'r			cloudy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 25° 21′, E. 120° 08′*†	29.62	752.3	76	24.4	95	sw.			5		8		sw.	0	0	sm'h		d. clouds.
S. S. Belgic, N. 47° 44′, W. 179° 32′†	29.10	739.1	52	11.1	86	ese.			7		10			rain	rain	high	se.	cloudy.
S. S. Coptic, N 41° 52′ W. 135° 41′	30.29	769.4	56.4	13.6		w.			5		5		nnw.	0	0	2	nw.	gloomy.
S. S. Gaelic, Yokohama, Japan†	29.82	757.4	75	23.9	76	s.			2		3		se.			mod.	ne.	clear.
S. S. Oceanic, N. 43° 23′, E. 162° 25′*	29.74	755.4	45	7.2	85	wnw.			5		10		nw.			2	con.	misty.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga.†	30.12	765.0				w.			1		0			0	0			clear.
S. S. City of Columbus, Savannah, Ga †						w.			3		0			0	0			clear.
S. S. Seminole, Boston, Mass†	29.87	758.7	70	21.1	45	wnw.			6		8		nw.					cloudy.
OREGON IMPROVEMENT COMPANY.																		
S. S. Willametta, Seattle, Wash. Ter†	29.60	751.8	54	12.2	80	sse.			1		8		s.	0	0			cloudy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, Portland, Oregon†	29.97	761.2	48	8.9	92	s.			1		10		sw.					light rain.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 34° 25′, W. 120° 27′†	29.90	759.4	56	13.3	94	nnw.			4		0					mod.	nw.	clear.
S. S. Dakota, San Francisco, Cal.*†	30.01	762.2	56	13.3	94	calm			0		0					sm'h		clear.
S. S. Geo. W. Elder, Port Townsend, Wash. Ter.†	29.98	761.5	51	10.6	93	w.			3		5					sm'h		fair.
S. S. Idaho, N. 45° 36′, W. 123° 14′†	29.90	759.4	51	10.6	86	w.			4		10					sm'h		cloudy.
S. S. State of California, N. 40° 26′ W. 124° 30′†	30.10	764.5	50	10.0	93	nw.			5		4		nw.			short	nw.	fair.
S. S. Victoria, Portland, Oregon †	29.96	761.0	50	10.0	86	se.			2		5					sm'h		fair.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, S. 18° 18′, W. 172° 19′	29.86	758.4	73	22.8	72	s.			4		0			0	0	long	s.	clear.
S. S. City of Pekin, Hong Kong, China†	29.80	756.9	83	28.3	100	sw.			2		10		sw.	0	0	sm'h		cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
PACIFIC MAIL STEAMSHIP COMPANY.—CONTINUED.																		
S. S. City of Rio de Janeiro, Acapulco, Mexico*†	30.12	765.0	80	26.7	82	sw.			2		7		sw.	0.2	5.	sm'h		clearing.
S. S. City of Sydney, Sydney, N. S. W.†	29.94	760.5	49	9.4	57	w.			4		2		w.	0	0	sm'h		clear.
S. S. City of Tokio, N. 38° 02′, W. 125° 33′†	30.20	767.1	56	13.3	87	nnw.			6		8		n.	0	0	sm'h		fine
S. S. Clyde, N. 19° 00′, W. 104° 42′†	29.91	759.7	83	28.3	71	nnw.			2		8		nw.	1 h'r	1 h'r	long	w.	cloudy.
S. S. Colon, N. 16° 42′ W. 75° 19′†	30.05	763.3	82	27.8		e.			6		9		e.	0	0	mod.	ene.	cloudy.
S. S. Grenada, N. 9° 00′ W. 84° 36′†	29.83	757.7	80	26.7	87	ese.			1		10		e.	2 h'r	2 h'r	light	s.	cloudy.
S. S. South Carolina, Punta Arenas†	29.92	760.0	77	25.0	95	calm			0		2		ne.	0	0	light	sw.	
S. S. Zealandia, S. 35° 31′, E. 175° 58′	30.02	762.5	62	16.7	77	nw.			5		10		nw.			sm'h		
QUEBEC STEAMSHIP CO.																		
S. S. Bermuda, Antigua, W. It	30.13	765.3	85	29.4		ene.			3		8		ene.	0	0	g'tl	ese.	fine.
RED STAR LINE.																		
S. S. Nederland, N. 49° 28′, W. 13° 16′†	30.09	764.3	60	15.6		wsw.			4		10		wsw.			mod.	wsw.	overcast.
S. S. Rhynland, N. 49° 41′, W. 13° 25′	30.05	763.3	62	16.7	83	sw.			5		10		sw.	0	0	mod	sw.	cloudy.
S. S. Switzerland, N. 39° 36′, W. 65° 56′†	29.89	759.2				sse.			5		10		sse.	0	0	r'gh	s.	cloudy.
S. S. Vaderland, Jersey City, N. J	29.78	756.4	62	16.7	72	nnw.			3		5		nnw.	6 h'r	6 h'r			fair.
ROTTERDAM LINE.																		
S. S. P. Caland, N. 42° 20′ W. 41° 20′.†	30.26	768.6	70.0	21.1	92				2		8kn		ne.			sm'h	n.	foggy.
S. S. W. A. Scholten, North Hinder, Eng	29.82	757.4	59.8	15.4	90	wsw.			4		3		w.	0	0			
STATE LINE.																		
S. S. State of Florida, N. 41° 21′, W. 61° 42′	29.85	758.2	71	21.7		ssw.			4		3		ssw.	4 h'r	4 h'r	g'tl	sw.	fair.
S. S. State of Georgia, N. 52° 14′ W. 23° 50′†	29.99	761.7	53	11.7		nw.			4		8		nw.	2 h'r	2 h'r	sli't	wnw.	fair.
THINGVALLA LINE.																		
S. S. Thingvalla, Brooklyn, N. Y†	30.19	766.8	63.2	17.3		ne.			3		5?		ne.	0	0			covered.
WARREN LINE.																		
S. S. Iowa. N. 42° 25′, W. 63° 46′*†	30.00	762.0	54	12.2		sse.			4		9		sse.	16 h'r	16 h'r	sl't	s.	dense fog.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 39° 42′, W. 59° 33′	29.90	759.4									3		sw.			2	sw.	
WHITE STAR LINE.																		
S. S. Baltic, N. 49° 46′, W. 26° 48′ †	30.13	765.3	52	11.1	93	nnw.			4		10		nw.	12 h'r	12 h'r	mod.	nw.	drizzling.
S. S. Celtic, Liverpool, Eng†	29.91	759.7	58	14.4	100	n.			2		10		nnw.	0	0			cloudy.
S. S. Republic, N. 41° 42′, W. 49° 42′†	30.44	773.2	73	22.8	95	s.			3		4		s.	9 h'r	9 h'r	sm'h		d. clouds.
WILSON LINE.																		
S. S. Otranto, N. 48° 50′, W. 24° 03′†	30.19	766.8	61	16.1		wsw.			5		10		wsw.			short	wsw.	cloudy.
S. S. Romano. Boston, Mass	29.70	754.4	61	16.1														foggy.
MISCELLANEOUS.																		
Bg. Abbe Clifford, N. 22° 37′ W. 74° 22′.*†	30.14	765.5	82	27.8		e.			4		5			0	0	sm'h		fine.
Schr. Addie Fuller, Off Succonesset Light, Mass†	29.86	758.4	63	17.2	88	nnw.			3	0	6 k		n.	0.26	6.6			fair.
Schr. Ajax, N. 28° 20′, W. 96° 21′†	29.98	761.5				se.			1		4		s.	0	0	r'gh	s.	fair.
Bk. Alpha, N. 35° 20′, W. 74° 05′†	29.96	761.0	78	25.6		nnw.			5		7		ne.	2 h'r	2 h'r	cross		cloudy.
Schr Annie Lewis, Mobile Bay, Ala†	30.19	766.8	83	28.3		wsw.			2		5?		wsw.	0	0	sm'h		cloudy.?
Bk. Anna Thormann, S. 20° 05′ W. 31° 58′	30.24	768.2	73.0	22.8	81	ese.			4		8 k		se.	0	0	short	s.	fair.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.35	770.9	73	22.8		nnw.			1		8		calm	0	0			hazy.
Bk. Bergenseren. N. 40° 00′, W. 69° 30′†	29.65	753.2	62	16.7		wnw.			3				wnw.	h'vy	hv'y	3	ssw.	foggy.
Schr. C. R. Flint, N. 26° 26′, W. 90° 19′†	30.24	768.1	77	25.0		se.			1		2		ese.	0	0	sm'h	s.	clear.
Schr. Edith R. Seward, Wilmington, N. C*†	30.02	762.5	80	26.7		nnw.			2		1		calm	0	0			clear.
S. E. J. Spicer, N. 48° 30′, W. 44° 30′†	30.27	768.8				wnw.			2		fg.			rain	rain	mod	wsw.	
Bk. Essex, S. 5° 08′ W. 31° 30′*†	30.00	762.0	84	28.9		ese.			3		4?		ese.	1 h'r	1 h'r	long	se.	cloudy?
S. Exporter, S. 23° 40′, E. 81° 00′*†	30.20	767.1				ssw			6		3		ssw.	0	0	long	ssw.	
Bk Freya, N. 41° 28′ W. 44° 57′			73	22.8		ese.			1		5			3 h'r	3 h'r	sm'h		fair.
S. Grecian, Hong Kong, China*†	29.90	759.4	83	28.3		se.			2		2		se.	0	0			clear.
Bk. Hattie G. McFarland, N. 44° 18′, W. 62° 22′*†	30.04	763.0	58	14.4		ssw.			3		fg.			4 h'r	4 h'r	short	ssw.	foggy.
S. Hedwig, N. 43° 09′, W. 29° 59′	30.34	770.6	65.8	18.8	99	ssw.			4		9		ssw.	1 h'r	1 h'r	short	ssw.	overcast.
S. Ismir, S. 31° 20′, W. 26° 30′†	30.37	771.4				sse.			3		6		s.			swell	sse.	fine.
Schr. James Slater, Para, Brazil*†	30.22	767.6	81	27.2		calm			0		2		se.	1 h'r	1 h'r			
Schr. Jennie N. Huddell, N. 43° 42′ W. 69° 45′†	29.95	760.7	63	17.2	83	nnw.			3		8		nw.	0	0	short	s.	cloudy.
Schr. John L. Thomas, N. 14° 12′, W. 82° 52′*†	29.98	761.5				ne.			5		9		ene.	½ h'r	½ h'r			cloudy.
S. S. Lamperts, N. 19° 09, E. 66° 40′*	29.74	755.4	83.5	28.6	75	wsw.			5		4 ks					4		misty.
Light House Tender, Laurel, Off Marquesas Keys, Fla†	30.11	764.9	86	30.0		ese.			1		4		se.	0	0			fair.
S. S. Malabar, N. 22° 30′, E. 116° 22′*†	29.77	756.1				sw.			2					0	0	sm'h		clear.
S. M. P. Grace, N. 11° 25′, W. 34° 02′*	30.02	762.5	78	25.6		ne.			4				ne.	0	0	sm'h	e.	
S. S. Nebo, Sydney, Cape Breton Island*†	29.92	760.0				se.			4		10			1 h'r	1 h'r			dense fog.
Bk. Orpheus, N. 38° 56′, W. 66° 20′	29.91	759.7	78	25.6		s.			6		8 k					sm'h	s.	hazy.
S. Paranita, S. 54° 57′ W. 83° 00′†	29.33	745.0	41	5.0		wsw.			6		8		wsw.	4 h'r	4 h'r	h'vy	cross	
Bk. Peppina, Newport, England†	29.89	759.2	64	17.8	78	sw.			2		5		sw.	0	0			fair.
Bg. Potomac, N. 16° 43′, W. 56° 47′*†	30.10	764.5				ene.			3				e.	0	0	mod.	ese.	
Bk. Rosebud, S. 25° 43′, W. 16° 38*†	30.20	767.1	66	18.9	84	sw.			4		8		sw.	sqll's	sqll's	hv'y	sw.	
S. Salisbury, S. 27° 00′ E. 105° 00′*	30.06	763.5	66.2	19.0	78	wnw.			3		0			½ hr	½ hr	long	wsw.	clear.
Bg. Teneriffe, N. 22° 04′, W. 76° 50′	30.01	762.2				ese.			3		5		e.	0	0	mod.		fine.
Bk. Truro, Havre, France*†	29.92	760.0				wnw.			2		10		wnw.	0	0			misty.
U.S.F.C.S.S. Fish Hawk, Blackistone Id, Md†	30.21	767.3	68	20.0	90	n.			4		3		calm	0.12	3.0			clear.
Yacht Vega, Off Fenwick's Id, Md*†	29.90	759.4	62	16.7		nnw.			6		1		nnw.	sqll's	sqll's		n.	clear.
S. S. Victoria J. Peed, Salamanca Id, U. S. C†*	29.11	739.4				ne.			4		1							
Bk. Vincenzo Accame N. 36° 50′, W. 26° 40′†	30.63	778.0	71.6	22.0		e.			1									
Schr Viola Reppard, Brunswick, Ga†	29.96	761.0	82	27.8		wsw.			1		2		wsw.	0	0			clear.
Bkt. Wandering Jew, Boston, Mass†*	29.84	757.9	62	16.7		nw.			6		2		nw.	0	0			clear.
Bk. Warden Law, N. 44° 28′ W 24° 47′*	30.13	765.3				n.			3				nnw.	8 h'r	8 h'r	sm'h	w.	foggy.
Bg. Wauburn, N. 35° 41′, W. 73° 08′*†	30.00	762.0				ssw.			4		7		se.	0	0	mod	se.	clear?
Bk. Wm. Wilcox, S. 7° 05′ W. 32° 30′*†	30.20	767.1	77	25.0		sse.			4		10		se.	3 h'r	3 h'r	sm'h		cloudy.
S. Wm. Woodbury, N. 36° 40′ W. 65° 02′*	29.81	757.2	82	27.8	87	ssw.			7		8		ssw.			cross	ssw.	covered.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 21, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.04	763.1	79.5	26.4	65	e.			1		0			0	0	clear	Moiroud.
Algiers			30.08	763.9	74.8	23.8	64	ne.			2		0			0	0	clear	Nicolas.
La Calle			30.14	765.5	75.2	24.0	67	ene.			4		1			0	0	very fair	Fonfrède.
Tunis			30.13	765.4															Jacques.
Saida			30.11	764.8	97.5	36.4	29	nw.			4		0			0	0	clear	Perès.
Tebessa			30.16	766.0	83.5	28.6	19	w.			1		0			0	0	clear	Derché.
Geriville					90.3	32.4	14	wsw.			3		2			0	0	fair	Louchamp.
Laghouat			30.14	765.6	87.8	31.0	42	e.			6		3			inap.	inap.	pretty fair	Abraham.
Biskra			30.14	765.6	87.8	31.0	30	se.			1		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	30.12	765.0	30.21	767.3	44.0	6.7	78	nnw.	4	1.8			1			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.47	748.6	30.01	762.2	69.8	21.0	48	e.			3		4			0.063	1.6	raining	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.23	742.4	29.98	761.5	65.3	18.5	92	w.	6.3	2.8			4			0	0		Dr. Wierzbiski.
Eperies	29.07	738.3	29.91	759.8	69.8	21.0	45	calm			0		9 ks			0	0		Julius Mikolik.
Gratz	28.79	731.2	30.02	762.4	63.0	17.2	76	w.			2		5			0.094	2.4	thunder	Andreas Rospini.
Hermannstadt	28.57	725.7	29.95	760.7	71.6	22.0	57	nw.			3		5			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.72	729.4	30.05	763.2	57.4	14.1	79	sw.			2		10			0.311	7.9		The Staff.
Lemberg	28.98	736.0	29.94	760.4	65.1	18.4	55	nw.			3		5			0	0		Dr. T. Stanecki.
Pola	29.92	760.0	30.03	762.8	72.3	22.4	80	wnw.			2		4			0	0		I. R. Hydrographic Office.
Szathmar	29.52	749.8	29.97	761.3	68.7	20.4	45	nw.			2		6			0	0		Joseph Midlinszky, S. J.
Szegedin	29.72	754.9	29.99	761.8	70.2	21.2	48	calm			0		5			0.008	0.2		Karl Stancel.
Trieste	29.94	760.4	30.04	763.0	73.8	23.2	53	s.			1		2			0.020	0.5		Royal Academy.
Vienna	29.34	745.3	30.05	763.2	62.6	17.0	64	w.			2		8			0.055	1.4		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.51	749.5	29.60	751.8	53.6	12.0	90	s.	22	9.8			10			0.005	0.1	drizzling	W. Boswell
Armagh, Observatory																			S. Gall.
Bidston, Liverpool Obs'y			29.76	755.9	53.1	11.7	96	w.	17	7.6			10					raining	John Hartnup.
Bolton, Sharples	29.21	741.9	29.73	755.1	54.1	12.3	96	w.	3	1.3			10					raining	Thomas Mackereth. [A.S.
Bradford, Yorkshire	29.33	745.0	29.73	755.1	61.2	16.2	81	se.			1		10			0.07	1.8	overcast	J. McLandsborough, F. R
Bridgetown, Barbadoes																			Corpl. J. Surgenor, A. H.C.
Cardington			29.83	757.7	63.0	17.2	83	sw.			1.0		10					overcast	John McLaren.
Chatham, School M. E.	29.81	757.2	29.94	760.5	61.8	16.6	83	s.			2		9					d clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.63	752.6	29.86	758.4	59.2	15.1	90	wsw.			1		10					rain & fog	The Staff.
Fort Napier, Natal	27.90	708.6	30.12	765.0	64.5	18.1	33	calm			0		0					blue sky	Pvt. Lane, A. H.C.
Free Town, Sierra Leone	29.62	752.3	29.85	758.2	86.0	30.0	68	w.			3		6					drizzling	Sergt. John Robinson.
Gibraltar, Mediterranean	30.02	762.5	30.07	763.8	78.5	25.8	73	e.			4		0					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.46	748.3	29.66	753.4	54.5	12.5	79	w.			6		10n;k					gloomy	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.74	755.4	29.90	759.4	62.9	17.2	80	ssw.			1		10					showery	The Staff.
Guernsey	29.65	753.1	29.95	760.7	62.5	16.9	75	sw.			1		10					drizzling	A. Collenette, F. M. S.
Kew, Observatory	29.87	758.7	29.91	759.7	62.7	17.1	71	sw.	20	8.9			10					threatening	The Staff.
Leicester, Museum	29.55	750.6	29.80	756.9	61.2	16.2	77	sw.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	29.96	761.0	30.04	763.0	74.0	23.3	68	ne.			2		2					blue sky	I. H. Whysall.
Nassau, Bahamas	30.16	766.1	30.21	767.3	84.8	29.3	77	se.			1		7					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.29	744.0	29.81	757.2	60.0	15.6	85	s.			4		10					overcast	Warren Middleton.
Oxford, Radcliffe Obs'y	29.64	752.8	29.86	758.4	61.1	16.2	79	ssw.			4		9					squally	The Staff.
Plymouth	29.79	756.7	29.86	758.4	57.6	14.2	96	s.			4		10					rain & fog	John Merrifield.
Sandwick Manse, Orkneys			29.68	753.9	53.9	12.2	73	ese.	30	13.4			8					d. clouds	Rev. C. Clouston, L. L.D
Scutari Cemetery, Turkey	29.90	759.4	29.96	761.0	77.0	25.0	67	sw.			1		1					blue sky	W. H. Lyne.
Sheffield	29.50	749.3	29.77	756.1	61.1	16.2	93	sw.			1		10			0.07	1.8	overcast	W. F. Cooper.
Silloth Rectory	29.68	753.9	29.71	754.6	55.4	13.0	85	sw.			2		10			0.015	0.4	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.76	755.9	54.4	12.4	90	w.	12	5.4			10					raining	J. New.
Stratfield Turgiss	29.70	754.4	29.91	759.7	62.9	17.2	66	sw.			2		8					d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.83	757.7	29.84	757.9	61	16.1	88	nw.			2		10					raining	W. Newcombe.
Valencia, Observatory	29.78	756.4	29.80	756.9	58.3	14.6	71	sw.	15	6.7			7					d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.73	755.1	29.77	756.1	56	13.3	75	sw.	7	3.1		0	0			0.715	18.2	clear	H. J. Cundall, C. E.
Chatham, N. B*	29.64	752.8	29.70	754.4	55	12.8	69	sw.	9	4.0		0	0			0.06	1.5	clear	G. A. Blair.
Father Point, Quebec*	29.62	752 3	29.64	752.8	46	7.8	86	w.	35	15.6			10 s		w.	0	0	threatening	J. McWilliams.
Halifax, N. S*	29.76	755.9	29.89	759.2	60	15.6	70	sw.	7	3.1		0	0			1.128	28.6	clear	A. Allison.
Kingston, Ontario*	29.80	756.9	30.13	765.3	57	13.9	69	nw.	4	1.8		5 c	0		sw.	0	0	fair	A. P. Knight, M. A.
Montreal, Quebec*	29.84	757.9	30.04	763.0	61	16.1	50	w.	12	5.4		0	0			0	0	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.49	749.0	30.18	766.6	57	13.9	69	w.	5	2.2		5 cs	0		nw.	0	0	fair	Rev. R. Mosley.
Port Dover, Ontario	29.50	749.3	30.19	766.8	57	13.9	81	n.	3	1.3		4 k	0		nw.	0	0	fair	H. Morgan.
Port Stanley, Ontario	29.54	750.3	30.18	766.6	58	14.4	80	n.	2	0.9		5 ck	0		w.	0	0	fair	M. Payne.
Quebec, Quebec*	29.56	750.8	29.88	758.9	53	11.7	61	w.			6	0	2 s		w.	0	0	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.68	753.9	30.14	765.5	55	12.8	90	w.	6	2.7		5 c	0		w.	0	0	fair	W. H. McIntyre.
Saugeen, Ontario*	29.47	748.5	30.19	766.8	53	11.7	93	calm	0	0		2 cs	0			0	0	clear	
St. Andrews, N .B	29.80	756.9	29.85	758.2	58	14.4	57	wnw.	16	7.2		0	0			0	0	clear	
Sydney, C. B*	29.74	755.4	29.80	756.9	58	14.4	67	w.	15	6.7		0	2 k			0.04	1.0	clear	T. C. Hill, C. E
Toronto, Ontario*	29.83	757.7	30.22	767.6	55	12.8	69	w.	1	0.4		8 cs	2 n		w.	0	0	cloudy	Magnetic Observatory.
Yarmouth, N. S*	29.87	758.7	29.94	760.5	51	10.6	83	w.	12	5.4		5 c	0		w.	0.15	3.8	fair	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.79	731.3	30.26	768.6	51.0	10.6	86	calm				10 k	0		nw.	0	0	cloudy	Wm. Wylie.
St. Johns, Newfoundland	29.90?	759.4?	30.15?	765.8?	62	16.7	94	s.	2	0.9		5 k	5 s			0	0		John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.14	765.5	30.17	766.3	68.0	20.0	88	ne.	10.4	4.6		4 c	0			0.040	1.0	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	29.97	761.2	30.01	762.2	74.9	23.8	84	nw.	11	4.9		0	1			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow	29.40	746.7	29.66	753.4	81.5	27.5	91	se.			2		10			0.09	2.3	covered	N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.56	750.7	29.58	751.3	79.2	26.2	97	ene.	3.4	1.5		7 ck	0			0.059	1.5	very cloudy	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	30.02	762.5	30.07	763.7	62.6	17.0	55	e.	9	4			2						Oversergent Fischer.
Fanöe	30.05	763.2	30.07	763.7	63.5	17.5	65	ssw.			2		1						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	29.85	758.3	29.90	759.4	46.4	8.0	69	e.			2		8						A. O. Thorlacius.
Thorshavn	29.48	748.7	29.51	749.6	49.3	9.6	96	s.	9	4			10					rain & fog	Overloerer Bergh.
Vestervig	29.98	761.5	30.07	763.8	63.9	17.7	77	wsw.			2		1						Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.47	748.5	30.11	764.7	69.1	20.6	72	nw.			1		k		s.	0	0		M. Labroue, Director.
Alençon, Normal School	29.53	750.0	30.08	764.0	69.1	20.6	85	calm			0		kn	n.	n.	0	0		M. Nicot, Director.
Arras, Engineer School	29.73	755.2	29.98	761.6	63.7	17.6	67	wsw.			2		k		sw.	0.165	4.2		M. Fénéon, Command't.
Avignon, Normal School	29.95	760.6	30.02	762.6	82.4	28	44	nw.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.52	749.9	30.06	763.6	69.8	21.0	60	s.			1		8		w.	0.047	1.2	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.77	756.1	30.03	762.7	70.3	21.3	57	sw.			1		8		sw.	0	0	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.11	739.4	30.06	763.5	68.0	20	80	w.			1		kn		e.	0.16	4.		M. Gobin, Director.
Bordeaux, Observatory	29.84	758.0	30.10	764.5	66.9	19.4	64	e.			1		10			0.008	0.2	covered	M. Rayet, Director.
Bourges, Normal School	29.54	750.3	30.08	764.0	68.9	20.5	64	wsw.			1		ks		wsw.	0.20	5.		M. Postel, Director.
Brest, Naval Observatory	29.75	755.6	30.07	763.8	64.4	18.0	78	sw.			3		10		sw.	0.039	1.0		M. de Kermaree, Dir.
Caen, Normal School	29.93	760.2	30.00	762.1	66.2	19	71	sw.			1		10		sw.	0.020	0.5	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.69	754.2	30.01	762.2	70.2	21.2	61	s.			2		2		w.	0.008	0.2	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.51	749.5	30.01	762.2	68.0	20	50	sw.			1		5			0.04	1.	½ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.73	729.8	30.04	762.9	74.3	23.5	59	ne.			1		8 k			0	0	¾ covered	M. Allnard, Director.
Cluny, Normal School	29.20	743.1	30.11	764.7	69.8	21.0	65	w.			2		4		w.	0.047	1.2		M. de Villemontée, Dir.
Commercy, Normal School	29.22	742.2	30.08	763.9	67.1	19.5	68	w.			1		kn	w.	w.	0.106	2.7		Dr. Coulet, Director.
Gap, Normal School	27.57	700.2	30.00	762.1	76.3	24.6	36	s.			3	0	3 nk		n.	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.92	734.5	30.01	762.3	82.8	28.2	33	nw.			2		1		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.28	743.8	30.02	762.0	74.8	23.8	55	e.			1	0	2 k			0	0	slightly cl'dy	M. Ablard, Director.
Guéret, Normal School	28.53	724.7	30.10	764.5	61.7	16.5	79	sw.			1		5		e.	0.12	3.	cloudy	M. Rivoire, Director.
Lamballe, Normal School	29.73	755.2	30.01	762.2	61.7	16.5	74	sw.			2		8		sw.	0.04	1.	very cloudy	M. Olliffrault, Director.
Lescar, Normal School	29.52	749.8	30.07	763.7	73.4	23	40	sw.			1		2			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	29.98	761.6	30.09	764.2	62.2	16.8	72	sw.			3		10		sw.	0.039	1.0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.05	737.8	30.08	764.1	68.5	20.3	62	ene.			1		10		wnw.	0.012	0.3	hazy	M. André, Director.
Mans, Normal School	29.75	755.6	30.05	763.3	65.7	18.7	64	sw.			3		5		sw.	0.047	1.2	cloudy	M. Piboen, Director.
Marseille, Observatory	29.77	756.1	30.04	762.9	73.6	23.1	42	wsw.			2		0			0	0		M. Stephan, Director.
Montlouis	24.93	633.3	29.78	756.3	62.6	17.0	61	sw.	5.6	2.5			6		sw.	0.094	2.4		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.87	758.8	30.00	762.0	80.6	27	41	ssw.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.28	743.8	30.05	763.2	66.9	19.4	61	wsw.			1		kn		w.	0.161	4.1		M. Hasse, Director
Nantes, Observatory	29.94	760.5	30.10	764.6	64.0	17.8	72	sw.			2–3		10 n		ssw.	0.083	2.1		M. Larocque, Director.
Perpignan, Observatory	29.95	760.6	30.05	763.3	79.5	26.4	45	sw.	5.6	2.5			2		nnw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.40	543.6			47.1	8.4		sw.			1		5		sw.	0	0	cloudy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.92	734.6	29.94	760.4	76.5	24.7	40									0	0		M. Tallieu.
Puy de Dôme Obs'y, Summit	25.28	642.0			48.9	9.4	93	wnw.			2		8			0.205	5.2	¾ covered	M. Allnard, Director.
Rochefort, Naval Obs'y	30.09	764.2	30.12	765.0	65.5	18.6	81	sw.			2		10			0.20	5.	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.88	758.9	30.09	764.3	62.6	17	88	wsw.			2		5		sw.	0	0	cloudy	M. Mouillot, Director.
Rodez, Normal School	27.98	710.8	30.09	764.3	64.4	18.0	65	calm			0		k		s.	0	0		M. Seger, Director.
Rouen, Normal School	29.96	761.0	30.01	762.2	68.0	20	74	sw.			1		8	wsw.		0.059	1.5	very cloudy	M. Brotier.
Saint Maur, Observatory	29.87	758.8	30.04	763.0	69.4	20.8	62	wsw.			1		7		ssw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.47	748.4	30.19	766.9	75.7	24.3	50	ene.			1		2	nw.		0	0	slightly cl'dy	M. Baillaud, Director.
Tours	29.88	759.0	30.06	763.5	69.4	20.8	68	sw.			1		10	w.	sw.	0.016	0.4	rainy	M. de Tastes.
Versailles, Observatory	29.55	750.5	30.04	763.0	68.0	20.0	62	sw.			2					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.76	755.8	30.05	763.2	70.2	21.2	60	ssw.			1		9		wsw.	inap.	inap.		M. Marié Davy, Director
GERMAN.																			
Bamberg	29.22	742.2	30.08	763.9	66.4	19.1	55	calm			0	0	2 k			0.059	1.5		Prof. Dr. Hoh.
Berlin	29.97	761.2	30.14	765.6	65.1	18.4	54	n.			2		10			0	0		Prof. Dr. Arndt.
Breslau	29.51	749.5	30.04	763.0	62.2	16.8	53	w.			2		9			0.441	11.2		Royal University Obs'y.
Carlsruhe	29.62	752.3	30.05	763.2	68.5	20.3	65	sw.			1		5	sw.		0.102	2.6		Albert Senz.
Cassel	29.29	744.0	30.00	762.1	73.8	23.2	40	w.			1		2	w.		0.039	1.0		Dr. H. Möhl.
Frankfort-on-the-Main	29.67	753.6	30.02	762.6	68.4	20.2	54	s.			1		8			0	0		Physical Society.
Friedrichshafen	28.67	728.1	30.08	764.1	61.9	16.6	62	sse.			2		10	w.		0	0		Wilhelm, Chief Tel.
Hamburg	29.98	761.5	30.08	763.9	66.0	18.9	58	sse.			3		4			0	0		E. Preller.
Kiel	30.06	763.5	30.08	763.9	61.5	16.4	60	nne.			2		1			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.63	752.0	30.04	763.0	66.0	18.9	52	n.			2		7			0	0		H. Leppig, Asst.
Magdeburg	29.86	758.4	30.04	763.1	66.9	19.4	49	ne.			1	c	6 ks			0.169	4.3		Dr. Assmann.
Memel	29.97	761.2	30.02	762.4	74.1	23.4	34	e.			3	0	8 ks						Issermann.
Munich	28.26	717.7	30.12	765.1	61.7	16.5	57	n.			2		5	nw.		0.236	6.0		Central Station.
Neufahrwasser	29.97	761.1	29.98	761.5	62.2	16.8	74	nw.			2		7			0	0		A. Lothes.
Neustadt, Palatinate	29.50	749.3	30.03	762.7	67.6	19.8	59	n.			1		8	ssw.		0	0		Dicknether.
Stuttgart	29.11	739.5	29.99	761.8	63.5	17.5	70	e.			1		6	w.		0.098	2.5		Prof. Dr. Schoder.
Wustrow	30.07	763.8	30.10	764.4	63.1	17.3	69	nne.			1	0	5 s			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.63	752.6			79.0	26.1		s.			1.5		0			0	0	clear	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.59	751.5	29.64	752.8	88.0	31.1	76	wsw.	34.0	15.2			5		w.	0	0	misty	
Deesa	29.12	739.5	29.57	751.1	97.0	36.1	30	sw.	21.6	9.6			1		sw.	0	0	d. clouds	
Bombay	29.76	755.9	29.80	756.8	84.6	29.2	73	wsw.	10.0	4.5			10		ssw.	0	0	overcast	
Poona, Yarrowda	27.92	709.3	29.77	759.1	80.3	26.8	53	wsw.	21.0	9.4			9	wnw.	wnw.	0	0	d. clouds	
Trichinopoly	29.47	748.5	29.74	755.4	95.3	35.2	35	s.	4.0	1.8			4			0	0	d. clouds	
Bellary	28.25	717.6	29.68	753.8	94.5	34.7	30	w.	10.7	4.8			4			0	0	d. clouds	
Belgaum	27.27	692.7	29.80	757.0	76.6	24.8	68	wsw.	10.0	4.5			5	e.	sw.	0	0	d. clouds	
Lahore	28.60	726.4	29.29	743.9	108.3	42.4	18	w.	2.3	1.0			5			0	0	blue sky	
Roorkee	28.48	723.3	29.34	745.2	92.6	33.7	61	e.	2.4	1.1			10			0	0		
Agra	28.87	733.4	29.41	740.9	103.1	39.5	30	sw.	7.1	3.2			0			0	0	blue sky	
Nagpur	28.56	725.5	29.57	751.0	95.2	35.1	38	w.	5.1	2.3			7	sw.		0	0	d. clouds	
Jubbulpore	28.26	717.9	29.55	750.5	87.8	31.0	63	w.	6.6	3.0			9	n.		1.39	35.3	d. clouds	
Lucknow	29.08	738.6	29.44	747.9	93.1	33.9	54	wsw.	3.7	1.6			0			0	0	blue sky	
Allahabad	29.16	740.6	29.46	748.3	91.5	33.1	70	sw.	5.2	2.3			10			0	0	overcast	
Patna	29.32	744.7	29.50	749.3	82.0	27.8	91	wnw.	3.0	1.3			10	wnw.	wnw.	0.42	10.7	overcast	
Hazaribagh	27.52	699.1	29.51	749.6	77.8	25.4	74	nw.	8.4	3.8			10		nw.	0.36	9.1	thnd'r str'm	
Cuttack	29.50	749.4	29.58	751.4	87.1	30.6	73	ssw.	1.3	0.6			7			0.03	0.8	d. clouds	
Calcutta, Alipore	29.51	749.5	29.53	750.1	79.5	26.4	91	nw.	9.0	4.0			10		sw.	0.32	8.1	drizzling	
Dhubri	29.43	747.6	29.55	750.6	77.5	25.3	96	ese.	3.8	1.7			10			3.09	78.5	raining	
Chittagong	29.56	750.8	29.65	753.0	83.2	28.4	80	s.	8.7	3.9			6			0	0	d. clouds	
Sibsagar	29.21	742.0	29.54	750.4	82.7	28.2	81	sw.	3.6	1.6			10	w.	w.	0.02	0.5	d. clouds	
Jeypore	28.08	713.3	29.46	748.2	99.7	37.6	27	wnw.	17.3	7.7			0			0	0	misty	
Zanzibar, Africa	30.01	762.2			82.5	28.1	59	s.	8.0	3.6			6		se.	0	0	d. clouds	
ITALIAN.																			
Udine	29.63	752.6	30.02	762.6	72.7	22.6	57	n.	3.8	1.7						0	0		Prof. Giovanni Clodig.
Milan	29.51	749.6	30.01	762.2	76.6	24.8	31	sw.	4.9	2.2			1			0	0		Prof. Schiaparelli.
Padua	29.91	759.6	30.01	762.3	74.8	23.8	35	ese.	6.3	2.8			2	w.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.10	739.2	29.97	761.3	74.7	23.7	30	sse.	2.5	1.1			0			0	0		Prof. P. F. Denza.
Genoa	29.87	758.8	30.06	763.5	70.2	21.2	04	sw.	3.1	1.4			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.10	713.7	29.93	760.3	70.7	21.5	47	nw.			4		0			0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Velocity. Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
ITALIAN.—Continued.																			
Pesaro	29.97	761.3	30.02	762.5	67.5	19.7	58	e.	6.3	2.8			0			0	0		Prof. Luigi Guidi.
Florence	29.77	756.1	30.02	762.4	77.7	25.4	29	w.			2		0			0	0		Prof. Costantino Pitter
Leghorn	29.92	759.9	30.00	762.0	71.8	22.1	63	w.	0.7	0.3			2			0	0		Prof. P. Monte.
Rome	29.86	758.5	30.03	762.8	79.5	26.4	40	w.	8.1	3.6			1			0	0		Prof. P. S. Ferrari
Lecce	29.80	756.9	30.04	763.1	75.2	24.0	49	nw.	7.4	3.3			4			0	0		Prof. O. de Giorgi
Cosenza	29.17	741.0	30.03	762.7	75.9	24.4	71	wsw.	3.1	1.4			9	sw.		0.224	5.7		Prof. D. Conti.
Cagliari	29.85	758.1	30.04	762.9	74.1	23.4	50	se.			4		0			0	0		Prof. A. Pacinotti.
Palermo	29.82	757.4	30.06	763.6	71.6	22.0	60	ne.	9.8	4.4			3	wsw.		0	0		Prof. G. Giacciatore.
Syracuse	29.96	760.9	30.00	762.0	78.1	25.6	54	s.	4.9	2.2			10	w.		0	0		Prof. Vincenzo Gulliano
Sub-series.																			
Naples, S. R	29.51	749.5	30.02	762.4	75.9	24.4	65	w.	7.4	3.3			2	sw.		0.004	0.1		Prof. T. Brioschi.
Stelvio	22.25	565.1			46.2	7.9	64	s.			6		6			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.32	566.8			49.3	9.6	69	n.			2		9			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.55	750.6	29.58	751.3	64.3	17.9	87	nw.	2.9	1.2			10 n			0.196	5.0	raining	K. Ogawa.
Hakodate	29.58	751.3	29.59	751.6	62.7	17.1	94	sse.	6.0	2.7			10			0.160	4.1	covered	
Hiroshima, I. M. Obs'y	29.55	750.6	29.56	750.8	72.4	22.4	93	sw.	1.9	0.8		ck	2 s			0	0	clear	I. Sogawa.
Kanazawa	29.78	756.4	29.88	758.9	72.8	22.7	90	s.	3.9	1.7			10ks;n			0.140	3.6	raining	S. Endo.
Kioto	29.42	747.2	29.59	751.6	70.5	21.4	93	nw.	0.7	0.3		ck	10 s			0.259	6.6	cloudy	M. Tojima.
Kochi	29.60	751.8	29.62	752.3	72.5	22.5	90	ne.	7.0	3.1		2 ck	0			1.519	38.6	clear	K. Kusunose.
Nagasaki, I. M. Obs'y	29.43	747.5	29.63	752.6	71.9	22.2	96	ssw.	3.6	1.6			10 s			0.800	20.3	overcast	S. Takehayashi.
Nemuro	29.70	754.4	29.76	755.9	51.9	11.1	100	calm	0	0		10	0			0	0	cloudy	
Niigata	29.52	749.8	29.55	750.6	69.5	20.8	90		0.3	0.1		ck	4 s			0.150	3.8	cloudy	M. Morita.
Nobiru	29.59	751.6	29.60	751.8	67.5	19.7	93	sw.	10.0	4.5			10ks;s			0.990	25.2	covered	H. Midzushina.
Supporo					62.9	17.2	88	se.	8.4	3.8			10			0.248	6.3	covered	
Tokei Obs'y, Yeddo	29.54	750.3	29.61	752.1	70.8	21.6	93	s.	6.7	3.0			10 s			0	0	cloudy	The Staff.
Wakayama	29.54	750.3	29.59	751.6	71.1	21.7	93	ne.	0.8	0.4		ck	10 ks		n.	2.250	57.2	cloudy	Y. Kuwamuea.
MAURITIUS																			
Mauritius Observatory	29.87	758.7	30.06	763.5	72.0	22.2	74	ese.	15.0	6.7		2ck;cs	7 ks;n		ese.	1.03	26.2	cloudy	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.70	601.8	29.92	759.8	58.6	14.8	79	ene.				2 cs	k			0.236	6.0	clear	Prof. Vicente Fernandez.
Leon	24.32	617.7	29.91	759.7	64.0	17.8	73	ese.			1	8 c	0	ne.		inap.	inap.	dense fog	Prof. M. Leal.
Mazatlan	29.60	751.9	29.86	758.4	79.0	26.1	86	ene.	1.6	0.8		7 cs	0			0	0	hazy	F. Quijano, C. E.
Mexico, Central Obs'y	23.12	587.2	30.55?	765.8?	53.6	12.0	73	nnw.	2.9	1.3		2 c	3 ks			0.12?	0.3?	½ clouded	The Staff.
Morelia	24.18	614.2	30.23	767.9	61.5	16.4	69	se.			2	0	0			0	0	clear	M. Tena, M. D.
Rabellon, Aguascallentes	23.94	608.1	29.85	758.2	64.9	18.3	82	se.			1					0	0		M. Y. de Leon, M. E
Puebla, Catholic Institute	23.43	595.0	30.13	765.4	56.8	13.8	58	calm	0	0		0	3		ene.	0.008	0.2		Prof. P. Spina.
San Luis Potosi	24.28	616.7	30.19	766.7	66.5	19.2	67	e.				0	4		e.	0	0	foggy	G. Barroeta, M. D.
Zacatecas	22.60	573.9	30.20	767.0	53.6	12.1	84	e.	9.3	4.1		8 c	0	ne.		c	0	cloudy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.03	762.6	30.03	762.6	65.1	18.4		wsw.			2					0	0		
Groningen	29.97	761.2	30.02	762.6	66.9	19.4		s.			1					0	0		
Helder	29.99	761.8	29.99	761.8	62.6	17.0		ssw.			1					0	0		
Hellevoetsluis	30.01	762.3	30.01	762.3	68.4	20.2	72	calm			0					0	0		
Utrecht	29.97	761.2	30.02	762.4	68.2	20.1	72	ssw.			1		5			0	0	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.89	759.2	29.95	760.8	66.2	19.0	49	s.	25	11			5			0.181	4.6		
Brono	30.06	763.5	30.10	764.5	69.6	20.9	36	sse.	27	12			5			0	0		
Christiania	29.95	760.7	30.09	764.3	65.8	18.8	59	wsw.	9	4			8			0.240	6.1		
Gjæsvær	30.23	767.8	30.25	768.4	64.8	18.2		se.			4		0						
Lodingen	30.15	765.9	30.20	767.1	61.0	16.1	52	s.			2		0			0	0		
PORTUGUESE.																			
Angra, Azores					68.0	20.0	89	wnw.	8.7	3.9			3			0	0		
Campo Major	29.03	737.4	29.98	761.5	83.8	28.8	35	ssw.	7.4	3.3			1			0	0		Dr. J. A. Sampaio.
Funchal, Maderia	30.13	765.3	30.22	767.5	69.8	21.0	65	wsw.	8.1	3.6			9			0	0		Dr. A. M. R. dos Santos.
Lisbon, Observatory	29.76	755.8	30.11	764.8	67.6	19.8	61	n.	17.4	7.8			1			0	0		Capt. D. A. de Cunha.
Ponta Delgada, Azores	30.32	770.1	30.39	771.9	69.8	21.0	70	sw.	7.4	3.3			3			0	0		The Staff.
Saint Paul de Loando	29.83	757.7	30.04	762.9	71.2	21.8	95	nne.	0.7	0.3			10			0	0		
Serra da Estrella	25.39	644.8	29.95	760.7	66.4	19.1	51	wnw.	6.3	2.8			4			0	0		
RUSSIAN.																			
Akmolinski	28.85	732.7	29.85	758.3	83.8	28.8	29	w.	7	3		0	3 k			0	0		
Archangel	30.37	771.3	30.39	771.8	59.5	15.3	50	nnw.	9	4		0	0			0	0		Major K. Lasarew.
Astrakhan	29.94	760.5	29.86	758.4	79.2	26.2	59	n.	13	6		ck	4 s			0	0		Capt. Sseliwerstow.
Barnaul	29.41	746.9	29.89	759.2	65.1	18.4	52	sw.	13	6			10			0.122	3.1		Capt. Wisganow.
Dorpat	29.79	756.7	30.02	762.6	71.6	22.0	42	ne.	11	5			10 ks			0.020	0.5		Meteorological Obs'y.
Ekaterinburg	29.04	737.5	29.96	761.0	71.6	22.0	74	ne.	4	2			10			0.264	6.7	thund'r st'm	Observatory.
Irkutsk	28.26	717.7	29.85	758.3	60.3	15.7		calm	0	0			5			0.362	9.2		Meteorological Obs'y.
Kasan	29.66	753.4	29.92	759.9	75.0	23.9	64	e.	2	1			10 n			0.220	5.6		Observatory.
Kertch	29.85	758.1	29.87	758.6	69.3	20.7	88	ssw.	13	6		0	8 n			0.100	2.7		Lagorio & Sastyrez.
Kieff	29.10	739.2	29.72	754.8	65.5	18.6	78	wnw.	9	4			10ks;n			0.020	0.5		Observatory.
Lugan	29.52	749.7	29.72	754.8	67.5	19.7	84	sse.	13	6			10			0.394	10.0		Meteorological Obs'y
Moscow	29.31	744.5	29.75	755.7	78.6	25.9	65	sw.	7.8	3.5			3 ks						Meteorological Obs'y.
Nikolaiev	29.78	756.4	29.85	758.2	79.5	26.4	48	nw.	18	8		0	4 kn			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor.	29.70	754.4	29.79	756.6	53.6	12.0	90	calm	0	0			10			0	0		Lieut. Iwanow.
Pekin, China	29.47	748.4	29.61	752.0	69.4	20.8	95	calm	0	0		0	5 ks			2.067	52.5	thnd'r storm	Physical Observatory
St. Petersburg	30.12	765.0	30.13	765.4	73.0	22.8	35	ene.	18	8		cs;ck	4 k			0	0		Central Physical Obs'y
Semipalatinsk	29.34	745.2	29.97	761.1	74.5	23.6	29	calm	0	0		4 c	0			0	0		Major Lasarew.
Tashkend, Laboratory	28.24	717.2	29.69	754.0	91.0	32.8	33	calm	0	0			0						Teich, A. M.
Tiflis	28.53	724.7	29.87	758.7	82.6	28.1	30	wnw.	13	6		0	0			0	0		Physical Observatory
Vladivostock	29.44	747.7			59.0	15.0	92	e.	13	6		0	6 n						
Warsaw	29.54	750.2	29.98	760.7	65.5	18.6	65	nw.	7	3			10 ks						Astronomical Obs'y
Wilna	29.47	748.5	29.88	758.9	64.8	18.2	74	nne.	11	5			10			0	0	heavy clouds	Berg, Assistant.
SPANISH.																			
Barcelona, Met. Obs'y	29.93	760.2	30.03	762.8	72.9	22.7	70	s.	4.3	1.9			1			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.03	762.8	30.09	764.3	74.8	23.8	57	w.	0.9	0.4		2	0	sw.		0	0	almost clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.15	689.5	29.96	761.0	78.6	25.9	47	ne.	4.9	2.2			0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.83	706.8	29.93	760.2	84.9	29.4	37	s.	8.1	3.6			0			0	0	clouds	The Staff.
Murcia, Met. Obs'y	29.92	760.0	30.09	764.2	81.3	27.4	58	e.	5.6	2.5		0	4			0	0	clouds	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.17	741.0	30.06	763.4	64.4	18.0	70	n.	8.1	3.6			5			0	0	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	30.03	762.8	30.10	764.5	80.9	27.2	80	e.	2.7	1.2		c	0	e.		0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.83	757.6	29.89	759.1	84.2	29.0	75	wsw.	4.4	2.0		0	8 kn		e.	0	0	threatening	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.96	761.1	30.06	763.5	74.5	23.6	69	sw.	9.8	4.4		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.02	762.6	30.11	764.9	81.3	27.4	82	e.	5.6	2.5		3 cs	2 k	e.	e.	0.197	5.0	d. clouds	Manuel Maese.
Tuguegarao, Philippine Id's	29.82	757.4	29.95	760.7	76.6	24.8	84	sw.	5.8	2.6			10 n		ssw.	0.43	10.9	gloomy	José L. Ynastorza.
SWEDISH																			
Haparanda	30.37	771.4	30.41	772.4	67.3	19.6	39	s.			2		0			0	0		
Umea	30.27	768.9	30.32	770.2	70.5	21.4	36	e.			2		1			0	0		
Hernosand	30.22	767.6	30.27	768.9	66.9	19.4	51	s.			2		1			0	0		
Stockholm	30.01	762.2	30.19	766.7	65.3	18.5	33	e.			7		0			0	0		
Wisby	29.97	761.2	30.03	762.7	70.2	21.2	46	sse.			4		0			0	0		
Sub-series.																			
Upsala	30.06	763.6	30.15	765.8	69.3	20.7	33	ese.	8.5	3.8			0			0	0		S. G. Fineman.
SWISS.																			
Geneva	28.66	728.0	30.04	763.0	70.5	22.5	55	se.			2					0.004	0.1	clouds	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
SCOTTISH.																			
Monach Lt			29.58	751.3	54	12.2	93	w.			3	5	5	sw.		0.3	8.	cloudy	J. Youngclause.
North Unst			29.70	754.4				s.			7		10			blank	blank		
TURKISH.																			
Constantinople			30.01	762.3	75.9	24.4	51	s.	6	2.5			2		n.	0	0		The Observatory.
Valona			30.15	765.8	76.5	24.7		w.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.95	760.6	76.8	24.9	66	n.			3	0	0			0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.08	764.0	30.16	766.1	60.5	15.8	90	w.	2	0.9			10 s		w.	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.54	750.3	30.18	766.6	54	12.2	80	w.	2	0.9		4 cs	0	w.		0	0	fair	Jas. J. Fitzgerald.
Atlanta, Georgia	28.99	736.3	30.14	765.5	76.0	24.4	76	nw.	6	2.7		0	0			0	0	clear	H. Hall.
Atlantic City, New Jersey	30.17	766.3	30.18	766.6	62.2	16.8	60	n.	6	2.7		3 ck	7 s			0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.95	760.7	30.14	765.5	79	26.1	82	calm	0	0		0	1 s			0	0	clear	John Healy.
Baltimore, Maryland	30.17	766.3	30.22	767.6	66	18.9	59	n.	3	1.3			10 s		w.	0	0	cloudy	Robert Seybolth.
Barnegat, New Jersey	30.15	765.8	30.17	766.3	62.0	16.7	65	n.	7	3.1			10 s			0	0	cloudy	Chas. F. Merritt.
Behring Island, Behring Sea	29.53	750.0	29.55	750.6	42.0	5.6		e.	8	3.6			fg.			0.65	16.5	dense fog	Dr. L. Steineger.
Bismarck, Dakota	28.06	712.7	29.81	757.2	63	17.2	93	se.	4	1.8		4 c	0	sw.		0.19	4.8	fair	Cyrus Cramer.
Boise City, Idaho	27.28	692.9	30.06	763.5	42	5.6	82	n.	1	0.4		0	0			inap.	inap.	clear	B. E. Light.
Boston, Massachusetts	29.94	760.5	30.09	764.3	57.0	13.9	69	w.	7	3.1		10 cs	0	w.		0	0	cloudy	O. B. Cole.
Brownsville, Texas	29.94	760.5	29.98	761.5	80.0	26.7	82	se.	6	2.7		6 cs	0	calm		0	0	fair	M. McCarty.
Buffalo, New York	29.46	748.3	30.20	767.1	57.8	14.3	79	calm	0	0			10 s;sk		sw.	0	0	cloudy	Wm. Finn.
Burlington, Vermont	29.79	756.7	30.08	764.0	62.3	16.8	55	sw.	5	2.2		7 cs	0	w.		0	0	fair	G. C. Schaeffer.
Cairo, Illinois	29.69	754.1	30.08	764.0	76.8	24.9	92	calm	0	0		2 ck	4 ks	w.	w.	0.02	0.5	fair	W. H. Ray.
Campo, California	27.35	694.7	29.83	757.7	35.5	1.9	82	s.	3	1.3		0	0			0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.18	690.4	29.81	757.2	60.5	15.8	66	e.			1	0	0			0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.21	767.3	30.23	767.8	67	19.4	73	sw.	2	0.9		7 c;ck	0	sw.		0	0	fair	A. K. Alderson.
Cape May, New Jersey	30.26	768.6	30.29	769.4	62	16.7	60	ne.	5	2.2			10 ks			0	0	cloudy	W. Bolton.
Cedar Keys, Florida	30.12	765.0	30.14	765.5	82	27.8	80	w.	7	3.1		3 ck	2 ks		w.	0	0	fair	F. W. Mixer.
Champaign, Illinois	29.24	742.7	30.03	762.7	64.5	18.1	80	e.	12	5.4			10 s		e.	0.10	2.5	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.07	763.8	30.12	765.0	85	29.4	82	se.	4	1.8		0	3 ks		se.	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.29	744.0	30.12	765.0	73.0	22.8	84	ne.	3	1.3			10 s		ne.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.35	745.5	30.16	766.1	75.0	23.9	85	ne.	1	0.4		4 cs	fg.			0	0	fair	B. L. Goulding.
Cheyenne, Wyoming	24.06	611.1	29.80	756.9	46.1	7.8	80	nw.	4	1.8		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.38	746.2	30.07	763.8	57.3	14.1	89	e.	8	3.6			10 s			0	0	cloudy	J. Mitchell.
Chincoteague, Virginia	30.17	766.3	30.19	766.8	67	19.4	63	n.	5	2.2		10 cs	0			0	0	cloudy	V. P. Temple.
Cincinnati, Ohio	29.50	749.3	30.15	765.8	67	19.4	76	se.	3	1.3			10 s		s.	0	0	cloudy	R. B. Watkins.
Cleveland, Ohio	29.46	748.3	30.19	766.8	58.8	14.9	66	e.	3	1.3		0	0			0	0	clear	J. B. Newlin.
Coleman City, Texas	28.22	716.8	29.97	761.2	73	22.8	97	s.	7	3.1		6 cs	0			1.47	37.3	fair	L. Dorman.
Columbus, Ohio	29.31	744.5	30.15	765.8	63	17.2	68	e.	4	1.8		10 cs	0	sw.		0	0	cloudy	D. Cuthbertson.
Concho, Texas	28.01	711.4	29.88	758.9	73	22.8	90	se.	14	6.3		0	8 s		s.	1.07	27.2	cloudy	W. W. McConihe.
Davenport, Iowa	29.37	746.0	30.01	762.2	61	16.1	93	e.	4	1.8			10s;fg		calm	0.07	1.8	cloudy	R. R. Martin.
Dayton, Washington T'y	28.29	718.6	30.03	762.7	46.8	8.2	84	sw.	8	3.6			10 s		sw.	0.10	2.5	cloudy	H. Clifford.
Deadwood, Dakota	25.38	644.6	29.81	757.2	52	11.1	74	sw.	6	2.7			10 n		sw.	0.35	8.9	light rain	G. W. Scott.
Decatur, Texas					80	26.7	51	s.	10	4.5		0	3 ks		s.	0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	30.18	766.6	30.20	767.1	64	17.8	68	ne.	6	2.7		5 ck	5 k;s	sw.	sw;ne	0	0	cloudy	F. C. Pratz.
Denison, Texas	29.22	742.2	30.00	762.0	77.0	25.0	85	s.	13	5.8		10 ck	0			0	0	cloudy	J. McGlone.
Denver, Colorado	24.75	628.6	29.79	756.7	57.0	13.9	67	nw.	3	1.3		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.15	740.4	30.03	762.7	60	15.6	93	se.	3	1.3			10 n		se.	0.47	11.9	light rain	F. W. Conrad.
Detroit, Michigan																			C. F. R. Wappenhans.
Dodge City, Kansas	27.28	692.9	29.79	756.7	72	22.2	76	s.	12	5.4		0	0			0	0	clear	E. A. Thomas.
Dubuque, Iowa	29.34	745.2	30.03	762.7	59.4	15.2	90	e.	3	1.3			10 s			inap.	inap.	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.44	747.8	30.13	765.3	47	8.3	77	ne.	6	2.7			10 s		ne.	0.05	1.3	cloudy	N. B. Conger.
Eagle Pass, Texas	29.21	741.9	30.00	762.0	80.1	26.7	79	se.	9	4.0			10 s		se.	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.33	643.4	29.92	760.0	35	1.7	72	s.	10	4.5		0	0			0.04	1.0	clear	J. M. Clifford.
Eastport, Maine	29.80	756.9	29.87	758.7	61.0	16.1	44	w.	10	4.5		0	0			0.07	1.8	clear	D. C. Murphy.
El Paso, Texas	26.20	665.5	29.79	756.7	60	15.6	47	nw.	1	0.4		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.48	748.8	30.20	767.1	61	16.1	72	calm	0	0		10 k	0			0	0	cloudy	Peter Wood.
Escanaba, Michigan	29.50	749.3	30.15	765.8	54	12.2	86	n.	3	1.3			10 s			0	0	cloudy	C. Dil[1].
Fort Apache, Arizona	24.99	634.7	29.74	755.4	52	11.1	41	ne.	4	1.8		0	0			0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.01	686.0	29.80	756.9	47	8.3	66	sw.	16	7.2		0	1 s		sw.	0	0	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.34	719.8	29.88	758.9	64	17.8	93	se.	2	0.9		3 k	1 s	calm	calm	0.31	7.9	fair	A. Pritchard.
Fort Benton, Montana	27.04	686.8	29.81	757.2	50	10.0	66	w	13	5.8		1 c	0			0	0	clear	G. W. Davis.
Fort Buford, Dakota	27.94	709.7	29.90	759.4	55	12.8	69	sw.	9	4.0		5 cs	0	calm		0.09	2.3	fair	A. H. Bell.
Fort Custer, Montana	26.80	680.7	29.86	758.4	45	7.2	93	n.	6	2.7			10 s		calm	0.14	3.6	cloudy	V. Verge.
Fort Davis, Texas	25.18	639.6	29.79	756.7	66	18.9	70	s.	3	1.3		0	0			0.05	1.3	clear	J. Williams.
Fort Elliott, Texas	27.18	690.4	29.85	758.2	67	19.4	70	se.	8	3.6		0	0			0	0	clear	W. J. Cundall.
Fort Grant, Arizona	25.24	641.1	29.78	756.4	62.9	17.2	60	ne.	3	1.3		0	0			0	0	clear	Robert C. Lord.
Fort Keogh, Montana	27.45	697.2	29.88	758.9	46	7.8	86	sw.	4	1.8		5 c	0	sw.		0.18	4.6	fair	W. B. Stockman.
Fort Macon, North Carolina	30.18	766.6	30.18	766.6	72	22.2	82	ne.	11	4.9		6 ck	hz.	calm	calm	0	0	fair	W. W. Thomas.
Fort McKavett, Texas	27.79	705.9	29.99	761.7	72	22.2	84	se.	3	1.3		1 ck	4 s			0.11	2.8	fair	J. E. Thatcher.
Fort Missoula, Montana	26.68	677.7	29.94	760.5	47	8.3	66	sw.	3	1.3			10 ks			0.03	0.8	cloudy	J. H. Jones.
Fort St. Michaels, Alaska	30.12	765.0	30.16	766.1	54	12.2	87	n.	7	3.1		0	0			0	0	clear	A. P. Leavitt.
Fort Shaw, Montana	26.23	666.2	29.80	756.9	47	8.3	51	sw.	25	11.2		9 cs	0			0	0	cloudy	A. L. Mathews.
Fort Sill, Indian Territory	28.73	729.7	29.93	760.2	75	23.9	85	s.	3	1.3		6 ck	0	sw.		0	0	fair	T. Cleary.
Fort Smith, Arkansas	29.56	750.8	30.02	762.5	78.5	25.8	88	calm	0	0			10 s		s.	0	0	cloudy	J. B. Campbell.
Fort Stevenson, Dakota	28.00	711.2	29.80	756.9	62	16.7	93	sw.	6	2.7		0	8 ks		sw.	0.35	8.9	cloudy	W. Burrows
Fort Verde, Arizona					60.1	15.6	37	sw.			1	0	0			0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.49	622.0	29.87	758.7	41.5	5.3	58	nw.	5	2.2		0	8 k			0.02	0.5	cloudy	T. M. Ambler.
Fredericksburg, Texas	28.29	718.6	29.97	761.2	75	23.9	88	sw.	12	5.4		4 k	0	sw.		0	0	fair	H. S. Miles.
Galveston, Texas	30.02	762.5	30.07	763.8	81.5	27.5	88	s.	11	4.9		0	5 k		se.	0	0	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.47	748.5	30.12	765.0	58.0	14.4	70	e.	4	1.8			10 s		w.	0	0	cloudy	W. A. Reid.
Hatteras, North Carolina	30.18	766.6	30.20	767.1	70	21.1	66	ne.	8	3.6		5 ck	hz.	ne.		0	0	fair	R. M. Crawford.
Helena, Montana	25.74	653.8	29.86	758.4	44	6.7	63	calm	0	0		4 ck	0			0.03	0.8	fair	S. Wheaton.
Henrietta, Texas	29.00	736.6	29.98	761.5	81.0	27.2	62	s.	14	6.3		0	7 s			0	0	fair	J. W. Byram.
Huron, Dakota	28.54	724.9	29.88	758.9	62.1	16.7	97	s.	18	8.0			fg.			0.26	6.6	dense fog	S. W. Glenn.
Indianapolis, Indiana	30.00	762.0	30.08	764.0	64.5	18.1	88	e	4	1.8		0	9 ks;s		sw.	inap.	inap.	cloudy	O. Schutze
Indianola, Texas	30.02	762.5	30.06	763.5	80.0	26.7	91	s.	5	2.2		2 cs	2 k		s.	0	0	fair	I. A. Reed.
Jacksboro, Texas	28.83	732.3	29.95	760.7	78	25.6	74	s.	7	3.1		4 cs	0	s.		0	0	fair	J. P. Sherry.
Jacksonville, Florida	30.10	764.5	30.14	765.5	83	28.3	80	s.	1	0.4		2 cs	0			0.95	24.1	clear	J. W. Smith.
Keokuk, Iowa	29.34	745.2	29.98	761.5	62.0	16.7	100	e.	5	2.2			fg.			0.16	4.1	dense fog	F. Z. Gosewisch
Key West, Florida	30.08	764.0	30.10	764.5	85.0	29.4	72	e.	6	2.7		0	4 ks			0.29	7.4	fair	R. H. Paxton.
Kittyhawk, North Carolina	30.20	767.1	30.22	767.6	67	19.4	63	se.	5	2.2		7cs;ck	1 s	e.		0	0	cloudy	E. A. Beals.
Knoxville, Tennessee	29.14	740.1	30.15	765.8	68	20.0	89	n.	3	1.3		6 k	2 ks	w.		0	0	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.30	744.2	30.06	763.5	60	15.6	75	se.	4	1.8			10 s			0	0	cloudy	S. C. Emery.
La Mesilla, New Mexico	26.05	661.7	29.77	756.1	52.0	11.1	61	calm	0	0		0	0			0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.09	738.9	29.96	761.0	70	21.1	78	se.	2	0.9		0	7 ks		s.	2.11	53.6	threatening.	A. W. Browne.
Lewiston, Idaho	29.19	741.4	30.01	762.2	54	12.2	74	e.	2	0.9			10 n			0.04	1.0	light rain	W. Bell.
Little Rock, Arkansas	29.76	755.9	30.06	763.5	79	26.1	88	sw.	7	3.1		3 ck	0			0	0	clear	W. U. Simmons.
Los Angeles, California	29.58	751.3	29.97	761.2	54.1	12.3	80	n.	2	0.9		0	0			0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.51	749.5	30.06	763.5	66	18.9	90	sw.	14	6.3			9 s			0.20	5.1	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.59	749.3	30.17	766.3	69.5	20.8	63	ne.	1	0.4		1 cs	8 ks;s			0	0	cloudy	W. R. Bushby.
Madison, Wisconsin	29.08	738.6	30.07	763.8	57	13.9	93	e.	8	3.6			10 s		e.	0.11	2.8	cloudy	C. A. Shaw.
Marquette, Michigan	29.46	748.3	30.18	766.6	55	12.8	74	s.	1	0.4			10 s		sw.	0	0	cloudy	J. Gilligan.
Memphis, Tennessee	29.75	755.6	30.08	764.0	80	26.7	79	s.	4	1.8		2 cs	0			0	0	clear	D. T. Flannery.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	29.37	746.0	30.11	764.8	54	12.2	93	e.	6	2.7			10 s		se.	0.12	3.0	cloudy	W. Line.
Mobile, Alabama	30.11	764.8	30.15	765.8	81.5	27.5	82	nw.	4	1.8		1 c	0			0	0	clear	J. D. Paxton.
Montgomery, Alabama	29.90	759.4	30.13	765.3	81	27.2	79	s.	4	1.8		1 c	1 k			0.22	5.6	clear	J. B. McLaughlin.
Moorhead, Minnesota	28.96	735.6	29.93	760.2	56	13.3	93	se.	16	7.2			10 s		se.	0.69	17.5	cloudy	H. Bessant.
Morgantown, W. Virginia	29.17	740.9	30.17	766.3	62.5	16.9	83	calm	0	0		0	hz.			0	0	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.71	602.2	29.83	757.7	31.0	— 0.6	86	nw.	62	27.7		4 cs	0	nw.		0	0	fair	J. G. Linsley.
Nashville, Tennessee	29.57	751.1	30.09	764.3	79.5	26.4	76	calm	0	0		4 ck	0	sw.		0	0	fair	L. A. Jesunofsky.
New Haven, Connecticut	30.03	762.7	30.14	765.5	58	14.4	64	n.	4	1.8			10 s			0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.07	763.8	30.12	765.0	63	17.2	73	calm	0	0			10 s			0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.07	763.8	30.12	765.0	82.5	28.1	76	calm	0	0		0	sk.			0	0	clear	L. Dunne.
Newport, Rhode Island	30.06	763.5	30.11	764.8	63.4	17.4	55	nw.	4	1.8			10 s		nw.	0	0	cloudy	W. McGillivray.
New River, N. Carolina					72	22.2	84	ne.			1	3 ck	2 s			0	0	fair	C. C. Corbin.
New Shoreham, Rhode I'd.	30.10	764.5	30.12	765.0	60.0	15.6	63	n.	8	3.6			10 s		n.	0	0	cloudy	W. Davis.
New York, New York*	30.01	762.2	30.18	766.6	64	17.8	52	w.	2	0.9		4 cs	3 s	w.		0	0	fair	J. B. Merrill.
Norfolk, Virginia	30.18	766.6	30.21	767.3	68	20.0	73	s.	2	0.9		0	9 ks		nw.	0	0	cloudy	J. T. Elker.
North Platte, Nebraska	26.98	685.3	29.78	756.4	66.6	19.2	93	e.	16	7.2			10 s		e.	0.03	0.8	cloudy	E. F. Brady.
Olympia, Washington T'y	30.01	762.2	30.05	763.3	51.0	10.6	86	s.	5	2.2			10 s		s.	0.23	5.8	cloudy	J. Dascomb.
Omaha, Nebraska	28.84	732.5	29.98	761.5	64.2	17.9	93	ne.	5	2.2			fg.			0.15	3.8	dense fog	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.10	764.5	30.12	765.0	32.3	0.2	100	nnw.	6	2.7			10 s			0.07	1.8	cloudy	P. H. Ray.
Oswego, New York	29.82	757.4	30.14	765.5	55.8	13.2	76	w.	8	3.6		5 c	0	w.		0	0	fair	S. W. Beall.
Palestine, Texas	29.54	750.3	30.08	764.0	77.0	25.0	88	s.	10	4.5		6 ck	4 ks	sw.	s.	0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.10	764.5	30.13	765.3	80.2	26.8	88	sw.	1	0.4		4 cs	0	w.		0	0	fair	M. McGauran.
Philadelphia, Pa.	30.10	764.5	30.20	767.1	64	17.8	58	nw.	6	2.7		0	9 ks		sw.	0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.89	454.4	29.71	754.6	28	— 2.2	77	w.	22	9.8		0	0			0	0	clear	L. M. Dey.
Pioche, Nevada	23.94	608.1	29.74	755.4	40	4.4	86	n.	10	4.5		1 k	0	calm		0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.36	745.7	30.15	765.8	62.0	16.7	68	n.	4	1.8		0	0			0	0	clear	J. H. Bryce.
Poplar River, Montana	27.76	705.1						s.			1	0	0			0	0	clear	U. D. Maxwell.
Port Eads, Louisiana	30.12	765.0	30.13	765.3	79.0	26.1	91	s.	1	0.4		0	0			0	0	clear	H. G. Christian.
Port Huron, Michigan	29.52	749.8	30.18	766.6	60.0	15.6	74	e.	1	0.4		5 ck	0	w.		0	0	fair	W. O. Bailey.
Portland, Maine	29.96	761.0	30.01	762.2	61.0	16.1	56	w.	12	5.4		7 c	0	w.		0	0	fair	W. W. Eichelberger.
Portland, Oregon	30.03	762.7	30.10	764.5	52.2	11.2	80	sw.	8	3.6			10 s		s.	0.02	0.5	cloudy	M. L. Hearne.
Portsmouth, N. Carolina																			F. P. Chaffee.
Prescott, Arizona	24.73	628.1	29.75	755.6	47	8.3	54	s.	2	0.9		0	0			0	0	clear	J. McN. Wright.
Provincetown, Mass.	30.05	763.3	30.08	764.0	60.5	15.8	72	w.	7	3.1		3 cs	4 s	sw.		0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	30.11	764.8	30.12	765.0	81	27.2	72	ne.	6	2.7		1 c	1 k	calm	calm	0	0	clear	W. J. Evans.
Red Bluff, California	29.62	752.3	29.98	761.5	59.0	15.0	54	n.	3	1.3		0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.80	756.9	30.02	762.5	82	27.8	82	s.	8	3.6		0	0			0	0	clear	P. M. Wilson.
Rochester, New York	29.52	749.8	30.17	766.3	57	13.9	74	w.	5	2.2		8c;ck	fg.	nw.		0	0	cloudy	E. W. McGann.
Roseburg, Oregon	29.60	751.8	30.16	766.1	47	8.3	81	e.	6	2.7		0	7 ks		s.	0.07	1.8	fair	J. J. Nanry.
Sacramento, California	29.89	759.2	29.96	761.0	54.9	12.7	69	calm	0	0		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.44	747.8	30.03	762.7	69.3	20.7	100	s.	10	4.5			fg.			0.82	20.8	dense fog	J. H. Webber.
St. Paul, Minnesota	29.20	741.7	30.05	763.3	58.0	14.4	86	se.	6	2.7			10 s		se.	0.03	0.8	cloudy	P. F. Lyons
St. Vincent, Minnesota	29.09	738.9	29.94	760.5	53	11.7	100	se.	11	4.9			10 n		se.	0.21	5.3	light rain	G. Kingsbury.
Salt Lake City, Utah	25.68	652.3	29.90	759.4	49	9.4	52	ne.	11	4.9			10 s			0.05	1.3	cloudy	J. Craig.
San Antonio, Texas	29.32	744.7	30.00	762.0	78	25.6	91	se.	4	1.8		2 cs	5 ks	calm	s.	0	0	fair	E. Lane.
San Diego, California	29.85	758.2	29.92	760.0	62.2	16.8	75	ne.	3	1.3		4 k	6 s	sw.		0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.50	749.3	30.17	766.3	62	16.7	60	se.	8	3.6		0	0			0	0	clear	M. H. Perry.
Sandy Hook, New Jersey	30.15	765.8	30.19	766.8	63.0	17.2	84	nw.	6	2.7		10 k	0	nw.		0	0	cloudy	B. A. Blundon.
San Francisco, California	29.95	760.7	30.02	762.5	53	11.7	83	sw.	10	4.5		0	0			0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.27	591.0	29.78	756.4	57	13.9	33	e.	6	2.7		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	30.03	762.7	30.12	765.0	84	28.9	72	sw.	2	0.9		2 k	4 ks	sw.	sw.	0	0	fair	H. W. Ford.
Shreveport, Louisiana	29.87	758.7	30.10	764.5	78	25.6	88	s.	1	0.4		0	8 k		s.	0	0	cloudy	E. N. Meekins.
Silver City, New Mexico	24.30	617.2	29.80	756.9	50	10.0	50	w.	2	0.9		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	29.92	760.0	29.98	761.5	51	10.6	66	calm	0	0		0	0			0	0	clear	J. J. McLean.
Smithville, North Carolina	30.12	765.0	30.16	766.1	77	25.0	82	e.	10	4.5		5 k	2 s	ne.		0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.93	709.4	29.97	761.2	47.5	8.6	88	sw.	12	5.4			10 s		sw.	0.17	4.3	cloudy	D. Moore.
Springfield, Illinois	29.34	745.2	30.01	762.2	66	18.9	95	s.	7	3.1			10 s		s.	0.69	17.5	cloudy	T. B. Jennings.
Springfield, Massachusetts	30.01	762.2	30.14	765.5	60.4	15.8	70	sw.	2	0.9		10 cs	0	sw.		0	0	cloudy	T. S. Outram.
Springfield, Mo.	28.62	726.9	30.08	764.0	75	23.9	82	s.	7	3.1		5 c	4 k	w.	sw.	0	0	cloudy	J. B. Marbury.
Starkville, Miss.	29.65	753.1	30.12	765.0	81.2	27.3	79	sw.	8	3.6		4 cs	0			0	0	fair	M. J. Wright.
Stockton, Texas	26.97	685.0	29.89	759.2	71.0	21.7	100	sw.	8	3.6			10 s		w.	0.22	5.6	cloudy	J. O'Dowd.
Thatcher's Island, Mass.	30.02	762.5	30.07	763.8	62.0	16.7	60	nw.	14	6.3		8 ck	0	nw.		0	0	cloudy	G. Liebmann.
Toledo, Ohio	29.46	748.3	30.14	765.5	64	17.8	58	e.	3	1.3		1 c	0	w.		0	0	clear	A. Buell.
Tucson, Arizona	27.46	697.5	29.76	755.9	64	17.8	45	s.	2	0.9		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.71	754.6	30.07	763.8	54	12.2	60	sw.	16	7.2			10 s		sw.	inap.	inap.	cloudy	J. Daly.
Uvalde, Texas	29.02	737.1	29.96	761.0	77	25.0	90	se.	8	3.6		10 c	0	s.		0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.88	758.9	30.13	765.3	79	26.1	88	sw.	1	0.4		6 c	0			0	0	fair	H. P. Brisbane.
Visalia, California	29.57	751.1	29.94	760.5	54	12.2	66	nw.	2	0.9		0	0			0	0	clear	W. L. Seward.
Washington, D. C.	30.10	764.5	30.21	767.3	65.1	18.4	83	calm	0	0			10 s		nw.	inap.	inap.	cloudy	B. M. Purssell.
West Las Animas, Colorado	25.96	659.4	29.74	755.4	60.9	16.1	67	nw.	3	1.3		0	0			0	0	clear	F. W. Brandenburg.
Williamsport, Pa.	29.59	751.6	30.19	766.8	60	15.6	44	calm	0	0			10 ks			0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.11	764.8	30.16	766.1	75	23.9	85	se.	1	0.4			10s;hz		se.	0	0	cloudy	A. T. Sherwood.
Winnemucca, Nevada	25.68	652.3	29.94	760.5	38	3.3	64	n.	9	4.0		0	0			0.03	0.8	clear	J. R. Williams.
Yankton, Dakota	28.71	729.2	29.99	761.7	63	17.2	84	s.	1	0.4			10 s			0	0	cloudy	J. H. Attield.
Yuma, Arizona	29.60	751.8	29.74	755.4	70.3	21.3	67	calm	0	0		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.03	559.6			55.0	12.8	69	ne.	2	0.9		4 cs;k	1 s	nw.		0	0	fair	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.05	763.3	30.06	763.5	82	27.8	91	ne.				5 k	5 ks	e	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.97	761.2	30.00	762.0	77	25.0	86	s.	6	2.7			10 ks		s.	1.90	48.3	cloudy	J. I. Plume.
Havana, Cuba, W. I.	30.13	765.3	30.18	766.6	82	27.8	82	calm	0	0		2 cs	0			0	0	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.05	763.3	30.06	763.5	85.0	29.4	68	ese.	6	2.7		10 cs	0			0	0		Robert Johnston.
Magua, San Domingo, W. I.					73	22.8		e.			2	4 ks	0	s.		0	0		S. M. Pike.
Paramaribo, S. A.	30.12	765.0	30.12	765.0	79	26.1	87	se.			2	5 k	4 s	e.		0.750	19.0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.42	747.3	29.88	758.9	85	29.4	81	s.			1	10 ck	0	calm		0.55	14.0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							98	ne.			2					0	0	fair	Earl Flint.
Santiago de Cuba, W. I.	30.04	763.0	30.07	763.8	80	26.7	74	calm	0	0		5 c	0			0	0	fair	Robert Mason.
York Factory, B. A.	29.96	761.0	30.02	762.5	59.0	15.0	82	s.	8	3.6		0	1 s		s.	0	0	fair	Fortesque & Wood.

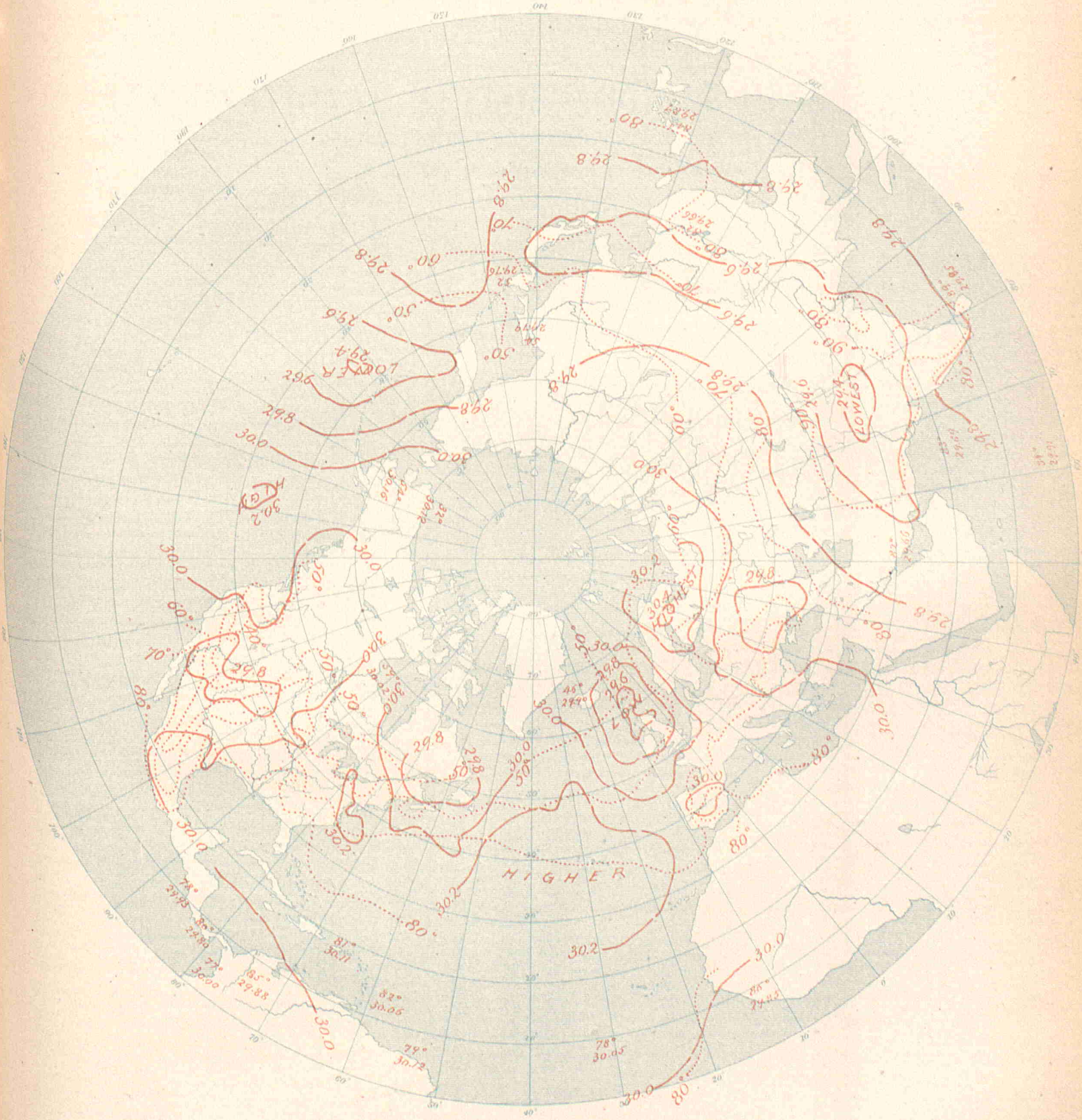
* Observation 48 minutes late.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
British Naval.																		
H. M. S. Alert, Simons Bay, Cape Colony, Africa	30.00	762.0	72.5	22.5	71	e.					2							d. clouds.
H. M. S. Alexandra, Alexandria, Egypt	30.01	762.2	76.5	24.7	75	n.			4		0					1	nnw.	blue sky.
H. M. S. Amethyst, Montevideo, Uruguay	30.02	762.5	50	10.0	100	w.			2		4							d. clouds.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.92	760.0	74	23.3		ese.			3									blue sky.
H. M. S. Arab, Jask, Persia	29.49	749.0	88	31.1	88	sw.			3		2							misty.
H. M. S. Bacchante, N. 37° 51′, E. 15° 02′	30.06	763.5	73	22.8	81	ese.			4		3	wnw.						d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	29.97	761.2	75	23.9		w.			1-2		1	nw.						blue sky.
H. M. S. Champion, N. 19° 50′, W. 165° 15′			79	26.1		ene.			1-2		1					1	ne.	blue sky.
H. M. S. Coquette, Port Said, Egypt	29.96	761.0	74	23.3		nw.			3		0							blue sky.
H. M. S. Cruiser, Naples, Italy	30.01	762.2	74	23.3		sw.			3		3	sw.				2	ssw.	d. clouds.
H. M. S. Diamond, S 10° 25′, E. 162° 26′	29.89	759.2	80.5	26.9	98	calm			0		2	n.						d. clouds.
H. M. S. Dido, N. 12° 50′, W. 63° 15′	30.06	763.5	80	26.7		ene.			5		3	ene.				4	ene.	d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	30.14	765.5	76	24.4	86	ssw.			1-2		7	ssw.						d. clouds.
H. M. S. Druid, N. 18° 48′, W. 74° 05′	30.08	764.0	82.5	28.1	85	se.			2-3		8	se.				2	se.	squally.
H. M. S. Dwarf, S. 25° 16′, W. 57° 45′	29.94	760.5	58.5	14.7	94	calm			0		10							raining.
H. M. S. Eclipse, S. 4° 37′, E. 55° 30′	30.00	762.0	79	26.1		ese.			1		4							d. clouds.
H. M. S. Emerald, S. 47° 20′, W. 48° 15′	29.48	748.8	46	7.8	100	w.			4-5		7	w.				4	w.	d. clouds.
H. M. S. Euryalus, Trincomalee, Ceylon, India	29.75	755.6	88.5	31.4	67	sw.			2		1	calm						blue sky.
H. M. S. Espiegle, S. 20° 15′, E. 169° 44′	29.97	761.2	71	21.7	90	e.			2		10							overcast.
H. M. S. Fawn, S. 25° 26′ E. 40° 53′	30.20	767.1	70.5	21.4	75	ssw.			4		4					3	se.	d. clouds.
H. M. S. Fantome, N. 14° 22′, W. 77° 43′	29.94	760.5	81	27.2		ne.			5-6		7	ne.				5	ne.	d. clouds.
H. M. S. Flying Fish, N. 37° 21′, E. 126° 23′	29.52	749.8	67	19.4	90	wnw.			1		7							d. clouds.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.09	764.3	49	9.4	93	se.			1		10							misty.
H. M. S. Garnet, S. 34° 55′, W. 55° 00′	30.07	763.8	52	11.1	93	w.			3		0							blue sky.
H. M. S. Griffon, N. 49° 15′, W. 53° 21′	29.80	756.9	58	14.4	75	se.			2		10							rain & fog.
H. M. S. Inconstant, Saint Vincent, Cape Verd Is d.	30.06	763.5	76	24.4	81	nne.			2-3		7	nne.				2	nne.	d. clouds.
H. M. S. Iris, N. 33° 10′, E. 24° 30′	30.02	762.5	75	23.9	68	ese.			1-2		0					1	ese.	blue sky.
H. M. S. Iron Duke, N. 35° 26′ E. 139° 39′	29.61	752.1	70	21.1	90	sse.			2		8	sse.						d. clouds.
H. M. S. Kingfisher, Acapulco, Mexico	29.85	758.2	83	28.3		calm			0		8							d. clouds.
H. M. S. Lark, S. 10° 40′, E. 162° 22′	29.91	759.7	81.3	27.4		e.			1		6					1	e.	showery.
H. M. S. Magpie, N. 35° 20′, E. 140° 27′	29.62	752.3	71.1	21.7	92	s.			2		10					4	se.	d. clouds.
H. M. S. Minotaur, N. 36° 35′ E. 12° 57′	30.07	763.8	71	21.7	80	wnw.			3		1					2	wnw.	misty.
H. M. S. Nelson, S. 36° 11′, E. 175° 20′	29.71	754.6	60	15.6	94	calm			0		8							raining.
H. M. S. Rambler, S. 13° 30′ E. 12° 24′	30.00	762.0	70	21.1	?	wsw.			2		0							blue sky.
H. M. S. Rocket, N. 50° 40′, W. 127° 20′	29.95	760.7	50	10.0	100	calm			0		7							d. clouds.
H. M. S. Sappho, S. 25° 40′ W. 115° 00′	30.11	764.8	63.5	17.5		sw.			2		5	sw.				3	s.	showery.
H. M. S. Swiftsure, N. 2° 31′ W. 24° 13′	30.04	763.0	76.5	24.7	90	se.			4		7	sse.				4	ese.	d. clouds.
H. M. S. Sylvia, S. 26° 23′, W. 45° 55′	30.03	762.7	68.7	20.4	83	sw.			1		9	s.				3	e.	d. clouds.
H. M. S. Tenedos, N. 47° 39′ W. 56° 11′	29.77	756.1	52	11.1	100	sse.			2		10							rain & fog.
H. M. S. Triumph, Valparaiso Chili	30.09	764.3	47	8.3	100	calm			0		10	calm						foggy.
H. M. S. Tyne, N. 36° 12′, W. 8° 18′	30.06	763.5	68	20.0	84	nw.			4		0					4	wnw.	blue sky.
H. M. S. Woodlark, Bushire, Persia	29.56	750.8	81.5	27.5	73	nw.			6		0					4	nw.	misty.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verd Islands	30.08	764.0	79.0	26.1	91	se.			1		2					2		d. clouds.
Tamega, Macao, China	29.78	756.4	85.1	29.5	81	sw.			3		4							d. clouds.
Swedish Naval.																		
Saga, N. 40° 23′, W. 25° 42′	30.28	769.0	69.1	20.6	91	wnw.			3		8							overcast.
United States Naval.																		
Navy Yard, Pensacola, Fla	30.10	764.5	82	27.8	87	sw.	2	0.9			5		sw.	0	0			fair.
N. Yard, Portsmouth, N. H	30.05	763.3	61	16.1	66	w.	12	5.4			5		w.	0	0			fair.
Naval Hospital, Yokohama, Japan*	29.53	750.0	71.5	21.9	98	s.			2		5			0	0			fair.
Adams, Mare Island, Cal	30.01	762.2	59	15.0	94	wsw.			1-2		0			0	0			clear.
Alaska, Callao, Peru	29.98	761.5	59	15.0	94	se.			1		10			0	0	sm'h		cloudy.
Alert, N. 43° 19′, E. 159° 50′*	29.71	754.6	51	10.6	93	nnw.			1		10		calm	0	0	sm'h		foggy.
Alliance, N 39° 46′, W. 72° 28′	30.07	763.8	63	17.2	83	nne.			2		10		nne.	0	0	sm'h		cloudy.
Ashuelot, Yokohama, Japan	29.62	752.3	72	22.2	90	sw.			2		2		calm					clear.
Brooklyn, Rio de Janeiro, Brazil	30.10	764.5	69	20.6	90	n.	5	2.2			2		calm	0	0	sm'h		fair.
Colorado, New York, N. Y	30.17	766.3	64	17.8	68	nw.	9	4.0			10		wnw.	0	0			light fog.
Constellation, Annapolis, Md*	30.18	766.6	66	18.9	68	se.			2		8		se.					fair.
Enterprise, Norfolk, Va*	30.19	766.8	68	20.0	90	sw.			1		5		sw.					fair.
Essex, S. 52° 02′, W. 67° 40′	29.92	760.0	41	5.0	74	sw.			4		8					mod.	sw.	fair.
Franklin, Norfolk, Va	30.25	768.3	66	18.9	89	ssw.	6	2.7			2		calm	0	0			fair.
Galena, Alexandria, Egypt	29.99	761.7	76	24.4	86	nne.			2		2					sm'h		fair.
Independence, Mare Island, Cal	30.01	762.2	56	13.3	87	sw.			3		0			0	0			clear.
Iroquois, San Francisco, Cal	30.06	763.5	57	13.9	69	calm			0		0			0	0			clear.
Kearsarge, Norfolk, Va	30.21	767.3	67	19.4	95	s.			1		10							cloudy.
Lackawana, Paita, Peru*	29.94	760.5	62	16.7	83	se.			2		10		se.					cloudy.
Lancaster, N. 37° 03′E. 11° 28′*	30.04	763.0	72	22.2	95	nne.			3		2		ne.	0	0	sm'h		fair.
Marion, S. 34° 53′, W. 56° 13′	30.00	762.0	52	11.1	100	sw.			3		2					sm'h		clear.
Michigan, Detroit, Mich	30.17	766.3	63	17.2	62	e.			1		2		ne.					fair.
Minnesota, Newport, R. I	30.16	766.1	66	18.9	64	n.	3	1.3			10		nw.					
Monocacy, Nagasaki, Japan	29.62	752.3	73	22.8	95	calm			0		10		calm					cloudy.
New Hampshire, Newport, R. I	30.08	764.0	62	16.7	66	nnw.			2		10		nw.			sm'h		cloudy.
Nipsic, Trieste, Austria	30.03	762.7	73	22.8	63	wsw.			2		5					sm'h		fair.
Onward, Callao, Peru	30.11	764.8	59	15.0	94	se.			2		10		n.			long	w.	misty.
Palos, Sura Us Uchi, Japan	29.61	752.1	74	23.3	90	calm			0		8		calm					fair.
Passaic, Washington, D. C	30.20	767.1	64	17.8	89	ne.			1		0							fair.
Pensacola, Callao, Peru	30.02	762.5	60	15.6	88	sse.	4	1.8			10			0	0	sm'h		cloudy.
Powhatan, N. 39° 13′, W. 75° 17′	30.19	766.8	63	17.2	67	ese.			2		8		ese.					cloudy.
Portsmouth, Brest, France*	29.92	760.0	62	16.7	94	sw.			4		10		s.					cloudy
Quinnebaug, N. 36° 18′, W. 1° 42′	30.08	764.0	70	21.1	95	nne.			5		0					sm'h		hazy.
Ranger, Mare Island, Cal*	29.96	761.0	60	15.6	76	sw.			2		0			0	0	sm'h		clear.
Richmond, N. 33° 44′, E. 132° 08′*	29.57	751.1	71	21.7	95	e.			2		0			0.60	15.2			clear.
Saratoga, Brest, France	30.01	762.2	59	15.0	88	w.			2		10		calm	0	0	mod.	nw.	overcast.
St. Louis, League Island, Pa	30.45	773.4	66	18.9	54	nw.	4	1.8			2		nw.	0	0			clear.
Swatara, N. 33° 51′, E. 131° 30′*	29.43	747.5	75	23.9	86	se.			2		8		calm			sm'h		fair.
Tennessee, N. 39° 44′ W. 72° 31′	30.19	766.8	66	18.9	74	nne.			4		10		ne.	0	0	sm'h		cloudy.
Vandalia, N. 39° 35′, W. 72° 36′*	30.15	765.8	62	16.7	88	nne.			2		10		calm			mod.	nnw.	cloudy.
Wabash, Boston, Mass	30.09	764.3	61	16.1	77	nw.	5	2.2			8		w.	0	0			cloudy.
Wachusetts, N. 56° 23′, W. 135° 03′	29.91	759.7	51	10.6	93	sse.			1		0			0	0	sm'h		clear.
Wyoming, Port Royal, S. C	30.11	764.8	81	27.2	78	w.	4	1.8			5		sw.	0	0			fair.
Yantic, N. 39° 39′, W. 72° 39′*	30.12	765.0	63	17.2	83	nne.			2		8					sm'h		cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 50° 40′, W. 43° 00′*	30.10	764.5	55	12.8	100	sw.			2		10		wsw.			sm'h		showery.
S. S. Grecian, N. 50° 10′, W. 40° 00′*	30.15	765.8				calm			0		10		w.	0	0	sm'h		hazy.
S. S. Prussian, Glasgow, Scotland *	29.44	747.8	59	15.0		se.			2		1		se.	2 h'r	2 h'r			clear
S. S. Scandinavian, N. 54° 25′ W. 14° 14′*	29.52	749.8	56	13.3		wsw.			6		3		wsw.	0	0	mod.	wsw.	d. clouds.
S. S. Waldensian, N. 42° 23′, W. 68° 45′*	30.08	764.0	54	12.2		wsw.			2		2		wsw.	0	0	light	cross	clear.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, Delaware river	30.15	765.8	65	18.3	78	ne.			3		8		ne.					
S. S. Indiana, Liverpool, Engf	29.89	759.2	57	13.9	87	n.			3		8		n.					rainy.
S. S. Lord Clive, Delaware river *†	29.90	759.4				calm			0		0			0	0			fine.
S. S. Lord Gough, N. 40° 38′, W. 50° 16′	30.17	766.3	82	27.8		s.			4		5		s.	0	0	mod.	ssw.	fair.
S. S. Pennsylvania, Irish Channel†	29.62	752.3	60	15.6		wnw.			2		8		nw.			sm'h	nw.	blue sky.
ANCHOR LINE.																		
S. S. Devonia, N. 40° 40′, W. 49° 17′†	30.35	770.9	75	23.9		s.			2		1		s.			sm'h		clear.
S. S. Ethiopa, New York, N. Y.	30.17	766.3	65	18.3	68	nw.			2		6		nw.	0	0			cloudy.
S. S. Utopia, N. 36° 22′, W. 4° 36′†	30.34	770.6	78	25.6	49	w.			2		0			0	0	sm'h		clear.
ATLAS LINE.																		
S. S. Ailsa, Savanilla, U. S. C. †	29.89	759.2	84	28.9	79	ene.			2		2		ene.	0	0			fair.
S. S. Alvena, N. 17° 41′, W. 67° 50′†	29.96	761.0	82	27.8	75	e.			2		8		ene.	1 h'r	1 h'r	sm'h	ese.	fine.
S. S. Alvo, N. 36° 00′, W. 74° 00′	30.23	767.8	88	31.1		nne.			1		2		ne.	2 h'r	2 h'r			
S. S. Antillas, N. 38° 26′, W. 73° —′*†	30.30	769.6	65	18.3		calm			0					0	0	sm'h		fine.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 31° 17′ E. 80° 10′	30.38	771.6	62.3	16.8	61	ne.			1		5							d. clouds.
S. Baroda, S. 6° 37′, E. 91° 22′	29.90	759.4	79.5	26.4	87	se.			5		9							d. clouds.
British Merchant, N. 33° 03′, W. 36° 05′	30.37	771.4	75.6	24.2	68	se.			0–1		6							d. clouds.
S. S. Glencairn, S. 3° 20′, W. 16° 10′	30.09	764.3	78	25.6	84	s.			4		3							d. clouds.
S. S. Gordon Castle, N. 3° 25′, E. 60° 30′	29.91	759.7	84	28.9	79	sw.			2–3		9							d. clouds.
Bkt. May Hulse, S. 51° 48′, W. 47° 58′	29.13	739.9	35.7	2.:	90	ssw.			4		10							overcast.
S. S. Minho, N. 19° 18′, W. 23° 13′	30.10	764.5	74.9	23.8	84	ne.			5		7							misty.
S. S. Pole Star, S. 14° 38′, W. 27° 42′	30.15	765.8	73.5	23.1	90	ese.			5		7							squally.
CROMWELL LINE.																		
S. S. Hudson, N. 26° 10′, W. 80° 00′†	30.20	767.1	76	24.4		s.			1		1		sse.	0	0	mod.	s.	clear.
CUNARD LINE.																		
S. S. Bothnia, N. 48° 51′, W. 29° 48′	30.15	765.8	64	17.8	73	nw.			3		5		nw.	0	0		nw.	fine.
S. S. Gallia, N. 49° 26′ W. 24° 16′	30.08	764.0	56	13.3	87	nw.			5		8		w.	3 h'r	3 h'r	sm'h		gloomy.
GENERAL TRANS-ATLANTIC COMPANY																		
S. S. France, N. 46° 42′, W. 31° 06′†	30.15	765.7	57.2	14.0		w.			2	ck		w.		0	0	sm'h	w.	covered.
GUION LINE.																		
S. S. Arizona, N. 51° 23′, W. 10° 25′	29.81	757.2	55	12.8					2		3		wsw.	0	0	mod.	wsw.	
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, New York, N. Y.†*	30.05	763.3				nnw.			2		1		n.	0	0			
S. S. Herder, N. 53° 44′, E. 9° 31′*†	30.05	763.3	71	21.7		ssw			1		1			0	0			clear.
S. S. Lessing, N. 47° 07′, W. 27° 46′	30.16	766.0	61	16.1		nw.			2		8		nw.	0	0	mod.	nw	misty.
INMAN LINE.																		
S. S. City of Berlin, N. 42° —′, W. 45° —′	30.28	769.1				sse.			3		9		se.	0	0	sm'h		fair.
JOHNSTON LINE.																		
S. S. Thanemore, N. 50° 00′, W. 13° 50′	29.84	757.9				wsw.			4		10		nw.	0	0	long	w.	fair.
MALLORY LINE.																		
S. S. Colorado, Galveston, Texas†	30.13	765.3	80	26.7		s.			3		1		se.	0	0			clear.
MERCHANTS EXPRESS LINE.																		
S. S. Hermod, N. 48° 30′ W. 22° 25′*†	29.76	755.9	59.0	15.0		nnw.			5		10		nw.	0	0	cross	nw.	threatening
MERCHANT STEAMSHIP COMPANY.																		
S. S. Glenfyne, N. 10° 13′, E. 35° 39′	29.55	759.6				ssw.			6				s.	0	0	mod.	se.	clear.
S. S. Glenapp, S. 1° 42′ W. 40° 17′*†	30.00	762.0				sse.			3		8		se.	5 h'r	5 h'r	short	se.	heavy rain.
NATIONAL LINE.																		
S. S. Denmark, N. 48° 32′ W. 18° 29′	30.00	762.0	56	13.3		nnw.			4		10		nw.	5 h'r	5 h'r	long	nw.	cloudy.
S. S. England, N. 51° 02′, W. 12° 09′	29.93	760.2				wnw.			5		2		wnw.	0	0	mod.	w.	clear.
S. S. Greece, N. 40° 28′, W. 72° 40′	30.16	766.1				nw.			2		8		nw.	0	0	sm'h	sw.	very fine.
S. S. The Queen, N. 46° 45′, W. 28° 20′*	30.07	763.8	56	13.3		n.			1		8		calm	0	0	gentle	n.	fine.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, N. 37° 54′, W. 74° 05′.†	30.22	767.6	62	16.7		sw.			2		7		nnw.	0	0	sm'h	se.	fine.
S. S. Saratoga, N. 24° 40′, W. 80° 20′†	30.31	769.9	81	27.2	82	ne.			3		0			3 h'r	3 h'r	sm'h		clear.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, New York, N. Y *†	30.20	767.1	63	17.2	78	w.			4									fair.
S. S. City of Puebla, Havana, Cuba, W. I.†	30.02	762.5	85	29.4		ese.			1		2		e.					fine.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N. 49° 04′, W. 17° 06′*†	30.10	764.5	59	15.0		wsw.			3–4								wnw.	rainy.
NORTH GERMAN LLOYD.																		
S. S. Hermann, N. 53° 33′, E. 5° 16′†	29.87	758.7	60.8	16.0		sse.			3		6		s.	0	0	mod.	wnw.	fair.
S. S. Hohenzollern, N. 44° 57′, W. 33° 06′*	30.27	768.8	66	18.9		nw.			3		9		nw.	0	0	sm'h	nw.	cloudy.
S. S. Leipzig, N. 39° 37′. W 70° 20′	30.13	765.3	65.0	18.3	94	calm			0		5		sw.	0	0	mod.	sw.	fair.
S. S. Necker, N. 40° 40′, W. 53° 26′			74.0	23.3	90	ssw.			4		2		ssw.	0	0	mod.	ssw.	clear.
S. S. Oder, N. 49° 46′, E. 7° 45′	29.89	759.2	60.8	16.0		w.			4		7		wnw.	4 h'r	4 h'r	mod.	wnw.	rainy.
S. S. Ohio, Bremerhaven, Germany						se.			2		0			0	0			clear.
S. S. Rhein, N. 46° 51′ W. 39° 54′	30.24	768.1				calm			0		8		w.	0	0	mod.	w.	cloudy.
S. S. Salier, Bremerhaven, Germany	29.97	761.2	57.2	14.0		calm			0		8		s.	2 h'r	2 h'r			cloudy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 23° 20′, E. 116° 45′*†	29.62	752.3	78	25.6	82	s.			3		5		ssw.	0	0			d. clouds.
S. S. Belgic, N. 47° 47′, E. 174° 58′†	29.48	748.8	53	11.7	86	se.			6		10			rain	rain	high	sse.	cloudy.
S. S. Coptic, N. 43° 25′, W. 141° 09′	30.31	769.9	59.2	15.1		calm			0		9		w.	4 h'r	4 h'r			heavy rain.
S. S. Gaelic, Yokahama, Japan †	29.65	753.1	73	22.8	85	sw.			5		7		s.			mod.	ne.	overcast.
S. S. Oceanic, N. 41° 46′, E. 157° 11′*	29.79	756.7	54	12.2	93	wsw.			3		9		sw.			1	c'fd.	overcast.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga.†	30.17	766.3				ssw.			1		8?		ssw.	0	0			clear.
S. S. City of Columbus, Savannah, Ga						nw.			3		2		w.	0	0			clear.
S. S. Seminole, Boston, Mass†	30.07	763.8	78	25.6	49	w.			5		5		sw.	0	0			fair.
OREGON IMPROVEMENT COMPANY.																		
S. S. Willametta, N. 46° 58′, W. 124° 50′†	30.09	764.3	55	12.8	80	wsw.			3		6		w.	0	0		wnw.	cloudy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, Portland, Oregon †	30.04	763.0	52	11.1	86	calm			0		10		sw.					misty.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 36° 21′, E. 121° 53′†	29.94	760.5	54	12.2	80	n.			4		2		n.			mod.	nw.	fair.
S. S. Dakota, N. 39° 47′, W. 124° 10′*†	30.00	762.0	54	12.2	100	nw.			5		10		w.			long	w.	cloudy.
S. S. Geo. W. Elder, N. 46° 54′, W. 124° 52′†	30.01	762.2	52	11.1	93	sw.			2		8					light	nw.	hazy.
S. S. Idaho, Nanaimo, Vancouver's Island, B. C.†	29.96	761.0	54	12.2	93	s.			2		10					sm'h		raining.
S. S. State of California, N. 45° 13′, W. 124° 10′ †	30.11	764.8	55	12.8	74	se.			3		4?		se.			mod.	nw.	cloudy ?
S. S. Victoria, Portland, Oregon †	30.05	763.2	53	11.7	86	calm			0		10					sm'h		drizzling.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, S. 22° 30′, W. 174° 16′	29.91	759.7	71	71.7	75	s.			4		0			0	0	long	s.	clear.
S. S. City of Pekin, Hong Kong, China†	29.73	755.1	84	28.9	91	s.			2		5		sw.	0	0	sm'h		fair.
S. S. City of Rio de Janeiro, N. 18° 20′, W. 103° 37′*†	30.10	764.5	81	27.2	78	nne.			4		10		nne.	0.2	5.	mod.	cross	raining.
S. S. City of Sydney, Sydney, N. S. W.†	30.21	767.3	47	8.3	70	w.			3		2		w.	0	0	sm'h		fair.
S. S. Clyde, N. 20° 48′, W. 107° 04′†	29.95	760.7	80	26.7	82	wnw.			2		2		ne.	4 h'r	4 h'r	long	wnw.	clear.
S. S. Colima, N. 35° 22′, W. 121° 51′†	29.98	761.5	56	13.3	87	nw.			5		10		nw.	0	0	r'gh	nw.	cloudy.
S. S. Colon, N. 20° 38′ W. 74° 00′†	30.15	765.8	84	28.9		e.			4		6		e.	0	0	mod.	e.	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
PACIFIC MAIL STEAMSHIP COMPANY.—Continued.																		
S. S. Grenada, N. 7° 10′, W. 80° 42′†	29.80	756.9	80	26.7	96	ene.			1		8		e.	2 h'r	2 h'r	mod.	s.	cloudy.
S. S. South Carolina, Punta Arenas, Costa Rica†	29.93	760.2	78	25.6	86	ne.			1		2		ne.	0	0	sm'h		
S. S. Zelandia, S. 31° 27′, E. 178° 51′	30.08	764.0	66	18.9	79	n.			2		8		nw.			mod.	ne.	fair.
QUEBEC S. S. COMPANY.																		
S. S. Bermuda, St. Kitts, W. I†	30.14	765.5	82	27.8		ene.			4		5		ese.	sh'rs	sh'rs	long	ese.	fine.
RED STAR LINE.																		
S. S. Nederland, N. 48° 46′, W. 19° 09′†	30.12	765.0	55	12.8		wnw.			4		10		nw.	4 h'r	4 h'r	mod.	wnw.	overcast.
S. S. Rhynland, N. 49° 48′, W. 6° 45′	29.84	757.9	58	14.4	82	w.			2		10		w.	0.4	10.	mod.	sw.	cloudy.
S. S. Switzerland, N. 39° 21′, W. 71° 02′†	30.18	766.6				wnw.			2		10		n.	1 h'r	1 h'r	sm'h		misty.
S. S. Vaderland, Jersey City, N. J.	29.93	760.2	66	18.9	68	var.			1		8			0	0			cloudy.
ROTTERDAM LINE.																		
S. S. P. Caland, N. 44° 28′, W. 36° —†	30.28	769.1	64.0	17.8	94	ne.			2		9 n		ne.			mod	n.	fair.
STATE LINE.																		
S. S. State of Florida, N. 41° 08′, W. 66° 21′	29.85	758.2	54	12.2		wsw.			3		5		wsw.	2 h'r	2 h'r	sm'h		clear.
S. S. State of Georgia, N. 50° 12′ W. 30° 36′†	30.23	767.8	57	13.9		nw.			3		5		nw.	rain	rain	slight	nw.	fine.
THINGVALLA LINE.																		
S. S. Thingvalla, Brooklyn, N. Y.†	30.40	772.1	66.2	19.0		wsw.			1		8		wsw.	0	0			covered.
WARREN LINE.																		
S. S. Iowa, N. 42° 20′ W. 70° 06′*†	30.15	765.8	54	12.2		wsw.			4		6		wsw.	5 h'r	5 h'r	slight	s.	cloudy.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 30° 39′ W. 53° 28′	29.97	761.2									3		s.			sm'h		
WHITE STAR LINE.																		
S. S. Baltic, N. 47° 41′ W. 35° 19′†	30.29	769.4	61	16.1	94	wnw.			2		10		nnw.	0	0	sm'h		foggy.
S. S. Celtic, Queenstown, Ireland†	29.85	758.2	60	15.6	76	wnw.			3		10		wnw.	6 h'r	6 h'r	sm'h		cloudy.
S. S. Republic, N. 41° 22′, W. 56° 36′†	30.12	765.0	73	22.8	100	ssw.			6		10		ssw.	2 h'r	2 h'r	mod.	ssw.	raining.
WILSON LINE.																		
S. S. Otranto, N. 48° 08′ W. 28° 19′†	30.34	770.6	67	19.4		w.			3		5?		nw.			long	wnw.	clear.?
MISCELLANEOUS.																		
Bg. Abbie Clifford, N 22° 45′, W. 74° 24′*†	30.17	766.3	83	28.3		e.			4		6		e.	0	0	sm'h		fine.
Schr. Addie Fuller, Hyannis, Mass†	30.16	766.1	64	17.8	67	nw.			3	0	8 k		ene.	0	0			cloudy.
Schr. Ajax, N. 28° 20′, W. 96° 21′†	30.06	763.5				se.			1		4		s.	0	0	mod.	s.	fair.
Bk. Alpha, N. 36° 00′, W. 74° 30′†	30.14	765.5	68	20.0		nne.			1		2		sw.	0	0	sm'h		fair.
Schr. Annie Lewis, Mobile Bay, Ala†	30.26	768.6	86	30.0		w.			1		0			0	0	sm'h		clear.
Bk. Anna Thormann, S. 21° 48′, W. 31° 48′	30.19	766.9	72.5	22.5	82	e.			4	4ck'cs		e; sw		0	0	mod.	sse.	fair.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.25	768.3	76	24.4		nw.			1		8		calm	0	0			cloudy.
Bk. Bergenseren, N. 39° 05′. W. 70° 30′†	30.07	763.8	65	18.3		wnw.			1				w.	0	0	sm'h		fair.
Schr. C. R. Flint, N. 27° 27′, W. 89° 17′†	30.33	770.4	79	26.1		ese.			1		2		ese.	0	0	sm'h	s.	clear.
Schr. Edith R. Seward, Wilmington, N. C*†	30.20	767.1	78	25.6		e.			1		9		se.	0	0			cloudy.
S. E. J. Spicer, N. 48° 40′. W. 48° 05′†	30.22	767.6				wsw.			5		fog			rain	rain	mod	wsw.	
Bk. Essex, S. 6° 55′ W. 31° 57′*†	30.01	762.2	83	28.3		ese.			4		4		se.	0	0	high	sse.	
S. Exporter, S. 21° 00′, E. 82° 00′*†	30.30	769.6				se.			6		2?		se.	2 h'r	2 h'r	long	se.	cloudy.?
Bk. Freya, N. 40° 42′, W. 46° 33′			73	22.8		s.			4		5		s.	0	0	sm'h		fair.
S. Grecian, Hong Hong, China*†	29.80	756.9	83	28.3		s.			1		4		sw.	0	0			clear.
Bk. Hattie G. McFarland, N. 43° 20′, W. 63° 36′*†	30.03	762.7	56	13.3		wsw.			3		1		nw.	8 h'r	8 h'r	sm'h	ssw.	clear.
S. Hedwig, N. 42° 27′, W. 27° 28′	30.28	769.1	68.0	20.0	97	wnw.			4		8		wnw.			sm'h	w.	drizzling
S. Ismir, S. 31° 50′, W. 24° 30′†	30.37	771.4				wnw.			2		6		wsw.				sse.	fine.
Schr. James Slater, Para, Brazil*†	30.21	767.3	81	27.2		calm			0		5		se.	2 h'r	2 h'r			
Schr. Jennie N. Huddell, Bath, Me†	30.15	765.8	64	17.8	78	wsw.			1		2		w.	0	0			fair.
Schr. John L. Thomas, N. 14° 22′, W. 82° 56′*†	30.04	763.0				ne.			6		4		ene	½ h'r	½ h'r			squally.
S. S. Lamperts, N. 19° 12′, E. 63° 58′*	29.69	754.1	83.0	28.3	76	sw.			6		6 k;s					6		misty.
S. S. Laurel, Key West, Florida†	30.16	766.1	85	29.4		ene.			2		8		ene.	0	0			cloudy.
S. S. Malabar, N. 24° 42′, E. 119° 20′*†	29.77	756.1												0	0			
S. M. P. Grace, N. 8° 55′, W. 31° 30′*	29.95	760.7	78	25.6		ene.			4				ene.	0	0	sm'h	e.	
S. S. Nebo, N. 46° 21′ W. 56° 36′†*	29.83	757.7				w.			3		8			1 h'r	1 h'r	sm'h		misty.
Bk Orpheus, N. 39° 09′, W. 62° 40′	30.07	763.8	74	23.3		w;n			3		7k;s					sm'h	nw.	hazy.
S. Paramita, S. 55° 30′ W. 86° 08′†	28.88	733.5	41	5.0		nw.			9		7?		wnw.	20 h'r	20 h'r	h'vy	w.	clear.?
Bk. Peppina, Newport, Eng†.	29.85	758.2	62	16.7	88	ssw.			2		10			rain	rain			light rain.
S. S. Ponca, S. 22° 47′ W. 40° 34′†	30.08	764.0	76	24.4		ne.			2		6		n.	0	0	h'vy	ese.	fair.
Bg. Potomac, N. 13° 56′, W. 56° 39′*†	30.00	762.0				ene.			4				e.	0	0	h'vy	ese.	fine.
Bk. Rosebud, S. 25° 42′ W. 15° 22′*†	30.25	768.3	66	18.9	78	se.			2		0			0	0	long	sw.	fine.
S. Salisbury, S. 23° 04′, E. 105° 02′*.	30.18	766.5	63.3	17.4	79	s.			6		5		s.	½h'r	½h'r	r'gh	sw.	fair.
Bg. Teneriffe, N. 23° 00′, W. 79° 00′	30.04	763.0				e.			2		2		e.	0	0	sm'h		fair.
Bk. Truro, Havre, France*†	29.97	761.2				wsw.			1		10		wsw.	0	0			cloudy.
U. S. F. C. S. Fish Hawk, Point Lookout, Md†	30.39	771.9	71	21.7	95	wnw.			1		9		sw.	0	0			cloudy.
Yacht Vega, Delaware Breakwater*†	30.30	769.6	54	12.2		ne.			1		8		nnw.					
Bk. Vincenzo Accame, N. 36° 40′, W. 26° —††	30.59	777.0	71.6	22.0		ne.			2									
Schr. Viola Reppard, Brunswick, Ga†	29.99	761.7	82	27.8		n.			1		2		calm	0	0			clear.
Bkt. Wandering Jew, Boston, Mass†*	30.01	762.2	68	20.0		wnw.			2		9		se.	0	0			threatening
Bk. Warden Law, N. 45° 67′?, W. 21° 40′*	30.09	764.3				nnw.			4		8		wnw.	1 h'r	1 h'r	sm'h	nnw.	fair.
Bg. Wauburn, N. 34° 08′. W. 72° 00′*†	30.00	762.0				nnw.			5		4		n.	0	0	chop	n.	clear.
Bk. Wm. Wilcox, S. 7° 50′, W. 33° 00′*†	30.15	765.8	77	25.0		s.			4		10		s.	6 h'r	6 h'r	sm'h		squally.
S. Wm. Woodbury, N. 36° 22′, W. 61° 50′*	29.91	759.7	79	26.1	86	ssw.			6		4		sw.			long	ssw.	clear.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 22, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.99	761.7	77.0	25.0	76	sw.			3		1			0	0	very fair	Moiroud.
Algiers			29.98	761.6	74.8	23.8	77	ne.			3		5			inap.	inap.	cloudy	Nicolas.
La Calle			30.08	764.1	75.2	24.0	86	e.			1		1			0	0	very fair	Fonfrède.
Tunis			30.08	764.1															Jacques.
Saida			30.10	764.4	85.3	29.6	33	wnw.			3		0			inap.	inap.	clear	Perès.
Tebessa			30.11	764.8	87.4	30.8	27	wnw.			4		3			0	0	pretty fair	Derché.
Geriville					88.2	31.2	8	ssw.			4		1			inap.	inap.	very fair	Lonchamp.
Laghouat			30.11	764.9	92.8	33.8	39	w.			2		0			0	0	clear	Abraham.
Biskra			30.10	764.6	94.6	34.8	21	se.			1		6			inap.	inap.	cloudy	Malau.
Australian.																			
Melbourne, Victoria	30.01	762.2	30.10	764.5	47.0	8.3	73	n.	10	4.5			3			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.46	748.3	29.99	761.8	71.6	22.0	61	sw.			2		5			0.110	2.8		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.20	741.6	29.95	760.7	63.7	17.6	60	nw.	3.8	1.7			6			0.020	0.5		Dr. Wierzbiski.
Eperies	29.07	738.4	29.93	760.2	63.5	17.5	70	calm			0		9 s			0.205	5.2		Julius Mikolik.
Gratz	28.76	730.4	29.97	761.2	67.6	19.8	74	nw.			3		5			0.110	2.8		Andreas Rospini.
Hermannstadt	28.56	725.5	29.93	760.3	73.2	22.9	52	nw.			2		10			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.64	727.4	29.94	760.4	67.8	19.9	62	ene.			1		4 k			0	0		The Staff.
Lemberg	28.95	735.4	29.91	759.7	66.2	19.0	53	sw.			3		9			0.047	1.2		Dr. T. Stanecki.
Pola	29.90	759.4	30.01	762.2	72.5	22.5	91	se.			3		1			0	0		I. R. Hydrographic Office.
Szathmar	29.49	749.0	29.94	760.5	70.5	21.4	46	w.			4		6			0	0		Joseph Midlinszky, S. J.
Szegedin	29.70	754.4	29.97	761.3	70.2	21.2	51	s.			2		6			0.154	3.9		Karl Stancel.
Trieste	29.92	759.9	30.02	762.5	73.4	23.0	40	ne.			1		4			0	0		Royal Academy.
Vienna	29.29	744.0	29.99	761.7	68.2	20.1	57	se.			1		0			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.72	754.9	29.82	757.4	53.0	11.7	90	sse.	11	4.9			9			0.920	23.4	overcast	W. Boswell
Armagh, Observatory																			S. Oall.
Bidston, Liverpool Obs'y			29.71	754.6	54.3	12.4	83	ssw.	4	1.8			10					raining.	John Hartnup.
Bolton, Sharples	29.18	741.2	29.70	754.4	55.8	13.2	91	w.					10					raining.	Thomas Mackereth, A.S.
Bradford, Yorkshire	29.28	743.7	29.68	753.9	54.1	12.3	87	se.			1		10			1.45	36.8	raining	J. McLandsborough, F. R
Bridgetown, Barbadoes																			Corpl. J. Surgenor, A. H. C.
Cardington			29.73	755.1	62.0	16.7	83	se.			1.0		10					overcast	John McLaren.
Chatham, School M. E.	29.67	753.6	29.80	756.9	61.2	16.2	70	s.			2		9			blank	blank	d. clouds	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.51	749.5	29.73	755.1	59.7	15.4	68	wnw.			2		5					d. clouds	The Staff.
Fort Napier, Natal	27.84	707.1	30.06	763.5	74.2	23.4	20	se.			1		0					blue sky	Pvt. Lane, A. H. C
Free Town, Sierra Leone	29.71	754.6	29.94	760.5	84.0	28.9	71	w.			2		4					drizzling	Sergt. John Robinson.
Gibraltar, Mediterranean	29.98	761.5	30.03	762.7	76.5	24.6	76	w.			4		0					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.50	749.3	29.71	754.6	61.3	16.3	50	sse.			2		10 k					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.60	751.8	29.77	756.1	62.0	16.7	74	s.			1		10					overcast	The Staff.
Guernsey	29.40	746.7	29.70	754.4	56.0	13.3	100	ssw.			1		10					raining	A. Collenette, F. M. S.
Kew, Observatory	29.74	755.4	29.78	756.4	62.4	16.9	71	s.	18	8.0			10					threatening.	The Staff.
Leicester, Museum	29.45	748.0	29.70	754.4	57.5	14.2	93	sw.			1		10					raining	J. C. Smith.
Malta, Mediterranean	29.96	761.0	30.04	763.0	74.6	23.7	74	ne.			2		1					blue sky	I. H. Whysall.
Nassau, Bahamas	30.16	766.1	30.21	767.3	85.5	29.7	69	se.			1		5					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.19	741.4	29.70	754.4	55.0	12.8	96	w.			1		10					raining	Warren Middleton.
Oxford, Radcliffe Obs'y	29.50	749.3	29.73	755.1	57.0	13.9	92	sse.			4		10					drizzling	The Staff.
Plymouth	29.63	752.6	29.70	754.4	58.6	14.8	89	wnw.			2		10					overcast	John Merrifield.
Sandwick Manse, Orkneys			29.83	757.7	56.9	13.8	89	se.	20	8.9			5					d. clouds	Rev. C. Clouston, L. L.D
Scutari Cemetery, Turkey	29.90	759.4	29.97	761.2	85.0	29.4	32	ne.			1		1					blue sky	W. H. Lyne.
Sheffield	29.42	747.3	29.69	754.1	58.9	14.9	97	ese.			1		10			0.72	18.3	raining	W. F. Cooper.
Silloth Rectory	29.68	753.9	29.71	754.6	56.5	13.6	94	e.			1		10			0.135	3.4	raining	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.73	755.1	53.6	12.0	93	w.	2	0.9			10					overcast	J. New.
Strathfield Turgiss	29.55	750.6	29.76	755.9	59.0	15.0	87	s.			2		10					raining	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.72	754.9	29.73	755.1	65	18.3	68	nw.			6		5					d. clouds	W. Newcombe.
Valencia, Observatory	29.65	753.1	29.68	753.9	55.1	12.8	70	sw.	17	7.6			5			blank	blank	d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B													10 ks		nw.	0.024	0.6	cloudy	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.82	757.4	29.86	758.4	52	11.1	55	nw.	8	3.6			0	sw.		0.01	0.3	fair	H. J. Cundall, C. E.
Chatham, N. B*	29.79	756.7	29.85	758.2	55	12.8	69	sw.	9	4.0		5 ck	0		calm	0.05	1.3	clear	G. A. Blair.
Father Point, Quebec*	29.85	758.2	29.88	758.9	49	9.4	86	nw.	35	15.6		0	2 ks			0	0	clear	J. McWilliams.
Halifax, N. S*	29.82	757.4	29.94	760.5	62	16.7	50	nw.	12	5.4		0	0			0	0	clear	A. Allison.
Kingston, Ontario*	29.86	758.4	30.19	766.8	61	16.1	70	nw.	3	1.3		0	0			0	0	clear	A. P. Knight, M. A.
Montreal, Quebec*	29.93	760.2	30.13	765.3	63	17.2	42	nw.	6	2.7		0	0			0	0	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.52	749.8	30.21	767.3	59	15.0	78	s.	2	0.9		0	0			0	0	clear	Rev. R. Mosley.
Port Dover, Ontario	29.50	749.3	30.19	766.8	58	14.4	88	calm	0	0		0	0			0	0	clear	H. Morgan.
Port Stanley, Ontario	29.54	750.3	30.18	766.6	59	15.0	87	e.	3	1.3		0	0			0	0	clear	M. Payne.
Quebec, Quebec*	29.74	755.4	30.06	763.5	57	13.9	62	nw.			5	0	2 s		nw.	c	0	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.75	755.6	30.21	767.3	52	11.1	80	calm	0	0		0	0			0	0	clear	W. H. McIntyre.
Saugeen, Ontario*	29.49	749.0	30.19	766.8	59	15.0	75	se.	1	0.4		hz.	0			0	0	clear	
St. Andrews, N. B	29.93	760.2	29.98	761.5	59	15.0	58	nw.	3	1.3		0	0			0	0	clear	
Sydney, C. B*	29.76	755.9	29.82	757.4	58	14.4	62	sw.	13	5.8		0	2 k		sw.	0	0	fair	T. C. Hill, C. E
Toronto, Ontario*	29.85	758.2	30.23	767.8	63	17.2	60	calm	0	0		0	0			0	0	clear	Magnetic Observatory.
Yarmouth, N. S*	29.94	760.5	30.00	762.0	56	13.3	77	calm	0	0		0	0			0	0	clear	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.79	731.3	30.24	768.1	62.0	16.7	66	n.				0	0			0	0	clear	Wm. Wylie.
St. Johns, Newfoundland	29.90	759.4	30.15	765.8	58	14.4	82	sw.	2	0.9		0	0			0.24	6.1		John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.02	762.5	30.05	763.3	83.0	28.3	37	nw.	8.6	3.8		0	2 s			0	0	smoky	John Duthie.
Cape Town, C. G. H. Obs'y	30.02	762.5	30.06	763.5	63.9	17.7	78	wnw.	18	8.0		1	2			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Chinese (*Sub-series*).																			
Hankow																0.002	0.5		N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.53	750.0	29.55	750.6	78.8	26	93	se.	4.0	1.8		8 ck	0			0.004	0.1	al. covered	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.95	760.8	30.00	762.0	62.2	16.8	77	n.	11.0	5.0			10					raining	Oversergent Fischer.
Fanöe	29.98	761.6	30.00	762.1	71.1	21.7	61	ese.			4		3						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	30.06	763.4	30.10	764.5	39.9	4.4	80	ne.			8		10					raining	A. O. Thorlacius.
Thorshavn	29.87	758.8	29.91	759.7	52.7	11.5	87	calm			0		7						Overloerer Bergh.
Vestervig	29.94	760.5	30.03	762.8	68.0	20.0	70	ne.			2		1						Loearer Oesterbol.
French.																			
Agen, Normal School	29.30	744.2	29.93	760.3	70.9	21.6	67	wsw.			1		kn		w.	0	0		M. Labroue, Director.
Alençon, Normal School	29.33	745.0	29.88	759.0	68.0	20	78	sw.			3		kn			0	0		M. Nicot, Director.
Arras, Engineer School	29.65	753.2	29.90	759.5	72.0	22.2	58	sse.			3		kn		s.	0	0		M. Fénéon, Command't.
Avignon, Normal School	29.90	759.5	29.98	761.5	81.3	27.4	51	sw.			2					0	0		M. Giraud, Director.
Bar-sur-Seine	29.35	745.4	29.87	758.8	76.1	24.5	50	s.			1		8			0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.58	751.3	29.83	757.7	73.9	23.3	62	sse.			2		8		ssw.	0	0	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	28.98	736.1	29.93	760.2	75.2	24	57	s.			1	c	0	n.		0	0		M. Gobin, Director.
Bordeaux, Observatory	29.68	753.8	29.93	760.3	62.4	16.9	81	w.			1		10		wsw.	0.004	0.1	covered	M. Rayet, Director.
Bourges, Normal School	29.33	744.9	29.85	758.3	74.3	23.5	52	ssw.			1		kn		ssw.	0	0		M. Postel, Director.
Brest, Naval Observatory	29.59	751.6	29.84	757.8	64.0	17.8	70	w.			2		7		w.	1.260	32.0		M. de Kermaree, Dir.
Caen, Normal School	29.73	755.1	29.80	757.0	62.2	16.8	76	ssw.			1		8		ssw.	0	0	very cloudy.	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.00	751.8	29.51	759.6	74.1	23.4	47	s.			1		2	w.	wsw.	0	0	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.37	746.1	29.86	758.5	73.8	23.2	50	s.			1		5			0	0	½ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.53	724.7	29.80	757.0	81.5	27.5	40	nw.			1	2 c	8 k			0	0	covered	M. Alluard, Director.
Cluny, Normal School	29.08	738.6	29.89	759.3	78.8	26	42	se.			2		2		se	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.07	738.4	29.91	759.7	76.1	24.5	45	ese.			1		ckn	ese.	ese.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.54	699.6	29.96	761.0	78.3	25.7	70	w.			3	0	2 kn		w.	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.90	734.0	29.98	761.5	76.3	24.6	49	sw.			3		2		s.	0	0		M. Kina, Director.
Grenoble, Normal School	29.14	740.2	29.87	758.8	77.4	25.2	53	nnw.			1	0	2 k			0	0	slightly cl'y	M. Ablard, Director.
Guéret, Normal School	28.35	720.0	29.85	758.2	73.4	23	53	sw.			1		5		e.	0	0	cloudy	M. Rivoire, Director.
Lamballe, Normal School	29.49	749.1	29.77	756.1	59.9	15.5	92	s.			4		5		s.	0.059	1.5	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.43	747.6	29.99	761.7	65.1	18.4	67	w.			1		10			0	0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.72	754.9	29.82	757.5	62.6	17	80	wsw.			3		5	s.	nw.	0.039	1.0	⅛ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.88	733.5	29.89	759.2	79.3	26.3	44	s.			2	1 c	0	w.		0	0	clear	M. André, Director.
Mans, Normal School	29.55	750.6	29.85	758.3	63.7	17.6	80	sw.			1		5		s.	0.012	0.3	cloudy	M. Piboen, Director.
Marseille, Observatory	29.75	755.7	30.02	762.4	73.8	23.2	36	s.			2–3		4		w.	0	c		M. Stephan, Director.
Montlouis	24.84	631.0	29.69	754.0	63.5	17.5	65	e.	7.4	3.3			7	e.		0.720	18.3		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.84	758.0	29.97	761.1	73.8	23.2	73	s.			3		5		e.	0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	29.15	740.4	29.91	759.6	76.3	24.6	49	ne.			1		k			0	0		M. Hasse, Director
Nantes, Observatory	29.73	755.1	29.89	759.2	61.7	16.5	84	ssw.			1–2		1c		ssw.			rainy	M. Larocque, Director.
Perpignan, Observatory	29.84	757.8	29.94	760.5	72.3	22.4	71	se.	7.4	3.3			7	nw.	ene.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.33	541.8			51.3	10.7		sw.			1		10	ne.	sw.	0	0	stormy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.91	734.3	29.92	759.9	80.4	26.9	33	s.			1					0	0		M. Tallieu.
Puy de Dôme Obs'y, Summit	25.16	639.1			56.8	13.8	58	sw.			2		8		wsw.	0.004	0.1	¾ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	29.89	759.2	29.92	760.0	62.4	16.9	80	wsw.			2		10		sw.	1.26	32.		Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.67	753.5	29.88	758.9	61.5	16.4	81	sw.			2		5		sw.	0	0	cloudy	M. Mouliot, Director.
Rodez, Normal School	28.06	712.6	30.10	764.6	77.0	25.0	42	se.			1	ck	0	nw.		0	0		M. Seger, Director.
Rouen, Normal School	29.78	756.4	29.83	757.6	68.0	20	65	e.			1		8	sw.		0	0	very cloudy	M. Brotier.
Saint Maur, Observatory	29.69	754.2	29.86	758.4	73.4	23.0	50	s.			1		10	sw.	s.	0	0		M. Renou, Director.
Toulouse, Observatory	29.23	742.5	29.96	760.9	83.8	28.8	46	se.			1		1	w.		0	0	clear	M. Baillard, Director.
Tours	29.69	754.0	29.86	758.4	68.4	20.2	74	sw.			1		8		sw.	0	c	stormy	M. de Tastes.
Versailles, Observatory	29.35	745.6	29.85	758.2	74.1	23.4	47	s.			3					0.012	0.3		Dr. A. Bergny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.73	755.1	30.02	762.5	76.1	24.5	51	sse.			1		10		ssw.	inap.	inap.		M. Marié Davy, Director
German.																			
Bamberg	29.16	740.7	30.02	762.4	72.0	22.2	55	sw.			1	0	3 k		w.	0	0		Prof. Dr. Hoh.
Berlin	29.87	758.6	30.04	763.0	72.0	22.2	41	n.			2		5			0	0		Prof. Dr. Arndt.
Breslau	29.47	748.4	30.00	761.9	66.0	18.9	58	wnw.			2		7			0.106	2.7		Royal University Obs'y.
Carlsruhe	29.51	749.5	29.93	760.2	73.8	23.2	54	se.			1		4	sw.		0	0		Albert Senz.
Cassel	29.24	742.7	29.95	760.8	79.2	26.2	43	se.			1		4	sw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.56	750.9	29.92	759.9	73.2	22.9	46	s.			1		5			0	0		Physical Society.
Friedrichshafen	28.54	724.9	29.93	760.2	67.6	19.8	75	ssw.			2		4	w.		0	0		Wilhelm, Chief Tel.
Hamburg	29.91	759.6	30.00	762.0	70.5	21.4	56	ese.			2		0			0	0		E. Preller.
Kiel	29.97	761.3	29.99	761.7	64.4	18.0	64	ne.			2		10			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.56	750.8	29.97	761.2	69.4	20.8	54	se.			1		7			0	0		H. Leppig, Asst.
Magdeburg	29.76	756.0	29.95	760.7	72.5	22.5	48	nnw.			1	0	5 k; ks		n.	0	0		Dr. Assmann.
Memel	29.90	759.5	29.95	760.7	67.6	19.8	78	e.			2		10 ks						Issermann.
Munich	28.17	715.6	30.04	762.9	67.8	19.9	44	calm			0		4	sw.		0.114	2.9		Central Station.
Neufahrwasser	29.90	759.4	29.91	759.8	67.6	19.8	66	nnw.			1		10			0.043	1.1		A. Lothes.
Neustadt, Palatinate	29.45	747.9	29.97	761.3	76.3	24.6	60	w.			2		6	w.		0	0		Dicknether.
Stuttgart	29.00	736.7	29.86	758.5	72.5	22.5	53	se.			1		5	w.		0	0		Prof. Dr. Schoder.
Wustrow	30.02	762.5	30.04	763.1	57.2	14.0	84	ne.			1		10			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.63	752.7			81.5	27.5		sw.			1.5		0			0	0	clear	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.51	749.5	29.56	750.7	88.6	31.4	78	wsw.	34.0	15.2			6		w.	0	0	misty	
Deesa	29.05	737.8	29.50	749.4	96.1	35.6	42	sw.	24.0	10.7			8	sw.	sw.	0	0	d. clouds	
Bombay	29.71	754.5	29.74	755.5	82.5	28.1	86	wsw.	15.0	6.7			9	sw.	w.	0.17	4.3	d. clouds	
Poona, Yarrowda	27.88	708.2	29.71	754.7	83.7	28.7	45	wsw.	23.0	10.3			4	wnw.	wnw.	0	0	d. clouds	
Trichinopoly	29.48	748.9	29.76	755.8	93.1	33.9	39	s.	2.0	0.9			5			0	0	d. clouds	
Bellary	28.25	717.5	29.67	753.6	95.5	35.3	29	w.	10.4	4.6			3			0	0	d. clouds	
Belgaum	27.27	692.8	29.83	757.8	70.8	21.6	68	wsw.	11.0	4.9			9	sw.	sw.	0.07	1.8	drizzling	
Lahore	28.58	725.8	29.27	743.5	105.3	40.7	20	sw.	2.3	1.0			0			0	0	misty	
Roorkee	28.50	723.8	29.35	745.5	96.7	35.9	42	w.	1.6	0.7			0			0	0	misty	
Agra	28.91	734.2	29.44	747.8	102.1	38.9	29	s.	11.4	5.1			0			0	0	blue sky	
Nagpur	28.57	725.7	29.58	751.2	95.9	35.5	32	w.	6.5	2.9			0	w		0	0	d. clouds	
Jubbulpore	28.28	718.2	29.60	751.8	89.6	32.0	58	calm	5.4	2.4			1			0	0	blue sky	
Lucknow	29.05	737.8	29.41	747.0	95.0	35.0	41	wsw.	8.3	3.7			0			0	0	blue sky	
Allahabad	29.20	741.7	29.50	749.4	92.0	33.3	56	wnw.	6.7	3.0			0			0	0	blue sky	
Patna	29.31	744.4	29.49	748.9	92.2	33.4	62	wnw.	3.7	1.6			4	wnw.	wnw.	0	0	d. clouds	
Hazaribagh	27.56	699.9	29.51	749.5	88.3	31.3	51	wnw.	11.5	5.1			7			0	0		
Cuttack	29.48	748.9	29.56	750.9	93.2	34	63	sw.	2.2	1.0			0			0	0	d. clouds	
Calcutta, Alipore	29.50	749.4	29.52	749.9	85.0	29.4	87	sw.	5.0	2.2			10			0.05	1.3	overcast	
Dhubri	29.40	746.9	29.52	749.8	76.1	24.5	93	ene.	7.7	3.4			10			2.43	61.7	raining	
Chittagong	29.53	750.0	29.62	752.3	78.9	26.1	90	s.	9.0	4.0			10			0	0	overcast	
Sibsagar	29.19	741.4	29.52	749.8	81.8	27.7	84	ne.	5.0	2.2			10	w.	w.	0.23	5.8	d. clouds	
Jeypore	28.09	713.6	29.47	748.6	98.2	36.8	31	w.	12.3	5.5			3		w.	0	0	d. clouds	
Zanzibar, Africa	30.06	763.5			82.7	28.2	51	s.	9.5	4.2			3			0	0	d. clouds	
Italian.																			
Udine	29.61	752.1	30.00	762.1	73.4	23.0	61	n.	1.8	0.8			8			0	0		Prof. Giovanni Clodig.
Milan	29.50	749.3	30.00	761.9	78.1	25.6	40	se.	2.0	1.9			6	wsw.		0	0		Prof. Schiaparelli.
Padua	29.89	759.2	30.00	761.9	74.5	23.6	33	ese.	8.7	3.9			2	wnw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.09	738.9	29.96	761.0	73.4	23.0	42	e.	4.9	2.2			3	e.		0	0		Prof. P. F. Denza.
Genoa	29.85	758.3	30.04	763.0	70.2	21.2	62	sw.	5.6	2.5			2	sw.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.10	713.8	29.94	760.4	75.6	24.2	47	sw.			4		2	ssw.		0	0		Prof. D. O. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Pesaro	29.89	759.3	29.94	760.5	73.8	23.2	56	e.	3.8	1.7	.....	.....	0	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.75	755.6	30.00	761.9	78.4	25.8	41	nw.	.....	.....	2	.....	5	sw.	.....	0	0	.....	Prof. Costantino Pitter.
Leghorn	29.89	759.1	29.97	761.2	73.4	23.0	61	wsw.	0.7	0.3	.....	.....	5	.....	.....	0	0	.....	Prof. P. Monte.
Rome	29.85	758.2	30.02	762.5	80.8	27.1	41	wsw.	9.8	4.4	.....	.....	2	.....	.....	0	0	.....	Prof. P. S. Ferrari.
Lecce	29.77	756.1	30.01	762.3	81.1	27.3	36	ne.	10.5	4.7	.....	.....	2	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.15	740.4	30.00	762.1	79.9	26.6	72	ssw.	3.8	1.7	.....	.....	5	s.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.80	756.8	29.98	761.6	73.8	23.2	66	se.	.....	.....	6	.....	1	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.80	757.0	30.05	763.2	73.9	23.3	64	e.	7.4	3.3	.....	.....	2	wsw.	.....	0	0	.....	Prof. G. Ciacciatore.
Syracuse	29.97	761.3	30.02	762.4	80.1	26.7	58	s.	3.1	1.4	.....	.....	4	sw.	.....	0	0	.....	Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.50	749.3	30.01	762.2	77.5	25.3	66	sw.	8.7	3.9	.....	.....	2	ne.	.....	0	0	.....	Prof. T. Brioschi.
Stelvio	22.25	565.2	.....	.....	48.7	9.3	61	w.	.....	.....	6	.....	8	.....	.....	0	0	misty	Prof. P. F. Denza.
Valdobbia	22.30	566.5	.....	.....	43.2	6.2	77	e.	.....	.....	2	.....	10	.....	.....	0	0	covered	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.49	749.0	29.52	749.8	65.0	18.3	91	nw.	9.2	4.1	.....	.....	10 s	.....	.....	0.700	17.8	overcast	K. Ogawa.
Hakodate	29.47	748.5	29.48	748.8	64.0	17.8	91	wsw.	6.0	2.7	.....	.....	7	.....	w.	0	0	cloudy	
Hiroshima, I. M. Obs'y	29.54	750.3	29.56	750.8	75.5	24.2	90	w.	0.8	0.4	.....	ck	10 s	.....	.....	0.380	9.6	covered	I. Sogawa.
Kanazawa	29.79	756.6	29.89	759.2	68.5	20.3	96	nnw.	2.7	1.2	.....	ck	10 ks	.....	.....	0.055	1.4	overcast	S. Endo.
Kioto	29.42	747.2	29.59	751.6	72.6	22.6	95	e.	2.0	0.9	.....	.....	10 s	.....	.....	0.071	1.8	cloudy	M. Tojima.
Kochi	29.60	751.8	29.02	752.3	72.9	22.7	91	s.	4.0	1.8	.....	.....	10 s	.....	nw.	0.328	8.3	overcast	K. Kusunose.
Nagasaki, I. M. Obs'y	29.45	748.0	29.65	753.1	71.8	22.1	99	sw.	5.0	2.2	.....	.....	10	.....	.....	0.750	19.0	dense fog	S. Takehayashi.
Nemuro	29.50	749.3	29.56	750.8	53.0	11.7	100	se.	14.4	6.6	.....	10	0	.....	.....	.....	.....	rainy	
Niigata	29.56	750.8	29.59	751.6	68.5	20.3	90	wsw.	19.4	8.7	.....	.....	10 n	.....	wsw.	0.060	1.5	light rain	M. Morita.
Nobiru	29.49	749.0	29.51	749.5	68.6	20.3	96	n.	2.9	1.3	.....	.....	10 sn	.....	.....	0.005	0.1	light rain	H. Midzushina.
Supporo	.....	.....	.....	.....	57.3	14.1	98	n.	9.0	4.0	.....	.....	10	.....	.....	0.030	0.8	covered	
Tokei Obs'y, Yeddo	29.47	748.5	29.53	750.0	72.2	22.3	93	calm	0	0	.....	10 cs	0	.....	.....	0.024	0.6	cloudy	The Staff.
Wakayama	29.55	750.6	29.60	751.8	73.1	22.8	93	wsw.	1.4	0.6	.....	ck	10 s	.....	w.	0.091	2.3	cloudy	Y. Kuwamuea.
MAURITIUS																			
Mauritius Observatory	29.97	761.2	30.16	766.1	72.5	22.5	73	se.	19.5	8.7	.....	2ck;cs	6 ks;n	.....	se.	0.25	6.3	cloudy	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.69	601.8	29.91	759.8	60.3	15.7	82	ene.	6.3	2.8	.....	4 c	6 cn	e.	e.	0	0	cloudy	Prof. Vicente Fernandez.
Leon	24.33	618.0	29.91	759.7	65.8	18.8	80	ne.	.....	.....	1	4 c	4 k	ne.	ne.	0	0	very cloudy	Prof. M. Leal.
Mazatlan	29.60	751.8	29.85	758.3	79.5	26.4	89	e.	0.9	0.4	.....	2 cs	0	.....	.....	0	0	light haze	F. Quijano, C. E.
Mexico, Central Obs'y	23.11	587.1	30.12	765.1	56.5	13.6	86	w.	0.7	0.3	.....	.....	10 kn	.....	.....	0	0	covered	The Staff.
Morelia	24.19	614.5	30.26	768.5	59.9	15.5	66	se.	.....	.....	2	2	4	s.	s.	0.276	7.0	½ clouded	M. Tena, M. D.
Pabellon, Aguascallentes	24.01	609.7	30.00	761.9	65.8	18.8	80	se.	.....	.....	2	.....	.....	.....	.....	0	0		M. V. de Leon, M. E.
Puebla, Catholic Institute	23.43	595.0	30.10	764.5	57.2	14.0	82	calm	0	0	.....	0	3	.....	sse.	0.035	0.9		Prof. P. Spina.
San Luis Potosi	24.26	616.3	30.20	767.0	61.0	16.1	73	e.	.....	.....	.....	.....	10	.....	e.	0	0	covered	G. Barroeta, M. D.
Zacatecas	22.62	574.6	30.24	768.0	53.6	12.0	93	ene.	12.3	5.5	.....	.....	10	.....	.....	inap.	inap.	gloomy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.88	758.9	29.88	758.9	73.4	23.0	.....	sse.	.....	.....	2	.....	.....	.....	.....	0	0		
Groningen	29.89	759.1	29.94	760.5	73.2	22.9	.....	s.	.....	.....	3	.....	.....	.....	.....	0	0		
Helder	29.89	759.2	29.89	759.2	69.4	20.8	.....	ese.	.....	.....	2	.....	.....	.....	.....	0.736	18.7		
Hellevoetsluis	29.88	758.9	29.88	758.9	77.2	25.1	58	sse.	.....	.....	1	.....	.....	.....	.....	0	0		
Utrecht	29.86	758.4	29.91	759.6	73.2	22.9	58	se.	.....	.....	2	.....	5	.....	.....	0	0	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.99	761.8	30.06	763.4	70.5	21.4	53	sse.	13	6	.....	.....	6	.....	.....	0	0		
Brono	30.20	767.0	30.24	768.0	73.4	23.0	30	e.	9	4	.....	.....	0	.....	.....	0	0		
Christiania	29.99	761.7	30.13	765.3	73.2	22.9	45	e.	7	3	.....	.....	8	.....	.....	0.047	1.2		
Gjesvær	30.32	770.1	30.34	770.7	65.5	18.6	.....	calm	.....	.....	0	.....	0	.....	.....	.....	.....		
Lodingen	30.27	768.8	30.32	770.0	63.9	17.7	56	s.	.....	.....	2	.....	0	.....	.....	0	0		
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	69.8	21.0	72	wnw.	13.0	5.8	.....	.....	4	.....	.....	0	0		
Campo Major	29.04	737.5	30.00	762.0	77.0	25.0	30	w.	5.6	2.5	.....	.....	0	.....	.....	0	0		Dr. J. A. Sampaio.
Funchal, Maderia	30.13	765.3	30.22	767.5	69.1	20.6	62	sw.	3.8	1.7	.....	.....	7	.....	.....	0	0		Dr. A. M. R. dos Santos.
Lisbon, Observatory	29.74	755.4	30.09	764.3	69.1	20.6	49	wnw.	11.2	5.0	.....	.....	0	.....	.....	0	0		Capt. D. A. de Cunha.
Ponta Delgada, Azores	30.27	768.9	30.34	770.7	71.2	21.8	69	wnw.	8.7	3.9	.....	.....	3	.....	.....	0	0		The Staff.
Saint Paul de Loando	29.82	757.5	30.03	762.7	74.5	23.6	94	wsw.	0.7	0.3	.....	.....	6	s.	.....	0	0		
Serra da Estrella	25.33	643.3	29.93	760.1	61.3	16.3	35	w.	6.3	2.8	.....	.....	0	.....	.....	0	0		
RUSSIAN.																			
Akmolinski	28.65	727.7	29.65	753.1	85.6	29.8	26	sw.	11	5	.....	2 ck	0	.....	.....	0	0		
Archangel	30.44	773.1	30.46	773.6	59.9	15.5	61	w.	13	6	.....	2 cs	0	.....	.....	0	0		Major K. Lasarew.
Astrakhan	30.00	761.9	29.91	759.8	86.4	30.2	30	w.	11	5	.....	0	4 k	.....	.....	0	0		Capt. Sselilwerstow.
Barnaul	29.34	745.2	29.82	757.5	63.0	17.2	63	calm	0	0	.....	.....	10	.....	.....	0	0		Capt. Wisganow.
Dorpat	29.87	758.6	30.10	764.6	68.2	20.1	59	e.	13	6	.....	10 ck	0	.....	.....	0.024	0.6		Meteorological Obs'y.
Ekaterinburg	28.94	735.0	29.88	758.9	60.3	15.7	74	calm	0	0	.....	.....	10	.....	.....	0.026	0.7		Observatory.
Irkutsk	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....		Meteorological Obs'y.
Kasan	29.66	753.3	29.92	760.0	58.6	14.8	87	ne.	4	2	.....	.....	10 n	.....	.....	0.551	14.0	raining	Observatory.
Kertch	29.96	760.9	29.98	761.4	77.9	25.5	55	ssw.	13	6	.....	0	4 k	.....	.....	0.197	5.0		Lagorio & Sastyrex.
Kieff	29.18	741.2	29.79	756.7	68.7	20.4	64	w.	13	6	.....	.....	10	.....	.....	0	0		Observatory.
Lugan	29.59	751.5	29.78	756.5	77.5	25.3	48	wsw.	22	10	.....	.....	6	.....	.....	0	0		Meteorological Obs'y
Moscow	29.41	747.1	29.87	758.8	62.1	16.7	78	e.	10.1	4.5	.....	.....	9 ks	.....	.....	.....	.....	light rain	Meteorological Obs'y.
Nikolaiev	29.89	759.1	29.90	760.9	83.7	28.7	33	sw.	9	4	.....	0	0	.....	.....	0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.83	757.7	29.92	759.9	50.9	10.5	79	n.	4	2	.....	.....	0	.....	.....	0	0		Lieut. Iwanow.
Pekin, China	29.45	748.1	29.60	751.7	74.8	23.8	87	calm	0	0	.....	0	3 ks	.....	.....	blank	blank		Physical Observatory
St. Petersburg	30.22	767.6	30.24	768.0	70.5	21.4	33	ene.	18	8	.....	1 c	0	.....	.....	0	0	light clouds	Central Physical Obs'y
Semipalatinsk	29.20	741.7	29.81	757.2	83.1	28.4	34	nw.	7	3	.....	0	4	.....	.....	0	0		Major Lasarew.
Tashkend, Laboratory	28.21	716.4	29.66	753.4	88.7	31.5	48	calm	0	0	.....	.....	0	.....	.....	.....	.....		Teich, A. M.
Tiflis	28.61	726.7	29.95	760.7	86.5	30.3	37	e.	2	1	.....	0	3 k	.....	.....	0	0		Physical Observatory
Vladivostock	29.60	751.7	.....	.....	59.0	15.0	100	se.	13	6	.....	.....	10 n	.....	.....	.....	.....		
Warsaw	29.50	749.4	29.91	759.8	67.5	19.7	62	nnw.	4	2	.....	cs	10 k	.....	.....	.....	.....		Astronomical Obs'y
Wilna	29.45	748.0	29.85	758.3	68.7	20.4	86	nne.	4	2	.....	.....	10	.....	.....	0.126	3.2	heavy cl'ds.	Berg, Assistant.
SPANISH.																			
Barcelona, Met. Obs'y	29.78	756.4	29.88	759.0	75.2	24.	68	sw.	4.5	2.0	.....	.....	2	.....	.....	0	0	clouds	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.94	760.4	30.00	761.9	72.1	22.3	62	w.	2.5	1.1	.....	.....	10	.....	.....	0.016	0.4	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.03	686.6	29.86	758.5	75.4	24.1	38	se.	6.3	2.8	.....	.....	0	.....	.....	0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.75	704.8	29.87	758.6	80.6	27.0	31	sw.	16.8	7.5	.....	0	1	.....	.....	0.020	0.5	clouds	The Staff.
Murcia, Met. Obs'y	29.79	756.6	29.93	760.3	88.0	31.1	48	ese.	4.3	1.9	.....	0	4	.....	.....	0	0	clouds	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.07	738.4	29.97	761.2	57.9	14.4	93	sw.	11.2	5.0	.....	.....	10	.....	.....	0.047	1.2	light rain	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	30.05	763.2	30.11	764.9	80.3	26.8	80	calm	0	0	.....	1 c	0	ne.	.....	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.83	757.7	29.89	759.1	84.7	29.3	71	ssw.	5.3	2.4	.....	0	8 ck	.....	e.	0	0	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.96	760.9	30.06	763.4	74.5	23.6	67	s.	8.0	3.6	.....	0	5	.....	sw.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.03	762.8	30.12	765.1	82.4	28.0	77	e.	10.7	4.8	.....	1 s	2 k	e.	e.	0	0	clear	Manuel Maese.
Tuguegarao, Philippine Id's	29.78	756.4	29.91	759.7	77.8	25.4	84	se.	3.0	1.3	.....	.....	10 n	.....	se.	0.29	7.4	covered	José L. Yrastorza.
SWEDISH																			
Haparanda	30.38	771.6	30.42	772.6	70.5	21.4	39	s.	.....	.....	2	.....	2	.....	.....	0	0		
Umea	30.33	770.4	30.38	771.7	74.5	23.6	36	se.	.....	.....	2	.....	2	.....	.....	0	0		
Hernosand	30.29	769.3	30.34	770.6	64.8	18.2	54	ne.	.....	.....	0	.....	5	.....	.....	0	0		
Stockholm	29.98	761.4	30.15	765.9	65.1	18.4	45	ene.	.....	.....	8	.....	10	.....	.....	0	0		
Wisby	29.96	761.0	30.02	762.5	65.8	18.8	59	e.	.....	.....	6	.....	10	.....	.....	0.028	0.7		
Sub-series.																			
Upsala	30.08	763.9	30.16	766.1	69.3	20.7	78	ene.	13.4	6.0	.....	.....	9	.....	ese.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.54	725.0	29.91	759.8	72.9	22.7	56	n.	.....	.....	2	.....	.....	.....	.....	0	0	clear	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
SCOTTISH.																			
Monach Lt			29.70	754.4	58	14.4	93	sse.			0.4		10			0	0		J. Youngclause.
North Unst			29.92	760.0				se.			6		10			blank	blank		
TURKISH.																			
Constantinople			30.03	762.7	79.2	26.2	35	ne.	9	4.0			1		ne.	0	0		The Observatory.
Valona			30.14	765.6	79.3	26.3		sw.			2		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.93	760.2	79.0	26.1	68	n.			2	0	0			0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.11	764.8	30.19	766.8	64	17.8	63	s.	3	1.3		0	0			0	0	clear	J. O. Barnes.
Alpena, Michigan	29.52	749.8	30.17	766.3	58	14.4	80	se.	6	2.7		0	0			0	0	clear	Jas. J. Fitzgerald.
Atlanta, Georgia	29.01	736.8	30.16	766.1	72.0	22.2	90	nw.	6	2.7		8 k	2 s			0	0	cloudy	H. Hall.
Atlantic City, New Jersey	30.18	766.6	30.19	766.8	69	20.6	63	ne.	4	1.8		0	0			0	0	clear	Jas. M. Watson.
Augusta, Georgia	29.98	761.5	30.17	766.3	77	25.0	85	sw.	2	0.9		8 k	0	nw.		0	0	cloudy	John Healy.
Baltimore, Maryland	30.17	766.3	30.22	767.6	70	21.1	76	se.	4	1.8		7 ck	0	w.		0	0	fair	Robert Seyboth.
Barnegat, New Jersey	30.18	766.6	30.20	767.1	68.3	20.2	56	n.	8	3.6		0	0			0	0	clear	Chas. F. Merritt.
Behring Island, Behring Sea	29.88	758.9	29.90	759.4	42.0	5.6		ne.	10	4.5			fg.			0.18	4.6	dense fog	Dr. L. Stejneger.
Bismarck, Dakota	28.20	716.3	29.95	760.7	54	12.2	86	s.	4	1.8		0	0			0.08	2.0	clear	Cyrus Cramer.
Boise City, Idaho	27.06	687.3	29.84	757.9	47	8.3	71	nw.	2	0.9		0	2 s		calm	0	0	clear	B. E. Light.
Boston, Massachusetts	29.98	761.5	30.13	765.3	63.0	17.2	59	w.	6	2.7		2 c	0	w.		0	0	clear	O. B. Cole.
Brownsville, Texas	30.03	762.7	30.07	763.8	77.4	25.2	97	calm	0	0		3 cs	2 ks	calm	se.	0.04	1.0	fair	M. McCarty.
Buffalo, New York	29.47	748.5	30.21	767.3	61.2	16.2	60	e.	4	1.8		0	hz.			0	0	clear	Wm. Flinn.
Burlington, Vermont	29.87	758.7	30.16	766.1	64.0	17.8	65	s.	3	1.3		0	0			0	0	clear	G. C. Schaeffer.
Cairo, Illinois	29.77	756.1	30.16	766.1	74.8	23.8	86	calm	0	0		1 ck	0	w.		0.70	17.8	clear.	W. H. Ray.
Campo, California	27.35	694.7	29.83	757.7	37.5	3.1	72	s.	3	1.3		0	0			0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.18	690.4	29.81	757.2	57.5	14.2	61	se.			1	0	0			0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.19	766.8	30.21	767.3	70	21.1	76	s.	12	5.4		2 k	0	sw.		0	0	clear	A. K. Alderson.
Cape May, New Jersey																			W. Bolton.
Cedar Keys, Florida	30.13	765.3	30.15	765.8	83	28.3	74	w.	3	1.3		4 ck	2 s			0	0	fair	F. W. Mixer.
Champaign, Illinois	29.30	744.2	30.08	764.0	72.5	22.5	78	sw.	7	3.1		0	3 ks		sw.	0	0	clear	L. A. Welsh.
Charleston, S. Carolina	30.09	764.3	30.14	765.5	78	25.5	88	n.	6	2.7		7 ck	3 s	nw.	n.	0.20	5.1	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.28	743.7	30.11	764.8	78.0	25.6	69	s.	4	1.8		0	hz.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.37	746.0	30.18	766.6	74.0	23.3	84	ne.	2	0.9		9 ck	fg.	n.		0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.18	614.2	29.92	760.0	49.2	9.6	61	nw.	6	2.7			10 k		sw.	0.10	2.5	cloudy	E. McGovern.
Chicago, Illinois	29.39	746.5	30.08	764.0	65.0	18.3	90	ne.	3	1.3		3 c	0			0	0	clear	J. Mitchell.
Chincoteague, Virginia	30.18	766.6	30.20	767.1	71	21.7	84	s.	4	1.8		0	0			0	0	clear	V. P. Temple.
Cincinnati, Ohio	29.48	748.8	30.13	765.3	72.7	22.6	88	e.	3	1.3		0	0			0.08	2.0	clear	R. B. Watkins.
Cleveland, Ohio	29.44	747.8	30.17	766.3	69	20.6	51	s.	9	4.0		3 c	0			0	0	clear	J. B. Newlin.
Coleman City, Texas	28.28	718.3	30.03	762.7	71	21.7	84	s.	12	5.4		0	6 s		s.	0	0	fair	L. Dorman.
Columbus, Ohio	29.30	744.2	30.14	765.5	70	21.1	76	s.	4	1.8		5 k	0	w.		0.02	0.5	fair	D. Cuthbertson.
Concho, Texas	28.13	714.5	30.00	762.0	72	22.2	84	s.	12	5.4		0	0			0	0	clear	W. W. McConihe.
Davenport, Iowa	29.41	747.0	30.05	763.3	70	21.1	94	e.	4	1.8			fg.		calm	0.01	0.3	dense fog	R. R. Martin.
Dayton, Washington T'y	28.31	719.1	30.05	763.3	43	6.1	89	calm	0	0		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.46	646.7	29.89	759.2	45.5	7.5	86	sw.	4	1.8		0	0			inap.	inap.	clear	G. W. Scott.
Decatur, Texas					85	29.4	48	sw.	8	3.6		0	4 ks		sw.	0	0	fair	D. J. Carr.
Delaware Breakwater, Del.	30.19	766.8	30.21	767.3	67	19.4	90	n.	2	0.9		0	hz.			0	0	clear	F. C. Pratz.
Denison, Texas	29.31	744.5	30.09	764.3	76.3	24.6	76	s.	6	2.7		0	0			0	0	clear	J. McGlone.
Denver, Colorado	24.87	631.7	29.91	759.7	61.5	16.4	53	ne.	2	0.9		0	2 s		calm	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.10	739.1	29.98	761.5	72	22.2	84	s.	3	1.3			10 s		s.	inap.	inap.	cloudy	F. W. Conrad.
Detroit, Michigan	29.47	748.5	30.16	766.1	64.4	18.0	63	e.	7	3.1		3 ck	0	w.		0	0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.35	694.7	29.86	758.4	75	23.9	69	s.	13	5.8		1 ck	0	s.		0.10	2.5	clear	E. A. Thomas.
Dubuque, Iowa	29.32	744.7	30.01	762.2	66.8	19.3	93	se.	5	2.2			10 s			0.01	0.3	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.35	745.5	30.04	763.0	49	9.4	93	se.	6	2.7			10 n		se.	0.31	7.9	thund'r st'm	N. B. Conger.
Eagle Pass, Texas	29.27	743.4	30.06	763.5	78.0	25.6	76	se.	7	3.1		0	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.32	643.1	29.91	759.7	38	3.3	72	calm	0	0		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.92	760.0	29.99	761.7	63.0	17.2	54	w.	4	1.8		0	0			0	0	clear	D. O. Murphy.
El Paso, Texas	26.24	666.5	29.83	757.7	68	20.0	61	ne.	3	1.3		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.48	748.8	30.20	767.1	63	17.2	52	calm	0	0		0	0			0	0	clear	Peter Wood.
Escanaba, Michigan	29.46	748.3	30.11	764.8	60	15.6	81	calm	0	0		4 c	3 s	sw.		0	0	fair	C. Dill.
Fort Apache, Arizona	25.03	635.8	29.78	756.4	48	8.9	68	ne.	4	1.8		0	0			0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.14	689.3	29.93	760.2	47	8.3	66	sw.	11	4.9		0	0			0	0	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.43	722.1	29.97	761.2	55	12.8	93	nw.	2	0.9		2 ck	2 s	nw.	nw.	0.02	0.5	fair	A. Pritchard.
Fort Benton, Montana	27.18	690.4	29.95	760.7	50	10.0	74	w.	4	1.8		1 c	0			0	0	clear	G. W. Davis.
Fort Buford, Dakota	28.00	711.2	29.96	761.0	49	9.4	66	s.	3	1.3		0	0			0	0	clear	A. H. Bell.
Fort Custer, Montana	26.88	682.7	29.94	760.5	47	8.3	93	nw.	3	1.3		0	0			0	0	clear	V. Verge.
Fort Davis, Texas	25.20	640.1	29.81	757.2	69	20.6	55	s.	3	1.3		0	0			0	0	clear	J. Williams.
Fort Elliott, Texas	27.24	691.9	29.90	759.4	70	21.1	71	se.	12	5.4		7 c	0	se.		0	0	fair	W. J. Cundall.
Fort Grant, Arizona	25.22	640.6	29.76	755.9	63.4	17.4	23	n.	4	1.8		0	0			0	0	clear	Robert C. Lord.
Fort Keogh, Montana	27.51	698.7	29.94	760.5	45	7.2	86	s.	1	0.4		0	0			0	0	clear	W. B. Stockman.
Fort Macon, North Carolina	30.16	766.1	30.17	766.3	74	23.3	97	se.	14	6.3			10 ks		se.	0.27	6.9	cloudy	W. W. Thomas.
Fort McKavett, Texas	27.85	707.4	30.05	763.3	72	22.2	40	sw.	7	3.1		3 c	0			0	0	fair	J. E. Thatcher.
Fort Missoula, Montana	26.77	679.9	30.02	762.5	39	3.9	92	sw.	1	0.4		0	0			inap.	inap.	clear	J. H. Jones.
Fort St. Michaels, Alaska	29.95	760.7	29.98	761.5	57	13.9	87	ne.	6	2.7		0	8 ks			0	0	fair	A. P. Leavitt.
Fort Shaw, Montana	26.35	669.3	29.92	760.0	48	8.9	66	w.	14	6.3		1 c	0	w.		0	0	clear	A. L. Mathews.
Fort Sill, Indian Territory	28.82	732.0	30.02	762.5	74	23.3	85	s.	8	3.6		6 ck	0	sw.		0	0	fair	T. Cleary.
Fort Smith, Arkansas	29.64	752.8	30.10	764.5	77.5	25.3	88	se.	4	1.8		0	0			0	0	clear	J. B. Campbell.
Fort Stevenson, Dakota	28.14	714.7	29.94	760.5	54	12.2	93	sw.	4	1.8		0	0			0.05	1.3	clear	W. Burrows
Fort Verde, Arizona					58.3	14.6	56	sw.			1	0	0			0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.56	623.8	29.94	760.5	33.8	1.0	74	sw.	3	1.3		0	0			0	0	clear	T. M. Ambler.
Fredericksburg, Texas	28.35	720.1	30.03	762.7	73	22.8	84	sw.	6	2.7		6 k	0	sw.		0	0	fair	H. S. Miles.
Galveston, Texas	30.08	764.0	30.13	765.3	81	27.2	85	s.	12	5.4		3 c	hz.	sw.		0.02	0.5	clear	E. O'C. MacInerney.
Grand Haven, Michigan	29.46	748.3	30.11	764.8	66.0	18.9	73	e.	6	2.7		7 k	0	s.		0	0	fair	W. A. Reid.
Hatteras, North Carolina	30.18	766.6	30.20	767.1	74	23.3	82	se.	11	4.9		6 k	0	ne.		0.04	1.0	fair	R. M. Crawford.
Helena, Montana	25.83	656.1	29.95	760.7	43	6.1	76	sw.	4	1.8		0	0			0.01	0.3	clear	S. Wheaton.
Henrietta, Texas	29.08	738.6	30.06	763.5	78.0	25.6	74	s.	12	5.4		0	0			0	0	clear	J. W. Byram
Huron, Dakota	28.58	725.9	29.92	760.0	58.9	14.9	100	nw.	10	4.5			10 s		nw.	2.14	54.4	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.32	744.7	30.10	764.5	74.5	23.6	77	se.	2	0.9		0	hz.		calm	0.72	18.3	clear	O. Schutze
Indianola, Texas	30.07	763.8	30.10	764.5	80.4	26.9	88	se.	10	4.5		0	0			0	0	clear	I. A. Reed.
Jacksboro, Texas	28.91	734.3	30.03	762.7	74	23.3	82	s.	8	3.6		0	0			0	0	clear	J. P. Sherry.
Jacksonville, Florida	30.12	765.0	30.16	766.1	79	26.1	77	w.	1	0.4		6 cs	0	w.		0	0	fair	J. W. Smith.
Keokuk, Iowa	29.38	746.2	30.02	762.5	74.0	23.3	79	se.	2	0.9		0	0			0	0	clear	F. Z. Gosewisch
Key West, Florida	30.08	764.0	30.10	764.5	83.0	28.3	73	e.	6	2.7		0	4 ks		e.	0	0	fair	R. H. Paxton.
Kittyhawk, North Carolina	30.20	767.1	30.22	767.6	71	21.7	82	s.	10	4.5		hz.	0			0	0	dense haze	E. A. Beals.
Knoxville, Tennessee	29.17	740.9	30.18	766.6	74	23.3	90	n.	1	0.4		3 c;k	6 ks			0.19	4.8	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.22	742.2	29.98	761.5	68	20.0	84	se.	8	3.6			10 s			0	0	threatening	S. C. Emery
La Mesilla, New Mexico	26.09	662.7	29.81	757.2	63.8	17.7	63	calm	0	0		0	1 s			0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.14	740.1	30.01	762.2	78	25.6	74	s.	5	2.2		0	0			0	0	clear	A. W. Browne.
Lewiston, Idaho	29.22	742.2	30.04	763.0	51.5	10.8	66	calm	0	0		4 k	0	s.		0.03	0.8	fair	W. Bell.
Little Rock, Arkansas	29.79	756.7	30.10	764.5	78	25.6	91	calm	0	0		6 c	0			0	0	fair	W. U. Simmons.
Los Angeles, California	29.56	750.8	29.95	760.7	56.1	13.4	93	nw.	4	1.8			fg.		calm	c	0	dense fog	E. F. Kubel.
Louisville, Kentucky	29.55	750.6	30.10	764.5	75	23.9	85	s.	4	1.8		5 k	sk.			0.01	0.3	fair	H. C. Smyth.
Lynchburg, Virginia	29.50	749.3	30.16	766.1	76.0	24.4	74	s.	1	0.4		0	8 ks;k		e.;n.	0	0	cloudy	W. R. Bushby.
Madison, Wisconsin	29.09	738.9	30.08	764.0	62	16.7	87	se.	6	2.7			10 s		se.	inap.	inap.	cloudy	C. A. Shaw.
Marquette, Michigan	29.38	746.2	30.10	764.5	63	17.2	63	s.	6	2.7		8k.	0	s.		0	0	cloudy	J. Gilligan.
Memphis, Tennessee	29.82	757.4	30.15	765.8	82	27.8	72	e.	4	1.8		hz.	hz.			0	0	dense haze	D. T. Flannery.

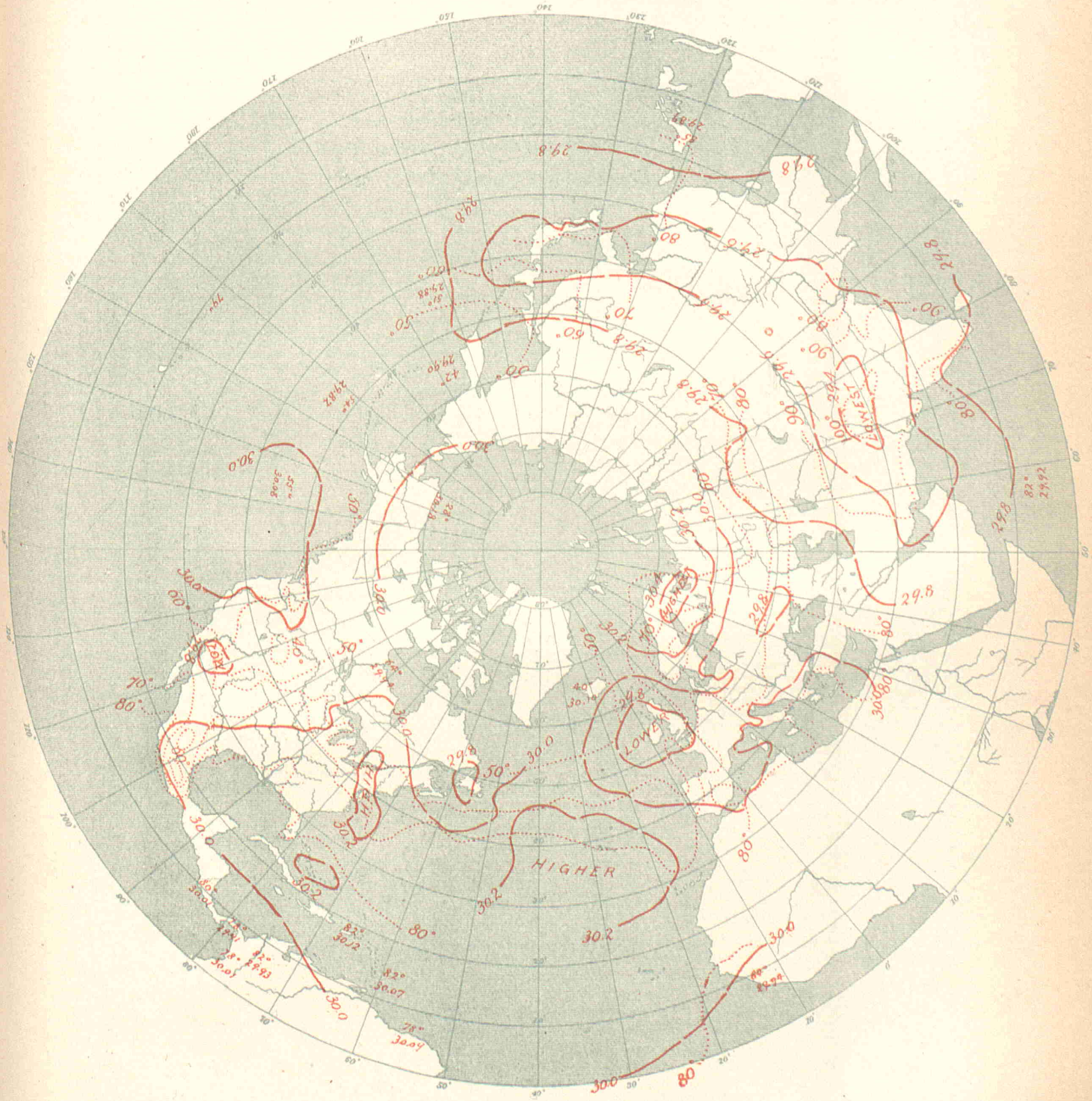
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	29.37	746.0	30.11	764.8	58	14.4	75	ne.	1	0.4		6 c	0			0	0	fair	W. Line.
Mobile, Alabama	30.10	764.5	30.14	765.5	80.2	26.8	82	w.	2	0.9		0	1 ks			inap.	inap.	clear	J. D. Paxton.
Montgomery, Alabama	29.91	759.7	30.14	765.5	76.2	24.6	84	se.	1	0.4		2 cs	0	w.		inap.	inap.	clear	J. B. McLaughlin.
Moorhead, Minnesota	28.93	734.8	29.90	759.4	60	15.6	87	ne.	8	3.6			10 s			0.05	1.3	cloudy	H. Bessant.
Morgantown, W. Virginia	29.19	741.4	30.19	766.8	63.5	17.5	86	calm	0	0		0	6 s			0	0	fair	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.82	605.0	29.94	760.5	35.0	1.7	61	nw.	70	31.2		1 cs	0	nw.		0	0	clear	J. G. Linsley.
Nashville, Tennessee	29.62	752.3	30.14	765.5	72.0	22.2	90	e.	5	2.2			10 n		w.	0.20	5.1	thund'r st'm	L. A. Jesunofsky.
New Haven, Connecticut	30.06	763.5	30.17	766.3	65	18.3	54	n.	5	2.2		0	0			0	0	clear	J. H. Sherman.
New London, Connecticut	30.12	765.0	30.17	766.3	69	20.6	61	nw.	4	1.8		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.08	764.0	30.13	765.3	82.5	28.1	76	s.	4	1.8		4 c	sk.	w.		0	0	fair	L. Dunne.
Newport, Rhode Island	30.11	764.8	30.16	766.1	68.0	20.0	55	nw.	5	2.2		0	0			0	0	clear	W. McGillivray.
New River, N. Carolina					74	23.3	92	calm			0		10 s		e.	1.40	35.6	threatening.	C. C. Corbin.
New Shoreham, Rhode I'd	30.12	765.0	30.16	766.1	63.0	17.2	63	nw.	8	3.6		0	1 s		nw.	0	0	clear	W. Davis.
New York, New York*	30.04	763.0	30.20	767.1	66	18.9	59	nw.	4	1.8		0	0			0	0	clear	J. B. Merrill.
Norfolk, Virginia	30.16	766.1	30.19	766.8	74	23.3	71	se.	5	2.2		0	hz.			0	0	clear	J. T. Elker.
North Platte, Nebraska	27.11	688.6	29.91	759.7	63.6	17.6	82	n.	6	2.7		0	2 s			0.05	1.3	clear	E. F. Brady.
Olympia, Washington T'y	30.04	763.0	30.08	764.0	50.0	10.0	93	s.	1	0.4			10 s		sw.	0.05	1.3	cloudy	J. Dascomb.
Omaha, Nebraska	28.78	731.0	29.92	760.0	79.0	26.1	82	s.	8	3.6		0	4 ks			0	0	fair	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.16	766.1	30.18	766.6	28.0	— 2.2	100	nw.	5	2.2			9 s		nw.	inap.	inap.	cloudy	P. H. Ray.
Oswego, New York	29.88	758.9	30.20	767.1	60.0	15.6	70	w.	8	3.6		0	0			0	0	clear	S. W. Beall.
Palestine, Texas	29.61	752.1	30.15	765.8	76.0	24.4	90	sw.	7	3.1		10 cs	0	s.		0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.11	764.8	30.14	765.5	80.8	27.1	88	s.	2	0.9		0	0			0	0	clear	M. McGauran.
Philadelphia, Pa	30.12	765.0	30.22	767.6	70	21.1	53	w.	6	2.7		0	0			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.97	456.4	29.79	756.7	31	— 0.6	71	w.	31	13.9		0	0			0	0	clear	L. M. Dey.
Ploche, Nevada	24.03	610.4	29.83	757.7	49.4	9.7	50	s.	7	3.1		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.37	746.0	30.16	766.1	61.0	16.1	84	nw.	3	1.3		3 ck	0	sw.		0	0	clear	J. H. Bryce.
Poplar River, Montana	27.84	707.1						se.			1	0	0			0	0	clear	U. D. Maxwell.
Port Eads, Louisiana	30.15	765.8	30.16	766.1	80.0	26.7	88	s.	6	2.7		2 c; hz	0	w.		0	0	clear	H. G. Christian.
Port Huron, Michigan	29.58	751.3	30.18	766.6	61.2	16.2	65	calm	0	0		1 cs	0			0	0	clear	W. O. Bailey.
Portland, Maine	30.02	762.5	30.07	763.8	64.5	18.1	86	w.	4	1.8		5 c; cs	0			0	0	fair	W. W. Eichelberger.
Portland, Oregon	30.02	762.5	30.09	764.3	55.0	12.8	86	s.	1	0.4			10 s		se.	0.01	0.3	cloudy	M. L. Hearne.
Portsmouth, N. Carolina																			F. P. Chaffee.
Prescott, Arizona	24.79	629.7	29.81	757.2	47	8.3	48	s.	2	0.9		0	0			0	0	clear	J. Mc N. Wright.
Provincetown, Mass	30.09	764.3	30.12	765.0	63	17.2	63	nw.	11	4.9		1 cs	0	nw.		0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.12	765.0	30.13	765.3	78.5	25.8	88	e.	6	2.7		7 c	0	calm		0.35	8.9	fair	W. J. Evans.
Red Bluff, California	29.57	751.1	29.93	760.2	62.8	17.1	37	n.	2	0.9		2 c	1 s	nw.		c	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.87	758.7	30.10	764.5	81	27.2	79	se.	5	2.2		0	0			0	0	clear	P. M. Wilson.
Rochester, New York	29.55	750.6	30.20	767.1	58	14.4	74	sw	2	0.9		0	sk.			0	0	clear	E. W. McGann.
Roseburg, Oregon	29.55	750.6	30.10	764.5	54	12.2	74	calm	0	0			10 s		sw.	0	0	cloudy	J. J. Naury.
Sacramento, California	29.85	758.2	29.92	760.0	56.8	13.8	69	s.	6	2.7		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.52	749.8	30.11	764.8	72.0	22.2	97	se.	7	3.1		2 c	0			0	0	clear	J. H. Webber.
St. Paul, Minnesota	29.13	739.9	29.98	761.5	62.0	16.7	100	nw.	12	5.4			10 n			0.15	3.8	thund'r st'm.	P. F. Lyons
St. Vincent, Minnesota	29.06	738.1	29.90	759.4	53	11.7	93	s.	7	3.1		8cs; ck	0	calm; s		1.02	25.9	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.65	651.5	29.87	758.7	49	9.4	40	calm	0	0		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.41	747.0	30.09	764.3	77	25.0	90	se.	4	1.8			9 ks		s.	0	0	cloudy	E. Lane.
San Diego, California	29.83	757.7	29.90	759.4	62.0	16.7	81	ne.	3	1.3			10 s			0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.48	748.8	30.15	765.8	68.2	20.1	66	e.	7	3.1			10 s			0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.17	766.3	30.21	767.3	64.0	17.8	68	nw.	4	1.8		0	0			0	0	clear	B. A. Blundon.
San Francisco, California	29.94	760.5	30.01	762.2	51.5	10.8	86	sw.	12	5.4		0	fg.		sw.	0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.33	592.6	29.84	757.9	58	14.4	27	e.	3	1.3		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	30.05	763.3	30.14	765.5	79	26.1	77	w.	5	2.2		4 ck	0			0.09	2.3	fair	H. W. Ford.
Shreveport, Louisiana	29.91	759.7	30.14	765.5	77	25.0	85	s.	3	1.3		0	hz.			0	0	clear	E. N. Meekins.
Silver City, New Mexico	24.31	617.5	29.81	757.2	52	11.1	41	w.	4	1.8		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	29.87	758.7	29.93	760.2	50.5	10.3	72	calm	0	0		0	0			0	0	clear	J. J. McLean.
Smithville, North Carolina	30.14	765.5	30.18	766.6	72	22.2	97	e.	12	5.4			10 n		e.	0.52	13.2	heavy rain	O. Parker.
Spokane Falls, Wash. Ter.	28.00	711.2	30.04	763.0	50	10.0	93	calm	0	0			10 n			0.26	6.6	light rain	D. Moore.
Springfield, Illinois	29.43	747.5	30.10	764.5	72.5	22.5	86	s.	4	1.8		0	0			0	0	clear	T. B. Jennings.
Springfield, Massachusetts	30.05	763.3	30.18	766.6	68.0	20.0	61	s.	2	0.9		0	0			0	0	clear	T. S. Outram.
Springfield, Mo	28.68	728.5	30.14	765.5	76	24.4	82	s.	6	2.7		5 c	0	w.		0	0	fair	J. B. Marbury.
Starkville, Miss	29.67	753.6	30.14	765.5	82	27.8	80	s.	3	1.3		2 c	0			0	0	clear	M. J. Wright.
Stockton, Texas	27.02	686.3	29.94	760.5	70.3	21.3	90	se.	16	7.2		4 cs	0	calm		0	0	fair	J. O'Dowd.
Thatcher's Island, Mass	30.07	763.8	30.12	765.0	66.0	18.9	56	nw.	14	6.3		0	0			0	0	clear	G. Liebmann.
Toledo, Ohio	29.46	748.3	30.14	765.5	68	20.0	73	e.	3	1.3		6 k	0	w.		0	0	fair	A. Buell.
Tucson, Arizona	27.49	698.2	29.79	756.7	65	18.3	30	s.	6	2.7		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.72	754.9	30.08	764.0	47	8.3	77	w.	1	0.4		0	2 s			0	0	clear	J. Daly.
Uvalde, Texas	29.12	739.6	30.06	763.5	77	25.0	85	s.	7	3.1			10 ks		s.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.88	758.9	30.13	765.3	80	26.7	82	sw.	1	0.4		0	0			0	0	clear	H. P. Brisbane.
Visalia, California	29.54	750.3	29.91	759.7	59	15.0	48	nw.	4	1.8		0	0			0	0	clear	W. L. Seward.
Washington, D. C.	30.10	764.5	30.20	767.1	67.5	19.7	71	e.	3	1.3		2 k	0			0	0	clear	B. M. Purssell.
West Las Animas, Colorado	26.11	663.2	29.89	759.2	61.9	16.6	68	w.	4	1.8		0	0			0	0	clear	F. W. Brandenburg.
Williamsport, Pa	29.62	752.3	30.22	767.6	59	15.0	75	calm	0	0		0	hz.			0	0	clear	B. F. Hough.
Wilmington, N. Carolina	30.10	764.5	30.15	765.8	74	23.3	90	e.	7	3.1			10 s		e.	0.08	2.0	cloudy	A. T. Sherwood.
Winnemucca, Nevada	25.58	649.7	29.84	757.9	41	5.0	59	sw.	4	1.8		0	0			0	0	clear	J. R. Williams.
Yankton, Dakota	28.65	727.7	29.93	760.2	72	22.2	84	se.	13	5.8		10 ck	0			1.97	50.0	cloudy	J. H. Attfield.
Yuma, Arizona	29.63	752.6	29.77	756.1	67.4	19.7	65	calm	0	0		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8			54.0	12.2	79	w.	4	1.8			8ks; s		se.	0	0	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W. I.	30.06	763.5	30.07	763.8	82	27.8	95	e.				5 k	5 ks	e.	e.	0	0	cloudy	J. A. Racker.
Buenaventura, U. S. C.	29.98	761.5	30.01	762.2	78	25.6	90	calm	0	0		0	8 ks		calm	0.10	2.5	cloudy	J. I. Plume.
Havana, Cuba, W. I.																			A. Van Caneghem.
Kingston, Jamaica, W. I.	30.07	763.8	30.08	764.0	81.4	27.4	72	calm	0	0		7 cs	2 ks			0	0		Robert Johnston.
Magua, San Domingo, W. I					71	21.7		se.			2	0	5 ck		e.	0	0		S. M. Pike.
Paramaribo, S. A.	30.09	764.3	30.09	764.3	78	25.6	91	se.			3	0	5 k		e.	0.550	14.0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.47	748.5	29.93	760.2	82	27.8	90	s.			1	6 ck	2 k	s.	s.	1.27	32.3	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							94	ne.			2					0	0	cloudy	Earl Flint.
Santiago de Cuba, W. I.	30.06	763.5	30.09	764.3	80	26.7	74	calm	0	0		2 ck	0			0.02	0.5	fair	Robert Mason.
York Factory, B. A.	29.88	758.9	29.94	760.5	64.0	17.8	83	s.	11	4.9		1 c	2 s	s.	s.	0	0	fair	Fortesque & Wood.

Stations and Vessels	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S Alert, Simon's Bay, Cape Colony, Africa	30.05	763.3	64.5	18.1	76	wnw.			2–3		3							misty.
H. M. S. Alexandra, N. 31° 19′ E. 29° 45′	30.01	762 2	73	22.8	81	wnw.			1		0							misty.
H. M. S. Amethyst, Montevideo, Uruguay	30.04	763.0	45	7.2	100	n.			1		fg							foggy.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	30.02	762.5	74	23.3		n.			3									blue sky.
H. M. S. Arab, Jask, Persia	29.44	747.8	91	32.8	84	sw.			2		2							misty.
H. M. S. Bacchante, Palermo, Sicily	30.04	763.0	73	22.8	85	n.			1		2	n.						d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.03	762.7	65	18.3		wnw.			3–4		2							d. clouds.
H. M. S. Champion, N. 19° 40′, W. 167° 10′			79	26.1		ene.			4		7					3	ne.	d. clouds.
H. M. S. Coquette, Port Said, Egypt	29.93	760.2	75	23.9		nw.			2		0							blue sky.
H M. S. Cruiser, Naples, Italy	30.03	762.7	75	23.9		sw.			2		0					1	ssw.	blue sky.
H. M. S. Diamond, S. 10° 25′, E. 162° 26′	29.88	758.9	80	26.7	95	nne.			2–3		9					1	ne.	d. clouds.
H. M. S. Dido, N. 13° 45′, W. 61° 55′	30.09	764.3	80	26.7		ene.			3		2	ene.				3	ene.	d. clouds.
H. M. Dock Yard, Bermuda, W. I.	30.08	764.0	75	23.9	90	wsw.			1–2		7	wsw.						d. clouds.
H. M. S. Druid, N. 18° 28′, W. 73° 05′	30.10	764 5	81.5	27.5	87	ese.			1		10							misty.
H. M. S. Dwarf, S. 25° 16′, W. 57° 45′	29.96	761.0	55	12.8	90	calm			0		0							blue sky.
H M. S. Eclipse, S 4° 37′, E. 55° 30′	29.99	761.7	80	26.7		ssw.			1		3							d. clouds.
H. M. S. Emerald, S. 45° 20′, W. 44° 30′	29.71	754.0	43	6.1	91	ssw.			2–3		5	sw.				6	sw.	d. clouds.
H. M. S. Espiegle, S. 20° 15′ E. 169° 44′	29.94	760.5	74	23.3	85	e.			1		3							d. clouds.
H. M. S. Fawn, S. 25° 19′, E. 38° 34′	30.31	769.9	71.5	21.9	63	sse.			2		1	sse.				3	sse.	d clouds.
H. M. S. Fantome, N. 14° 57′ W. 77° 29′	29.98	761.5	81	27.2		ene.			5–6		9	ene.				4	ene.	d. clouds.
H. M. S. Flying Fish, N. 37° 21′, E. 125° 23′.	29.53	750.0	67	19.4	92	calm			0		10							misty.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.01	762.2	48	8.9	96	n.			1		10							foggy.
H. M. S. Garnet, S. 34° 55′, W. 53° 13′	30.18	766.6	54	12.2	93	sse.			1		10							misty.
H. M. S. Griffon, N. 49° 18 W. 54° 29′	29.81	757.2	56	13.3	74	s.			2		1	s.						blue sky.
H. M. S. Inconstant, Saint Vincent, Cape Verd Is'd.	30.04	763.0	76	24.4	72	ne.			3		3	nne.				1	nne.	d. clouds.
H. M. S. Iron Duke, N. 35° 26′, E. 139° 39′	29.51	749.5	72	22.2	95	calm			0		0							blue sky.
H. M. S. Kingfisher, Acapulco, Mexico	29.84	757.9	79	26.1		ene.			3–7		9							thnd'rstorm.
H. M. S. Lark. S. 1° 40′, E. 162° 22′	29.87	758.7	80.3	26.8		calm			0		10					1	e.	overcast.
H. M. S. Magpie, N. 35° 03′, E. 140° 18′	29.53	750.0	72.2	22.3	92	ssw.			2		5	nnw.				3	sse.	misty.
H. M. S. Minotaur, Malta, Mediterranean	30.08	764.0	73	22.8	76	ene.			1		0							misty.
H. M. S. Nelson, S. 36° 11′ E. 175° 20′	29.65	753.1	62	16.7	100	calm			0		9							raining.
H. M. S. Northampton, Halifax, Nova Scotia	29.84	757.9	62	16.7	80	nw.			3		1							blue sky.
H. M. S. Rambler, Little Fish Bay, Benguela	30.02	762.5	67	19.4	100	w.			2		0							blue sky.
H M S. Rocket, N. 50° 50′, W. 127° 50′	30.00	762.0	48	8.9	92	calm			0		2							d. clouds.
H M. S. Sappho, S. 24° 53′ W. 116° 00′	30.05	763.3	65.5	18.6		w.			2		3	w.				3	s.	showery.
H. M. S. Swiftsure, 0° 00′, W. 26° 00	30.07	763.8	74.5	23.6	85	ese.			3–4		0	sse.				5	ese.	d. clouds.
H. M. S. Sylvia, S. 27° 54′, W. 47° 23′	30.09	764.3	64	17.8	86	sw.			4–5		8	ne.				4	sw.	d. clouds.
H. M. S. Tenedos, N. 47° 39′ W. 56° 11′	29.88	758.9	50	10.0	93	sse.			2		10							overcast.
H. M. S. Triumph, Valparaiso, Chili	29.95	760.7	49	9.4	93	calm			0		2	calm						d. clouds.
H. M. S. Tyne, N. 36° 20′, W. 12° 46′	30.13	765.3	68	20.0	90	wsw.			3		9	wnw.				1	w.	d. clouds.
H. M. S. Woodlark, Bushire, Persia	29.51	749.5	84.5	29.2	79	wnw.			3–4		0					2	nw.	misty.
Portuguese Naval.																		
Rio Lima, Fogo, Cape Verd Islands	30.08	763.9	78.8	26.0	92	nne.			3		1					2		blue sky.
Tamega, Macao, China	29.75	755.7	84.2	29.0	78	s.			4		4		s.					d. clouds.
Swedish Naval.																		
Saga, N. 42° 34′, W. 24° 42′	30.15	765.7	66.2	19.0	88	wnw.			3		9							drizzling.
United States Naval.																		
Navy Yard, Pensacola, Fla	30.10	764.5	81	27.2	87	wsw.	2	0.9			2		wsw.	0	0			fair.
Navy Yard, Portsmouth, N. H	30.09	764.3	65	18.3	53	nw.	8	3.6			2		nw.	0	0			clear.
Naval Hospital, Yokohama, Japan*	29.43	747.5	73	22.8	95	calm			0		10			0	0			cloudy.
Adams, Mare Island, Cal	30.00	762.0	59	15.0	88	sw.			2–3		0			0	0			clear.
Alaska, Callao, Peru	30.00	762.0	60	15.6	88	se.			1		8			0	0	sm'h		fair.
Alert, N. 43° 25′, E. 161° 13′*	29.73	755.1	51	10.6	93	s.			1		10		calm	0	0	sm'h		hazy.
Alliance, N. 40° 45′, W. 70° 37′	30.16	766.1	61	16.1	88	nnw.			1		2			0	0	sm'h		clear.
Ashuelot, Yokohama, Japan	29.51	749.5	75	23.9	86	calm			0		10		calm					hazy.
Brooklyn, Rio de Janeiro, Brazil	30.05	763.3	68	20.0	90	n.	4	1.8			10		calm	0	0	sm'h		cloudy.
Colorado, New York, N. Y	30.15	765.8	63	17.2	83	nw.	4	1.8			0			0	0			fair.
Constellation, Annapolis, Md*	30.18	766.6	72	22.2	85	ene.			2		10		se.					cloudy.
Enterprise, Norfolk, Va*	30.18	766.6	73	22.8	90	se.			1		2		se.					clear.
Essex, Possession Bay, Patagonia	29.64	752.8	40	4.4	73	wsw.			2		5?					sm'h		clear.?
Franklin, Norfolk, Va	30.20	767.1	71	21.7	80	se.	4	1.8			2		calm	0	0			clear.
Galena, Alexandria, Egypt	30.03	762.7	76	24.4	91	n.			2		0					sm'h		hazy.
Independence, Mare Island, Cal	30.02	762.5	55	12.8	87	sw.			2		2			0	0			clear.
Iroquois, San Francisco, Cal	30.08	764.0	57	13.9	75	calm			0		2			0	0			clear.
Kearsage, Norfolk, Va	30.21	767.3	72	22.2	90	se.			1		2		n;e.					fair.
Lackawanna, S. 6° 31′, W. 81° 14′*	29.96	761.0	63	17.2	89	ese.			4		10		se.			mod.	se.	cloudy.
Lancaster, Valetta, Malta, Mediterranean	30.03	762.7	77	25.0	86	ene.			1		0			0	0			clear.
Marion, S. 34° 54′, W. 56° 13′	30.10	764.5	45	7.2	100	n.			1							sm'h		foggy.
Michigan, Detroit, Michigan	30.10	764.5	64	17.8	68	ne.			2		2							fair.
Minnesota, Newport, R. I	30.23	767.8	67	19.4	60	n.	1	0.4			2		e.					
Monocacy, N. 33° 48′ E. 129° 25′*	29.63	752.6	71	21.7	100	nnw.			2		10		nw.					
New Hampshire, Newport, R. I	30.13	765.3	66	18.9	54	sw.			1		2		calm			sm'h		rainy.
Nipsic, Trieste, Austria	30.00	762.0	74	23.3	59	wnw.			1		2					sm'h		fair.
Onward. Callao, Peru†	30.11	764.8	60	15.6	88	calm			0		10					sm'h		clear.
Palos, Sura Us Uchi, Japan	29.64	752.8	74	23.3	95	ese.			1		10					long	w.	cloudy.
Passaic, Washington, D. C	30.23	767.8	67	19.4	100	ne.			2		2		calm					cloudy.
Pensacola, Callao, Peru	30.06	763.5	58	14.4	88	calm	0	0			10		ne.					clear.
Powhatan, N. 37° 38′, W. 74° 59′	30.18	766.6	71	21.7	85	ssw.			1		2			0	0	sm'h		cloudy.
Portsmouth, Brest, France*	29.74	755.4	59	15.0	76	nnw.			4		5							clear.
Quinnebaug, N. 37° 04′ E. 1° 40′	29.97	761.2	74	23.3	81	e.			3		8					mod.		fair.
Ranger, Mare Island, Cal*	29.95	760.7	60	15.6	71	ssw.			2		0		ene.			sm'h		fair.
Richmond, N. 34° 26′ E. 134° 06′*	29.56	750.8	74	23.3	95	wnw.			1		10			0	0	sm'h		clear.
Saratoga, Brest, France	30.77	781.5	56	13.3	94	w.			2		8			0.18	4.6			cloudy.
St. Louis, League Island, Pa	30.39	771.9	68	20.0	56	calm	0	0			0		w.	light	light	sm'h	sw.	fair.
Swatara, Kobe, Japan*	29.44	747.8	75	23.9	81	wsw.			1		10			0	0			clear.
Tennessee, N. 40° 28′, W. 73° 52′	30.23	767.8	71	21.7	62	nw.			2		0		w.			sm'h		cloudy.
Vandalia, N. 40° 42′ W. 70° 03′*	30.10	764.5	56	13.3	94	n.			2		0					sm'h		clear.
Wabash, Boston, Mass	30.13	765.3	65	18.3	53	wnw.	2	0.9			2					sm'h		clear.
Wachusetts, Fort Wrangle, Alaska	29.84	757.9	49	9.4	93	calm			0		0		w.	0	0			fair.
Wyoming, Port Royal, S. C	30.15	765.8	77	25.0	86	wnw.	8	3.6			5			0	0	sm'h		fair.
Yantic, N. 40° 24′, W. 73° 48′*	30.15	765.8	64	17.8	73	nw.			2		2		nw.	0.02	0.5			fair.
																sm'h		clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 49° 59′, W. 46° 00′*	30.03	762.7	52	11.1	93	sw.			3		1		w.	inap.	inap.	sm'h		blue sky.
S. S. Grec'an, N. 48° 40′ W. 46° 44′*	30.04	763.0				sw.			1		9?		w.	1 h'r	1 h'r	sm'h		clear.?
S. S. Nova Scotian, N. 51° 49′, W. 13° 33′	29.60	751.8	56	13.3		wsw.			4		5		w.			mod.	w.	fair.
S. S. Prussian, N. 55° 18′ W. 8° 11′*	29.59	751.6	56	13.3		sw.			2		2		ssw.	0	0	sm'h		clear.
S. S. Scandinavian, N. 55° 27′ W. 7° 03′*	29.59	751.6	54	12.2		e.			4		6		e.	6 h'r	6 h'r	long	w.	showery.
S. S. Waldensian, Boston, Mass*	29.84?	757.9?																
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, Philadelphia, Pa	30.18	766.6	81	27.2	96	nw.			2		2		nw.					very fine.
S. S. Indiana, Off Kinsale, Ireland†	29.84	757.9	56	13.3	81	sw.			4		2		sw.			sm'h		fine.
S. S. Lord Clive, Philadelphia, Pa*†	29.90	759.4				se.			2		0			0	0			fine.
S. S. Lord Gough, N. 41° 57′, W. 43° 54′	30.23	767.8	74	23.3		sse.			4		10		se.	1 h'r	1 h'r	mod.	sse.	cloudy.
ANCHOR LINE.																		
S. S. Devonia, N. 43° 45′, W. 43° 36′ †	30.36	771.1	66	18.9		sse.			2		7		sse			sm'h		fine.
S. S. Ethiopa, New York, N. Y	30.19	766.8	77	25.0	57	ne.			2		1			0	0			clear.
S. S. Utopia, Off Europa Point, Spain†	30.34	770.6	76	24.4	56	nw.			3		0			0	0	mod.		clear.
ATLAS LINE.																		
S. S. Ailsa, Savanilla, U. S. C.†	29.92	760.0	84	28.9	83	calm			0		hz.			0	0			hazy.
S. S. Alvena, N. 17° 15°, W. 71° 40′ †	29.94	760.5	82	27.8	79	e.			2		2		ene.	0	0	sm'h	ese.	fine.
S. S. Alvo, Barnegat, N. J	30.06	763.5	73.8	23.2		nne.			1		2		ne.	0	0	sm'h	w.	clear.
S. S. Antillas, N. 35° —′, W. 72° —′*†	30.35	770.9	70	21.1		se.			1		2		se.	0	0	sm'h		fine.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 30° 41′, E. 80° 30′	30.18	766.6	64.5	18.1	83	nnw.			3		5							d. clouds.
S. Baroda, S. 8° 30′, E. 87° 31′	29.88	758.9	79.5	26.4	82	se.			3		3							d. clouds.
British Merchant, N 34° 23′ W 36° 14′	30.33	770.4	70.8	21.6	87	sw.			2		10							raining.
Glencairn, S. 2° 32′, W. 17° 34′	30.11	764.8	80	26.7	87	sse.			4		1							blue sky.
S. S Gordon Castle, N. 5° 05′, E. 57° 08′	29.92	760.0	82.2	27.9	83	ssw.			5		4							showery.
May Hulse, S. 49° 00′, W. 46° 05′	29.64	752.8	37.7	3.2	76	sw.			6		9							d. clouds.
S. S Minho, N. 22° 45′, W. 21° 21′	30.12	765.0	73.4	23.0	83	ne.			5		7							misty.
S. S. Pole Star, S. 11° 43′, W. 27° 48′	30.10	764.5	77.8	25.4	93	se.			5		3							blue sky
CROMWELL LINE.																		
S. S. Hudson, N. 24° 25′, W. 82° 50′†	30.19	766.8	77	25.0		ne.			2		1		nw.	0	0	mod.	se.	fair.
CUNARD LINE.																		
S. S. Bothnia, N. 46° 41′, W. 37° 11′	30.15	765.8	74	23.3	86	wsw.			3		10			2 h'r	2 h'r	sm'h		misty.
S. S. Gallia, N. 49° 58′, W. 15° 10′	29.70	754.4	56	13.3	87	wnw.			6		8		w.	0	0	mod.	nw.	squally.
S. S. Scythia, New York, N. Y	30.18	766.6				n.			1		0			0	0			clear.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. France, N. 48° 05′, W. 23° 47′ †	29.87	758.7	59.0	15.0		w.			4		n.		w.	0	0		nw.	covered.
S. S. Ville de Marseilles, Marseilles, France						ese.			4		0			0	0			clear.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, New York, N. Y. *†	30.17	766.3				nw.			2		0			0	0			
S. S. Herder, N. 51° 45′, E. 1° 40′*†	29.84	757.9	67	19.4		sw.			1		1		s.	0	0	mod.	w.	
S. S. Lessing, N. 45° 31′, W. 34° 25′	30.21	767.3	62	16.7		nw.			4		0			0	0	mod.	nw.	foggy.
INMAN LINE.																		
S. S. City of Berlin, N. 45° —′ W. 38° —′	30.29	769.4				sw.			1		9		w.	0	0	sm'h		fair.
JOHNSTON LINE.																		
S. S. Thanemore, N. 48° 40′ W. 18° 54′	29.85	758.2				nw.			6		5		nw.	sh'rs	sh'rs	short	nw.	fair.
MALLORY LINE.																		
S. S. Colorado, N. 27° 41′, W. 90° 09′	30.16	766.1	81	27.2		ese.			2		3		ese.	0	0	small	se.	clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Hermod, N. 48° 54′, W. 17° 00′*†	29.60	751.8	59.0	15.0		n.			6		4		n.	2 h'r	2 h'r	r'gh	n.	clearing.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, S. 12° 57′, W. 38° 44′	29.57	751.1				ssw.			6				s.	0	0	mod.	se.	cloudy.
S. S. Glenapp, N. 0° 10′, W. 44° 36′.*†	30.00	762.0				se.			3		4		se.	0	0	sm'h		fine.
NATIONAL LINE.																		
S. S. Denmark, N. 48° 57′. W. 12° 16′	29.94	760.5	59	15.0		w.			3		5		wnw.	2½h'r	2½h'r	long	nw.	fine.
S. S. England, Off Tuskar, Ireland	29.81	757.2				sw.			3		2		sw.	0	0	sm'h		clear.
S. S. The Queen, N. 47° 58′, W. 21° 57′ *	29.84	757.9	52	11.1		n.			6		8		n.	sh'rs	sh'rs	mod.	n	squally.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY																		
S. S. Santiago, N. 33° 05′, W. 74° 19′ †	30.27	768.8	75	23.9		se.			2				sse.	0	0	g'ntle	se.	cloudy.
S. S. Saratoga, Havana, Cuba, W. I.†	30.30	769.6	85	29.4	79	calm			0		0			0	0			clear.
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, New York, N. Y.*†	30.26	768.6	64	17.8	78	e.			4									fair.
S. S. City of Puebla, Havana, Cuba, W. I.†	30.03	762.7	85	29.4		ese.			1		2		e.					fine.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N. 47° 57′, W. 22° 31′*†	30.19	766.8	62	16.7		w.			4								wnw.	squally.
NORTH GERMAN LLOYD.																		
S. S. Elbe, N. 40° 29′, W. 67° 14′	30.11	764.7	56.3	13.5	94	nw.			2-3		0			0	0	sm'h	w.	fair.
S. S. Hohenzollern, N. 42° 47′ W. 39° 09′*	30.29	769.4	71	21.7		wsw.			1		8		w.	0	0	sm'h		fair.
S. S. Leipzig, N. 37° 24′, W. 75° 24′	30.22	767.6	75.0	23.9	95	s.			2		0			0	0	sm'h		clear.
S. S. Neckar, N. 41° 17′, W. 59° 35′			68.0	20.0	84	sw.			3		8?		sw.	0	0	sm'h	sw.	clear.?
S. S. Oder, N. 49° 21′ W. 15° 01′	29.81	757.2	58.1	14.5		w.			5		6		w.	1 h'r	1 h'r	long	w.	fair.
S. S. Ohio, Bremerhaven, Germany						se.			2		0			0	0			clear.
S. S. Rhein, N. 41° 16′, W. 46° 50′	30.17	766.3				ssw.			3		4		sw.	0	0	mod.	sw.	fair.
S. S. Salier, N. 52° 16′, E. 3° 05′	29.97	761.2	57.2	14.0		se.			3		5?		se.	0	0	mod.	se.	cloudy?
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, N. 47° 21′, W. 168° 54′ †	29.92	760 0	54	12.2	79	ssw.			4		8		ssw.	light	light	mod.	s.	cloudy.
S. S. Coptic, N 44° 21′ W. 145° 04′	30.18	766.6	55.0	12.8		w.			4		6		w.	7 h'r	7 h'r	3	w.	gloomy.
S. S. Gaelic, Yokohama, Japan †	29.52	749.8	77	25.0	82	sw.			4		5?		w.			mod.	ne.	clear.?
S. S. Oceanic, N. 40° 16′, E. 151° 57′*	29.60	751.8	62	16.7	94	e.			4		7		se.			3	con.	cloudy.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga.†	30.19	766.8				w.			1		3		w.	0	0			clear.
S. S. City of Columbus, N. 33° 49′, W. 77° 20′†	30.12	765.0				n.			3		6		n.	3 h'r	3 h'r	mod.	n.	heavy rain.
S. S. Seminole, Boston, Mass†	30.07	763.8	80	26.7	82	nw.			1		1		nw.	0	0			clear.
OREGON IMPROVEMENT COMPANY.																		
S. S. Willamette, N. 42° 43′ W 124° 44′†	30.17	766.3	58	14.4	82	n.			2		4		nw.	0	0		w.	clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, N. 43° 58′, W. 124° 16′.†	30.12	765.0	53	11.7	86	ssw.			1		10		sw.			sm'h		threatening.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal. †	29.92	760.0	51	10.6	86	w.			1		2		w					fair.
S. S. Dakota, N. 43° 41′, W. 124° 45′*†	30.09	764.3	56	13.3	87	nw.			5		10		w.			long	w.	cloudy.
S. S. Geo. W. Elder, N. 42° 30′, W. 124° 46′†	30.13	765.3	54	12.2	80	s.			1		10					light	nw.	hazy.
S. S. Idaho, Departure Bay, Alaska†	30.42	772.7	57	13.9	94	calm			0		10					sm'h		raining.
S. S. State of California, Portland, Oregon†	30.07	763.8	55	12.8	87	calm			0		10		s.					overcast.
S. S. Victoria, Portland, Oregon †	30.00	762.0	54	12.2	74	calm			0		8					sm'h		fair.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, S. 26° 55′, W. 177° 23′	29.98	761.5	68	20.0	47	calm			0		0			0	0	sm'h		clear.
S. S. City of Pekin, Hong Kong, China†	29.72	754.9	84	28.9	91	wsw.			5		10		sw.	0	0	sm'h		cloudy.
S. S. City of Rio de Janeiro, N. 20° 17′, W. 105° 45′†*	30.10	764.5	84	28.9	79	nnw.			3		5		nnw.	0.1	3.	mod.	s.	cloudy.
S. S. City of Sydney, Sydney N. S. W.†	30.15	765 8	44	6.7	92	w.			4		2		w.	0	0	sm'h		clear.
S. S. Clyde N. 22° 46′, W. 109° 40′†	29.81	757.2	70	21.1	85	w.			3		2		w.	0	0	long	wnw.	clear.
S. S. Colima, N. 31° 17′, W 119° 18′†	29.92	760.0	59	15.0	88	nw.			5		10		nw.	0	0	r'gh	nw.	cloudy.
S. S. Colon, N. 25° 23′, W. 73° 57′†	30.25	768 3	82	27.8		e.			3		6		e.	0	0	small	e.	fair.
S. S. Granada, Panama, Panama †	29.91	759.7	78	25.6	?	calm			0		10			3 h'r	3 h'r	mod.		cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
PACIFIC MAIL STEAMSHIP COMPANY.—CONTINUED.																		
S. S. South Carolina, Punta Arenas, Costa Rica†	30.01	762.2	80	26.7	82	sse.			2		5		ne.	0	0	light		
S. S. Zelandia, N. 25° 22′, W. 177° 41′	30.03	762.7	67	19.4	79	se.			1		10		w.			high	e.	cloudy.
QUEBEC STEAMSHIP COMPANY.																		
S. S. Muriel, N. 39° 10′, W. 73° 12′	30.01	762.2	71	21.7		ne.					10			0	0	sm'h		overcast.
S. S. Bermuda, St. Kitts, W. I†	30.15	765.8	81	27.2		e.					7		ese.	h'vy	h'vy	long	ese.	heavy rain.
RED STAR LINE.																		
S. S. Nederland, N. 47° 36′, W. 25° 19′†	30.26	768.6	59	15.0		nnw.			3		10		wnw.	0	0	mod.	nnw.	cloudy.
S. S. Rhynland, South Foreland, Eng	29.72	754.9	62	16.7	83	s.			2		10		ssw.	0.1	3.	sm'h		cloudy.
S. S. Vaderland, Jersey City, N. J.	29.94	760.5	67	19.4	79	wnw.			2		0			0	0			clear.
ROTTERDAM LINE.																		
S. S. P. Caland, N. 46° 20′ W. 29° 40′†	30.17	766.3	59.7	15.4	93	nnw.			3		9 n		n.			mod	n.	fair.
STATE LINE.																		
S. S. State of Florida, N. 40° 34′. W. 72° 35′	29.99	761.7	60	15.6		wsw.			3		0			0	0	sm'h		clear.
S. S. State of Georgia, N. 47° 50′, W. 36° 50′†	30.28	769.1	60	15.6		w.			3		10			4 h'r	4 h'r	sm'h		rainy.
THINGVALLA LINE.																		
S. S. Thingvalla, Brooklyn, N. Y.†	30.41	772.4	74.3	23.5		wnw.			1		2		wnw.	0	0			clear.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 39° 53′. W. 47° 36′	30.00	762.0									1		sw.	0	0	sm'h		
WHITE STAR LINE.																		
S. S. Baltic, N. 44° 38′ W. 42° 26′†	30.34	770.6	67	19.4	89	ssw.			3		4		sw.	4 h'r	4 h'r	sm'h		d. clouds.
S. S. Celtic, N. 51° 02′, W. 14° 20′†	29.76	755.9	58	14.4	82	wnw.			4		5		wnw.	4 h'r	4 h'r	mod	wnw.	fair.
S. S. Republic, N. 41° 07′ W. 61° 34′†	30.42?	772.7?	70	21.1	90	w.			2		0			0	0	mod.	w.	blue sky.
WILSON LINE.																		
S. S. Otranto, N. 47° 31′, W. 33° 31′†	30.36	771.1	66	18.9		wnw.			2		10		wsw.			mod.	wnw.	light rain
S. S. Romano, New York, N. Y.	30.07	763.8	64	17 8														
MISCELLANEOUS.																		
Bg. Abbie Clifford, N. 25° 10′. W. 75° 14′*†	30.22	767.6	84	28.9		ese.			3		7		ese.	0	0		se.	fine.
Schr. Addie Fuller, N. 41° 52′, W. 69° 46′†	30.19	766.8	59.5	15.3	76	wnw.			2	1c	0			0	0	sm'h		clear.
Schr. Ajax, N. 28° 20′, W. 96° 21′†	30.14	765.5				se.			1		4		sse.	0	0	sm'h	se.	fair.
Bk. Alpha, N. 36° 40′ W. 74° 10′†	30.16	766.1	72	22.2		se.			1		2		s.	0	0	sm'h		fair.
Schr. Annie Lewis, Mobile Bay, Ala†	30.27	768.8	85	29.4		w.			2		2		w.	4 h'r	4 h'r	sm'h		clearing.
Bk. Anna Thorman, S. 23° 42′, W. 30° 54′	30.13	765.3	72.5	22.5	78	n.			5		10 n		n.	1 h'r	1 h'r	mod.	n.	misty.
Schr. Asa Eldridge, Punta Rassa, Fla†	30.07	763.8				e.			2		2		se.	0	0			fair.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.20	767.1	74	23.3		nnw.			1		9		sw.	4 h'r	4 h'r			overcast
Bk. Bergenseren, N. 38° 30′ W. 71° 27′†	30.13	765.2	66	18.9		wnw.			1					0	0	sm'h		fair.
Schr. C. R. Flint, N. 27° 35′, W. 88° 52′†	30.42?	772.7?	79	26.1		se.			1		0			0	0	sm'h	s.	clear.
Schr. Edith R. Seward, Wilmington, N. C*†	30.22	767.6	77	25.0		e.			1		9		e.	1 h'r	1 h'r			cloudy.
S. E. J. Spicer, N. 47° 58′, W. 49° 58′†	30.12	765.0				wsw.			3		0			0	0	mod.	wsw.	
Bk. Essex, S. 9° 05, W. 32° 14′*†.	30.02	762.5	83	28.3		se.			4		3		se.	1 h'r	1 h'r	cross	high	squally.
S. Exporter, S 17° 40′, E. 82° 10′*†	30.30	769.6				e.			6		5?		e.	6 h'r	6 h'r	cross		cloudy.?
Bk. Freya, N. 41° 31′, W. 49° 05′			72	22.2		ssw.			4		0			0	0	mod.	w.	fair.
S. Grecian, Hong Kong, China*†	29.75	755.6	83	28.3		sw.			3		3		sw.	1 h'r	1 h'r			clear.
Bk Hattie G. McFarland, N. 43° 30′ W. 64° 50′*†	30.18	766.6	52	11.1		nw.			1		2		nw.	0	0	sm'h	s.	clear.
S. Hedwig, N. 41° 51′, W. 25° 27′	30.27	768.8	67.1	19.5	91	nw.			3		8		nw.	4 h'r	4 h'r	long	nw.	
S. Ismir, S. 23° 20′ W 22° 37′†	30.15	765.8				nw.			6		10		nw.				nnw.	gloomy.
Schr. James Slater, Para, Brazil*†	30.22	767.6	80	26.7					2		2		ese.	2 h'r	2 h'r			
Schr. Jennie N. Huddell, Hallowell, Me†	30.25	768.3	68	20.0	84	nnw.			1					0	0			clear.
Schr. John L. Thomas, N. 15° 05′, W. 82° 47′*†	30.06	763.5				ne.			5		3		e.	0	0	light	e.	fine.
S. S. Lamperts, N. 18° 55′, E. 62° 01′*	29.59	751.6	82.5	28.1	80	wsw.			6		5 ks					6		raining.
Light House Tender, Laurel, Key West, Florida†	30.16	766.1	85	29.4		ese.			3		5		ese.	0	0			fair.
S. S. Malabar, N. 26° 39′, E. 122° 45′*†	29.69	754.1							3		5?		sw.	0	0			cloudy.?
S. M. P. Grace, N. 7° 12′, W. 30° 50′*	29.96	761.0	75	23.9		e to se			3				se.	sq'lls	sq'lls	con.		rainy.
S. S. Nebo, N. 46° 35′, W. 51° 30′*†	29.90	759.4				sse.			1		10			0	0	short	sw.	dense fog.
Bk. Orpheus, N. 39° 11′, W. 60° 05′	30.05	763.3	72	22.2		ne.			3		8 ks					sm'h	nnw.	hazy.
S. Paramita, S. 53° 52′, W. 86° 08′†	29.87	758.7	43	6.1		wto nw					6?		wsw.	hail	hail	long	wsw.	clear ?
Bk. Peppina, Newport, Eng†	29.75	755.6	57	13.9	93	ne.			2		10			rain	rain			heavy rain.
S. S. Ponca, S. 20° 05′, W. 38° 51′†	30.05	763.3	78	25.6		nne.			2		6		nw.	0	0	hv'y	se.	fair.
Bg. Potomac, N. 11° 16′, W. 56° 52′*†	29.90	759.4				e.			3				e.	0	0	sm'h	e.	fine.
Bk. Rosebud, S. 27° 08′, W. 14° 02*†	30.30	769.6	67	19.4	74	ene.			4		0			0	0	long	s.	fine.
S. Salisbury, S. 19° 04′, E. 105° 02′*	30.19	766.7	68.0	20.0	81	se.			6		5		se.	1 h'r	1 h'r	r'gh	sw.	fair.
S. S. Sunbeam, N. 51° 22′, W. 3° 18′	29.70	754.4	56	13.3	87	w.			3		10		w.					overcast.
Bg. Teneriffe, N. 23° 16′, W. 80° 56′	30.04	763.0				e.			1		2		e.	0	0	mod.		fine.
Bk. Truro, Havre, France*†	29.82	757.4				sw.			1		10		wsw.	0	0			misty.
U. S. F. C. S. S. FishHawk, Annapolis, Md.†	30.40	772.1	77	25.0	90	ne.			2		3		calm	0	0			clear.
Bk. Vincenzo Accame, N. 36° 46′ W. 25° —′†	30.59	777.0	73.4	23.0		n.			3									
Schr. Viola Reppard, Brunswick, Ga†	30.07	763.8	81	27.2		n.			1		8		ne.	4 h'r	4 h'r			cloudy.
Brt. Wandering Jew, Boston, Mass*†	30.12	765.0	72	22.2		wnw.			2		3		nw.	0	0			clear.
Bk Warden Law, N. 45° 52′, W. 17° 40′*	29.95	760.7				wnw.			4		4		wnw.	0	0	sm'h	nw.	fair.
Bg Wauburn, N. 32° 56′, W. 71° 46′*†	30.00	762.0				nnw.			4		4		n.	0	0	chop		
Bk Wm. Wilcox, S. 8° 15′, W. 34° 05′*†	30.20	767.1	77	25.0		sse.			3		10		s.	15 h'r	15 h'r	mod	s.	squally.
S' Wm. Woodbury, N. 36° 19′, W. 59° 03′*	29.97	761.2	76	24.4	100	n.			6		4		nw.				sw.	clear.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 23, 1882,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.95	760.6	76.5	24.7	83	ssw.			1		1			0	0	very fair	Moiroud.
Algiers			29.98	761.4	77.0	25.0	64	nne.			3		0			0	0	clear	Nicolas.
La Calle			29.97	761.2	77.0	25.0	61	ene.			1		2			0	0	fair	Fonfrède.
Tunis			30.01	762.2															Jacques.
Salda			30.07	763.8	84.9	29.4	30	sw.			2		1			0	0	very fair	Peres.
Tebessa			30.06	763.6	87.4	30.8	23	wnw.			3		3			0.606	15.4	pretty fair	Derché.
Geriville					91.0	32.8	6	ssw.			8		1			0	0	very fair	Louchamp.
Laghouat			30.08	763.9	92.8	33.8	41	s.			3		0			0	0	clear	Abraham.
Biskra			30.05	763.3	93.2	34.0	23	sw.			4		9			1.102	28.0	covered	Malau.
Australian.																			
Melbourne, Victoria	29.65	753.1	29.74	755.4	51.0	10.6	68	n.	26	11.6			2			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.46	748.2	29.98	761.6	75.9	24.4	33	ne.			3		7			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.26	743.1	30.01	762.3	63.0	17.2	83	nw.	4.3	1.9			10			0.130	3.3		Dr. Wierzbiski.
Eperies	29.07	738.4	29.93	760.1	66.6	19.2	58	nw.			1		10 ks			0	0		Julius Mikolik.
Gratz	28.78	731.1	29.99	761.7	72.1	22.3	66	nw.			3		3			0	0		Andreas Rospini.
Hermannstadt	28.57	725.7	29.97	761.2	65.1	18.4	73	w.			2		10			0.409	10.4	thnd'r storm	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.71	729.3	30.00	762.0	73.8	23.2	55	calm			0	3 c	0			0	0		The Staff.
Lemberg	28.97	735.7	29.96	761.0	65.5	18.6	63	nw.			2		10			0.252	6.4		Dr. T. Stanecki.
Pola	29.92	760.0	30.03	762.7	78.8	26.0	73	sse.			2		1			0	0		I. R. Hydrographic Office.
Szathmar	29.46	748.2	29.91	759.6	73.4	23.0	38	nw.			2		6			0.008	0.2		Joseph Midlinszky, S. J.
Szegedin	29.70	754.3	29.97	761.2	68.0	20.0	67	sw.			1		4			0	0		Kart Stancel.
Trieste	29.96	761.0	30.06	763.6	75.9	24.4	56	w.			1		0			0	0		Royal Academy.
Vienna	29.34	745.3	30.03	762.8	73.8	23.2	39	nnw.			1		2			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.61	752.1	29.71	754.6	51.2	10.7	98	ese.	6	2.7			10			0.150	3.8	rain & mist.	W. Boswell
Armagh, Observatory																			S. Gall.
Bidston, Liverpool Obs'y			29.78	756.4	58.2	14.6	67	ssw.	13	5.8			7					d. clouds	John Hartnup.
Bolton, Sharples	29.25	742.9	29.77	756.1	60.8	16.0	63	ssw.	12	5.4			4					d. clouds	Thomas Mackereth. A.S.
Bradford, Yorkshire	29.40	746.7	29.80	756.9	59.8	15.4	58	sw.			1		5			0.04	1.0	d. clouds	J. McLandsborough, F. R
Bridgetown, Barbadoes																			Corpl. J. Surgenor, A. H.C.
Cardington			29.85	758.2	63.0	17.2	77	sw.			0.4		9					overcast	John McLaren.
Chatham, School M. E.	29.80	756.9	29.93	760.2	64.5	18.1	55	sw.			3		6			blank	blank	d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.59	751.6	29.81	757.2	60.6	15.9	68	s.			4		6					d. clouds	The Staff.
Fort Napier, Natal	27.75	704.8	29.97	761.2	75.0	23.9	13	s.			2		1					blue sky	Pvt. Lane, A.H.C
Free Town, Sierra Leone	29.68	753.9	29.91	759.7	89.0	31.7	60	w.			2		3					raining	Sergt. John Robinson.
Gibraltar, Mediterranean	29.97	761.2	30.02	762.5	76.2	24.6	78	sw.			5		0					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.51	749.5	29.71	754.6	60.7	15.9	59	wsw.			2		6					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.72	754.9	29.89	759.2	65.9	18.8	56	ssw.			2		4					d. clouds	The Staff.
Guernsey	29.61	752.1	29.91	759.7	61.0	16.1	77	s.			1		8					drizzling	A. Collenette, F. M. S.
Kew, Observatory	29.86	758.4	29.89	759.2	64.2	17.9	57	sw.	19	8.5			9					d. clouds	The Staff.
Leicester, Museum	29.56	750.8	29.81	757.2	64.0	17.8	57	sw.			2		8					d. clouds	J. C. Smith.
Malta, Mediterranean	29.96	761.0	30.04	763.0	77.6	25.3	58	ne.			2		5					d. clouds	I. H. Whysall.
Nassau, Bahamas	30.14	765.5	30.19	766.8	82.5	28.1	78	e.			1		9					overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.31	744.5	29.83	757.7	56.8	13.8	76	sse.			3		6					showery	Warren Middleton.
Oxford, Radcliffe Obs'y	29.03	752.6	29.80	758.4	56.4	13.6	83	sw.			3		10					squally	The Staff.
Plymouth	29.76	755.9	29.83	757.7	61.2	16.2	74	s.			3		5					d. clouds	John Merrifield.
Sandwick Manse, Orkneys			29.81	757.2	54.8	12.7	77	e.	22	9.8			10					raining	Rev. C. Clouston, L. L.D
Scutari Cemetery, Turkey	29.82	757.4	29.89	759.2	82.8	28.2	53	nne.			2		1					blue sky	W. H. Lyne.
Sheffield	29.55	750.6	29.82	757.4	65.1	18.4	65	ssw.			1		6			0.03	0.8	d. clouds	W. F. Cooper.
Silloth Rectory	29.73	755.1	29.76	755.9	61.6	16.4	69	sw.			3		3			0.050	1.3	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.81	757.2	56.0	13.3	90	w.	11	4.9			7					d. clouds	J. New.
Stratfield Turgiss	29.57	751.1	29.88	758.9	63.3	17.4	60	sw.			3		7					d clouds	Rev. C.H. Griffiths, F.M.S
Truro, Royal Institution	29.78	756.4	29.80	756.9	61	16.1	70	sw.			6		10					raining	W. Newcombe.
Valencia, Observatory	29.59	751.6	29.62	752.3	57.6	14.2	74	ssw.	23	10.3			6			blank	blank	d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.98	761.5	30.02	762.5	61	16.1	49	w.	1	0.4		0	0			0.030	0.8	clear	H. J. Cundall, C. E.
Chatham, N. B*	29.96	761.0	30.02	762.5	59	15.0	72	calm	0	0		4 c	0	w.		0	0	fair	G. A. Blair.
Father Point, Quebec*	29.99	761.7	30.01	762.2	56	13.3	80	calm	0	0		8 c	0	nw.		0	0	cloudy	J. McWilliams.
Halifax, N. S*	29.94	760.5	30.07	763.8	67	19.4	55	sw.	2	0.9		0	0			0	0	clear	A. Allison.
Kingston, Ontario*	29.75	755.6	30.08	764.0	63	17.2	70	nw.	4	1.8		4 cs	0	w.		0	0	fair	A. P. Knight, M. A.
Montreal, Quebec*	29.86	758.4	30.06	763.5	68	20.0	47	sw.	16	7.2		5 c	0	nw.		0	0	fair	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.36	745.7	30.03	762.7	63	17.2	84	se.	2	0.9			10 n		sw.	0.16	4.1	heavy rain	Rev. R. Mosley.
Port Dover, Ontario	29.42	747.3	30.10	764.5	63	17.2	78	calm	0	0		10 k	0	w.		0	0	cloudy	H. Morgan.
Port Stanley, Ontario	29.46	748.3	30.09	764.3	66	18.9	84	w.	2	0.9			10 n		w.	0	0	cloudy	M. Payne.
Quebec, Quebec*	29.76	755.9	30.08	764.0	57	13.9	77	calm			0	0	2 s		w.	0	0	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.59	751.6	30.04	763.0	56	13.3	90	calm	0	0		10 cs	0	sw.		0	0	cloudy	W. H. McIntyre.
Saugeen, Ontario*	29.32	744.7	30.01	762.2	66	18.9	93	s.	12	5.4			10 s			0.43	10.9	cloudy	
St. Andrews, N. B	30.02	762.5	30.07	763.8	57	13.9	75	nw.	1	0.4		2 c	0	nw		0	0	clear	
Sydney, C. B*	29.91	759.7	29.97	761.2	58	14.4	56	w.	9	4.0		0	0			0	0	clear	T. C. Hill, C. E
Toronto, Ontario*	29.72	754.9	30.09	764.3	60	15.6	78	n.	1	0.4			10 ks		w.	0	0	cloudy	Magnetic Observatory.
Yarmouth, N. S*	30.03	762.7	30.09	764.3	57	13.9	83	calm	0	0		5 c	0	nw.		0	0	fair	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.71	729.2	30.14	765.5	60.0	15.6	94	calm			0		10 n			0.147	3.7	thnd'r storm	Wm. Wylie.
St. Johns, Newfoundland	29.89	759.2	30.14	765.5	58	14.4	76	sw.	3	1.3		0	0			0.20	5.1		John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.18	766.6	30.21	767.3	64.0	17.8	77	wsw.	12.1	5.4		8 cs	0			0	0	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	30.26	768.6	30.30	769.6	62.7	17.1	61	w.	7	3.1		4	8			0.160	4.1		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Chinese (*Sub-series*).																			
Hankow	29.64	752.8	29.92	760.0	71.7	22.1	88	n.			2		10			0	0	overcast	N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.59	751.5	29.61	752.1	74.7	23.7	96	ne.	0.7	0.3			10 n		ne.	0.272	6.9	covered	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	30.03	762.7	30.08	763.9	62.2	16.8	76	se.	16.8	7.5			10						Oversergent Fischer.
Fanöe	29.95	760.8	29.97	761.3	70.7	21.5	71	ese.			6		1						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	30.22	767.6	30.26	768.7	41.7	5.4	82	e.			4		8						A. O. Thorlacius.
Thorshavn	29.89	759.3	29.93	760.2	53.6	12.0	83	ene.	13	6			10						Overloerer Bergh.
Vestervig	29.92	759.9	30.01	762.2	66.4	19.1	78	e.			4		3						Loerarer Oesterbol.
French.																			
Agen, Normal School	29.34	745.2	29.97	761.3	72.0	22.2	61	calm			0		kn			0	0		M. Labroue, Director.
Alençon, Normal School	29.43	747.6	29.98	761.6	64.4	18.0	74	s.			1		kn			0.063	1.6		M. Nicot, Director.
Arras, Engineer School	29.77	756.1	30.02	762.5	63.9	17.7	59	s.			2		k		s.	0.327	8.3		M. Fénéon, Command't.
Avignon, Normal School	29.94	760.5	30.02	762.5	85.3	29.6	56	s.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.47	748.6	30.02	762.5	64.2	17.9	75	sw.			1		10			0.185	4.7	covered	M. Saillard, Director.
Beauvais, Normal School	29.72	755.0	29.98	761.6	70.3	21.3	49	sse.			2		8		ssw.	0.087	2.2	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.05	737.9	30.00	762.0	76.3	24.6	66	s.			3		k		n.	0	0		M. Gobin, Director.
Bordeaux, Observatory	29.72	754.9	29.98	761.4	62.6	17	69	nw.			1		10			0.004	0.1	covered	M. Rayet, Director.
Bourges, Normal School	29.47	748.4	30.00	762.1	64.0	17.8	62	e.			1		n		e.	0.020	0.5		M. Postel, Director.
Brest, Naval Observatory	29.67	753.7	29.91	759.8	63.7	17.6	68	ssw.			3		6		sw.	0.295	7.5		M. de Kermaree, Dir.
Caen, Normal School	29.85	758.1	29.92	760.0	67.3	19.6	56	ssw.			1		5		s.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.65	753.2	29.97	761.1	67.6	19.8	65	calm			0		10			0	0	covered	M. Jadot, Director.
Charleville, Normal School	29.47	748.5	29.97	761.1	71.2	21.8	53	s.			1		8			0.35	9.	¾ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.65	727.8	29.98	761.5	65.1	18.4	77	nnw.			1		10			0.228	5.8	covered	M. Alluard, Director.
Cluny, Normal School	29.15	740.5	29.97	761.3	75.9	24.4	65	sw.			2		4		ne.	0.228	5.8		M. de Villemontée, Dir.
Commercy, Normal School	29.17	740.9	30.01	762.3	71.4	21.9	66	w.			1		kn	w.	w.	0.303	7.7		Dr. Coulet, Director.
Gap, Normal School	27.69	703.2	30.13	765.2	76.1	24.5	36	w.			2	0	3 kn		w.	0	0		M. Jeanglrard, Director.
Grésque, du Rhone	28.94	735.1	30.00	762.1	83.8	28.8	29	sw.			2		1		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.21	742.0	29.54	760.5	78.4	25.8	56	wnw.			1	2 ck	0			0	0	slightly cl'dy	M. Ablard, Director.
Guéret, Normal School	28.41	721.7	30.00	762.0	61.7	16.5	85	sw.			1		10		n.	0.059	1.5	covered	M. Rivoire, Director.
Lamballe, Normal School	29.65	753.0	29.92	760.0	59.7	15.4	75	s.			2		5		s.	0.067	1.7	cloudy	M. Olitrault, Director.
Lescar, Normal School	29.33	745.0	29.88	758.9	72.0	22.2	56	wsw.			1		2			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	29.86	758.4	29.96	761.0	60.8	16.0	78	s.			2		10			0.236	6.0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.95	735.3	29.97	761.1	78.4	25.8	42	s.			2	c	1 n	s.		0.043	1.1	clear	M. André, Director.
Mans, Normal School	29.69	754.0	29.99	761.7	63.5	17.5	90	wsw.			3		5		sw.	0.008	0.2	cloudy	M. Piboen, Director.
Marseille, Observatory	29.78	756.5	30.05	763.2	78.6	25.9	35	s.			3		2		sw.	0	0		M. Stephan, Director.
Montlouis	24.88	632.0	29.72	755.0	66.2	19.0	43	sw.	3.8	1.7			6	w.		0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.91	759.6	30.03	762.8	75.9	24.4	59	s.			3		2		se.	0	0	slightly cld'y	M. Galzin, Director.
Nancy, Normal School	29.24	742.6	29.99	761.8	72.0	22.2	74	ssw.			1		kn		sw.	0.134	3.4		M. Hasse, Director
Nantes, Observatory	29.83	757.7	29.99	761.8	67.1	19.5	61	sw.			2–3		10k; kn		sw.	0.067	1.7		M. Larocque, Director.
Perpignan, Observatory	29.84	757.9	29.94	760.5	80.1	26.7	52	se.	9.4	4.2			1	w.	w.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.31	541.2			43.9	6.6		sw.			3–4		5		sw.	0	0	cloudy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.87	733.3	29.89	759.1	76.6	24.8	45						0			0	0	clear	M. Tailleu.
Puy de Dôme Obs'y, Summit	25.19	639.9			54.0	12.2	100	s.			3		10			0.260	6.6	foggy	M. Alluard, Director.
Rochefort, Naval Obs'y	29.97	761.2	30.00	762.0	59.0	15.0	91	ssw.			1		10		sw.	0.71	18.	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.75	755.6	29.96	761.0	59.0	15	82	sse.			2		5		se.	0.047	1.2	cloudy	M. Mouillot, Director.
Rodez, Normal School	28.11	713.9	30.19	766.8	70.9	21.6	63	se.			1		kn		w.	0.161	4.1		M. Seger, Director.
Rouen, Normal School	29.92	760.0	29.97	761.2	66.2	19	60	s.			1		10	sw.		0.110	2.8	covered	M. Brotier.
Saint Maur, Observatory	29.84	758.0	30.01	762.2	62.4	16.9	65	sse.			1		10		ssw.	0.031	0.8		M. Renou, Director.
Toulouse, Observatory	29.32	744.6	30.04	763.0	71.6	22.0	79	s.			1		10	ese.		0	0	covered	M. Baillaud, Director.
Tours	29.84	757.8	30.01	762.3	63.7	17.6	72	sw.			1		10		sw.	0.063	1.6	raining	M. de Tastes.
Versailles, Observatory	29.51	749.6	30.00	762.1	64.0	17.8	56	sw.			1					0.028	0.7		Dr. A. Bergny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.72	754.8	30.01	762.2	60.6	15.9	65	ssw.			2		10		sw.	0.004	0.1		M. Marié Davy, Director
German.																			
Bamberg	29.19	741.3	30.04	763.0	76.3	24.6	55	w.			1	0	2 s			0	0		Prof. Dr. Hoh.
Berlin	29.96	760.9	30.13	765.2	78.4	25.8	32	se.			2		6			0	0		Prof. Dr. Arndt.
Breslau	29.55	750.5	30.08	764.0	73.2	22.9	47	nne.			2		4			0	0		Royal University Obs'y.
Carlsruhe	29.59	751.5	30.01	762.2	76.6	24.8	61	ne.			1		9	sw.		0	0		Albert Senz.
Cassel	29.26	743.2	29.97	761.3	81.3	27.4	49	sw.			1		4	sw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.65	753.0	29.99	761.8	79.0	26.1	58	ssw.			1		8			0	0		Physical Society.
Friedrichshafen	28.60	726.5	29.98	761.6	73.0	22.8	67	sw.			2		3	w.		0	0		Wilhelm, Chief Tel.
Hamburg	29.89	759.1	29.98	761.5	77.0	25.0	41	sse.			3		5			0	0		E. Preller.
Kiel	29.97	761.3	29.99	761.7	71.6	22.0	64	se.			2		1			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.61	752.0	30.01	762.2	79.3	26.3	41	se.			2		1			0	0		H. Leppig, Asst.
Magdeburg	29.80	757.0	29.98	761.6	80.6	27.0	35	s.			1	0	c			0	0		Dr. Assmann.
Memel	30.11	764.7	30.15	765.9	74.1	23.4	35	e.			3	0	0					clear	Issermann.
Munich	28.24	717.4	30.11	764.8	76.1	24.5	49	calm			0		6		sw.	0	0		Central Station.
Neufahrwasser	30.10	764.5	30.11	764.9	63.0	17.2	78	n.			2		8			0	0		A. Lothes.
Neustadt, Palatinate	29.45	748.0	29.97	761.3	77.0	25	48	w.			2		5	w.		0	0		Dicknether.
Stuttgart	29.08	738.5	29.93	760.1	77.4	25.2	50	e.			1		4	w.		0	0		Prof. Dr. Schoder.
Wustrow	30.05	763.3	30.08	763.9	72.0	22.2	89	ene.			3	0	3 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.58	751.4			83.1	28.4		sw.			1.5		0			0	0	clear	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.55	750.5	29.60	751.8	88.9	31.6	69	wsw.	34.0	15.2			8		w.			drizzling	
Deesa	29.08	738.8	29.54	750.4	91.8	33.2	52	sw.	21.0	9.4			8	wsw.	wsw.	0.060	1.5	misty	
Bombay	29.74	755.3	29.78	756.3	83.7	28.7	80	wsw.	22.0	9.8			4		sw.	0.27	6.9	d. clouds	
Poona, Yarrowda	27.92	709.2	29.78	756.3	77.6	25.3	69	wsw.	24.0	10.7			10		sw.	0.02	0.5	overcast	
Trichinopoly	29.51	749.6	29.79	756.7	88.5	31.4	48	wnw.	1.0	0.4			10			0	0	overcast	
Bellary	28.27	718.1	29.70	754.4	93.8	34.3	27	w.	11.7	5.2			7			0	0	d. clouds	
Belgaum	27.27	692.6	29.83	757.6	70.9	21.6	88	wsw.	9.0	4.0			7	e.	sw.	0.03	0.8	showery	
Lahore	28.68	728.4	29.38	746.2	101.2	38.4	34	w.	3.4	1.5			5			0	0	misty	
Roorkee	28.57	725.6	29.44	747.7	89.4	31.9	48	sw.	2.2	1.0			0			0	0	misty	
Agra	28.90	734.1	29.44	747.8	100.1	37.8	37	w.	5.5	2.5			2		w.	0	0	d. cloud s	
Nagpur	28.58	726.0	29.60	751.7	90.7	32.6	43	nw.	5.2	2.3			8		w.	0.02	0.5	d. clouds	
Jubbulpore	28.29	718.6	29.64	752.7	81.6	27.6	69	w.	6.1	2.7			8	n.		0	0	gloomy	
Lucknow	29.09	738.8	29.45	748.0	93.0	33.9	48	sw.	15.0	6.7			0			0	0	blue sky	
Allahabad	29.20	741.5	29.50	749.2	92.5	33.6	53	w	6.4	2.9			6	sw.		0	0	d. clouds	
Patna	29.32	744.6	29.49	749.1	94.5	34.7	46	wnw.	6.1	2.7			6	wnw.	wnw.	0	0	d. clouds	
Hazaribagh	27.57	700.4	29.52	749.8	89.8	32.1	40	w.	12.4	5.5			5			0	0		
Cuttack	29.51	749.5	29.59	751.5	93.6	34.2	53	calm	0.2	0.1			8			0	0	d. clouds	
Calcutta, Alipore	29.52	749.7	29.54	750.2	89.1	31.7	79	wnw.	1.0	0.4			10			0	0	overcast	
Dhubri	29.38	746.1	29.48	748.9	81.0	27.2	88	s.	4.3	1.9			6			0.31	7.9	d. cloudy	
Chittagong	29.52	749.7	29.61	752.3	78.5	25.7	87	se.	5.2	2.3			10			0	0	overcast	
Sibsagar	29.20	741.8	29.54	750.2	77.9	25.5	95	ene.	3.9	1.7			10	w.	w.	1.24	31.5	d. clouds	
Jeypore	28.09	713.5	29.47	748.6	97.9	36.6	32	w.	5.4	2.4			3		w.	0	0	d. clouds	
Zanzibar, Africa	30.08	764.0			83.0	28.3	64	s.	8.7	3.9			7		se.	0	0	d. clouds	
Italian.																			
Udine	29.64	752.9	30.04	762.9	78.4	25.8	62	w.	1.3	0.6			2			0.012	0.3		Prof. Giovanni Clodig.
Milan	29.54	750.4	30.04	763.0	80.2	26.8	43	sw.	4.3	1.9			3	nw.		0	0		Prof. Schiaparelli.
Padua	29.92	760.0	30.03	762.7	78.1	25.6	48	ssw.	2.5	1.1			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.13	740.0	30.00	762.1	80.1	26.7	41	sse.	2.5	1.1			6	nw.		0	0		Prof. P. F. Denza.
Genoa	29.91	759.7	30.10	764.4	71.6	22.0	66	sw.	3.8	1.7			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.16	715.2	29.99	761.8	76.8	24.9	41	nnw.			2		0			0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Pesaro	29.94	760.4	29.98	761.6	73.0	22.8	66	ene.	6.9	3.1			0			0	0		Prof. Luigi Guidi.
Florence	29.80	757.0	30.05	763.3	79.2	26.2	44	W.			2		0			0	0		Prof. Costantino Pitter
Leghorn	29.93	760.3	30.02	762.4	74.8	23.8	66	wnw.	0.7	0.3			3			0	0		Prof. P. Monte.
Rome	29.88	758.9	30.05	763.2	81.3	27.4	38	wsw.	3.1	1.4			0			0	0		Prof. P. S. Ferrari.
Lecce	29.76	755.9	30.00	762.1	83.8	28.8	34	nw.	9.8	4.4			2			0	0		Prof. C. de Giorgi.
Cosenza	29.15	740.4	30.00	762.1	80.2	26.8	72	se.	3.8	1.7			3	e.		0	0		Prof. D. Conti.
Cagliari	29.82	757.5	30.01	762.3	76.3	24.6	57	se.			6		0			0	0		Prof. A. Pacinotti.
Palermo	29.84	757.8	30.08	764.0	75.4	24.1	65	ne	6.3	2.8			2			0	0		Prof. G. Giacciatore.
Syracuse	29.95	760.6	29.99	761.7	83.3	28.5	67	s.	0.7	0.3			0			0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.69	754.2	30.21	767.2	77.7	25.4	66	sw.	3.8	1.7			1	n.		0	0		Prof. T. Brioschi.
Stelvio	22.35	567.7			50.9	10.5	57	e.			1		10			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.38	568.4			50.2	10.1	79	e.			2		10			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.66	753.3	29.70	754.4	57.0	13.9	81	w.	14.6	6.5			10 ks		w.	0	0	overcast	K. Ogawa.
Hakodate	29.66	753.3	29.67	753.6	56.0	13.3	76	wnw.	22.2	9.9			9			0	0	cloudy	
Hiroshima, I. M. Obs'y	29.58	751.3	29.59	751.6	69.6	20.9	95	nne.	3.2	1.4			10 n			1.766	44.9	light rain	I. Sogawa.
Kanazawa	29.79	756.6	29.89	759.2	64.1	17.8	84	ese.	10.5	4.6		ck	10ks;s			0	0	overcast	S. Endo.
Kioto	29.49	749.0	29.66	753.3	72.2	22.3	89	ssw.	1.3	0.6			10 s			0.073	1.8	cloudy	M. Tojima.
Kochi	29.65	753.1	29.67	753.6	69.9	21.1	93	w.	3.1	1.4			10 s		w.	2.628	66.8	cloudy	K. Kusunose.
Nagasaki, I. M. Obs'y	29.41	747.0	29.61	752.1	73.6	23.1	97	sw.	12.2	5.4			10 n			0.280	7.1	light rain	S. Takehayashi.
Nemuro	29.51	749.5	29.57	751.1	50.9	10.5	93	ne.	15.0	6.7		10	0					rainy	
Niigata	29.71	754.6	29.74	755.4	63.1	17.3	79	ne.	2.5	1.1		7 ck	3 s			0	0	cloudy	M. Morita.
Nobiru	29.66	753.3	29.67	753.6	63.8	17.7	76	nnw.	9.3	4.2		ck	3 s			0	0	fair	H. Midzushima.
Supporo					52.0	11.1	93	nw.	6.0	2.7			10			0.370	9.4	covered	
Tokei Obs'y, Yeddo	29.60	751.8	29.66	753.3	71.6	22.0	81	s.	4.8	2.1		6 c;cs	1 s			0	0	cloudy	The Staff.
Wakayama	29.61	752.1	29.66	753.3	70.9	21.6	93	calm	0	0			10 n			0.784	19.9	light rain	Y. Kuwamura.
MAURITIUS																			
Mauritius Observatory	30.02	762.5	30.21	767.3	73.3	22.9	68	se.	17.5	7.8		0	3 ks;n		ese.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.74	602.8	29.96	760.8	58.1	14.5	78	e.	6.9	3.2		3 c	1 k	e.	e.	0	0	clear	Prof. Vicente Fernandez.
Leon	24.38	619.2	30.04	763.0	59.9	15.5	78	wnw.			1	2 c	1 p,s	n.	n.	0	0	clear	Prof. M. Leal.
Mazatlan	29.72	754.9	29.98	761.4	79.0	26.1	82	e.	1.6	0.8		4 cs	2 n	e.	e.	inap.	inap.	fair	F. Quijano, C. E.
Mexico, Central Obs'y	23.18	588.7	30.27	768.9	48.6	9.2	79	nw.	1.1	0.5		2 c	2 ks			0	0	½ clouded	The Staff.
Morelia	24.20	614.6	30.26	768.6	60.1	15.6	59	s.			3	2	4	s.	e.	0.335	8.5	½ clouded	M. Tena, M. D.
Pabellon, Aguascalientes																			M. V. de Leon, M. E
Puebla, Catholic Institute	23.47	596.0	30.21	767.3	53.5	12.0	84	calm	0	0		0	0			0.039	1.0	clear	Prof. P. Spina.
San Luis Potosi	24.35	618.5	30.32	770.1	61.8	16.6	67	e.				0	5		e.	0	0	½ cloudy	G. Barroeta, M. D.
Zacatecas	22.66	575.5	30.28	769.2	53.2	12.0	89	ene.	9.9	4.3			10			0	0	gloomy	J. A. Bonilla, M. E
NETHERLANDS.																			
Flushing	30.00	761.9	30.00	761.9	65.1	18.4		wnw.			2					0.209	5.3		
Groningen	29.94	760.4	29.99	761.8	67.8	19.9		wsw.			1					0	0		
Helder	29.98	761.4	29.98	761.4	61.7	16.5		sw.			3					0.217	5.5		
Hellevoetsluis	30.00	761.9	30.00	761.9	66.7	19.3	64	w.			1					0.087	2.2		
Utrecht	29.96	761.0	30.01	762.2	69.3	20.7	58	sw.			1		5			0.260	6.6	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.92	759.9	29.98	761.5	67.3	19.6	58	nw.	4	2			6			0.039	1.0		
Brono	30.20	767.1	30.24	768.1	73.9	23.3	36	se.	9	4			9			0	0		
Christiania	30.02	762.4	30.16	766.1	62.4	16.9	81	ene.	13	6			10			0.146	3.7		
Gjesvær	30.31	769.8	30.33	770.4	59.7	15.4		calm			0		1						
Lodingen	30.30	769.5	30.34	770.7	69.6	20.9	45	calm			0		0			0	0		
PORTUGUESE.																			
Angra, Azores					69.8	21.0	68	wnw.	11.9	5.3			3			0	0		
Campo Major	29.02	737.1	29.99	761.8	73.8	23.2	34	wnw.	9.8	4.4			0			0	0		Dr. J. A. Sampaio.
Funchal, Maderia	30.11	764.8	30.20	767.0	71.1	21.7	68	sw.	3.8	1.7			6			0	0		Dr. A. M. R. dos Santos.
Lisbon, Observatory	29.74	755.4	30.10	764.4	66.7	19.3	50	nw.	7.4	3.3			0			0	0		Capt. D. A. de Cunha.
Ponta Delgada, Azores	30.21	767.2	30.28	769.0	73.4	23.0	60	wnw.	12.5	5.6			4	n.		0	0		The Staff.
Saint Paul de Loando	29.83	757.7	30.04	762.9	69.4	20.8	98	nne.	0.7	0.3			10			0	0		
Serra da Estrella	25.38	644.7	30.04	762.9	57.2	14.0	30	wnw.	6.9	3.1			1			0	0		
RUSSIAN.																			
Akmolinski	28.50	723.9	29.51	749.6	77.0	25.0	37	wnw.	9	4		0	8 kn			0.008	0.2		
Archangel	30.34	770.7	30.36	771.2	59.9	15.5	71	wnw.	13	6		0	0			0	0		Major K. Lasarew.
Astrakhan	29.91	759.7	29.83	757.6	90.0	32.2	27	wsw.	11	5		0	4 k			0	0		Capt. Sseliwerstow.
Barnaul	29.12	739.6	29.59	751.5	76.1	24.5	55	s.	9	4			0			0.197	5.0	light clouds	Capt. Wisganow.
Dorpat	30.04	763.0	30.28	769.0	70.5	21.4	40	ene.	13	6		1 c	0			0	0	light clouds	Meteorological Obs'y.
Ekaterinburg	28.94	735.0	29.90	759.4	51.4	10.8	89	ne.	4	2			10			0.059	1.5	raining	Observatory.
Irkutsk	28.25	717.6	29.84	758.0	63.5	17.5		calm	0	0			8			0	0		Meteorological Obs'y.
Kasan	29.55	750.6	29.81	757.2	66.7	19.3	39	ne.	18	8		0	8 k			blank	blank		Observatory.
Kertch	29.89	759.2	29.91	759.7	75.2	24.0	62	sse.	9	4		0	1 k			0	0		Lagorio & Sastyrez.
Kieff	29.26	743.2	29.88	758.9	64.4	18.0	67	wnw.	9	4		ck	5 ks			0	0		Observatory.
Lugan	29.59	751.6	29.79	756.6	78.3	25.7	37	w.	34	15			4			0	0		Meteorological Obs'y
Moscow	29.57	751.0	30.04	762.9	59.2	15.1	51	n.	7.8	3.5			8 ks						Meteorological Obs'y.
Nikolaiev	29.84	757.9	29.91	759.7	73.4	23.0	81	sw.	9	4		0	8 kn			0.118	3.0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.81	757.2	29.90	759.4	46.6	8.1	89	calm	0	0			10			0.008	0.2		Lieut. Iwanow.
Pekin, China	29.52	749.8	29.66	753.4	77.2	25.1	71	calm	0	0		0	8 n			0.098	2.5	thun'rst'rm	Physical Observatory
St. Petersburg	30.30	769.7	30.32	770.1	66.9	19.4	34	ne.	11	5		2cs;ck	0			0	0		Central Physical Obs'y
Semipalatinsk	28.97	735.7	29.56	750.9	90.0	32.2	30	wsw.	7	3		0	7			0	0		Major Lasarew.
Tashkend, Laboratory	28.19	716.0	29.64	752.9	90.1	32.3	38	calm	0	0			0						Teich, A. M.
Tiflis	28.34	724.9	29.87	758.8	86.5	30.3	35	s.	4	2			4 k			0	0		Physical Observatory
Vladivostock	29.69	754.2			55.0	12.8	97	se.	22	10		0	10 n						
Warsaw	29.58	751.2	29.98	761.6	67.3	19.6	77	e.	11	5			10 ks						Astronomical Obs'y
Wilna	29.48	748.9	29.89	759.1	70.9	21.6	43	ne.	16	7			1			0.362	9.2		Berg, Assistant.
SPANISH.																			
Barcelona, Met. Obs'y	29.87	758.7	29.97	761.3	76.1	24.5	67	e.	3.6	1.6			0			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.95	760.7	30.01	762.2	64.0	17.8	76	nw.	2.0	0.9			10			0	0	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.07	687.5	29.92	759.9	71.4	21.9	49	se.	9.4	4.2			4			0	0	light clouds	Domingo Martin.
Madrid, Royal Obs'y	27.76	705.0	29.87	758.8	79.9	26.6	33	sw.	16.8	7.5		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.83	757.7	29.97	761.1	84.2	29.0	52	ese.	4.9	2.2		2	4	ne.		0	0	clouds	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.08	738.5	29.97	761.1	60.6	15.9	73	sw	8.1	3.6			10			0.059	1.5	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	30.02	762.5	30.08	764.1	79.3	26.3	81	calm	0	0		2 c;cs	0	n.		0.028	0.7	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.83	757.7	29.89	759.2	85.6	29.8	76	nnw.	11.0	4.9			9 kn		se.	0	0	threatening	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.93	760.2	30.03	762.7	75.7	24.3	64	w.	10.3	4.6		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.00	762.1	30.10	764.4	81.3	27.4	82	se.	8.1	3.6		5 cs	2 kn	se.	se.	0.098	2.5	d. clouds	Manuel Maese.
Tuguegarao, Philippine Id's	29.74	755.4	29.87	758.7	81.9	27.7	81	ne.	2.9	1.3		1 ck	0	e.		0.01	0.3	clear	José L. Yrastorza.
SWEDISH.																			
Haparanda	30.39	771.9	30.43	772.9	73.0	22.8	50	s.			2		0			0	0		
Umea	30.37	771.5	30.43	772.8	77.0	25.0	36	sw.			2		5			0	0		
Hernosand	30.35	771.0	30.41	772.3	65.1	18.4	54	e.			2		8			0	0		
Stockholm	30.12	765.0	30.30	769.5	68.7	20.4	41	ene.			7		0			0.008	0.2		
Wisby	30.08	764.0	30.14	765.5	71.6	22.0	43	ese.			6		0			0	0		
Sub-series.																			
Upsala	30.19	766.9	30.28	769.1	72.1	22.3	35	ese.	12.1	5.4			1			0	0		S. G. Fineman.
SWISS.																			
Geneva	28.61	726.6	29.97	761.1	78.3	25.7	48	wsw.			3					0	0	cloudy	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
SCOTTISH.																			
Monach Lt			29.66	753.4	59	15.0	93	s.			0.4	3	0	sse.		0.2	5.	clear	J. Youngclause.
North Unst			29.91	759.7				se.			6		10			blank	blank		
TURKISH.																			
Constantinople			29.97	761.2	77.0	25.0	51	n.	10	4.5			1		ne.	0	0		The Observatory.
Valona			30.11	764.9	82.8	28.2		sw.			2		2			0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.91	759.8	81.9	27.7	64	wsw.			2	0	2 s		sw.	0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.06	763.5	30.14	765.5	67	19.4	68	w.	2	0.9		5 cs	sk.			0	0	fair	J. O. Barnes.
Alpena, Michigan	29.39	746.5	30.04	763.0	70	21.1	79	nw.	2	0.9		0	5 s		w.	0.02	0.5	fair	Jas. J. Fitzgerald.
Atlanta, Georgia	28.99	736.3	30.14	765.5	73.0	22.8	90	ne.	3	1.3		0	0			0.07	1.8	clear	H. Hall.
Atlantic City, New Jersey	30.17	766.3	30.18	766.6	67.3	19.6	87	s.	6	2.7		2 cs	hz.			0	0	clear	Jas. M. Watson.
Augusta, Georgia	29.98	761.5	30.17	766.3	76	24.4	88	e.	4	1.8		0	0			0.36	9.1	clear	John Healy.
Baltimore, Maryland	30.13	765.3	30.18	766.6	73	22.8	76	sw.	4	1.8		1 ck	hz.	w.		0	0	clear	Robert Seyboth.
Barnegat, New Jersey	30.16	766.1	30.18	766.6	72.0	22.2	73	s.	4	1.8		5 cs	0			0	0	fair	Chas. F. Merritt.
Behring Island, Behring Sea	29.90	759.4	29.92	760.0	42.0	5.6		ne.	16	7.2			10 k			inap.	inap.	cloudy	Dr. L. Steineger.
Bismarck, Dakota	28.12	714.2	29.87	758.7	59	15.0	67	se.	4	1.8		1 c	8 s		sw.	0	0	threatening	Cyrus Cramer.
Boise City, Idaho	27.12	688.8	29.90	759.4	46	7.8	76	w.	2	0.9		0	4 s		calm	inap.	inap.	fair	B. E. Light.
Boston, Massachusetts	29.98	761.5	30.13	765.3	72.0	22.2	51	calm	0	0		5 c	hz.			0	0	dense haze.	O. B. Cole.
Brownsville, Texas	30.02	762.5	30.06	763.5	81.3	27.4	85	se.	3	1.3		0	0			0	0	clear	M. McCarty.
Buffalo, New York	29.35	745.5	30.09	764.3	68	20.0	60	calm	0	0		4ck;cs	4 s	w.	w.	0	0	cloudy	Wm. Finn.
Burlington, Vermont	29.82	757.4	30.11	764.8	63.7	17.6	69	s.	7	3.1		9 cs	0	w.		0	0	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.76	755.9	30.16	766.1	76.8	24.9	83	ne.	6	2.7		2 ck	0	nw.		0	0	clear	W. H. Ray.
Campo, California	27.40	695.9	29.88	758.9	34	1.1	88	s.	3	1.3		0	0			0	0	clear	W. H. Glendenon.
Camp Thomas, Arizona	27.19	690.6	29.82	757.4	58	14.4	49	calm			0	0	0			0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.19	766.8	30.21	767.3	75	23.9	82	se.	9	4.0		0	2 k;hz			0	0	clear	A. K. Alderson.
Cape May, New Jersey	30.15	765.8	30.18	766.6	69	20.6	84	s.	9	4.0			10 ks		sw.	0	0	cloudy	W. Bolton.
Cedar Keys, Florida	30.13	765.3	30.15	765.8	79	26.1	88	n.	6	2.7		6 ck	1 ks	nw.	w.	0.01	0.3	fair	F. W. Mixer.
Champaign, Illinois	29.28	743.7	30.07	763.8	71.7	22.1	71	ne.	10	4.5			9 s		n.	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.08	764.0	30.13	765.3	76	24.4	90	n.	6	2.7			10s;fg			0.03	0.8	threatening.	J. H. Smith.
Charlotte, N. Carolina	29.30	744.2	30.13	765.3	77.0	25.0	74	s.	2	0.9		0	hz.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.36	745.7	30.17	766.3	75.0	23.9	85	calm	0	0		1 cs	0			inap.	inap.	clear	B. L. Goulding.
Cheyenne, Wyoming	24.09	611.9	29.83	757.7	60.2	15.7	84	sw.	4	1.8		0	3 s;fg		sw.	0	0	fair	E. McGovern.
Chicago, Illinois	29.37	746.0	30.06	763.5	70.6	21.4	85	ne.	4	1.8		10 k	fg.	w.		inap.	inap.	cloudy	J. Mitchell.
Chincoteague, Virginia	30.17	766.3	30.19	766.8	72	22.2	84	s.	11	4.9		3 k	6 s	n.	s.	0	0	cloudy	V. P. Temple.
Cincinnati, Ohio	29.46	748.3	30.11	764.8	75	23.9	88	se.	3	1.3		0	0			0	0	clear	R. B. Watkins.
Cleveland, Ohio	29.42	747.3	30.15	765.8	68.7	20.4	82	n.	10	4.5			10 n		w.	0.01	0.3	light rain	J. B. Newlin.
Coleman City, Texas	28.30	718.8	30.04	763.0	74	23.3	88	s.	8	3.6		0	6 s		s.	0	0	fair	L. Dorman.
Columbus, Ohio	29.26	743.2	30.10	764.5	73	22.8	79	sw.	4	1.8		0	5 k		sw.	0.03	0.8	fair	D. Cuthbertson.
Concho, Texas	28.17	715.5	30.04	763.0	70	24.4	88	s.	12	5.4		6 k	0	s.		0	0	fair	W. W. McConihe.
Davenport, Iowa	29.41	747.0	30.05	763.3	69	20.6	90	sw.	2	0.9			10 s		sw.	0.88	22.4	cloudy	R. R. Martin.
Dayton, Washington T'y	28.33	719.6	30.07	763.8	45.7	7.6	87	calm	0	0		3 k	0	n.		0	0	clear	H. Clifford.
Deadwood, Dakota	25.29	642.4	29.72	754.9	62	16.7	78	sw.	12	5.4		0	0			0	0	clear	G. W. Scott.
Decatur, Texas																			D. J. Carr.
Delaware Breakwater, Del	30.16	766.1	30.18	766.6	71	21.7	90	sw.	4	1.8		6 ck	0	sw.		0	0	fair	F. C. Pratz.
Denison, Texas	29.29	744.0	30.07	763.8	77.3	25.2	82	s.	6	2.7		0	0			0	0	clear	J. McGlone.
Denver, Colorado	24.76	628.9	29.80	756.9	58.3	14.6	74	s.	5	2.2		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.13	739.9	30.01	762.2	70	21.1	79	sw.	12	5.4			10 s		sw.	1.92	48.8	cloudy	F. W. Conrad.
Detroit, Michigan	29.34	745.2	30.03	762.7	67.0	19.4	90	e.	11	4.9			10 s		e.	0.38	9.7	cloudy	O. F. R. Wappenhans.
Dodge City, Kansas	27.38	695.4	29.90	759.4	73	22.8	76	s.	5	2.2		3 cs	0			0	0	clear	E. A. Thomas.
Dubuque, Iowa	29.33	745.0	30.02	762.5	67.7	19.8	91	s.	1	0.4		1 c	3 ks	w.	sw.	0.66	16.8	fair	J. Harvey Smith.
Duluth, Minnesota	29.34	745.2	30.03	762.7	53	11.7	86	calm	0	0		0	0			0.32	8.1	clear	N. B. Conger.
Eagle Pass, Texas	29.28	743.7	30.08	764.0	78.0	25.6	82	se.	5	2.2		0	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.25	641.3	29.84	757.9	49	9.4	48	s.	2	0.9		6 cs	1 k	s.	s.	0	0	fair	J. M. Clifford.
Eastport, Maine	30.00	762.0	30.07	763.8	59.0	15.0	60	calm	0	0		6 c	hz.			0	0	fair	D. C. Murphy.
El Paso, Texas	26.26	667.0	29.85	758.2	70	21.1	62	e.	3	1.3		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.37	746.0	30.09	764.3	73	22.8	66	s.	3	1.3		5 c	0			0	0	fair	Peter Wood.
Escanaba, Michigan	29.39	746.5	30.04	763.0	64	17.8	90	calm	0	0		6 k	3 s	w.		0.36	9.1	cloudy	C. Dill.
Fort Apache, Arizona	25.06	636.5	29.80	756.9	52	11.1	47	ne.	4	1.8		0	0			0	0	clear	W. O. Barnes.
Fort Assinnaboine, Montana	27.14	689.3	29.94	760.5	53	11.7	61	sw.	5	2.2		2 c	0	sw.		0	0	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.36	720.3	29.90	759.4	60	15.6	93	se.	14	6.3		3 k	2 s	se.	se.	inap.	inap.	fair	A. Pritchard.
Fort Benton, Montana	27.18	690.4	29.94	760.5	50	10.0	80	calm	0	0		0	0			0	0	clear	G. W. Davis.
Fort Buford, Dakota	27.99	710.9	29.95	760.7	53	11.7	74	w.	1	0.4			10 s		calm	0	0	cloudy	A. H. Bell.
Fort Custer, Montana	26.81	681.0	29.87	758.7	56	13.3	86	nw.	4	1.8		0	6 s		calm	0	0	fair	V. Verge.
Fort Davis, Texas	25.24	641.1	29.85	758.2	71	21.7	73	s.	3	1.3		0	0			0	0	clear	J. Williams.
Fort Elliott, Texas	27.24	691.9	29.91	759.7	71	21.7	70	s.	8	3.6		3 c	0	s.		0	0	clear	W. J. Cundall.
Fort Grant, Arizona	25.25	641.3	29.79	756.7	66.4	19.1	20	se.	4	1.8		0	0			0	0	clear	Robert C. Lord.
Fort Keogh, Montana	27.40	695.9	29.84	757.9	58	14.4	44	nw.	14	6.3		0	0			0	0	clear	W. B. Stockman.
Fort Macon, North Carolina	30.17	766.3	30.18	766.6	77	25.0	85	se.	8	3.6		1 k	hz.	calm	calm	0	0	clear	W. W. Thomas.
Fort McKavett, Texas	27.86	707.6	30.06	763.5	74	23.3	82	s.	10	4.5		0	0			0	0	clear	J. E. Thatcher.
Fort Missoula, Montana	26.76	679.7	30.02	762.5	45	7.2	100	ne.	2	0.9		8 k	0	n.		0.10	2.5	cloudy	J. H. Jones.
Fort St. Michaels, Alaska	29.85	758.2	29.88	758.9	58	14.4	94	ne.	9	4.0			10 s			c.02	0.5	cloudy	A. P. Leavitt.
Fort Shaw, Montana	26.35	669.3	29.92	760.0	45	7.2	76	w.	7	3.1		0	0			inap.	inap.	clear	A. L. Mathews.
Fort Sill, Indian Territory	28.84	732.5	30.04	763.0	76.5	24.7	80	calm	0	0		0	0			0	0	clear	T. Cleary.
Fort Smith, Arkansas	29.61	752.1	30.07	763.8	76.5	24.7	85	ne.	2	0.9		0	0			0	0	clear	J. B. Campbell.
Fort Stevenson, Dakota	28.04	712.2	29.84	757.9	53	11.7	93	ne.	3	1.3			10 ks			0	0	cloudy	W. Burrows
Fort Verde, Arizona					58.7	14.8	37	s.			1	0	0			0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.46	621.3	29.84	757.9	46.0	7.8	63	ne.	4	1.8		0	0			0	0	clear	T. M. Ambler.
Fredericksburg, Texas	28.36	720.3	30.04	763.0	73	22.8	84	sw.	6	2.7		0	0			0	0	clear	H. S. Miles.
Galveston, Texas	30.07	763.8	30.12	765.0	81	27.2	85	sw.	4	1.8		3 cs	0			0	0	clear	E. O'C. MacInerney.
Grand Haven, Michigan	29.40	746.7	30.05	763.3	70.5	21.4	68	s.	7	3.1		0	0			0.04	1.0	clear	W. A. Reid.
Hatteras, North Carolina	30.19	766.8	30.21	767.3	77	25.0	74	se.	8	3.6		hz.	0			0	0	clear	R. M. Crawford.
Helena, Montana	25.78	654.8	29.94	760.5	45	7.2	70	w.	2	0.9		2 k	0			0.02	0.5	clear	S. Wheaton.
Henrietta, Texas	29.09	738.9	30.07	763.8	82.0	27.8	67	calm	0	0		0	0			0	0	clear	J. W. Byram.
Huron, Dakota	28.65	727.7	29.99	761.7	59.1	15.1	81	se.	7	3.1			10 ks		se.	0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.30	744.2	30.08	764.0	77	25.0	69	w.	2	0.9		1 c	hz.	calm	calm	0	0	clear	O. Schutze
Indianola, Texas	30.08	764.0	30.12	765.0	79.1	26.2	88	se.	5	2.2		2 cs	2 k	ne.	s.	0	0	fair	I. A. Reed.
Jacksboro, Texas	28.90	734.0	30.02	762.5	77	25.0	82	s.	3	1.3		0	0			0	0	clear	J. P. Sherry.
Jacksonville, Florida	30.09	764.3	30.13	765.3	79	26.1	77	calm	0	0		4 cs	0	nw.		0.25	6.3	fair	J. W. Smith.
Keokuk, Iowa	29.41	747.0	30.05	763.3	71.0	21.7	90	w.	6	2.7		0	6 k		w.	0.49	12.4	fair	F. Z. Gosewisch
Key West, Florida	30.09	764.3	30.11	764.8	84.0	28.9	72	e.	4	1.8		0	5 ks		e.	0.01	0.3	fair	R. H. Paxton.
Kittyhawk, North Carolina	30.20	767.1	30.22	767.6	72	22.2	84	s.	11	4.9		3k;hz	0	s.		0	0	clear	E. A. Beals.
Knoxville, Tennessee	29.15	740.4	30.16	766.1	75.2	24.0	84	ne.	3	1.3		2 c	0			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.26	743.2	30.02	762.5	66	18.9	84	s.	3	1.3			10 s		s.	0.43	10.9	cloudy	S. C. Emery.
La Mesilla, New Mexico	26.12	663.4	29.84	757.9	70.0	21.1	59	calm	0	0		0	0			0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.16	740.7	30.04	763.0	76	24.4	70	se.	10	4.5		4 k	0	s.		0	0	fair	A. W. Browne.
Lewiston, Idaho	29.23	742.4	30.05	763.3	53.0	11.7	62	se.	1	0.4		0	8 s		w.	0	0	cloudy	W. Bell.
Little Rock, Arkansas	29.78	756.4	30.09	764.3	79	26.1	88	calm	0	0		0	0			0	0	clear	W. U. Simmons.
Los Angeles, California	29.60	751.8	29.99	761.7	54.6	12.6	86	s.	4	1.8		0	4 s		calm	0	0	fair	E. F. Kubel.
Louisville, Kentucky	29.53	750.0	30.08	764.0	79	26.1	82	calm	0	0		0	sk.			0	0	clear	H. C. Smyth.
Lynchburg, Virginia	29.50	749.3	30.17	766.3	75.5	24.2	79	e.	1	0.4		0	8 ks		w.	0.25	6.3	cloudy	W. R. Bushby.
Madison, Wisconsin	29.06	738.1	30.05	763.3	66	18.9	93	se.	4	1.8		8 cs	0	w.		0.58	14.7	clearing	C. A. Shaw.
Marquette, Michigan	29.33	745.0	30.05	763.3	58	14.4	87	calm	0	0		5 k	0	w.		0.08	2.0	fair	J. Gilligan.
Memphis, Tennessee	29.79	756.7	30.12	765.0	81	27.2	88	s.	1	0.4		0	0			0	0	clear	D. T. Flannery.

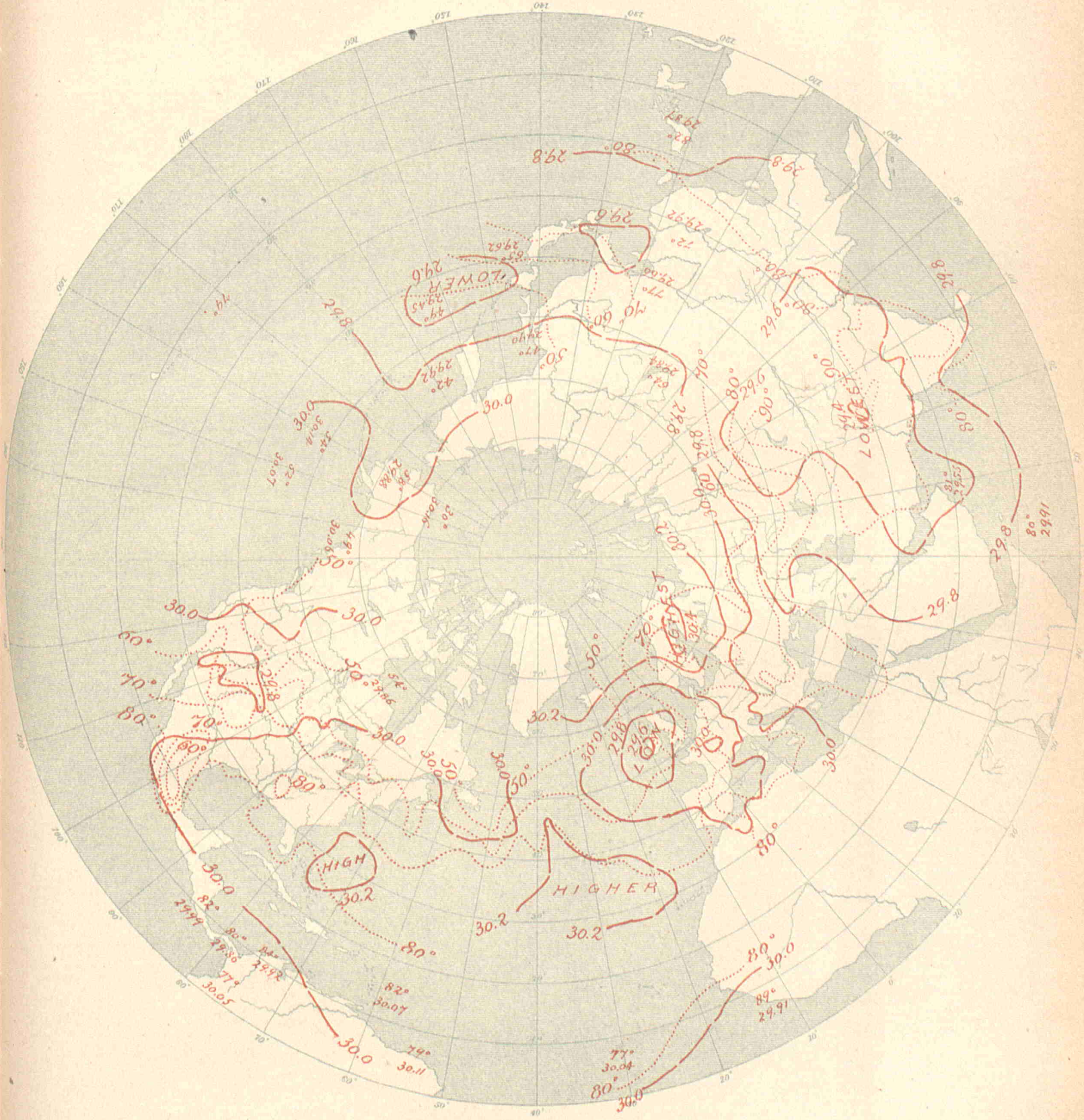
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	29.30	744.2	30.04	763.0	72	22.2	71	w.	2	0.9		5 c	sk.	nw.		0.03	0.8	fair	W. Line.
Mobile, Alabama	30.10	764.5	30.14	765.5	75	23.9	90	nw.	4	1.8		0	4ks;fg		e.	0.09	2.3	fair	J. D. Paxton.
Montgomery, Alabama	29.91	759.7	30.14	765.5	75.3	24.1	84	w.	2	0.9		3 c	0	ne.		inap.	inap.	fair	J. B. McLaughlin.
Moorhead, Minnesota	29.00	736.6	29.97	761.2	54	12.2	80	s.	5	2.2		0	0			0	0	clear	H. Bessaut.
Morgantown, W. Virginia	29.18	741.2	30.18	766.6	71.5	21.9	84	calm	0	0		1 cs	3 s		w.	0	0	fair	J. C. Sprigg, jr.
Mt. Washington, N. H.	24.02	610.1	30.14	765.5	45.0	7.2	45	calm	0	0		8 cs	0	nw.		0	0	cloudy	J. G. Linsley.
Nashville, Tennessee	29.59	751.6	30.11	764.8	75.0	23.9	90	se.	1	0.4		0	7 ks		nw.	1.22	31.0	fair	L. A. Jesunofsky.
New Haven, Connecticut	30.04	763.0	30.15	765.8	66.5	19.2	69	w.	1	0.4		10 c	hz.			0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.12	765.0	30.17	766.3	68	20.0	73	sw.	2	0.9		10 k	0	sw.		0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.07	763.8	30.12	765.0	82.3	27.9	76	s.	6	2.7		1 c	hz.	sw.		0	0	clear	L. Dunne.
Newport, Rhode Island	30.11	764.8	30.16	766.1	69.0	20.6	57	sw.	2	0.9		6 c	0	se.		0	0	fair	W. McGillivray.
New River, N. Carolina					80	26.7	79	calm			0	0	2 s			0	0	clear	C. C. Corbin.
New Shoreham, Rhode I'd.	30.12	765.0	30.15	765.8	67.8	19.9	73	w.	8	3.6		0	2 s		w.	0	0	clear	W. Davis.
New York, New York	30.01	762.2	30.18	766.6	67	19.4	73	sw.	3	1.3		3 cs	0	w.		0	0	clear	J. B. Merrill.
Norfolk, Virginia	30.16	766.1	30.19	766.8	77	25.0	82	sw.	8	3.6		7 cs	0			0	0	fair	J. T. Eiker.
North Platte, Nebraska	27.03	686.5	29.83	757.7	65.6	18.7	92	e.	8	3.6		0	1 s			0.88	22.4	clear	E. F. Brady.
Olympia, Washington T'y	30.10	764.5	30.14	765.5	45.0	7.2	93	s.	1	0.4		10 k	0	n.		0	0	cloudy	J. Dascomb.
Omaha, Nebraska	28.86	733.0	30.00	762.0	72.0	22.2	82	se.	12	5.4			10 n		se.	0.03	0.8	light rain	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.14	765.5	30.16	766.1	30.4	— 0.9	97	n.	4	1.8			9 s		nne.	0.01	0.3	cloudy	P. H. Ray.
Oswego, New York	29.75	755.6	30.07	763.8	64.0	17.8	73	se.	8	3.6		3 c	0			0	0	clear	S. W. Beall.
Palestine, Texas	29.58	751.3	30.12	765.0	77.5	25.3	88	sw.	8	3.6		0	0			0	0	clear	L. M. Pindell.
Pensacola, Florida	30.10	764.5	30.12	765.0	77.4	25.2	84	nw.	4	1.8		0	0			0.14	3.6	clear	M. McGauran.
Philadelphia, Pa.	30.09	764.3	30.19	766.8	72	22.2	71	s.	4	1.8		0	0			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	18.00	457.2	29.82	757.4	33	0.6	65	w.	26	11.6		1 cs	0	w.		0	0	clear	L. M. Dey.
Ploche, Nevada	24.00	609.6	29.80	756.9	56	13.3	32	s.	4	1.8		e	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.33	745.0	30.13	765.3	66.0	18.9	81	n.	1	0.4		0	fg.			0	0	clear	J. H. Bryce.
Poplar River, Montana	27.83	706.9						sw.			1	10 k	0	sw.		0	0	cloudy	U. D. Maxwell.
Port Eads, Louisiana	30.13	765.3	30.14	765.5	81.0	27.2	82	w.	6	2.7		hz.	3 k		w.	0	0	clear	H. G. Christian.
Port Huron, Michigan	29.37	746.0	30.04	763.0	65.6	18.7	91	se.	3	1.3			10 ks			0.12	3.0	cloudy	W. O. Bailey.
Portland, Maine	30.06	763.5	30.11	764.8	65.5	18.6	54	w.	2	0.9		10 cs	0	w.		0	0	cloudy	W. W. Eichelberger.
Portland, Oregon	30.04	763.0	30.11	764.8	49.6	9.8	86	calm	0	0		4 cs	1 s			0.13	3.3	fair	M. L. Hearne.
Portsmouth, N. Carolina																			F. P. Chaffee.
Prescott, Arizona	24.80	629.9	29.82	757.4	49	9.4	44	s.	2	0.9		0	0			0	0	clear	J. McN. Wright.
Provincetown, Mass.	30.12	765.0	30.14	765.5	68	20.0	55	nw.	2	0.9		3 cs	2 s			0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	30.10	764.5	30.11	764.8	75.5	24.2	88	e.	5	2.2		10 cs	0	n.		0	0	cloudy	W. J. Evans.
Red Bluff, California	29.60	751.8	29.96	761.0	59.0	15.0	60	calm	0	0		1 c	0	nw.		0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.85	758.2	30.08	764.0	81	27.2	82	se.	5	2.2		0	0			0	0	clear	P. M. Wilson.
Rochester, New York	29.42	747.3	30.07	763.8	64	17.8	73	sw.	10	4.5		5 c	sk.	w.		0	0	fair	E. W. McGann.
Roseburg, Oregon	29.55	750.6	30.10	764.5	45	7.2	76	ne.	1	0.4		0	2 s		s.	0	0	clear	J. J. Nanry.
Sacramento, California	29.89	759.2	29.96	761.0	55.3	12.9	80	se.	7	3.1		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.53	750.0	30.12	765.0	70.2	21.2	97	s.	12	5.4		2 c	5 s	w.	s.	0.11	2.8	fair	J. H. Webber.
St. Paul, Minnesota	29.15	740.4	30.00	762.0	67.0	19.4	78	nw.	2	0.9		0	hz.			0.65	16.5	clear	P. F. Lyons
St. Vincent, Minnesota	29.04	737.6	29.90	759.4	56	13.3	80	s.	5	2.2		0	0			0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.57	649.5	29.79	756.7	55	12.8	42	e	5	2.2		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.41	747.0	30.09	764.3	78.5	25.8	82	s.	4	1.8		0	7 k		s.	0	0	fair	E. Lane.
San Diego, California	29.99	759.4	29.97	761.2	57.4	14.1	82	ne.	4	1.8		4 k	6 s	sw.	sw.	0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.41	747.0	30.08	764.0	68	20.0	90	e.	9	4.0			10 s			0.06	1.5	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.14	765.5	30.18	766.6	70.0	21.1	76	sw.	4	1.8		1 ck	0	calm		0	0	clear	B. A. Blundon.
San Francisco, California	29.96	761.0	30.03	762.7	52.5	11.4	90	sw.	10	4.5			fg.		w.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.36	593.3	29.87	758.7	63	17.2	35	e.	6	2.7		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	30.03	762.7	30.12	765.0	81	27.2	74	e.	5	2.2		0	0			1.00	25.4	clear	H. W. Ford.
Shreveport, Louisiana	29.88	758.9	30.17	764.8	77	25.0	82	e.	3	1.3		0	hz.			0	0	clear	E. N. Meekins.
Silver City, New Mexico	24.33	618.0	29.83	757.7	56	13.3	40	w.	1	0.4		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	30.00	762.0	30.06	763.5	49.1	9.5	77	nw.	10	4.5			10 ks		nw.	0	0	cloudy	J. J. McLean.
Smithville, North Carolina	30.13	765.3	30.17	766.3	79	26.1	77	se.	6	2.7		1 k	0	e.		0.12	3.0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.03	711.9	30.07	763.8	44	6.7	93	nw	1	0.4		0	0			0.16	4.1	clear	D. Moore.
Springfield, Illinois	29.35	745.5	30.02	762.5	71	21.7	84	sw.	20	8.9		1 c	6 s	w.	w.	0.67	17.0	fair	T. B. Jennings.
Springfield, Massachusetts	30.02	762.5	30.15	765.8	67.8	19.9	70	w.	2	0.9		10 c	hz.			0	0	cloudy	T. S. Outram.
Springfield, Mo.	28.71	729.2	30.17	766.3	77	25.0	82	s.	6	2.7		3 c	0	w.		0	0	clear	J. B. Marbury.
Starkville, Miss.	29.67	753.6	30.14	765.5	82	27.8	79	se.	6	2.7		2 c	0			0	0	clear	M. J. Wright.
Stockton, Texas	27.01	686.0	29.93	760.2	72.0	22.2	90	s.	16	7.2		0	0			0	0	clear	J. O'Dowd.
Thatcher's Island, Mass.	30.09	764.3	30.14	765.5	68.0	20.0	70	calm	0	0		10 cs	hz.			0	0	cloudy	G. Liebmann.
Toledo, Ohio	29.37	746.0	30.05	763.3	71	21.7	84	e.	8	3.6		3 c	4 s	nw.		inap.	inap.	fair	A. Buell.
Tucson, Arizona	27.51	698.7	29.81	757.2	66	18.9	39	s.	4	1.8		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.76	755.9	30.12	765.0	48	8.9	86	nw.	1	0.4		1 cs	0			0	0	clear	J. Daly.
Uvalde, Texas	29.13	739.9	30.07	763.8	77	25.0	82	s.	6	2.7		10 k	0	s.		0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.88	758.9	30.13	765.3	77	25.0	85	calm	0	0		0	0			0	0	clear	H. P. Brisbane.
Visalia, California	29.58	751.3	29.95	760.7	60	15.6	44	nw.	4	1.8		1 c	0	nw.		0	0	clear	W. L. Seward.
Washington, D. C.	30.07	763.8	30.18	766.6	73.3	22.9	82	s.	3	1.3		7 k	0	s.		0	0	fair	B. M. Purssell.
West Las Animas, Colorado	26.01	660.6	29.79	756.7	74.8	23.8	54	se.	3	1.3		0	0			0	0	clear	F. W. Brandenburg.
Williamsport, Pa.	29.54	750.3	30.14	765.5	66	18.9	84	calm	0	0		0	fg.			0	0	clear	B. F. Hough.
Wilmington, N. Carolina	30.11	764.8	30.16	766.1	78	25.6	88	calm	0	0		1 k	sk.			0	0	clear	A. T. Sherwood.
Winnemucca, Nevada	25.63	651.0	29.89	759.2	47	8.3	52	ne.	7	3.1		5 cs	0	sw.		0	0	fair	J. R. Williams.
Yankton, Dakota	28.72	729.5	30.00	762.0	65	18.3	90	ne.	5	2.2		10 cs	0			0	0	cloudy	J. H. Attfield.
Yuma, Arizona	29.64	752.8	29.78	756.4	68.1	20.1	45	calm	0	0		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8			54.0	12.2	77	n.	4	1.8		2 cs	6 ks		nw.	0.03	0.8	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.06	763.5	30.07	763.8	82	27.8	91	e.				5 k	5 ks	e.	e.	0.90	22.9	fair	J. A. Racker.
Buenaventura, U. S. C.	30.02	762.5	30.05	763.3	77	25.0	90	s.	10	4.5			10 n		s.	2.80	71.1	raining	J. I. Plume.
Havana, Cuba, W. I.												7ck;cs	0			0	0	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.06	763.5	30.07	763.8	81.6	27.6	72	n.	1	0.4					e.	0	0		Robert Johnston.
Magua, San Domingo, W. I.					70	21.1		s.			1	0	3 k			0.310	7.9	fair	S. M. Pike.
Paramaribo, S. A.	30.10	764.5	30.11	764.8	79	26.1	91	e.			2	5 k	3 s	e.		0.04	16.3	clearing	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.47	748.5	29.93	760.2	79	26.1	85	calm			0	0	9 ks		s.	0.40	10.2	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							98	ne.			1		10 n		ne.	0.18	4.6	clear	Earl Flint.
Santiago de Cuba, W. I.	30.04	763.0	30.07	763.8	80	26.7	74	calm	0	0		1 ck	0						Robert Mason.
York Factory, B. A.	29.80	756.9	29.86	758.4	54.0	12.2	87	sw.	13	5.8			10 s		sw.	1.20	30.5	cloudy	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S. Alert, Simon's Bay, Cape Colony, Africa	30.29	769.4	64.5	18.1	41	w.			5-5		3							squally.
H. M. S. Alexandra, N. 31° 44′ E. 29° 42′	29.91	759.7	74	23.3	68	wnw.			2		8	wnw.				1	wnw.	d. clouds.
H. M. S. Amethyst, Montevideo, Uruguay	30.12	765.0	53	11.7	93	ssw.			1		0							blue sky.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	30.00	762.0	70	21.1		n.			3-4									blue sky.
H. M. S. Arab, N. 25° 18′, E. 57° 54′	29.49	749.0	90	32.2	86	ssw.			3		0					1	sw.	misty.
H. M. S. Bacchante, Palermo, Sicily	30.07	763.8	77	25.0	77	nne.			2		2	nnw.						d. clouds.
H. M. S. Boadicea, S. 34° 20′ E. 18° 40′	30.03	762.7	64	17.8		w.			4-6		3	s.						hy. showers
H. M. S. Champion, N 19° 30′ W. 170° 00′			79	26.1		ne.			4		3					5	e.	d. clouds.
H. M. S. Coquette, Port Said, Egypt	29.94	760.5	78	25.6		nw.			1		0							blue sky.
H. M. S. Cruiser, N. 40° 47′, E. 14° 15′	30.04	763.0	74	23.3		wsw.			3		3	wnw.				2	wnw.	d. clouds.
H. M. S. Diamond, S. 8° 42′, E. 161° 00′	29.87	758.7	81	27.2	95	calm			0		6							d. clouds.
H. M. S. Dido, N. 14′, 00° W. 60° 20′	30.03	762.7	79	26.1		e.			5-6		5	ene.				4	ene.	squally.
H. M. Dock-Yard, Bermuda, W. I.	30.16	766.1	74	23.3	81	nne.			2-3		4	nne.						d. clouds.
H. M. S. Druid, N. 18° 33′, W. 72° 21′	30.04	763.0	81.8	27.7	86	e.			2-3		1							blue sky.
H. M. S. Dwarf, S. 25° 16′, W. 57° 45′	29.96	761.0	56.5	13.6	87	calm			0		0							blue sky.
H. M. S. Eclipse, S. 4° 37′, E. 55° 30′	29.99	761.7	80	26.7		s.			1		6							d. clouds.
H. M. S. Emerald, S. 44° 10′ W. 42° 00′	29.58	751.3	46	7.8	100	nw.			0-1		9	nw.				2	sw.	drizzling.
H. M. S. Espiegle, S. 19° 13′ E. 169° 12′	29.89	759.2	73	22.8	71	s.			4		7					4	s.	d. clouds.
H. M. S. Fawn, S. 25° 15′, E. 35° 56′	30.26	768.6	73.5	23.1	63	var.			1-2		1					1	s.	blue sky.
H. M. S. Fantome, N. 14° 32′, W. 77° 01′	29.98	761.5	81	27.2		ene.			4-5		9	ene.				4	ene.	d. clouds.
H. M. S. Flying Fish, N. 37° 00′, E. 126° 44′	29.55	750.6	71	21.7	90	calm			0		10							misty.
H. M. S. Gannet, S. 28° 40′, W. 71° 30′	30.10	764.5	54	12.2	76	var.			1-2		10					3	ssw.	overcast.
H. M. S. Garnet, S. 34° 55′, W. 49° 50′	30.02	762.5	60	15.6	88	wsw.			3		8					2	sw.	d. clouds.
H. M. S. Griffon, N. 49° 42′, W. 54° 42′	29.83	757.7	48	8.9	70	wsw.			2		1							blue sky.
H. M. S. Inconstant, N. 18° 30′ W. 23° 45′	30.08	764.0	74	23.3	81	nne.			3		8	nne.				3	nne.	d. clouds.
H. M. S. Iron Duke, N. 35° 26′, E. 139° 39′	29.64	752.8	73	22.8	85	calm			0		0							blue sky.
H. M. S. Kingfisher, Acapulco, Mexico	29.98	761.5	77	25.0		calm			0		4							d. clouds.
H. M. S. Lark, S. 10° 40′, E. 162° 22′	29.91	759.7	79.3	26.3		e.			1		5					2	e.	d. clouds.
H. M. S. Magpie, N. 34° 56 , E. 139° 52′	29.64	752.8	72.7	22.6	88	calm			0		5	ssw.						misty.
H. M. S. Minotaur, Malta, Mediterranean	30.08	764.0	73.5	23.1	72	nne.			1		2	sw.						misty.
H. M. S. Nelson, S 36° 50′, E. 174° 49	29.49	749.0	59	15.0	100	calm			0		4	e.						d. clouds.
H. M. S. Northampton, Halifax, Nova Scotia	29.97	761.2	63	17.2	57	wnw.			1		1							misty.
H. M. S. Rambler, S. 15° 08′, E. 100 30′	30.04	763.0	60	15.6	?	s.			4		2	ssw.				4	s.	d. clouds.
H. M. S. Rocket, N. 50° 50′, W. 127° 50′	30.11	764.8	51	10.6	?	nnw.			1		5							d. clouds.
H. M. S. Sappho, S. 23° 30′, W. 116° 20′	30.00	762.0	66.5	19.2		wsw.			3-5			n.				3	s.	showery.
H. M. S. Swiftsure, S. 3° 28′, W. 26° 46′	30.08	764.0	78.5	25.8	90	e.			4		5	ese.				5	ese.	d. clouds.
H. M. S. Sylvia, S. 28° 02′, W. 48° 23′	30.17	766.3	60.5	15.8	88	ssw.			2		3							d. clouds.
H. M. S. Tenedos, N. 47° 35′ W. 56° 15′	29.87	758.7	48.5	9.2	96	sw.			2		9							d. clouds.
H. M. S. Triumph, Valparaiso, Chili	30.07	763.8	51	10.6	93	nne.			1		9	e.						d. clouds.
H. M. S. Tyne, N. 36° 36′, W. 17° 24′	30.16	766.1	68	20.0	90	wnw.			2		8	sw				2	w.	d. clouds.
H. M. S. Woodlark, Bushire, Persia	29.50	749.3	85.5	29.7	88	sw.			2		0							misty.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verde Islands	30.09	764.2	77.9	25.5	92	nne.			1		2					2		d. clouds.
Tamega, Macao, China	29.74	755.3	86.0	30.0	78	ssw.			3		2		sw.					d. clouds.
Swedish Naval.																		
Saga, N. 43° 27′, W. 23° 25′	30.06	763.4	63.0	17.2	75	nnw.			2		8							overcast.
United States Naval.																		
Navy Yard, Pensacola, Fla	30.10	764.5	77	25.0	91	ne.	4	1.8			2		sw.	0.13	3.3			fair.
Navy Yard, Portsmouth, N. H.	30.12	765.0	62	16.7	61	nw.	2	0.9			0			0	0			hazy.
Naval Hospital, Yokohama, Japan*	29.58	751.3	71	21.7	92	calm			0		10		w.	0.08	2.0			cloudy.
Adams, Mare Island, Cal	29.99	761.7	56	13.3	94	ssw.			2-3		2		sw.	0	0			clear.
Alaska, Callao, Peru	30.00	762.0	60	15.6	88	se.			1		5			0	0	sm'h		fair.
Alert, N. 43° 13′, E. 162° 08 *	29.30	744.2	49	9.4	100	ne.			8		10		calm			sm'h	e.	drizzling.
Alliance, N. 42° 12′ W. 70° 20′	30.14	765.5	61	16.1	88	wnw.			1-2		5			0	0	sm'h		fair.
Ashuelot, Yokohama, Japan	29.63	752.6	74	23.3	86	sw.			1		10		calm					cloudy.
Brooklyn, Rio de Janeiro, Brazil	30.10	764.5	68	20.0	84	nw.	5	2.2			8		nw.	0.03	0.8	sm'h		fair.
Colorado, New York, N. Y	30.17	766.3	69	20.6	85	ssw.	1	0.4			2		calm	0	0			light haze.
Constellation, Chesapeake Bay*	30.16	766.1	74	23.3	86	s.			2		8		s.					fair.
Enterprise, Norfolk, Va*	30.18	766.6	75	23.9	95	sw.			1		5		sw.					fair.
Essex, Elizabeth Island, Patagonia	30.14	765.5	39	3.9	82	sw.			2		8?					sm'h		clear.?
Franklin, Norfolk, Va	30.21	767.3	74	23.3	90	sse.	10	4.5			5		w.	0	0			fair.
Galena, Alexandria, Egypt	30.01	762.2	74	23.3	?	nw.			1		0					sm'h		clear.
Independence, Navy Yard, Mare Island, Cal	29.98	761.5	55	12.8	87	sw.			3		0			0	0			clear.
Iroquois, San Francisco, Cal	30.07	763.8	53	11.7	93	ssw.			3		10			0	0			cloudy.
Kearsarge, off Norfolk, Va	30.19	766.8	73	22.8	90	s.			2		5		s.					fair.
Lackawanna, S. 8° 02′, W. 80° 21′*	30.01	762.2	63	17.2	78	se.			3		10		se.			mod.	se.	cloudy.
Lancaster, N. 35° 54′, E. 14° 43′*	30.05	763.3	77	25.0	86	se.			2		2		se.	0	0			fair.
Marion, S. 34° 54′, W. 56° 13′	30.08	764.0	53	11.7	100	ssw.			2		0					sm'h		hazy.
Michigan, Detroit, Mich	30.00	762.0	66	18.9	94	e.			1		10		e.					cloudy.
Minnesota, Newport, R. I	30.20	767.1	67	19.4	69	calm	0	0			5							
Monocacy, N. 37° 07′ E. 129° 25′	29.71	754.6	63	17.2	94	nnw.			1		10		calm			sm'h		misty.
New Hampshire, Newport, R. I	30.12	765.0	65	18.3	73	sw.			1		2					sm'h		clear.
Nipsic, Trieste, Austria	30.05	763.3	75	23.9	68	nw.			1		2					sm'h		clear.
Onward, Callao, Peru	30.15	765.8	59	15.0	94	sse.			1		10		n.			long	v	cloudy.
Palos, Kobe, Japan	29.67	753.6	70	21.1	95	se.			1		10		calm					cloudy.
Passaic, Washington, D. C	30.19	766.8	73	22.8	100	e.			1		5		e.					fair.
Pensacola, Callao, Peru	30.07	763.8	59	15.0	88	se.	1	0.4			8			0	0	sm'h		cloudy.
Powhatan, N. 35° 51′, W. 75° 17′	30.19	766.8	77	25.0	86	sse			2		2					sm'h		clear.
Portsmouth, Brest, France*	29.83	757.7	60	15.6	71	sw.			3		5		s.			sm'h		fair.
Quinnebaug, N. 37° 40′, E. 5° 24′	30.01	762.2	75	23.9	86	ene.			3		2		e.			sm'h		fair.
Ranger, Mare Island, Cal*	30.00	762.0	59	15.0	54	s.			3-4		0			0	0	sm'h		clear.
Richmond, N. 33° 26′, E. 135° 46′	29.59	751.6	74	23.3	95	ese.			2		10			0.73	18.5			threatening
Saratoga, Brest, France	29.85	758.2	61	16.1	82	sw.			3		8		sw.	light	light	sm'h	ssw.	cloudy.
St. Louis, League Island, Pa	30.43	772.9	72	22.2	100	sw.	2	0.9			2			0	0			clear.
Swatara, Kobe, Japan*	29.51	749.5	74	23.3	86	s.			1		10		calm			sm'h		misty.
Tennessee, off New York, N. Y	30.20	767.1	73	22.8	81	sw.	1	0.4			0			0	0			hazy.
Vandalia, Portsmouth, N. H*	30.10	764.5	59	15.0	70	nw.			1		10		calm					cloudy.
Wabash, Boston, Mass	30.13	765.3	70	21.1	57	calm	0	0			8		wnw.	0	0			fair.
Wachusetts, N 56° 15′, W. 134° 20′	29.93	760.2	49	9.4	93	nw.			1		5			0	0	sm'h		fair.
Wyoming, Port Royal, S. C	30.13	765.3	74	23.3	95	nne.	10	4.5			8		ne.	0.04	1.0			foggy.
Yantic, New York, N. Y*	30.13	765.3	71	21.7	90	var.			1		5							fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 47° 30′, W. 49° 55′*	29.88	758.9	44	6.7	100	sw.			2		8		w.	0.02	0.5	2	ssw.	dense fog.
S. S. Grecian, off Cape Race, N. F.*	29.98	761.5				sw.			2		2		sw.	0	0	light	w.	clear.
S. S. Nova Scotian, N. 51° 58′, W. 20° 23′	29.63	752.6	52	11.1		nw.			5		2		nw.			r'gh	w.	fair.
S. S. Prussian, N. 54° 08′, W. 10° 10′*	29.44	747.8	59	15.0		ssw.			2		2		s.	4 h'r	4 h'r	light	sw.	clear.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, Philadelphia, Pa	30.18	766.6	82	27.8	96	wsw.			2		2		w.					very fine.
S. S. Indiana, N. 50° 45′, W. 15° 38††	29.78	756.4	57	13.9	75	nw.			4		8		w.			mod.	nw.	showery.
S. S. Lord Clive, Philadelphia, Pa.*†	30.05	763.3				w.			2		4		w.	0	0			fine.
S. S. Lord Gough, N. 43° 33′, W. 37° 19′	30.21	767.3	70	21.1		ese.			5		10		e.	0	0	sm'h	ese.	cloudy.
ANCHOR LINE.																		
S. S. Devonia, N. 46° 58′, W. 38° 20′†	30.31	769.9	69	20.6		calm			0		9		e.			sm'h		cloudy.
S. S. Ethiopa, New York, N. Y.	30.15	765.8	69	20.6	90	sw.			1		2		sw.	0	0			clear.
S. S. Utopia, N. 36° 53′, W. 9° 12′†	30.24	768.1	64	17.8	78	nw.			3		1		calm	0	0	mod.	nw.	clear
ATLAS LINE.																		
S. S. Ailsa, N. 10° 48′ W. 75° 37′†	29.92	760.0	84	28.9	83	ne.			4		5		ne.	0	0			fair.
S. S. Alvena, N. 17° 50′, W. 75° 30′†	29.92	760.0	82	27.8	75	ene.			1		0			0	0	sm'h	ese.	fine.
S. S. Antillas, N. 31° 20′, W. 70° 45′*†	30.35	770.9	82	27.8		se.			1		2		se.	0	0	sm'h		fine.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 29° 22′ E. 81° 14′	30.24	768.1	61.5	16.4	66	s.			3		0							blue sky.
S. Baroda, S. 9° 59′, E. 83° 34′	29.89	759.2	77.5	25.3	86	se.			5		5							d. clouds.
British Merchant, N. 35° 25′, W. 35° 53′	30.25	768.3	74.6	23.7	88	nw.			1-2		4							showery.
S. S. Cipero, N. 8° 45′. W. 58° 48′	30.05	763.3	80.5	26.9	76	ene.			2		3							misty.
S. S. Glencairn, S. 1° 34′, W. 19° 00′	30.09	764.3	79	26.1	86	se.			3-4		0							blue sky.
S. S. Gordon Castle, N. 7° 29′, E. 53° 45′	29.91	759.7	80	26.7	89	sw.			5		2							blue sky.
Bkt. May Hulse, S. 46° 17′, W. 42° 09′	29.58	751.3	40.5	4.7	87	nw.			2		5							drizzling.
S. S. Minho, N. 25° 54′, W. 18° 35′	30.15	765.8	72	22.2	73	ne.			4		7							d. clouds.
CROMWELL LINE.																		
S. S. Hudson, N. 27° 13′, W. 86° 46′†	30.29	769.4	76	24.4		nw.			1		3		nw.	0	0	mod.	se.	fair.
CUNARD LINE.																		
S. S. Bothnia, N. 44° 10′, W. 43° 52′	30.04	763.0	73	22.8	85				4		8			2 h'r	2 h'r		s.	fine.
S. S. Scythia, New York, N. Y.	30.12	765.0				sw.			1		1		calm	0	0			hazy.
GENERAL TRANS-ATLANTIC COMPANY																		
S. S. France, N. 49° 16′, W. 15° 50′†	29.71	754.7	59.0	15.0		wsw.			5	ck		wsw.		0	0		w.	cloudy.
S. S. Ville de Marseilles, Marseilles, France*†	30.05	763.3	80	26.7		se.			5		3			0	0			clear.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, New York, N. Y.†*	30.16	766.1				s.			2		1		w.	0	0			
S. S. Herder, N 49° 30′, W. 0° 06′*†	29.92	760.0	70	21.1		ssw.			3		2†		s.	0	0			covered?
S. S. Lessing, N. 43° 30′, W. 40° 33′	30.17	766.4	67	19.4		ssw.			4		8		ssw.	0	0	sm'h	ssw.	cloudy.
S. S. Wieland, N. 40° 22′, W. 69° 07′	30.21	767.3	59	15.0		sw.			3		2		sw.	0	0	2	sw.	clear.
INMAN LINE.																		
S. S. City of Berlin, N. 48° —′, W. 31° —′	30.28	769.1				nne.			4		9		e.	0	0	mod.	ene.	fair.
JOHNSTON LINE.																		
S. S. Thanemore, N. 47° 10′, W. 24° 40′	30.00	762.0				nw.			5		2		wnw.	0	0	sli't	nw.	fair.
MALLORY LINE.																		
S. S. Colorado, N. 25° 51′, W 85° 13′†	30.10	764.5	83	28.3		ese.			2		1		ese.	sh'rs	sh'rs	small	se.	clear.
MERCHANTS EXPRESS LINE.																		
S. S. Hermod, N. 49° 05′ W. 11° 40′*†	29.48	748.8	60.8	16.0		w.			5		6		w.	4 h'r	4 h'r	long	nw.	fair.
MERCHANT STEAMSHIP COMPANY.																		
S. S. Glenfyne, Bahia, Brazil	29.59	751.6				sw.			6				s.	0	0	mod.	se.	cloudy.
S. S. Glenapp, S. 0° 22′ W. 47° 44′*†	29.95	760.7				e.			3		3		var.	0	0	sm'h		fine.
NATIONAL LINE.																		
S. S. Denmark, N. 49° 53′ W. 5° 32′	29.84	757.9	55	12.8		s.			5		8		ssw.	4 h'r	4 h'r	sli't	wnw.	raining.
S. S. England, Liverpool. Eng	29.88	758.9				sw.			3		0			0	0			clear.
S. S. The Queen, N. 49° 06′, W. 15° 04 *	29.68	753.9	57	13.9		nw.			4		5		n.	shr's	shr's	mod.	nw.	squally.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, N. 28° 40′, W. 74° 19′.†	30.24	768.1	76	24.4		s.			1		7		s.	14 h'r	14 h'r	sm'h		squally.
S. S. Saratoga, Havana, Cuba, W. I †	30.31	769.9	86	30.0	75	calm			0		0			0	0			clear.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, N. 37° 30′, W. 74° 40′*†	30.27	768.8	68	20.0	90	sse.			3		3		s.	0	0	small	se.	clear.
S. S. City of Puebla, Havana, Cuba, W I.†	30.03	762.7	86	30.0		ese.			1		2		ene.					fine.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N. 46° 49′, W. 29° 20′*†	30.24	768.1	63	17.2		nw.			3								nw.	fair.
NORTH GERMAN LLOYD.																		
S. S. Elbe, N. 40° 30′, W. 59° 15′	30.09	764.3	67.1	19.5	95	nw.			2-3		2		nw.	0	0	mod.	nw.	fair.
S. S. Hohenzollern, N. 40° 41′, W. 44° 46′*	30.07	763.8	76	24.4		sw.			4		5		sw.	0	0	mod.	sw.	fair.
S. S. Necker, N 40° 50′, W. 65° 50′			60.0	15.6	89	wsw.			3		2		w.	0	0	sm'h	w.	clear.
S. S. Oder, N. 48° 29′, W. 22° 24′	29.90	759.4	56.3	13.5		nw.			6		6		nnw.	2 h'r	2 h'r	long	nnw.	fair.
S. S. Ohio, Bremerhaven, Germany						se.			3		2		se.	0	0			clear.
S. S. Rhein, N. 41° 06′ W. 53° 40′	30.05	763.3				nw.			2		3		nw.	2 h'r	2 h r	mod.	nw.	fair.
S. S. Saller, N. 50° 05′ W. 2° 56′	29.87	758.7	52.7	11.5		ssw.			5		5†		sw.	2 h'r	2 h'r	long	sw.	cloudy.?
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, N. 46° 56′, W. 162° 02′†	30.24	768.1	54	12.2	73	sse.			4		8		s.	light	light	light	s.	cloudy.
S. S. Coptic, N. 45° 20′, W. 150° 56′	30.17	766.3	51.5	10.8		nnw.			3		10		w.	0	0	4	w.	overcast.
S. S. Gaelic, N. 35° 28′, E. 141° 16′†	29.67	753.6	73	22.8	85	e.			3		4		n.			light	e.	clear.
S. S. Oceanic, N. 38° 25′, E. 147° 18′*	29.52	749.8	65	18.3	94	sw.			3		9		sw.			4	nw.	cloudy.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga.†	30.19	766.8				nne.			1		1		n.	0	0			clear.
S. S. City of Columbus, N. 38° 01′, W. 74° 41′†	30.16	766.1				s.			4		3		nw.	0	0	mod.	se.	clear.
S. S. Seminole, Vineyard Sound, Mass.†	30.17	766.3	68	20.0	70	w.			1		1		sw.	0	0	sm'h	sw.	clear.
OREGON IMPROVEMENT COMPANY.																		
S. S. Willametta, N. 39° 10′, W. 124° 00′†	30.08	764.0	59	15.0	82	nnw.			4		2		nnw.	0	0		nw	clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, N. 38° 42′, W. 123° 46′†	30.08	764.0	53	11.7	86	nw.			2		8		nw.			light	nw.	gloomy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal.†	29.96	761.0	52	11.1	93	w.			2		8		w.					cloudy.
S. S. Dakota, N. 47° 54′, W. 124° 45′*†	30.10	764.5	58	14.4	94	nw.			5		10		nw.			small	nw.	cloudy.
S. S. Geo. W. Elder, N. 38° 00′, W. 123° 05′†	29.91	759.7	51	10.6	93	nnw.			2		5					light	nw.	fair.
S. S. Idaho, Departure Bay, Alaska†	30.14	765.5	60	15.6	88	calm			0		10					sm'h		raining.
S. S. State of California, Portland, Oregon†	30.10	764.5	48	8.9	92	calm			0		3		nw.					fair.
S. S. Victoria, Portland, Oregon†	30.02	762.5	49	9.4	100	calm			0		2					sm'h		clear.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, S. 31° 03′, E. 179° 25′	29.52	749.8	62	16.7	72	ssw			6		8		ssw.	3 h'r	3 h'r	r'gh	sw.	cloudy.
S. S. City of Pekin, Hong Kong, China†	29.75	755.6	85	29.4	87	s.			5		5		sw.	0	0	sm'h		fair.
S. S. City of Rio de Janeiro, San Blas, Mexico *†	30.21	767.3	82	27.8	83	n.			2		5		nw.	0.5	13.	long	w.	clearing.
S. S. City of Sydney, Sydney, N. S. W.†	29.94	760.5	54	12.2	61	w.			5		5†		w.	0	0	sm'h		cloudy ?
S. S. Clyde, N. 24° 38′, W. 112° 25′†	29.96	761.0	66	18.9	84	wnw.			2		8		nne.	0	0	long	wnw.	cloudy.
S. S. Colima, N. 27° 52′, W. 115° 59′†	29.95	760.7	60	15.6	82	nnw.			3		10		nw.	0	0	mod.	nw.	cloudy.
S. S. Colon, N. 29° 47′ W. 73° 57′†	30.21	767.3	75	23.9		nw.			1		10		nw.	0	0	sm'h	e.	overcast.
S. S. Grenada, Panama, Panama†	29.86	758.4	80	26.7	96	nw.			2		5		nw.	2 h'r	2 h'r			clear?
S. S. South Carolina, Punta Arenas†	29.99	761.7	82	27.8	79	w.			2		5		w.	2 h'r	2 h'r	sm'h		fair.
S. S. Zealandia, S. 23° 10′, W. 174° 51′	29.82	757.4	73	22.8	85	n.			2		10		n.			high	e.	cloudy.
QUEBEC STEAMSHIP CO.																		
S. S. Muriel, N. 36° 00′, W. 71° 43′	30.09	764.3	72	22.2		calm			0		10			0	0	sm'h		overcast.
S. S. Bermuda, N. 19° 58′ W. 64° 22′	30.13	765.3	82	27.8		e.			5		9		e.	hv'y	hv'y	long	se.	heavy rain.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
Red Star Line.																		
S. S. Nederland, N. 45° 57′, W. 31° 23′†	30.22	767.6	62	16.7	.....	n.	.....	.....	1	.....	5	.....	n.	0	0	sm'h	.....	clear.
S. S. Rhynland, Antwerp, Belgium	30.03	762.7	72	22.2	80	calm	.....	.....	0	.....	10	.....	sw.	0.1	3.	.....	.....	cloudy.
S. S. Vaderland, Jersey City, N. J.	29.95	760.7	71	21.7	80	s.	.....	.....	1	.....	2	.....	.....	0	0	.....	.....	clear.
Rotterdam Line.																		
S. S. P. Caland, N. 47° 30′ W. 22° 50′.†	29.97	761.2	55.9	13.3	88	n.	.....	.....	5	.....	8kn	.....	nw.	.....	.....	mod.	n.	fair.
State Line.																		
S. S. State of Florida, New York. N. Y.	30.03	762.7	72	22.2	.....	sw.	.....	.....	2	.....	4	.....	.....	0	0	.....	.....	fair.
S. S. State of Georgia, N. 44° 39′ W. 41° 49′†	30.25	768 3	67	19.4	.....	ese.	.....	.....	4	.....	7	.....	ese.	driz.	driz.	sm'h	.....	light fog.
Thingvalla Line.																		
S. S. Thingvalla, Brooklyn, N. Y†	30.40	772.1	73.4	23.0	.....	sw.	.....	.....	1	.....	2	.....	sw.	0	0	.....	.....	clear.
White Cross Line.																		
S. S. Plantyn, N. 41° 33′, W. 42° 53′	30.14	765.5	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	s.	0	0	sm'h	.....	
White Star Line.																		
S. S. Baltic, N. 42° 10′, W. 49° 19′†	30.05	763.3	55	12.8	100	nw.	.....	.....	3	.....	10	.....	nw.	1 h'r	1 h'r	con.	sw.	overcast.
S. S. Celtic, N. 50° 14′, W. 22° 21′†	29.88	758.9	56	13.3	94	nnw.	.....	.....	5	.....	5	.....	nw.	shr's	shr's	mod.	nnw.	showery.
S. S. Republic, N. 40° 51′, W. 66° 30′†	30.25	768.3	60	15.6	76	wsw.	.....	.....	3	.....	0	.....	.....	0	0	sm'h	.....	blue sky.
Wilson Line.																		
S. S. Otranto, N. 46° 04′, W. 38° 21′†	30.40	772.1	73	22.8	.....	sw.	.....	.....	1	.....	8?	.....	w.	.....	.....	mod.	sw.	clear ?
Miscellaneous.																		
Bg. Abbe Clifford, N. 26° 51′ W. 75° 30′.*†	30.21	767.3	81	27.2	.....	se.	.....	.....	1	.....	5	.....	se.	¼ h'r	¼ h'r	sm'h	se.	fine.
Schr. Addie Fuller, N. 43° 13′, W. 69° 54′†	30.21	767.3	63	17.2	94	calm	.....	.....	0	8 ck	0	.....	.....	0	0	sm'h	.....	clear.
Schr. Ajax, N. 28° 20′, W. 96° 21′†	30.12	765.0	.....	.....	.....	calm	.....	.....	0	.....	1	.....	sw.	0	0	sm'h	s.	clear.
Bk. Alpha, N. 37° 45′. W. 74° 00′†	30.16	766.1	70	21.1	.....	s.	.....	.....	2	.....	2	.....	s.	0	0	sm'h	.....	fair.
Schr Annie Lewis, Mobile Bay, Ala†	30.23	767.8	82	27.8	.....	ne.	.....	.....	1	.....	2	.....	ne.	0	0	sm'h	.....	clearing.
Bk. Anna Thormann, S. 25° 14′ W. 29° 13′	30.08	764.1	72.5	22.5	81	w.	.....	.....	5	.....	3 k	.....	w.	10 h'r	10 h'r	mod	w.	fair.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.25	768.3	75	23.9	.....	w.	.....	.....	3	.....	8	.....	wsw.	1 h'r	1 h'r	.....	.....	cloudy.
Bk. Bergenseren. N. 39° 20′, W. 72° 00′†	30.06	763.6	66	18.9	.....	sw.	.....	.....	2	.....	.....	.....	.....	0	0	sm'h	.....	fair.
Schr. C. R. Flint, N. 27° 34′, W. 89° 05′†	30.44	773.2	78	25.6	.....	calm	.....	.....	0	.....	5?	.....	.....	0	0	sm'h	.....	clear.?
Schr. Edith R. Seward, Wilmington, N. C*†	30.22	767.6	82	27.8	.....	ne.	.....	.....	1	.....	3	.....	se.	0	0	.....	.....	clear.
S. E. J. Spicer, N. 47° 07′, W. 51° 53′†	30.02	762.5	.....	.....	.....	w.	.....	.....	4	.....	2	.....	wnw.	8 h'r	8 h'r	mod	wsw.	
Bk. Essex, S. 11° 18′ W. 32° 33′*†	30.06	763.5	83	28.3	.....	ese.	.....	.....	3	.....	2	.....	ese.	0	0	long	ese.	clear.
S. Exporter, S. 14° 00′, E. 82° 30′*†	30.10	764.5	.....	.....	.....	e.	.....	.....	6	.....	0	.....	.....	0	0	short	e.	clear.
Bk. Freya, N. 41° 22′ W. 51° 09′	.....	.....	63	17.2	.....	nw.	.....	.....	3	.....	0	.....	.....	5 h'r	5 h'r	mod.	wsw.	fair.
S. Grecian, Hong Kong, China*†	29.78	756.4	83	28.3	.....	sw.	.....	.....	6	.....	4	.....	sw.	0	0	.....	.....	clear.
Bk. Hattie G. McFarland, N. 43° 00′, W. 65° 10′*†	30.05	763.3	58	14.4	.....	calm	.....	.....	0	.....	.....	.....	.....	0	0	sm'h	.....	clear.
S. Hedwig, N. 41° 06′, W. 23° 05′	30.13	765.2	66.6	19.2	91	wnw.	.....	.....	6	.....	8	.....	w; nw	3 h'r	3 h'r	short	wnw.	
S. Ismir, S. 34° 16′, W. 20° 25′†	30.11	764.8	.....	.....	.....	sw.	.....	.....	4	.....	8	.....	sw.	.....	.....	h'vy	nnw.	fair.
S. Ivy, Off Columbia river, Oregon†	30.31	769.9	59	15.0	.....	wnw.	.....	.....	1	.....	8	.....	.....	.....	.....	sm'h	wnw.	fair.
Schr. James Slater, Para, Brazil*†	30.23	767.8	80	26.7	.....	.....	.....	.....	1	.....	2	.....	ese.	1 h'r	1 h'r	.....	.....	
Schr. Jennie N. Huddell, Hallowell, Me†	30.25	768.3	66	18.9	84	sw.	.....	.....	1	.....	2	.....	nw.	0	0	.....	.....	hazy.
Schr. John L. Thomas, SerranaCay, Mosquito coast*†	30.06	763.5	.....	.....	.....	ene.	.....	.....	7	.....	10	.....	e.	4 h'r	4 h'r	.....	.....	thund'r st'm.
S. S. Lamperts, N. 18° 41, E. 60° 00′*..	29.55	750.6	81.0	27.2	85	wsw.	.....	.....	7	.....	6 ks	.....	.....	.....	.....	7	.....	raining.
Light House Tender, Laurel, Key West, Fla†..	30.14	765.5	84	28.9	.....	e.	.....	.....	1	.....	6	.....	e.	2 h'r	2 h'r	.....	.....	fair.
S. S. Malabar, N. 27° 51′, E. 126° 25′*†	29.72	754.9	.....	.....	.....	.....	.....	.....	5	.....	.....	.....	.....	0	0	mod.	sw.	
S. M. P. Grace, N. 6° 33′, W. 30° 40′*	29.94	760.5	77	25.0	.....	se tosw	.....	.....	2	.....	.....	.....	s.	2 h'r	2 h'r	long	sw.	rainy.
S. S. Nebo, N. 46° 47′, W. 47° 59′*†	30.00	762.0	.....	.....	.....	n.	.....	.....	2	.....	10	.....	s.	4 h'r	4 h'r	short	sw.	cloudy.
Bk. Orpheus, N. 39° 00′, W. 56° 00′	30.11	764.8	76	24.4	.....	nw.	.....	.....	3	.....	5 k	.....	.....	.....	.....	sm'h	w.	fine.
S. Paramita, S. 52° 12′ W. 90° 51′†	29.38	746.2	44	6.7	.....	nw.	.....	.....	.....	.....	5?	.....	nnw.	0	0	long	nw.	cloudy?
Bk. Peppina, Newport, England†	29.82	757 4	64	17.8	62	ssw.	.....	.....	3	.....	8	.....	sw.	shr's	sh'rs	.....	.....	light rain.
S. S. Ponca, S. 16° 45′, W. 38° 09′†..	30.07	763.8	79	26.1	.....	nnw.	.....	.....	1	.....	6	.....	nw.	0	0	mod	e.	fair.
Bg. Potomac, N. 8° 53′, W. 57° 23′*†	29.95	760.7	.....	.....	.....	e.	.....	.....	3	.....	.....	.....	e.	0	0	sm'h	e.	fine
Bk. Rosebud, S. 28° 56′, W. 10° 45*†	30.40	772.1	67	19.4	74	ene.	.....	.....	6	.....	0	.....	.....	0	0	sm'h	.....	
S. Salisbury, S. 15° 04′ E. 105° 00′*	30.06	763.5	73.4	23.0	74	ese.	.....	.....	6	.....	6	.....	ese.	½ h'r	½ h'r	long	s.	fair.
S. S. Sunbeam, N. 49° 29′, W. 6° 24′	29.77	756.1	59.5	15.3	70	ssw	.....	.....	6	.....	3	.....	wsw.	.....	.....	mod	wsw.	showery.
Bg. Teneriffe, Cardenas, Cuba, W. I.	30.04	763.0	.....	.....	.....	e.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	fine.
Bk. Truro, N. 50° 00′, W. 0° 30′*†	29.90	759.4	.....	.....	.....	s.	.....	.....	2	.....	6	.....	ssw.	2 h'r	2 h'r	.....	.....	fair.
U.S.F.C.S.S.Fish Hawk, Point Lookout Md†.	30.35	770.9	73	22.8	90	sw.	.....	.....	3	.....	9	.....	wsw.	0.71	18.0	.....	.....	cloudy.
S. S. Victoria J. Peed, Salamanca Id, U. S. C.	.....	.....	.....	.....	.....	ne.	.....	.....	2	.....	1	.....	.....	.....	.....	.....	.....	
Bk. Vincenzo Accame N. 36° 50′, W. 23° —′†	30.47	774.0	69.8	21.0	.....	ne.	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	
Schr Viola Reppard, Brunswick, Ga†	30.01	762.2	82	27.8	.....	wnw.	.....	.....	1	.....	1	.....	calm	0	0	.....	.....	clear.
Bkt. Wandering Jew, Boston, Mass†*	30.12	765.0	71	21.7	.....	wnw.	.....	.....	2	.....	3	.....	nw.	0	0	.....	.....	clear.
Bk. Warden Law, N. 46° 56′ W 14° 10′*.	29.487	748.87	.....	.....	.....	wnw.	.....	.....	4	.....	4	.....	sw.	3 h'r	3 h'r	mod.	wnw.	fair.
Bg. Wauburn, N. 31° 28′, W. 71° 08′*†.	30.00	762.0	.....	.....	.....	ne.	.....	.....	4	.....	4	.....	ne.	0	0	mod.	.....	
Bk. Wm. Wilcox, S. 9° 10′ W. 34° 30′*†	30.20	767.1	80	26.7	.....	ese.	.....	.....	3	.....	2	.....	se.	6 h'r	6 h'r	mod.	se.	fair.
S. Wm. Woodbury, N. 35° 58′ W. 57° 18′*	30.19	766.8	72	22.2	?	n.	.....	.....	2	.....	4	.....	n.	.....	.....	cross	n.	clear.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 24, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.94	760.5	75.9	24.4	69	sw.			1		1			0	0	very fair	Moiroud.
Algiers			29.98	761.5	77.7	25.0	65	w.			2		0			0.31	0.8	clear	Nicolas.
La Galle			29.97	761.1	79.5	26.4	87	e.			2		3			0	0	pretty fair	Fonfrède.
Tunis			30.03	762.7															Jacques.
Saida			30.07	763.7	88.5	31.4	41	sw.			3		0			0	0	clear	Perès.
Tebessa			30.06	763.6	90.7	32.6	18	sse.			3		2			0.197	5.0	fair	Derché.
Geriville					90.3	32.4	3	wnw.			4		2			inap.	inap.	fair	Lonchamp.
Laghouat			30.10	764.4	95.0	35.0	41	e.			1		0			0	0	clear	Abraham.
Biskra			30.05	763.3	100.0	37.8	17	se.			5		7			0	0	very cloudy.	Malau.
Australian.																			
Melbourne, Victoria	29.76	755.9	29.85	758.2	51.3	10.7	83	ssw.	13	5.8			3			0.27	6.9	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.50	749.3	30.02	762.6	78.4	25.8	42	ne.			2		0			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.39	746.6	30.15	765.7	68.7	20.4	61	ene.	5.6	2.5			5			0.012	0.3		Dr. Wierzbiski.
Eperies	29.21	742.0	30.07	763.7	67.3	19.6	55	n.			2	cs	4 s		s.	0.098	2.5		Julius Mikolik.
Gratz	28.84	732.4	30.04	762.9	73.0	22.8	69	ne.			1		3			0	0		Andreas Rospini.
Hermannstadt	28.54	725.0	29.93	760.1	69.8	21.0	68	se.			3		5			0.346	8.8	thnd'r st'rm	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.77	730.7	30.05	763.3	75.9	24.4	52	calm			0		0			0	0	clear	The Staff.
Lemberg	29.08	738.7	30.04	763.1	67.1	19.5	50	ne.			2		6			0.012	0.3		Dr. T. Stanecki.
Pola	29.95	760.6	30.05	763.3	82.0	27.8	70	s.			2		5			0	0		I. R. Hydrographic Office.
Szathimar	29.50	749.2	29.95	760.6	71.2	21.8	45	ne.			5		9			0.197	5.0		Joseph Midlinszky, S. J.
Szegedin	29.72	754.9	29.99	761.8	70.5	21.4	60	s.			1		5			0	0		Karl Stancel.
Trieste	29.97	761.3	30.08	763.9	80.2	26.8	47	calm			0		0			0	0		Royal Academy.
Vienna	29.41	747.0	30.10	764.5	75.9	24.4	35	n.			2		1			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.91	759.7	30.01	762.2	55.6	13.1	86	sse.	15	6.7			4			0.145	3.7	blue sky	W. Boswell
Armagh, Observatory																			S. Oall.
Bidston, Liverpool Obs'y			29.87	758.7	65.2	18.4	51	sse.	16	7.2			3					d clouds	John Hartnup.
Bolton, Sharples	29.37	746.0	29.90	759.4	60.3	15.7	63	sse.	12	5.4			7					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.55	750.6	29.94	760.5	64.0	17.8	53	se.			1		5			0.28	7.1	d. clouds	[A.S. J. McLandsborough, F. R. Corpl. J. Surgenor, A. H.C.
Bridgetown, Barbadoes																		overcast	John McLaren.
Cardington			29.94	760.5	68.0	20.0	64	s.			1.0		8			blank	blank	d. clouds	Lance Cpl. G. A. Pickles.
Chatham, School M. E.	29.86	758.4	29.98	761.5	66.6	19.2	62	ssw.			1		6					foggy	The Staff.
Falmouth, Observatory	29.61	752.1	29.83	757.7	57.1	13.9	87	sse.			4		10						Pvt. Lane, A. H.C
Fort Napier, Natal	27.88	708.1	30.10	764.5	66.0	18.9	23	e.			1		5					d. clouds	Sergt. John Robinson.
Free Town, Sierra Leone	29.59	751.6	29.82	757.4	80.0	26.7	74	nw.			1		3					blue sky	Cpl. O. Baldwin.
Gibraltar, Mediterranean	29.98	761.5	30.03	762.7	78.5	25.8	73	sw.			4		0					d. clouds	Harry Urquhart, Asst.
Glasgow, Observatory	29.69	754.1	29.90	759.4	61.4	16.3	50	se.			2		7 k					overcast	The Staff.
Greenwich, Royal Obs'y	29.80	756.9	29.96	761.0	66.6	19.2	60	s.			1		9					raining	A. Collenette, F. M. S.
Guernsey	29.63	752.6	29.92	760.0	59.5	15.3	78	s.			2		10					d. clouds	The Staff.
Kew, Observatory	29.94	760.5	29.97	761.2	65.6	18.7	59	e.	13	5.8			8					d. clouds	J. C. Smith.
Leicester, Museum	29.68	753.9	29.93	760.2	61.9	16.6	66	sw.			1		7					blue sky	I. H. Whysall.
Malta, Mediterranean	29.94	760.5	30.01	762.2	76.6	24.8	67	w.			2		0					d. clouds	C. S. Duncombe.
Nassau, Bahamas	30.15	765.8	30.20	767.1	84.0	28.9	74	se.			2		7					d. clouds	Warren Middleton.
Oscott, St. Mary's College	29.41	747.0	29.92	760.0	58.0	14.4	78	ese.			3		7					squally	The Staff.
Oxford, Radcliffe Obs'y	29.72	754.9	29.94	760.5	62.6	17.0	63	sse.			3		10					overcast	John Merrifield.
Plymouth	29.79	756.7	29.87	758.7	60.0	15.6	82	se.			5		10					blue sky	Rev. C. Clouston, L. L.D
Sandwick Manse, Orkneys			29.99	761.7	58.6	14.8	81	ese.	22	9.8			0					d. clouds	W. H. Lyne.
Scutari Cemetery, Turkey	29.80	756.9	29.87	758.7	76.4	24.7	56	nne.			2		6			0.16	4.1	overcast	W. F. Cooper.
Sheffield	29.70	754.4	29.97	761.2	66.8	19.3	59	se.			2		10			0.200	5.1	d. clouds	Rev. F. Redford, M. A.
Silloth Rectory	29.86	758.4	29.89	759.2	61.0	16.1	64	se.			4		8			blank	blank	d clouds	J. New.
Stonyhurst, Observatory			29.93	760.2	61.7	16.5	63	se.	12	5.4			7					d. clouds	Rev. C. H. Griffiths, F.M.S
Stratfield Turgiss	29.75	755.6	29.96	761.0	65.3	18.5	66	se.			3		7					raining	W. Newcombe.
Truro, Royal Institution	29.82	757.4	29.84	757.9	62	16.7	88	se.			4		10					d. clouds	The Met'g'l Office.
Valencia, Observatory	29.67	753.6	29.70	754.4	57.6	14.2	71	ssw.	16	7.2			6			blank	blank		
Canadian.																			Hon. J. Ferguson.
Bathurst, N. B.																inap.	inap.	cloudy	H. J. Cundall, C. E.
Charlottetown, P. E. Island	29.86	758.4	29.90	759.4	59	15.0	76	sw.	8	3.6			10 n			0.06	1.5	clear	G. A. Blair.
Chatham, N. B*	29.83	757.7	29.88	758.9	62	16.7	87	sw.	6	2.7		0	0			0.23	5.8	clear	J. McWilliams.
Father Point, Quebec*	29.84	757.9	29.86	758.4	55	12.8	96	w.	13	5.8		0	2 s		w.	0	0	cloudy	A. Allison.
Halifax, N. S*	29.83	757.7	29.96	761.0	65	18.3	60	s.	4	1.8		7 k	0			inap.	inap.	hazy	A. P. Knight, M. A.
Kingston, Ontario*	29.65	753.1	29.98	761.5	66	18.9	84	nw.	2	0.9		2 c	0			0	0	fair	C. H. McLeod, C. E.
Montreal, Quebec*	29.75	755.6	29.95	760.7	72	22.2	76	sw.	6	2.7		2 ck	0	w.		0.31	7.9	foggy	Rev. R. Mosley.
Parry Sound, Ontario*	29.31	744.5	29.99	761.7	60	15.6	100	e.	2	0.9			fg.			0	0	foggy	H. Morgan.
Port Dover, Ontario	29.33	745.0	30.00	762.0	67	19.4	95	calm	0	0			fg.			0.07	1.8	foggy	M. Payne.
Port Stanley, Ontario	29.36	745.7	29.99	761.7	66	18.9	93	e.	5	2.2			2 s		nw.	0.01	0.3	fair	Capt. Ashe, R. N.
Quebec, Quebec*	29.64	752.8	29.95	760.7	65	18.3	90	nw.			1	0	0			0.07	1.8		W. H. McIntyre.
Rockliffe, Ontario*	29.53	750.0	29.98	761.5	61	16.1	84	calm				0	0			0	0	threatening.	
Saugeen, Ontario*	29.20	743.2	29.94	760.5	72	22.2	84	se.	8	3.6			10 n			0.03	0.8	clear	
St. Andrews, N. B	29.86	758.4	29.91	759.7	57	13.9	84	s.	3	1.3		0	0			0	0	fair	T. C. Hill, C. E
Sydney, C. B*	29.85	758.2	29.91	759.7	66	18.9	60	sw.	6	2.7		3 cs	0	n.		0	0	hazy	Magnetic Observatory.
Toronto, Ontario*	29.63	752.6	30.00	762.0	70	21.1	78	calm	0	0		2 ck	hz.	w.		0	0	foggy	Lt. F. E. Wilmot, R. N
Yarmouth, N. S*	29.91	759.7	29.98	761.5	56	13.3	96	sw.	2	0.9		fg.	fg.			0	0		
Sub-series.																			
Mount Forest	28.63	727.2	30.05	763.3	67.0	19.4	95	wnw.				10 ck	0	wnw.		0.130	3.3	cloudy	Wm. Wylie.
St. Johns, Newfoundland	29.94	760.5	30.19	766.8	52	11.1	54	w.	2	0.9		5 k	5 s			0	c		John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.44	773.2	30.47	773.9	58.0	14.4	93	w.	23.8	10.6			10 n			0.030	0.8	raining	John Duthie.
Cape Town, C. G. H. Obs'y	30.45	773.4	30.49	774.4	62.2	16.8	77	s.	17	7.6		1	6			0.040	1.0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow																0.34	8.6		N. Titoushkin.
Zi-Ka-Wei, near Shanghai.	29.71	754.7	29.74	755.4	73.6	23.1	93	calm	0	0		ck	9 k	w.	w.	0.028	0.7	covered	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	30.19	766.9	30.24	768.1	69.4	20.8	69	se.	14.5	6.5			1						Oversergent Fischer.
Fanöe	30.11	764.7	30.13	765.2	72.9	22.7	70	ese.			6		1						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	30.01	762.2	30.05	763.3	41.7	5.4	91	e.			7		8						A. O. Thorlacius.
Thorshavn	30.04	762.9	30.07	763.8	52.5	11.4	89	ne.	7	3			10						Overloerer Bergh.
Vestervig	30.07	763.8	30.16	766.1	72.0	22.2	68	e.			6		1						Loerer Oesterbol.
FRENCH.																			
Agen, Normal School	29.30	744.2	29.92	760.0	81.7	27.6	64	calm			0	2 c	0			0	0		M. Labroue, Director.
Alençon, Normal School	29.46	748.3	30.01	762.3	62.2	16.8	91	se.			1		k			0.08	2.		M. Nicot, Director.
Arras, Engineer School	29.82	757.3	30.07	763.7	67.5	19.7	74	se.			2		kn		se.	0.028	0.7		M. Fénéon, Command't.
Avignon, Normal School	29.96	761.0	30.04	763.0	86.0	30	47	ne.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.48	748.8	30.02	762.6	70.0	21.1	72	n.			1		8		w.	0.532	13.5	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.76	755.8	30.01	762.3	65.5	18.6	64	ene.			1		5		e.	0.028	0.7	cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.04	737.5	29.99	761.7	82.8	28.2	60	sse.			1	c	0	nnw.		0	0		M. Gobin, Director.
Bordeaux, Observatory	29.63	752.7	29.89	759.1	76.6	24.8	55	s.			2		5			0	0	cloudy	M. Rayet, Director.
Bourges, Normal School	29.45	747.9	29.97	761.3	75.2	24	60	se.			2	c	0	se.		0.083	2.1		M. Postel, Director.
Brest, Naval Observatory	29.63	752.6	29.87	758.7	56.5	13.6	95	sse.			3		9		sse.	0	0		M. de Kermaree, Dir.
Caen, Normal School	29.90	759.4	29.97	761.3	66.2	19	69	ssw.			2		10			0	0	covered	M. Herson, Director.
Châlons-sur-Marne, N.Sch'l	29.66	753.4	29.97	761.3	69.8	21.0	58	s.			1		5		s.	0.417	10.6	cloudy	M. Jadot, Director.
Charleville, Normal School.	29.49	749.1	29.99	761.7	74.5	23.6	58	ssw.			1		8			0.04	1.	¾ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.61	726.7	29.89	759.1	82.8	28.2	40	ne.			1	2 c	0			0.008	0.2	clear	M. Alluard, Director.
Cluny, Normal School	29.16	740.7	29.98	761.4	83.1	28.4	32	se.			1		3			0	0		M. de Villemontée, Dir.
Commercy, Normal School.	29.17	741.0	30.01	762.3	80.1	26.7	48	ssw.			5		kns	ssw.	ssw.	1.240	31.5		Dr. Coulet, Director.
Gap, Normal School	27.72	704.0	30.13	765.4	83.3	28.5	33					2 c	0	nw.		0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.95	735.3	30.01	762.3	84.7	29.3	29	s.			2		1		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.23	742.5	29.96	761.0	79.5	26.4	54	nw.			2	2 ck	0			0	0	slightly cl'dy	M. Ablard, Director.
Guéret, Normal School	28.40	721.4	29.91	759.6	76.1	24.5	53	sw.			1		5		ne.	0	0	cloudy	M. Rivoire, Director.
Lamballe, Normal School.	29.62	752.4	29.90	759.4	64.8	18.2	60	se.			2		8		se.	0.138	3.5	very cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.33	745.0	29.87	758.8	79.9	26.6	57	sse.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	29.81	757.2	29.91	759.8	61.7	16.5	81	sse.			6		10			0.157	4.0	covered	Lt. T. Carre, Director.
Lyon, St. Genis-Laval	28.95	735.4	29.97	761.1	82.9	28.3	32	s.			2	0	0			0	0	clear	M. André, Director.
Mans, Normal School	29.67	753.6	29.97	761.3	67.6	19.8	65	se.			1		5		se.	0.142	3.6	cloudy	M. Piboen, Director.
Marseille, Observatory	29.80	756.8	30.06	763.5	79.0	26.1	54	ssw.			1.2		5		sw.	0	0		M. Stephan, Director.
Montlouis	24.93	033.1	29.77	756.1	68.4	20.2	32	wsw.	15.0	6.7			4	w.		0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.91	759.8	30.04	763.0	78.4	25.8	55	s.			2		2			0	0	slightly cl'dy	M. Galzin, Director.
Nancy, Normal School	29.24	742.7	29.98	761.6	82.0	27.8	89	ssw.			1					0.539	13.7		M. Hasse, Director
Nantes, Observatory	29.80	756.9	29.96	761.0	68.2	20.1	65	wnw.			0–1		10 n			0	0		M. Larocque, Director.
Perpignan, Observatory	29.87	758.6	29.97	761.2	81.9	27.7	52	s.	15.0	6.7			1	s.		0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.38	543.1			48.2	9.0		wsw.			2		5		wsw.	0.004	0.1	cloudy	Gen'l de Nansouty, Dir.
Privas, Normal School	29.03	737.3	30.08	764.0	83.1	28.4	32	n.			1		0			0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.24	641.1			61.2	16.2	80	se.			2	c	2 k			0.008	0.2	¼ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	29.88	759.0	29.91	759.8	75.2	24.0	100	s.			1		5		sw.	0	0	½ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.68	753.8	29.89	759.1	69.8	21	70	ese.			2		5	sw.	e.	0.146	3.7	cloudy	M. Mouillot, Director.
Rodez, Normal School	28.12	714.2	30.18	766.6	77.4	25.2	39	e.			3	c	0			0	0		M. Seger, Director.
Rouen, Normal School	29.97	761.1	30.01	762.3	63.0	17.2	73	s.			1		10	w.		0.126	3.2	covered	M. Brotier.
Saint Maur, Observatory	29.84	758.0	30.01	762.2	70.9	21.6	60	calm			0		6	sw.	se.	0.169	4.3		M. Renou, Director.
Toulouse, Observatory	29.26	743.2	29.98	761.6	85.5	29.7	40	sse.			4		1	w.		0	0	clear	M. Baillaud, Director.
Tours	29.77	759.1	29.95	760.6	70.2	21.2	73	se.			1		8	sw.	se.	0.622	15.8	stormy	M. de Tastes.
Versailles, Observatory	29.51	749.5	30.00	762.0	69.8	21.0	59	se.			2					0.055	1.4		Dr. A. Derigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.73	755.1	30.02	762.5	69.8	21.0	69	ene.			0.5		8	wsw.	se.	0.110	2.8		M. Marié Davy, Director
GERMAN.																			
Bamberg	29.24	742.6	30.10	764.4	82.8	28.2	46	ne.			2	o	3 k		n.	0	0		Prof. Dr. Hoh.
Berlin	29.08	703.9	30.25	768.3	77.9	25.5	46	se.			2		8			0	0		Prof. Dr. Arndt.
Breslau	29.69	754.1	30.22	767.7	74.8	23.8	36	ene.			2		4			0	0		Royal University Obs'y.
Carlsruhe	29.59	751.5	30.00	762.1	83.8	28.8	49	e.			1		1	sw.		0	0	foggy	Albert Senz.
Cassel	29.34	745.3	30.06	763.4	88.9	31.6	39	ne.			4		5	s.		0	0		Dr. H. Mohl.
Frankfort-on-the-Main	29.66	753.3	30.00	761.9	84.6	29.2	41	se.			1		2			0	0		Physical Society.
Friedrichshafen	28.64	727.4	30.01	762.3	74.5	23.6	65	sw.			2		1	w.		0	0		Wilhelm, Chief Tel.
Hamburg	30.04	762.9	30.13	765.3	79.3	26.3	37	ese.			3		3			0.346	8.8		E. Preller.
Kiel	30.12	765.1	30.14	765.5	73.6	23.1	65	e.			3		2			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.71	754.7	30.11	764.9	79.9	26.6	36	e.			2		1			0	0		H. Leppig, Asst.
Magdeburg	29.93	760.1	30.11	764.9	59.2	15.1	72	ese.			2	o	1 k			0	0		Dr. Assmann.
Memel	30.26	768.6	30.31	769.8	76.3	24.6	32	ene.			2	o	1 k						Issermann.
Munich	28.30	718.7	30.17	766.2	77.9	25.5	34	e.			2		1			0	0		Central Station.
Neufahrwasser	30.28	769.0	30.29	769.4	65.5	18.6	68	nne.			1		1			0	0		A. Lothes.
Neustadt, Palatinate	29.50	749.4	30.03	762.7	84.2	29.0	46	e.			2					0	0		Dicknether.
Stuttgart	29.09	738.9	29.93	760.1	85.1	29.5	30	se.			1		1			0	0		Prof. Dr. Schoder.
Wustrow	30.19	766.9	30.22	767.6	76.8	24.9	75	se.			3	o	5 k			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.50	749.2			84.7	29.3		sw.			2.0		2			0	0	clear	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.56	750.7	29.60	752.0	87.9	31.1	73	wsw.	33.0	14.8			7		w.	0	0	gloomy	
Deesa	30.08	738.0	29.53	750.2	97.0	36.1	38	sw.	18.1	8.1			0			0	0	blue sky	
Bombay	29.74	755.3	29.77	756.2	82.5	28.1	89	sw.	14.0	6.3			3	ssw.		0.01	0.3	d. clouds	
Poona, Yarrowda	27.90	708.0	29.74	755.3	82.0	27.8	61	wsw.	19.0	8.5			8	w.	w.	0	0	d. clouds	
Trichinopoly	29.48	748.7	29.75	755.7	91.3	32.9	41	nw.	1.0	0.4			10			0	0	overcast	
Bellary	28.26	717.8	29.70	754.4	87.0	30.6	43	w.	12.9	5.8			10			0	0	gloomy	
Belgaum	27.28	692.9	29.83	757.6	73.6	23.1	79	wsw.	8.0	3.6			8	e.	sw.	0.08	2.0	showery	
Lahore	28.65	727.8	29.35	745.5	105.3	40.7	29	calm	2.9	1.3			4			0.03	0.8	misty	
Roorkee	28.57	725.6	29.43	747.5	93.6	34.2	42	nw.	1.9	0.8			0			0	0		
Agra	28.96	735.6	29.51	749.6	87.2	30.6	62	n.	5.0	2.2			8		n.	0.07	1.8	d. clouds	
Nagpur	28.57	725.6	29.57	751.1	96.1	35.6	29	nw.	5.7	2.6			0		w.	0	0	d. clouds	
Jubbulpore	28.27	718.1	29.60	751.9	85.8	29.9	60	nw.	5.8	2.6			3		nw.	0	0	d. clouds	
Lucknow	29.09	738.8	29.45	748.0	97.0	36.1	42	wsw.	6.3	2.8			0			0	0	blue sky	
Allahabad	29.18	741.3	29.48	748.9	94.4	34.7	54	sw.	4.6	2.1			0			0	0	blue sky	
Patna	29.32	744.8	29.50	749.3	96.1	35.6	52	w.	5.4	2.4			5	w.	w.	0	0	d. clouds	
Hazaribagh	27.55	699.8	29.49	749.1	90.6	32.0	40	n.	7.9	3.5			4	n.	s.	0	0		
Cuttack	29.51	749.5	29.59	751.5	87.0	30.6	68	se.	0.0	0.3			6			0.36	9.1	d. clouds	
Calcutta, Alipore	29.54	750.2	29.56	750.8	88.5	31.4	71	sw.	4.0	1.8			9			0.04	1.0	d. clouds	
Dhubri	29.44	747.8	29.56	750.8	82.4	28.0	85	calm	4.0	1.8			1			0	0	d. clouds	
Chittagong	29.58	751.3	29.67	753.0	76.1	24.5	92	wnw.	3.9	1.7			9			0.07	1.8	d. clouds	
Sibsagar	29.24	742.6	29.57	751.0	83.4	28.6	82	sw.	4.0	1.8			10	w.	w.	0.09	2.3	d. clouds	
Jeypore	28.10	713.7	29.48	748.7	98.7	37.1	30	w.	9.3	4.2			2		w.	0	0	blue sky	
Zanzibar, Africa	30.04	763.0			83.1	28.4	56	sse.	7.0	3.1			3		se.	0	0	d. clouds	
ITALIAN.																			
Udine	29.67	753.5	30.06	763.5	83.3	28.5	59	sw.	1.8	0.8			4			0	0		Prof. Giovanni Clodig.
Milan	29.54	750.4	30.04	763.0	83.8	28.8	38	nw.	4.9	2.2			3	nw.		0	0		Prof. Schiaparelli.
Padua	29.94	760.4	30.04	763.1	82.9	28.3	46	ene.	3.8	1.7			8	w.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.14	740.2	30.02	762.4	83.8	28.8	38	se.	2.5	1.1			3			0	0		Prof. P. F. Denza.
Genoa	29.89	759.3	30.08	764.0	74.8	23.8	57	sw.	3.1	1.4			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.18	715.7	30.01	762.3	79.2	26.2	40	ne.			2		0			0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
ITALIAN.—Continued.																			
Pesaro	30.00	762.0	30.05	763.2	75.7	24.3	80	ne.	6.3	2.8			0			0	0		Prof. Luigi Guidi.
Florence	29.77	756.2	30.02	762.5	84.2	29.0	39	wnw.			2		0			0	0		Prof. Costantino Pittier
Leghorn	29.92	759.9	30.00	762.0	75.9	24.4	65	w.	0.7	0.3			3			0	0		Prof. P. Monte.
Rome	29.85	758.1	30.02	762.4	86.0	30.0	38	wsw.	8.7	3.9			1			0	0		Prof. P. S. Ferrari.
Lecce	29.76	755.8	30.00	762.0	76.3	24.6	34	nnw.	16.8	7.5			0			0	0		Prof. C. de Giorgi.
Cosenza	29.13	739.9	29.98	761.6	82.8	28.2	73	ese.	4.3	1.9			4	e.		0	0		Prof. D. Conti.
Cagliari																0	0		Prof. A. Pacinotti.
Palermo	29.82	757.4	30.06	763.6	76.6	24.8	52	ne.	8.1	3.6			0			0	0		Prof. G. Giacciatore.
Syracuse	29.98	761.4	30.02	762.5	76.5	24.7	73	nw.	16.1	7.2			0			0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.49	749.1	30.00	761.9	82.5	28.0	60	sw.	5.6	2.5			1	sw.		0	0		Prof. T. Brioschi.
Stelvio	22.41	569.1			52.3	11.3	50	se.			4		6			0.142	3.6	misty	Prof. P. F. Denza.
Valdobbia	22.46	570.4			53.4	11.9	69	e.			2		8			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.69	754.1	29.72	754.9	57.8	14.3	77	e.	4.5	2.0		ck	7 s		se.	0	0	cloudy	K. Ogawa.
Hakodate	29.73	755.1	29.74	755.4	55.0	12.8	92	wsw.	1.8	0.8			8			0	0	cloudy	
Hiroshima, I. M. Obs'y	29.56	750.8	29.57	751.1	69.6	20.9	96	ssw.	4.6	2.1			10 n			0.086	2.2	light rain	I. Sogawa.
Kanazawa	29.80	756.9	29.90	759.4	64.5	18.1	93	e.	5.6	2.5			10 n			0.780	19.8	raining	S. Endo.
Kioto	29.42	747.2	29.59	751.6	69.7	20.9	97	nnw.	2.2	1.0			10 n			0.665	16.9	light rain	M. Tojima.
Kochi	29.61	752.1	29.63	752.6	71.1	21.7	98	s.	3.0	1.3			10 n			0.803	20.4	light rain	K. Kusunose.
Nagasaki, I. M. Obs'y	29.46	748.3	29.65	753.1	70.9	21.6	98	sw.	1.3	0.6			10 n			0.440	11.2	light rain	S. Takehayashi.
Nemuro	29.50	749.3	29.56	750.8	53.0	11.7	100	ne.	12.0	5.4		10	0					rainy	
Niigata	29.59	751.6	29.63	752.6	65.9	18.8	84	nne.	10.4	4.6			10 n			0.350	8.9	light rain	M. Morita.
Nobiru	29.71	754.6	29.72	754.9	60.9	16.1	83	e.	8.8	3.9			10 s			0.120	3.0	covered	H. Midzushima.
Supporo					53.2	11.8	86	nw.	7.2	3.2			10			0.100	2.5	covered	
Tokei Obs'y, Yeddo	29.62	752.3	29.69	754.1	64.3	17.9	97	n.	3.6	1.6			10 n			1.296	32.9	raining	The Staff.
Wakayama	29.55	750.6	29.61	752.1	71.2	21.8	97	calm	0	0			10 n			0.767	19.5	raining	Y. Kuwamura.
MAURITIUS																			
Mauritius Observatory	29.97	761.2	30.16	766.1	73.8	23.2	74	e.	20.5	9.2		2ck;cs	5 ks;n	e.	ese.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.74	603.1	29.96	761.1	61.7	16.5	85	calm	0	0			10 kn			0	0	covered	Prof. Vicente Fernandez.
Leon	24.38	619.2	30.01	762.2	61.2	16.2	83	nw.			1	8 c	0	s.		0	0	cloudy	Prof. M. Leal.
Mazatlan	29.78	756.5	30.04	763.1	75.0	23.9	93	ne.	0.9	0.4			10 n		s.	0.650	14.5	covered	F. Quijano, C. E.
Mexico, Central Obs'y	23.16	588.2	30.19	766.7	55.6	13.1	77	calm	0	0		2 c	1 k			0.114	2.9		The Staff.
Morelia	24.17	614.0	30.23	767.9	60.3	15.7	49	n.			3	4	4	ne.	ne.	inap.	inap.	cloudy	M. Tena, M. D.
Pabellon, Aguascalientes	24.00	609.6	29.98	761.6	61.3	16.3	86	calm			0	1 ck	0	e.		0	0	clear	M. V. de Leon, M. E
Puebla, Catholic Institute	23.48	596.3	30.30	769.5	50.7	10.4	80	calm	0	0		0	0			0.043	1.1	fine	Prof. P. Spina.
San Luis Potosi	24.32	617.7	30.23	767.8	65.2	18.4	66	e.				3	1	w.	e.	0	0	clear	G. Barroeta, M. D.
Zacatecas	22.64	575.1	30.24	768.2	54.2	12.0	81	ene.	8.4	3.7		0	3 s			0	0	clear	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.06	763.4	30.06	763.4	65.3	18.5		ne.			2					0.039	1.0		
Groningen	30.00	761.9	30.05	763.3	73.9	23.3		s.			1					0.126	3.2		
Helder	30.06	763.4	30.06	763.4	63.7	17.6		wsw.			1					0	0		
Hellevoetsluis	30.04	763.1	30.04	763.1	67.1	19.5	71	ene.			1					0	0		
Utrecht	30.00	762.1	30.05	763.3	71.1	21.7	72	ne.			1		8			0.028	0.7	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	30.10	764.4	30.16	766.0	64.4	18.0	76	nnw	7	3			3			0	0		
Brono	30.22	767.6	30.26	768.6	76.6	24.8	35	ne.	9	4			0			0	0		
Christiania	30.19	766.7	30.33	770.4	66.7	19.3	61	nne.	4	2			10			0	0		
Gjesvær	30.34	770.7	30.37	771.3	48.7	9.3		w.			2		10					foggy	
Lodingen	30.26	768.6	30.31	769.8	71.6	22.0	46	calm			0		0			0	0		
PORTUGUESE.																			
Angra, Azores					69.1	20.6	87	wnw.	4.3	1.9			2			0	0		
Campo Major	29.01	736.9	29.98	761.4	76.8	24.9	39	wnw.	9.8	4.4			0			0	0		Dr. J. A. Sampaio.
Funchal, Maderia	30.15	765.7	30.23	767.9	70.3	21.3	73	s.	3.8	1.7			7			0	0		Dr. A. M. R. dos Santos.
Lisbon, Observatory	29.72	755.0	30.08	764.0	67.1	19.5	68	sw.	14.3	6.4			7			0	0		Capt. D. A. de Cunha.
Ponta Delgada, Azores	30.18	766.5	30.25	768.3	73.4	23.0	72	nw.	8.7	3.9			3			0	0		The Staff.
Saint Paul de Loando	29.82	757.5	30.02	762.6	74.1	23.4	91	nne.	0.7	0.3			5	w.		0	0		
Serra da Estrella	25.33	643.4	29.99	761.7	56.1	13.4	64	nw.	5.6	2.5			1			0	0		
RUSSIAN.																			
Akmolinski	28.32	719.3	29.33	744.9	75.4	24.1	40	ssw.	7	3			10 n			0.068	0.2		
Archangel	30.15	765.7	30.17	766.2	68.9	20.5	62	wnw.	2	1		0	8 ks			0	0		Major K. Lasarew.
Astrakhan	29.93	760.1	29.84	758.0	76.8	24.9	58	n.	11	5		0	0			0	0		Capt. Sseliwerstow.
Barnaul	29.17	740.9	29.64	752.9	72.5	22.5	58	calm	0	0			6			0	0		Capt. Wisganow.
Dorpat	30.09	764.2	30.32	770.2	72.5	22.5	34	e.	9	4		0	0			0	0		Meteorological Obs'y.
Ekaterinburg	28.88	733.5	29.83	757.6	55.9	13.3	56	ne.	13	6		0	8			0	0		Observatory.
Irkutsk	28.20	716.2	29.75	755.7	74.7	23.7		calm	0	0			0			0	0		Meteorological Obs'y.
Kasan	29.70	754.4	29.97	761.1	67.1	19.5	41	n.	7	3		0	7			0	0		Observatory.
Kertch	29.78	756.4	29.80	756.9	77.2	25.1	66	se.	4	2		0	3 ks			0	0		Lagorio & Sastyrex.
Kieff	29.39	746.4	30.00	762.1	65.7	18.7	66	ese.	9	4		ck	7 ks			0.713	18.1		Observatory.
Lugan	29.67	753.5	29.87	758.6	70.7	21.5	48	wnw.	9	4			7			0	0		Meteorological Obs'y
Moscow	29.62	752.4	30.09	764.2	64.6	18.1	41	n.	7.8	3.5			3 ks						Meteorological Obs'y.
Nikolaiev	29.85	758.1	29.92	759.9	64.8	18.2	86	n.	13	6			10 n			0.953	24.2		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.85	758.3	29.94	760.5	48.4	9.1	86	calm	0	0			10			0.039	1.0		Lieut. Iwanow.
Pekin, China	29.44	747.8	29.58	751.4	75.6	24.2	57	calm	0	0		0	3 k			blank	blank		Physical Observatory
St. Petersburg	30.26	768.7	30.28	769.1	76.1	24.5	29	nne.	4	2		0	1 ks			0	0		Central Physical Obs'y
Semipalatinsk	28.92	734.6	29.53	750.0	83.5	28.6	38	ne.	9	4			9 n			0.016	0.4		Major Lasarew.
Tashkend, Laboratory	28.21	716.5	29.67	753.6	86.9	30.5	33	calm	0	0			0						Teich, A. M.
Tiflis	28.39	721.2	29.72	754.9	85.5	29.7	39	calm	0	0		0	8 k			0	0		Physical Observatory
Vladivostock	29.70	754.3			54.5	12.5	100	se.	18	8			10 n						
Warsaw	29.78	756.5	30.20	767.0	71.4	21.9	35	e.	11	5		0	1 k						Astronomical Obs'y
Wilna	29.88	758.9	30.28	769.2	72.0	22.2	38	ne.	7	3			7			0	0		Berg, Assistant.
SPANISH.																			
Barcelona, Met. Obs'y	29.91	759.6	30.01	762.2	73.8	23.2	74	e.	3.6	1.6			1			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.82	757.3	29.87	758.8	88.2	31.2	35	s.	2.0	0.9		3	0	w.		0	0	almost clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.02	686.4	29.85	758.3	75.2	24.0	34	se.	4.9	2.2			3			0	0	light clouds	Domingo Martin.
Madrid, Royal Obs'y	27.77	705.4	29.89	759.1	81.7	27.6	36	sw.	13.6	6.1		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.82	757.4	29.95	760.8	82.8	28.2	53	se.	5.1	2.3		0	3			0	0	almost clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.03	737.3	29.92	760.0	57.9	14.4	96	calm	0	0			10			0.752	19.1	raining	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	30.02	762.4	30.08	764.1	79.6	26.4	78	e.	2.2	1.0		3 c;ck	0	nnw.		0.154	3.9	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.82	757.5	29.88	759.0	78.3	25.7	89	ese.	5.1	2.3		6 c	3 ck		e.	0.030	10.0	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.96	760.9	30.06	763.4	75.2	24.0	60	calm	0	0		0	1		w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.05	763.2	30.14	765.5	82.0	27.8	82	e.	12.5	5.6		3 k	5 ku	e.	e.	0.098	2.5	cloudy	Manuel Maese.
Tuguegarao, Philippine Id's	29.75	755.6	29.88	758.9	81.2	27.3	88	nnw.	1.6	0.7		0	2 ck		nw.	0.01	0.3	fair	José L. Yrastorza.
SWEDISH.																			
Haparanda	30.23	767.9	30.27	768.9	74.8	23.8	67	sw.			4		0			0	0		
Umea	30.33	770.3	30.38	771.6	77.4	25.2	39	s.			2		1			0	0		
Hernosand	30.35	771.0	30.41	772.3	69.8	21.0	44	s.			2		0			0	0		
Stockholm	30.20	767.0	30.37	771.5	72.0	22.2	37	ese.			2		0			0	0		
Wisby	30.20	767.1	30.26	768.6	74.8	23.8	34	ese.			4		0			0	0		
Sub-series.																			
Upsala	30.26	768.7	30.35	770.9	73.8	23.2	33	ese.	9.4	4.2			1	ne.		0	0		S. G. Fineman.
SWISS.																			
Geneva	28.65	727.7	30.02	762.4	74.3	23.5	62	nnw.			2					0	0	clear	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
SCOTTISH.																			
Monach Lt			29.87	758.7	59	15.0	93	se.			0.6	10	5	se.		0	0	cloudy	J. Youngclause.
North Unst			30.11	764.8				se.			4	3	7	se.		blank	blank		
TURKISH.																			
Constantinople			29.92	759.9	71.2	21.8	57	n.	10	4.5			6		ne.	0	0		The Observatory.
Valona			30.09	764.2	79.3	26.3		nw.			2		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.85	758.3	82.9	28.3	63	sw.			3	0	0			0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.93	760.2	30.01	762.2	76	24.4	76	sw.	1	0.4			hz.			inap.	inap.	dense haze	J. O. Barnes.
Alpena, Michigan	29.30	744.2	29.94	760.5	64	17.8	90	se.	2	0.9		3 cs	3 ks	sw.	sw.	0	0	fair	Jas. J. Fitzgerald.
Atlanta, Georgia	28.98	736.1	30.13	765.3	77.5	25.3	76	e.	7	3.1		9 k	0			0	0	cloudy	H. Hall.
Atlantic City, New Jersey	30.05	763.3	30.06	763.5	66.3	19.1	90	s.	10	4.5		6 c	0			0	0	fair	Jas. M. Watson.
Augusta, Georgia	30.00	762.0	30.19	766.8	76	24.4	82	s.	1	0.4		9 ck	0	ne.		0	0	cloudy	John Healy.
Baltimore, Maryland	30.02	762.5	30.07	763.8	74	23.3	85	sw.	6	2.7		5 ck;k	hz.	w;sw		0	0	fair	Robert Seyboth.
Barnegat, New Jersey	30.03	762.7	30.05	763.3	66.8	19.3	85	s.	11	4.9		6 cs	0	w.		0	0	fair	Chas. F. Merritt.
Behring Island, Behring Sea	29.88	758.9	29.90	759.4	41.0	5.0		ne.	20	8.9			fg.			inap.	inap.	dense fog	Dr. L. Steineger.
Bismarck, Dakota	28.08	713.2	29.83	757.7	57	13.9	86	nw.	10	4.5		0	0			0.57	14.5	clear	Cyrus Cramer.
Boise City, Idaho	27.18	690.4	29.96	761.0	54	12.2	69	calm	0	0		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.83	757.7	29.98	761.5	75.0	23.9	74	sw.	8	3.6		0	hz.			0	0	clear	O. B. Cole.
Brownsville, Texas	29.95	760.7	29.99	761.7	75.1	23.9	97	s.	1	0.4		0	1 s		calm	0	0	clear	M. McCarty.
Buffalo, New York	29.29	744.0	30.03	762.7	68.4	20.2	90	s.	6	2.7		6cs;ck	hz.	sw.		0	0	fair	Wm. Finn.
Burlington, Vermont	29.66	753.4	29.95	760.7	75.5	24.2	70	s.	5	2.2		4 ck	0	w.		inap.	inap.	fair	G. O. Schaeffer.
Cairo, Illinois	29.66	753.4	30.05	763.3	83.9	28.8	75	s.	1	0.4		0	0			0	0	clear	W. H. Ray.
Campo, California	27.41	696.2	29.89	759.2	38.3	3.5	65	s.	3	1.3		0	0			0	0	clear	W. H. Glendenon.
Camp Thomas, Arizona	27.16	689.9	29.79	756.7	68	20.0	36	se.			1	3 cs	4 k	sw.	sw.	0	0	fair	J. T. Fitzgerald.
Cape Henry, Virginia	30.11	764.8	30.13	765.3	75	23.9	76	sw.	12	5.4		4 c;k	0			0	0	fair	A. K. Alderson.
Cape May, New Jersey	30.03	762.7	30.06	763.5	70.5	21.4	90	s.	8	3.6		6 ck	0	sw.		0	0	fair	W. Bolton.
Cedar Keys, Florida	30.08	764.0	30.10	764.5	80.0	26.7	74	sw.	5	2.2		0	4 k		sw.	0.12	3.0	fair	F. W. Mixer.
Champaign, Illinois	29.17	740.9	29.96	761.0	77.5	25.3	80	s.	6	2.7		4 c	0	sw.		0	0	fair	L. A. Welsh.
Charleston, S. Carolina	30.05	763.3	30.10	764.5	79	26.1	82	ne.	9	4.0		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.29	744.0	30.12	765.0	78.0	25.6	74	s.	4	1.8		5 c	0	w.		0	0	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.31	744.5	30.12	765.0	76.0	24.4	79	ne.	3	1.3		1 cs	0			inap.	inap.	clear	B. L. Goulding.
Cheyenne, Wyoming	24.10	612.1	29.84	757.9	50.3	10.2	57	nw.	8	3.6		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.22	742.2	29.92	760.0	75.8	24.3	88	s.	7	3.1		10 c	0	w.		0	0	cloudy	J. Mitchell.
Chincoteague, Virginia	30.09	764.3	30.11	764.8	68	20.0	100	s.	6	2.7			10 ks		w.	0.93	23.6	cloudy	V. P. Temple.
Cincinnati, Ohio	29.43	747.5	30.08	764.0	75	23.9	82	s.	3	1.3		0	0			inap.	inap.	clear	R. B. Watkins.
Cleveland, Ohio	29.29	744.0	30.02	762.5	72	22.2	86	s.	6	2.7		0	0			0.01	0.3	clear	J. B. Newlin.
Coleman City, Texas	28.17	715.5	29.92	760.0	72	22.2	76	s.	7	3.1		6 cs	0			0	0	fair	L. Dorman.
Columbus, Ohio	29.20	741.7	30.04	763.0	73	22.8	84	sw.	2	0.9		1 ck	0	sw.		0.11	2.8	clear	D. Outhbertson.
Concho, Texas	28.06	712.7	29.93	760.2	73	22.8	76	s.	16	7.2		0	0			0	0	clear	W. W. McConihe.
Davenport, Iowa	29.26	743.2	29.90	759.4	76	24.4	85	sw.	8	3.6		10 k	0	sw.		0	0	cloudy	R. R. Martin.
Dayton, Washington T'y	28.30	718.8	30.04	763.0	46.3	7.9	79	e.	4	1.8		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.42	645.7	29.85	758.2	52	11.1	86	s.	2	0.9		4 k	0	w.		0.01	0.3	fair	G. W. Scott.
Decatur, Texas																			D. J. Carr.
Delaware Breakwater, Del	30.06	763.5	30.08	764.0	73	22.8	84	sw.	20	8.9		6 ck	hz.	sw.		0	0	fair	F. C. Pratz.
Denison, Texas	29.18	741.2	29.96	761.0	75.3	24.1	76	s.	8	3.6		10 cs	0			0	0	cloudy	J. McGlone.
Denver, Colorado	24.77	629.1	29.81	757.2	57.0	13.9	45	se.	8	3.6		1 c	0	w.		0	0	clear	F. M. Neal.
Des Moines, Iowa	28.94	735.1	29.82	757.4	75	23.9	85	sw.	6	2.7		5 ck	0	w.		0.14	3.6	fair	F. W. Conrad.
Detroit, Michigan	29.30	744.2	29.99	761.7	74.0	23.3	85	se.	3	1.3		5 cs	0	w.		0	0	fair	C. F. R. Wappenhans.
Dodge City, Kansas	27.26	692.4	29.77	756.1	74	23.3	64	s.	6	2.7		6 cs	0			0	0	fair	E. A. Thomas.
Dubuque, Iowa	29.14	740.1	29.83	757.7	76.3	24.6	85	s.	3	1.3			10 s		sw.	0	0	threatening	J. Harvey Smith.
Duluth, Minnesota	29.08	738.6	29.77	756.1	64	17.8	84	nw.	7	3.1		0	7 s		nw.	1.42	36.1	fair	N. B. Conger.
Eagle Pass, Texas	29.22	742.2	30.01	762.2	77.0	25.0	76	se.	2	0.9		0	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.32	643.1	29.91	759.7	37	2.8	74	s.	6	2.7		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.86	758.4	29.93	760.2	58.0	14.4	74	s.	6	2.7		7 ck;k	hz.	w.		0.02	0.5	fair	D. C. Murphy.
El Paso, Texas	26.24	666.5	29.82	757.4	72	22.2	55	ne.	6	2.7		3 c	0	calm		0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.30	744.2	30.02	762.5	74	23.3	76	s.	1	0.4		5 c	0			0.20	5.1	fair	Peter Wood.
Escanaba, Michigan	29.20	741.7	29.85	758.2	66	18.9	100	s.	5	2.2			10 n			0.12	3.0	thnd'er st'rm	C. Dill.
Fort Apache, Arizona	25.04	636.0	29.79	756.7	49	9.4	50	ne.	3	1.3		0	6 s		calm	0	0	fair	W. C. Barnes.
Fort Assinnaboine, Montana	27.21	691.1	30.00	762.0	48	8.9	71	sw.	12	5.4		1 c	0	sw.		0	0	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.26	717.8	29.80	756.9	61	16.1	90	nw.	15	6.7		0	0			0.15	3.8	clear	A. Pritchard.
Fort Benton, Montana	27.25	692.1	30.02	762.5	50	10.0	80	w.	5	2.2		0	1 s			0	0	clear	G. W. Davis.
Fort Buford, Dakota	27.94	709.7	29.90	759.4	57	13.9	77	s.	5	2.2		7 k	0	calm		0.32	8.1	fair	A. H. Bell.
Fort Custer, Montana	26.91	683.5	29.97	761.2	55	12.8	69	w.	8	3.6		0	0			0.02	0.5	clear	V. Verge.
Fort Davis, Texas	25.17	639.3	29.73	756.4	72	22.2	57	sw.	5	2.2		0	0			0	0	clear	J. Williams.
Fort Elliott, Texas	27.17	690.1	29.84	757.9	70	21.1	72	sw.	4	1.8		7 c	0	sw.		0	0	fair	W. J. Cundall.
Fort Grant, Arizona	25.25	641.3	29.79	756.7	69.4	20.8	22	e.	3	1.3		3 cs	3 s			0	0	fair	Robert C. Lord.
Fort Keogh, Montana	27.49	698.2	29.92	760.0	54	12.2	72	sw.	8	3.6		0	0			0.27	6.9	clear	W. B. Stockman.
Fort Macon, North Carolina	30.14	765.5	30.15	765.8	78	25.6	88	se.	4	1.8		3 k	0			0	0	clear	W. W. Thomas.
Fort McKavett, Texas	27.77	705.3	29.97	761.2	71	21.7	82	se.	16	7.2		3 cs	0			0	0	fair	J. E. Thatcher.
Fort Missoula, Montana	26.82	681.2	30.08	764.0	45	7.2	63	sw.	2	0.9		0	0			0.17	4.3	clear	J. H. Jones.
Fort St. Michaels, Alaska	29.94	760.5	29.98	761.5	57	13.9	87	calm	0	0		0	8 ks			0	0	fair	A. P. Leavitt.
Fort Shaw, Montana	26.44	671.6	30.01	762.2	44	6.7	76	w.	6	2.7		6 k	0	w.		0.03	0.8	fair	A. L. Mathews.
Fort Sill, Indian Territory	28.72	729.5	29.92	760.0	77	25.0	70	s.	9	4.0		4 ck	0	w.		0	0	fair	T. Cleary.
Fort Smith, Arkansas	29.52	749.8	29.98	761.5	78.5	25.8	88	e.	2	0.9		0	0			0	0	clear	J. B. Campbell.
Fort Stevenson, Dakota	28.02	711.7	29.82	757.4	58	14.4	93	sw.	5	2.2		0	4 ks			0.18	4.6	fair	W. Burrows
Fort Verde, Arizona					57.2	14.0	35	w.			1	0	0			0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.55	623.6	29.93	760.2	45.2	7.3	82	w.	3	1.3			9 k			0	0	cloudy	T. M. Ambler.
Fredericksburg, Texas	28.30	718.8	29.98	761.5	69	20.0	97	sw	6	2.7		0	0			0	0	clear	H. S. Miles.
Galveston, Texas	30.01	762.2	30.06	763.5	81	27.2	85	sw.	4	1.8		0	5 ks		se.	0	0	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.26	743.2	29.91	759.7	73.0	22.8	83	s.	14	6.3			10 s		sw.	0	0	cloudy	W. A. Reid.
Hatteras, North Carolina	30.14	765.5	30.16	766.1	78	25.6	88	s.	5	2.2		3 c	0	w		0	0	clear	R. M. Crawford.
Helena, Montana	25.87	657.1	29.99	761.7	48	8.9	71	sw.	1	0.4		0	0			0	0	clear	S. Wheaton.
Henrietta, Texas	29.02	737.1	30.00	762.0	82.0	27.8	67	s.	12	5.4		4 cs	0			0	0	fair	J. W. Byram.
Huron, Dakota	28.37	720.6	29.71	754.6	63.9	17.7	81	e.	11	4.9		0	7 ks		nw.	0.04	1.0	clearing	S. W. Glenn.
Indianapolis, Indiana	29.24	742.7	30.02	762.5	79.5	26.4	73	calm	0	0		0	0			0	0	clear	O. Schutze
Indianola, Texas	30.01	762.2	30.04	763.0	78.8	26.0	88	s.	4	1.8		0	2 k		s.	0	0	clear	I. A. Reed.
Jacksboro, Texas	28.79	731.3	29.91	759.7	78	25.6	64	s.	10	4.5		6 cs	0		e.	0	0	fair	J. P. Sherry.
Jacksonville, Florida	30.08	764.0	30.12	765.0	81	27.2	74	se.	1	0.4		0	0			0	0	clear	J. W. Smith.
Keokuk, Iowa	29.26	743.2	29.90	759.4	82.0	27.8	74	sw.	6	2.7		5 cs	0	w.		0	0	fair	F. Z. Gosewisch.
Key West, Florida	30.07	763.8	30.09	764.3	85.0	29.4	67	se.	9	4.0		0	4 ks			0.25	6.3	fair	R. H. Paxton.
Kittyhawk, North Carolina	30.17	766.3	30.19	766.8	77	25.0	82	sw.	12	5.4		3 c	0	n.		0	0	clear	E. A. Beals.
Knoxville, Tennessee	29.12	739.6	30.12	765.0	74.3	23.5	84	sw.	2	0.9		5 c	0			0	0	fair	J. A. Cody.
La Crosse, Wisconsin	29.06	738.1	29.82	757.4	67	19.4	93	n.	18	8.0			10 n			0.96	24.4	light rain	S. C. Emery
La Mesilla, New Mexico	26.08	662.4	29.80	756.9	65.0	18.3	41	calm	0	0		4 c	0			0	0	fair	N. D. Lane.
Leavenworth, Kansas	28.98	736.1	29.85	758.2	78	25.6	69	s.	6	2.7		2 cs	0	w.		0	0	clear	A. W. Browne.
Lewiston, Idaho	29.24	742.7	30.06	763.5	54.0	12.2	62	e.	1	0.4		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.69	754.1	30.00	762.0	79	26.1	91	calm	0	0		0	0			0	0	clear	W. U. Simmons.
Los Angeles, California	29.59	751.6	29.98	761.5	53.2	11.8	80	w.	1	0.4		0	0			0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.47	748.5	30.02	762.5	75	23.9	82	calm	0	0		0	sk.			0.20	5.1	clear	H. C. Smyth.
Lynchburg, Virginia	29.40	746.7	30.07	763.8	77.0	25.0	74	s.	1	0.4		1 ck	1 s			0.07	1.8	clear	W. R. Bushby.
Madison, Wisconsin	28.95	735.3	29.94	760.5	71	21.7	90	nw.	10	4.5			10 ks		w.	0	0	threatening	C. A. Shaw.
Marquette, Michigan	29.10	739.1	29.82	757.4	64	17.8	90	ne.	4	1.8			10 s		sw.	0.10	2.5	cloudy	J. Gilligan.
Memphis, Tennessee	29.70	754.4	30.03	762.7	82	27.8	80	s.	4	1.8		0	0			0	0	clear	D. T. Flannery.

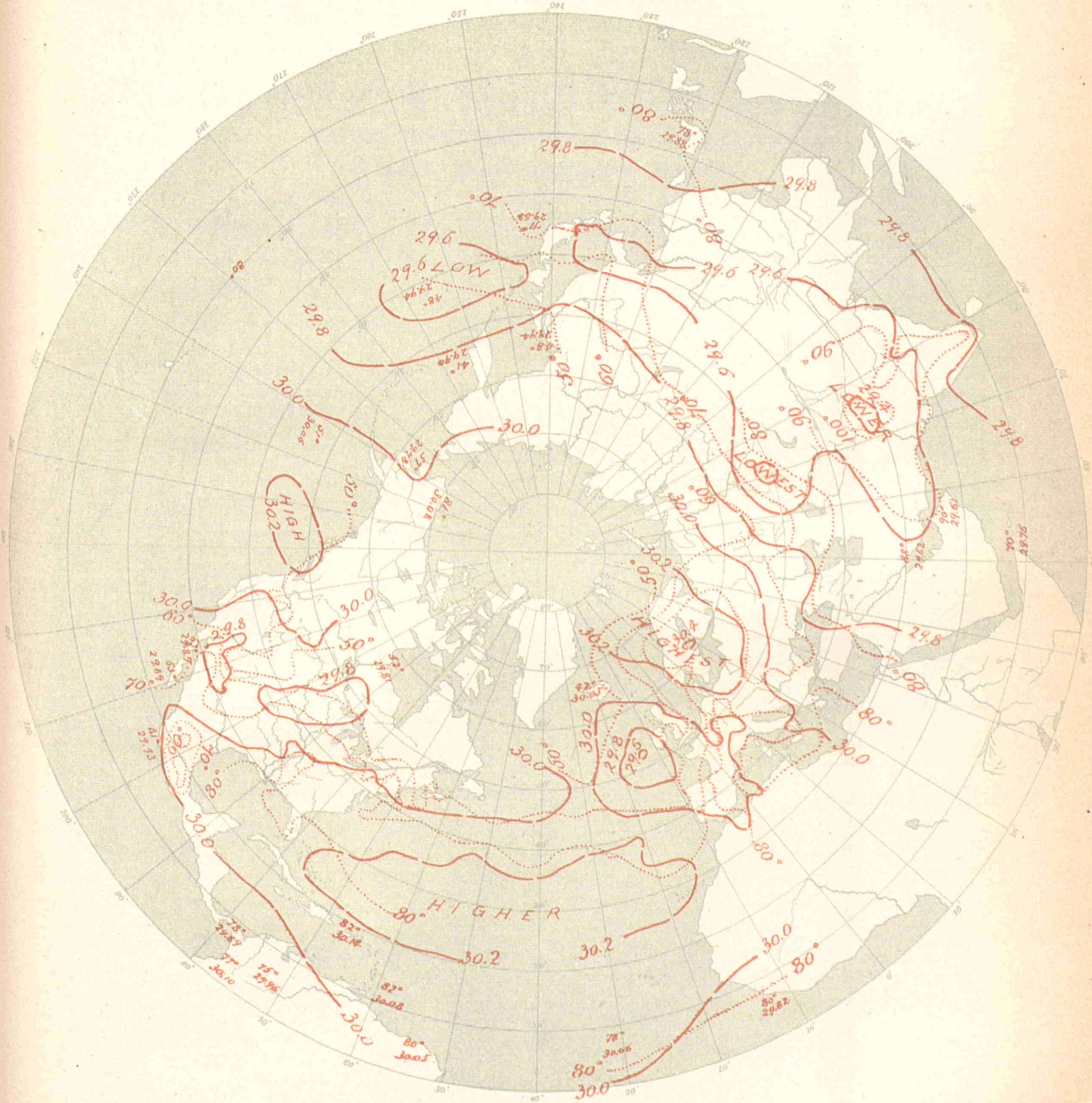
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	29.14	740.1	29.88	758.9	71	21.7	90	s.	8	3.6			10 ks			0	0	threatening.	W. Line.
Mobile, Alabama	30.05	763.3	30.09	764.3	81	27.2	82	e.	3	1.3		0	1 ks			0	0	clear	J. D. Paxton.
Montgomery, Alabama	29.88	758.9	30.11	764.8	77	25.0	82	se.	3	1.3		2 c	0			0.23	5.8	clear	J. B. McLaughlin.
Moorhead, Minnesota	28.80	731.5	29.77	756.1	60	15.6	93	calm	0	0			10 s		n.	0.49	12.4	cloudy	H. Bessant.
Morgantown, W. Virginia	29.08	738.6	30.08	764.0	73.5	23.1	78	calm	0	0		0	hz.			0	0	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.90	607.0	30.02	762.5	51.0	10.6	98	nw.	52	23.3			fg.		nw.	0	0	dense fog	J. G. Linsley.
Nashville, Tennessee	29.54	750.3	30.06	763.5	76.0	24.4	84	calm	0	0		0	fg.			0	0	clear	L. A. Jesunofsky.
New Haven, Connecticut	29.92	760.0	30.03	762.7	68	20.0	90	s.	6	2.7		hz.	hz			0	0	dense haze	J. H. Sherman.
New London, Connecticut	30.00	762.0	30.05	763.3	68	20.0	93	sw.	4	1.8			10 ks			1.69	42.9	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.01	762.2	30.06	763.5	81.0	27.2	79	sw.	5	2.2		3 c	2 s	w.	sw.	0	0	fair	L. Dunne.
Newport, Rhode Island	29.99	761.7	30.04	763.0	69.2	20.7	80	sw.	4	1.8		0	1 ks		sw.	0.02	0.5	clear	W. McGillivray.
New River, N. Carolina					83	28.3	73	se.			1	2 cs	2 s	e.		0	0	fair	C. C. Corbin.
New Shoreham, Rhode I'd.	30.00	762.0	30.03	762.7	67.0	19.4	90	sw.	19	8.5		0	5 s		sw.	0.17	4.3	fair	W. Davis.
New York, New York	29.88	758.9	30.05	763.3	71	21.7	94	sw.	5	2.2		4 cs	0	w.		0	0	fair	J. B. Merrill.
Norfolk, Virginia	30.11	764.8	30.14	765.5	80	26.7	74	sw.	8	3.6		3 cs	0			0	0	clear	J. T. Elker.
North Platte, Nebraska	26.95	684.5	29.75	755.6	65.6	18.7	76	ne.	18	8.0		0	2 s			0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.05	763.3	30.09	764.3	46.0	7.8	88	ne.	2	0.9		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	28.62	726.9	29.76	755.9	80.0	26.7	74	s.	5	2.2		0	0			1.27	32.3	clear	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.07	763.8	30.08	764.0	30.8	— 0.7		s.	5	2.2		4 ck	1 s	nnw.		inap.	inap.	fair	P. H. Ray.
Oswego, New York	29.67	753.6	29.99	761.7	71.5	21.9	83	s.	1	0.4		1 c	0			inap.	inap.	clear	S. W. Beall.
Palestine, Texas	29.51	749.5	30.05	763.3	77.0	25.0	82	w.	7	3.1		1 cs	0			0	0	clear	L. M. Pindell.
Pensacola, Florida	30.06	763.5	30.08	764.0	76.8	24.9	97	e.	4	1.8		0	4 s		s.	1.48	37.6	fair	M. McGauran.
Philadelphia, Pa.	29.96	761.0	30.06	763.5	75	23.9	85	sw.	5	2.2		8 ck	0	w.		0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.99	456.9	29.81	757.2	31	— 0.6	78	w.	24	10.7		1 cs	0	w.		0	0	clear	L. M. Dey.
Plooche, Nevada	23.99	609.3	29.79	756.7	52	11.1	41	s.	2	0.9		7 k	0.	s.		0	0	fair	C. N. Kitchel.
Pittsburg, Pennsylvania	29.24	742.7	30.03	762.7	71.5	21.9	84	calm	0	0		0	fg.			0	0	clear	J. H. Bryce.
Poplar River, Montana	27.79	705.9						sw.			1	0	0			0	0	clear	U. D. Maxwell.
Port Eads, Louisiana	30.08	764.0	30.09	764.3	78.0	25.6	85	w.	1	0.4			10 s			0.11	2.8	cloudy	H. G. Christian.
Port Huron, Michigan	29.31	744.5	29.98	761.5	71.1	21.7	90	s.	6	2.7		4 c	5 ks		s.	0	0	cloudy	W. O. Bailey.
Portland, Maine	29.91	759.7	29.96	761.0	69.0	20.6	70	calm	0	0		0	sk.			0	0	clear	W. W. Eichelberger.
Portland, Oregon	29.97	761.2	30.04	763.0	49.9	9.9	86	calm	0	0		0	0			0	0	clear	M. L. Hearne.
Portsmouth, N. Carolina																			F. P. Chaffee.
Prescott, Arizona	24.80	629.9	29.82	757.4	48	8.9	42	s.	4	1.8		0	0			0	0	clear	J. Mc N. Wright.
Provincetown, Mass.	29.98	761.5	30.00	762.0	71	21.7	82	sw.	9	4.0		0	2 s			0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.09	764.3	30.10	764.5	79	26.1	77	e.	6	2.7		1 c	1 k	calm	calm	0.01	0.3	clear	W. J. Evans.
Red Bluff, California	29.58	751.3	29.94	760.5	60.6	15.9	64	se.	5	2.2		0	2 s			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.80	756.9	30.03	762.7	80	26.7	79	se.	4	1.8		0	0			0	0	clear	P. M. Wilson.
Rochester, New York	29.35	745.5	30.00	762.0	72	22.2	82	w.	3	1.3		2 c	fg.			0	0	clear	E. W. McGann.
Roseburg, Oregon	29.48	748.8	30.03	762.7	50	10.0	86	calm	0	0		5 k	0	sw.		0	0	fair	J. J. Naury.
Sacramento, California	29.89	759.2	29.96	761.0	56.7	13.7	74	s.	11	4.9		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.41	747.0	30.00	762.0	78.0	25.6	82	s.	13	5.8		3 c	0	w.		0	0	clear	J. H. Webber.
St. Paul, Minnesota	28.90	734.0	29.75	755.6	67.0	19.4	90	se.	11	4.9		0	8 ks		s.	0.86	21.8	cloudy	P. F. Lyons
St. Vincent, Minnesota	28.94	735.1	29.79	756.7	52	11.1	86	nw.	5	2.2		7 ck	2 ks	w.	calm	0	0	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.61	650.5	29.83	757.7	58	14.4	49	calm	0	0		8 k	0	sw.		0	0	cloudy	J. Craig.
San Antonio, Texas	29.33	745.0	30.01	762.2	75.5	24.2	85	sw.	1	0.4			9 ks		s.	0	0	cloudy	E. Lane.
San Diego, California	29.88	758.9	29.95	760.7	63.3	17.4	80	sw.	3	1.3			10 s		sw.	0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.34	745.2	30.01	762.2	74.1	23.4	82	sw.	9	4.0		5 c	0	sw.		0	0	fair	M. H. Perry.
Sandy Hook, New Jersey	30.00	762.0	30.04	763.0	74.1	23.6	82	sw.	10	4.5		3 ck	0	sw.		0	0	clear	B. A. Blandon.
San Francisco, California	29.96	761.0	30.03	762.7	53.5	11.9	86	nw.	16	7.2			fg.		w.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.32	592.3	29.83	757.7	63	17.2	39	e.	2	0.9		4 ck	0	sw.		0	0	fair	H. U. Jones.
Savannah, Georgia	30.02	762.5	30.11	764.8	77	25.0	85	n.	6	2.7		2 k	0	ne.		0	0	clear	H. W. Ford.
Shreveport, Louisiana	29.80	756.9	30.03	762.7	79	26.1	77	s.	2	0.9		0	hz.			0	0	clear	E. N. Meekins.
Silver City, New Mexico	24.32	617.7	29.82	757.4	63	17.2	39	nw.	5	2.2		2 k	0	nw.		0	0	clear	J. B. Wallace.
Sitka, Alaska	30.10	764.5	30.16	766.1	49.5	9.7	86	ne.	3	1.3			10 n		calm	inap.	inap.	light rain	J. J. McLean.
Smithville, North Carolina	30.10	764.5	30.14	765.5	78	25.6	82	se.	6	2.7		0	6 k		s.	0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	28.04	712.2	30.08	764.0	40	4.4	82	ne.	4	1.8		9 ck	0	nw.		0.03	0.8	cloudy	D. Moore.
Springfield, Illinois	29.30	744.2	29.96	761.0	77.5	25.3	84	s.	6	2.7		7 c	0	w.		0	0	fair	T. B. Jennings.
Springfield, Massachusetts	29.90	759.4	30.03	762.7	76.8	24.9	82	s.	2	0.9		8 k	hz.	sw.		0	0	cloudy	T. S. Outram.
Springfield, Mo.	28.57	725.7	30.03	762.7	77.5	25.3	76	s.	8	3.6		7 c	0	w.		0	0	fair	J. B. Marbury.
Starkville, Miss.	29.62	752.3	30.09	764.3	82	27.8	74	se.	4	1.8		0	4 k		se.	0	0	fair	M. J. Wright.
Stockton, Texas	26.97	685.0	29.89	759.2	69.5	20.8	81	s.	20	8.9		0	0			0	0	clear	J. O'Dowd.
Thatcher's Island, Mass.	29.95	760.7	30.00	762.0	71.5	21.9	84	w.	6	2.7		0	0			0	0	clear	G. Liebmann.
Toledo, Ohio	29.33	745.0	30.01	762.2	79	26.1	69	sw.	3	1.3		3 c	0			0	0	clear	A. Buell.
Tucson, Arizona	27.49	698.2	29.79	756.7	73	22.8	27	calm	0	0			9 ks			0	0	cloudy	J. L. Whiteside.
Umatilla, Oregon	29.69	754.1	30.05	763.3	50	10.0	59	se.	8	3.6		0	0			0	0	clear	J. Daly.
Uvalde, Texas	29.06	738.1	30.00	762.0	73	22.8	90	e.	2	0.9			10 s		s.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.80	756.9	30.05	763.3	78	25.6	88	se.	1	0.4		0	0			0	0	clear	H. P. Brisbane.
Visalia, California	29.56	750.8	29.93	760.2	59	15.0	60	nw.	5	2.2		0	0			0	0	clear	W. L. Seward.
Washington, D. C.	29.96	761.0	30.07	763.8	77.2	25.1	82	s.	5	2.2		2 ck	0	w.		0	0	clear	B. M. Purssell.
West Las Animas, Colorado	25.99	660.1	29.77	756.1	65.8	18.8	30	calm	0	0		2 c	0	sw.		0	0	clear	F. W. Brandenburg.
Williamsport, Pa.	29.46	748.3	30.06	763.5	72	22.2	82	w.	5	2.2		4 ck	fg.	w.		0	0	fair	B. F. Hough.
Wilmington, N. Carolina	30.08	764.0	30.13	765.3	78	25.6	82	se.	2	0.9		3 c; k	0			0	0	clear	A. T. Sherwood.
Winnemucca, Nevada	25.59	650.0	29.85	758.2	57	13.9	44	ne.	6	2.7			10 s		calm	0	0	cloudy	J. R. Williams.
Yankton, Dakota	28.43	722.1	29.71	754.6	63	17.2	90	ne.	18	8.0			10 s			0.12	3.0	cloudy	J. H. Atfield.
Yuma, Arizona	29.64	752.8	29.78	756.4	68.0	20.0	51	calm	0	0		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.06	560.3			53.0	11.7	76	ne.	4	1.8			10 ks		nw.	0	0	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.07	763.8	30.08	764.0	82	27.8	95	e.					10 ks			0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	30.07	763.8	30.10	764.5	77	25.0	86	se.	12	5.4			10 ks		s.	0.10	2.5	cloudy	J. I. Plume.
Havana, Cuba, W. I.																			A. Van Caneghem.
Kingston, Jamaica, W. I.	30.05	763.3	30.06	763.5	82.1	27.8	75	nne.	2	0.9		8 cs	0			0	0	fair	Robert Johnston.
Magua, San Domingo, W. I					72	22.2		e.			1	0	3 k		e.	0	0		S. M. Pike.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	80	26.7	82	e.			2		10 n	e		0.300	7.6	rainy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.50	749.3	29.96	761.0	75	23.9	80	calm			0		10 s		calm	0.55	14.0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							97	ne.			2	0	7 ks		ne.	0.13	3.3	fair	Earl Flint.
Santiago de Cuba, W. I.	30.05	763.3	30.08	764.0	80	26.7	74	calm	0	0		1 c	0			0	0	clear	Robert Mason.
York Factory, B. A.	29.75	755.6	29.81	757.2	52 0	11.1	86	sw.	11	4.9		1 c	0	sw.		0	0	fair	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S. Alert, Simons Bay, Cape Colony, Africa	30.49	774.4	62	16.7	71	e.			2		1							blue sky.
H. M. S. Alexandra, N. 31° 39′, E. 29° 47′	29.93	760.2	72	22.2	95	w.			3-4		2	wnw.				1	nw.	d. clouds.
H. M. S. Amethyst, Montevideo, Uruguay	30.35	770.9	49	9.4	81	e.			2		1							blue sky.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.92	760.0	71	21.7		n.			3-4		3	nnw.						d. clouds.
H. M. S. Arab, Muscat, Arabia	29.51	749.5	90	32.2	80	e.			3		0							misty.
H. M. S. Bacchante, Palermo, Sicily	30.07	763.8	80	26.7	74	nne.			2		0							blue sky.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.48	774.2	61	16.1		calm			0		0							squally.
H. M. S. Champion, N. 19° 20′, W. 172° 50′			80	26.7		ene.			4		8	ene.				6	e.	d. clouds.
H. M. S. Coquette, Port Said, Egypt	29.92	760.0	75	23.9		nw.			1		0							blue sky.
H. M. S. Cruiser, N. 39° 09′, E. 15° 00′	30.04	763.0	75	23.9		wnw.			1		3	wnw.						d. clouds.
H. M. S. Diamond, S 8° 42′, E. 161° 00′	29.82	757.4	82	27.8	95	ese.			2-4		10	se.						showery.
H. M. S. Dido, N. 13° 05′, W. 59° 30′	30.07	763.8	80	26.7		ese.			3		4	ese.						d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	30.26	768.6	74	23.3	74	nne.			1		3	nne.						d. clouds.
H. M. S. Druid, N. 18° 33′, W. 72° 21′	30.08	764.0	78.5	25.8	84	calm			0		1							blue sky.
H. M. S. Dwarf, S. 26° 03′, W. 57° 56′	30.02	762.5	57.5	14.2	87	se.			1		0							blue sky.
H. M. S. Eclipse, S. 4° 37′, E. 55° 30′	29.96	761.0	81	27.2		sse.			1		0							d. clouds.
H. M. S. Emerald, S. 42° 20′, W. 39° 30′	29.64	752.8	46	7.8	?	sw.			5-6		5	sw.				4	sw.	showery.
H. M. S. Euryalus, Trincomalee, Ceylon, India	29.76	755.9	82	27.8	91	ne.			1		8	calm						overcast.
H. M. S. Espiegle, S. 18° 47′, E. 108° 58′	29.93	760.2	67	19.4	84	e.			2		9	se.				1	s.	d. clouds.
H. M. S. Fawn, S. 25° 54′ E. 32° 55′	30.14	765.5	73.5	23.1	69	sse.			2		1	sse.				1	sse.	blue sky.
H. M. S. Fantome, N. 16° 02′, W. 77° 31′	29.98	761.5	81	27.2		e.			5		8	e.				4	e.	d. clouds.
H. M. S. Flying Fish, N. 36° 47′, E. 125° 31′	29.56	750.8	64	17.8	94	sw.			2		9					1	sw.	misty.
H. M. S. Gannet, S. 27° 20′, W. 71° 05′	30.11	764.8	54	12.2	76	calm			0		10					2	ssw.	overcast.
H. M. S. Garnet, S. 34° 04′, W. 45° 50′	30.19	766.8	58	14.4	87	s.			5		4					5	s.	d. clouds.
H. M. S. Griffon, N. 49° 36′, W. 54° 50′	29.89	759.2	52	11.1	72	s.			1		1							blue sky.
H. M. S. Inconstant, N. 20° 45′, W. 22° 00′	30.16	766.1	72	22.2	85	nne.			3-4		10	nne.				3	nne.	d. clouds.
H. M. S. Iron Duke, N. 35° 26′ E. 139° 39′	29.64	752.8	68	20.0	90	nne.			1-2		4	ne.						d. clouds.
H. M. S. Kingfisher, N. 17° 50′ W. 103° 00′	29.93	760.2	81	27.2		wnw.			3		2					4	sw.	d. clouds.
H. M. S. Lark, S. 10° 40′, E. 162° 22′	29.89	759.2	81.3	27.4		se.			2		8					2	se.	showery.
H. M. S. Magpie, N. 34° 56′, E. 139° 52′	29.64	752.8	71.5	21.9	95	calm			0		10					1	wnw.	drizzling.
H. M. S. Minotaur, Malta, Mediterranean	30.06	763.5	74.5	23.6	72	nne.			1		1							blue sky.
H. M. S. Nelson, S. 36° 50′, E. 174° 49′	29.50	749.3	57	13.9	76	ssw.			2-4		0							blue sky.
H. M. S. Northampton, Halifax, Nova Scotia	29.94	760.5	61	16.1	68	sw.			1		10	wnw.						overcast.
H. M. S. Rambler, S. 14° 54′ E. 80 10′	30.02	762.5	65	18.3	100	s.			4		4	ssw.				4	ssw.	d. clouds.
H. M. S. Rocket, N. 50° 00′, W. 128° 00′	30.24	768.1	50	10.0	93	nnw.			3		5							d. clouds.
H. M. S. Sappho, S. 23° 48′ W. 117° 23′	29.96	759.4	68.5	20.3		ssw.			5-6		4	sw.				7	sw.	showery.
H. M. S. Swiftsure, S. 5° 28′ W. 28° 15′	30.09	764.3	79.5	26.4	86	e.			3-4		5	ese.				4	ese.	showery.
H. M. S. Sylvia, S. 30° 35′, W. 48° 54′	30.29	769.4	60.2	15.7	88	wsw.			4-5		7	calm				4	wsw.	d. clouds.
H. M. S. Tenedos, N. 47° 40′ W. 57° 18′	29.93	760.2	53	11.7	86	calm			0		8							d. clouds.
H. M. S. Triumph, Valparaiso Chili	30.09	764.3	54	12.2	86	calm			0		2	calm						d. clouds.
H. M. S. Tyne, N. 36° 44′, W. 21° 44′	30.20	767.1	69	20.6	90	w.			4-5		9	w.				3	wnw.	d. clouds.
H. M. S. Woodlark, Bushire, Persia	29.52	749.8	87.5	30.8	80	wnw.			2-3		0							blue sky.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verd Islands	30.08	764.0	77.5	25.3	97	nne.			1		2					1		d. clouds.
Tamega, Macao, China	29.76	756.0	83.3	28.5	88	ssw.			2		4		sw.					d. clouds.
Swedish Naval.																		
Saga, N. 44° 55′, W. 21° 41′	29.97	761.3	59.9	15.5	70	wnw.			3		4							d. clouds.
United States Naval.																		
Navy Yard, Pensacola, Fla.	30.04	763.0	80	26.7	96	ne.	2	0.9			5		se.	0.01	0.3			fair.
N. Yard, Portsmouth, N. H.	29.96	761.0	73	22.8	76	w.	6	2.7			0			0	0			clear.
Naval Hospital, Yokohama, Japan*	29.52	749.8	65.3	18.5	97	n.			3		10		n.	0.44	11.2			raining.
Adams, Mare Island, Cal.	30.04	763.0	57	13.9	94	sw.			2		2		sw.	0	0			clear.
Alaska, Callao, Peru	29.99	761.7	59	15.0	82	ssw.			1		8			0	0	sm'h		fair.
Alert, N. 43° 05′, E. 162° 41′*	29.44	747.8	48	8.9	92	n.			6		10		calm			r'gh	n.	overcast.
Alliance, Boston, Mass	29.99	761.7	72	22.2	85	wsw.			1		0			0	0			clear.
Ashuelot, Yokohama, Japan	29.64	752.8	68	20.0	95	n.			2		10		calm					raining.
Brooklyn, Rio de Janeiro, Brazil	30.26	768.6	66	18.9	100	nnw.	3	1.3			10		calm	1.16	29.5	sm'h		light rain.
Colorado, New York, N. Y.	30.02	762.5	73	22.8	90	sw.	2	0.9			8		calm	0	0			cloudy.
Constellation, Chesapeake Bay*	30.06	763.5	75	23.9	90	s.			1		8		s.					fair.
Enterprise, Norfolk, Va*	30.12	765.0	76	24.4	100	sw.			1		5		sw.					fair.
Essex, Elizabeth Island, Patagonia	29.75	755.6	39	3.9	73	n.			4		10					mod.	n.	overcast.
Franklin, Norfolk, Va.	30.13	765.3	75	23.9	86	ssw.	15.6	7.0			8		ssw.	0	0			fair.
Galena, Alexandria, Egypt	29.92	760.0	75	23.9	100	nw.			2		2					sm'h		fair.
Independence, Mare Island, Cal.	30.02	762.5	53	11.7	86	sw.			4		2		sw.	0	0			clear.
Iroquois, San Francisco, Cal.	30.09	764.3	55	12.8	87	wsw.			4		10		wsw.	0	0			cloudy.
Kearsarge, Norfolk, Va.	30.15	765.8	76	24.4	91	ssw.			1		5		sw.					fair.
Lackawana, S. 9° 47′, W. 79° 11′*	30.03	762.7	62	16.7	72	sse.			2		10					mod.	se.	cloudy.
Lancaster, N. 34° 50′E. 18° 30′*	30.00	762.0	81	27.2	74	nnw.			2		0			0	0			clear.
Marion, S. 34° 34′, W. 56° 13′	30.33	770.4	49	9.4	100	e.			2		8		e.			sm'h		cloudy.
Michigan, Detroit, Mich.	29.91	759.7	79	26.1	78	n.			1		0							clear.
Minnesota, Newport, R. I.	30.06	763.5	67	19.4	84	sw.	5	2.2			2							raining.
Monocacy, Port Lazareh, Corea	29.61	752.1	63	17.2	94	ene.			2		10		calm					clear.
New Hampshire, Newport, R. I.	29.99	761.7	65	18.3	94	sw.			2		2					sm'h		clear.
Nipsic, Trieste, Austria	30.06	763.5	77	25.0	77	nw.			1		2					sm'h		clear.
Onward, Callao, Peru†	30.15	765.8	59	15.0	88	s.			1		10		n.			long	w.	cloudy.
Palos, Kobe, Japan	29.60	751.8	72	22.2	95	calm			0		10		calm					raining.
Passaic, Washington, D. C.	30.07	763.8	78	25.6	95	sw.			2		0							clear.
Pensacola, Callao, Peru	30.07	763.8	58	14.4	88	s.	1	0.4			10			0	0	sm'h		cloudy.
Powhatan, N. 34° 54′, W. 75° 59′	30.14	765.5	83	28.3	83	s.			1		2		sw.			light	s.	clear.
Portsmouth, Brest, France*	29.79	756.7	58	14.4	94	s.			5		10		s.			mod.		cloudy.
Quinnebaug, N. 38° 06′, E. 38° 33′*	30.03	762.7	74	23.3	81	ene.			4		2		e.			sm'h		clear.
Ranger, Mare Island, Cal*	30.01	762.2	59	15.0	76	w.			2		2		w.	0	0	sm'h		fair.
Richmond, N. 34° 15′, E. 138° 30′*	29.56	750.8	73	22.8	100	nne.			3		10		ese.	0.88	22.4			raining.
Saratoga, Brest, France	29.87	758.7	58	14.4	70	ssw.			2		2		sw.	light	light	sm'h		fair.
St. Louis, League Island, Pa.	30.29	769.4	76	24.4	86	ssw.	2	0.9			5			0	0			fair.
Swatara, Kobe, Japan*	29.43	747.5	73	22.8	90	sw.			2		10		sw.			sm'h		light rain.
Tennessee, off New York, N. Y.	30.08	764.0	78	25.6	86	nne.	8	3.6			5			0	0			hazy.
Vandalia, Portsmouth, N. H*	29.93	760.2	70	21.1	95	w.			2		0							clear.
Wabash, Boston, Mass.	29.97	761.2	73	22.8	81	wsw.	5	2.2			0			0	0			clear.
Wachusetts, Juneau City, Alaska	30.09	764.3	50	10.0	86	w.			1		10			0	0	sm'h		overcast.
Wyoming, Port Royal, S. C.	30.13	765.3	76	24.4	86	ne.	12	5.4			5		e.	0	0			fair.
Yantic, New York, N. Y.	30.00	762.0	73	22.[illegible]	95	sw.			1		5							fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 46° 40′, W. 56° 45′*	29.94	760.5	51	10.6	86	w.			1		1		nw.	0	0	sm'h		blue sky.
S. S. Grecian, off Cape Ray, N. F.*	29.92	760.0	49	9.4		e.			1		3		nnw.	0	0	sm'h		clear.
S. S. Nova Scotian, N. 51° 39′, W. 27° 41′	29.83	757.7	49	9.4		nw.			5		8		nw.			long	nw.	cloudy.
S. S. Prussian, N. 52° 57′ W. 13° 26′*	29.49	749.0	59	15.0		w.			3		3		sw.	2 h'r	2 h'r	light	nw.	clear.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, Philadelphia, Pa	30.10	764.5	76	24.4	95	sw.			2		2		sw.					very fine.
S. S. Indiana, N. 49° 17′ W. 23° 05′†	29.99	761.7	54	12.2	74	nnw.			4		8		nw.			r'gh	nw.	squally.
S. S. Lord Clive, Philadelphia, Pa*†	30.05	763.3				w.			2		0			0	0			fine.
S. S. Lord Gough, N. 46° 05′, W. 31° 00′	30.07	763.8	71	21.7		ene.			1		10		ne.	0	0	sm'h	ne.	cloudy.
ANCHOR LINE.																		
S. S. Bolivia, Moville, Ireland†	29.83	757.7				se.			1					0	0			overcast.
S. S. Devonia, N. 49° 48′, W. 32° 30′ †	30.15	765.8	53	11.7		n.			1		3		n.			mod.	n.	fine.
S. S. Ethiopa, New York, N. Y	29.88	758.9	65.5	18.6	97	ssw.			3		5?		sw.	0	0			cloudy.?
S. S. Utopia, N. 37° 53′, W. 13° 15′†	30.26	768.6	65	18.3	90	wnw.			2		1		wnw.	0	0	sm'h	nw.	clear.
ATLAS LINE.																		
S. S. Ailsa, Cartagena, U. S. C.†	29.89	759.2	84	28.9	83	calm			0		2		e.	6 h'r	6 h'r			fine.
S. S. Alvena, Black river, Jamaica, W. I†	29.92	760.0	81	27.2	74	ene.			1–2		0			0	0			fine.
S. S. Antillas, N. 27° 52′, W. 69° 20′*†	30.40	772.1				sse.			2		2		sse.	0	0	sm'h		fine.
BOSTON AND HALIFAX.																		
S. S. Carroll, Boston, Mass†	30.00	762.0				calm			0				sw.	0	0			clear.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 28° 44′, E. 81° 26′	30.24	768.1	61.5	16.4	66	sw.			3		5							d. clouds.
S. Baroda, S. 11° 31′, E. 79° 20′	29.93	760.2	77.4	25.2	82	se.			5		7							d. clouds.
British Merchant, N 35° 55′ W 35° 34′	30.25	768.3	75.2	24.0	86	ssw.			2		5							showery.
Glencairn, S. 0° 36′, W. 19° 52′	30.12	765.0	77	25.0	91	s.			4		7							d. clouds.
S. S Gordon Castle, N. 10° 28′, E. 51° 25′	29.76	755.9	70	21.1	66	ssw.			5–6		0							blue sky.
May Hulse, S. 44° 10′, W. 40° 54′	29.54	750.3	42	5.6	82	sw.			6		8							hailing.
S. S Minho, N. 29° 07′, W. 15° 33′	30.22	767.6	72	22.2	67	ne.			4		7							d. clouds.
S. S. Pole Star, S. 6° 28′, W. 28° 27′	30.12	765.0	75.3	24.1	100	ene.			4		9							drizzling.
CUNARD LINE.																		
S. S. Bothnia, N. 42° 22′, W. 50° 22′	30.10	764.5	68	20.0	79	w.			2–3		2		w	0	0	sm'h		clear.
S. S. Scythia, New York, N. Y	30.03	762.7	77.5	25.3	84	sw.			1		3		nnw.	0	0			fair.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. France, N. 49° 47′, W. 7° 31′ †	29.63	752.7	51.8	11.0		s.			5	ck		ssw.		0	0		sw.	cloudy.
S. S. Ville de Marseilles, Marseilles, France*†	30.05	763.3	80	26.7		wsw.			4		4			0	0			clear.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 40° 28′, W. 73° 21′*†	30.12	765.0				s.			5		2		s.	0	0	sm'h	ssw.	
S. S. Herder, N. 49° 14′, W. 2° 54′*†	29.82	757.4	69	20.6		wnw.			2		2?		sw.	4 h'r	4 h'r	sm'h	w.	covered?
S. S. Lessing, N. 42° 02′, W. 46° 52′	30.04	763.1	72	22.2		wnw.			3		5?		nw.	0	0	sm'h	wnw.	cloudy.?
S. S. Wieland, N. 40° 26′, W. 62° 42′	30.16	766.1	71	21.7		w.			4		8		w.	0	0	2	w.	fair.
INMAN LINE.																		
S. S. City of Berlin, N. 50° —′ W. 24° —′	29.85	758.2				nw.			6		9		nw.	2 h'r	2 h'r	mod.	nnw.	light rain.
JOHNSTON LINE.																		
S. S. Thanemore, N. 45° 57′ W. 30° 47′	30.10	764.5				calm			0		10		n.	0	0	sli't	ne.	overcast.
MALLORY LINE.																		
S. S. Colorado, N. 24° 42′, W. 80° 33′.†	30.08	764.0	81	27.2		se.			6		3		se.	sh'rs	sh'rs	mod.	se.	fair.
MERCHANTS' EXPRESS LINE.																		
S. S. Hermod, N. 49° 45′, W. 6° 50′*†	29.50	749.3	62.6	17.0		s.			4		7		sse			mod.	s.	showery.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, Bahia, Brazil	29.60	751.8				sse.			7				s.	0	0	r'gh	se.	cloudy.
S. S. Glenapp, Para river, Brazil *†	29.95	760.7				var.			2		5		var.	0	0			fine.
NATIONAL LINE.																		
S. S. Denmark, N. 50° 51′. E. 0° 48′	30.00	762.0	55	12.8		se.			4		8		sse.	1 h'r	1 h'r			cloudy.
S. S. The Queen, N. 49° 46′, W. 7° 25′*	29.80	756.9	54	12.2		ssw.			6		8		s to sw.	sh'rs	sh'rs	mod.	s	
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY																		
S. S. Santiago, N. 24° 27′, W. 74° 12′ †	30.22	767.6	81	27.2		ese.			3		2		sse.	0	0	g'atle	se.	fine.
S. S. Saratoga, Havana, Cuba, W. I.†	30.30	769.6	78	25.6	82	calm			0		0			0	0			clear
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, N. 32° 54′, W. 76° 05′ *†	30.26	768.6	79	26.1	82	s.			3		4		se.	1 h'r	1 h'r	small	se.	showery.
S. S. City of Puebla, Havana, Cuba, W. I.†	30.01	762.2	84	28.9		sse.			1		2		se.					fine.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N. 45° 31′, W. 35° 23′*†	30.26	768.6	64	17.8		ssw.			2								nnw.	cloudy.
NORTH GERMAN LLOYD.																		
S. S. America, N. 37° 38′, W 68° 45′*	30.28	769.1	75.2	24.0		nw.			1–2		8		nnw.	0	0	sm'h		fair.
S. S. Elbe, N. 40° 31′, W. 51° 07′	30.14	765.6	63.5	17.5	95	nnw.			3–4		0			0	0	mod.	nnw.	fair.
S. S. Hohenzollern, N. 40° 12′ W. 51° 01′*	30.16	766.1	68	20.0		n.			3–4		5		nw.	0	0	mod.	nw.	fair.
S. S. Neckar, N. 40° 41′, W. 72° 27′			65.0	18.3	100	ssw.			4		5?		ssw.	0	0	sm'h	ssw.	clear.?
S. S. Oder, N. 47° 04′ W. 29° 55′	30.11	764.8	60.8	16.0		wnw.			2		10		wnw.	7 h'r	7 h'r	sm'h	nnw.	rainy.
S. S. Ohio, Bremerhaven, Germany						se.			3		2		se.	0	0			clear.
S. S. Rhein, N. 40° 56′, W. 60° 27′	30.05	763.3				wnw.			2		2		nw.	0	0	mod.	nw.	fair.
S. S. Salier, N. 49° 30′, W. 10° 26′	29.74	755.4	53.6	12.0		w.			3		8		w.	4 h'r	4 h'r	r'gh	w.	cloudy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, N. 46° 29′, W. 154° 34′ †	30.26	768.6	56	13.3	80	ese.			2		8		sse.	0	0	light	s.	cloudy.
S. S. Coptic, N 46° 04′ W. 157° 30′	30.16	766.1	50.5	10.3		wsw.			4		10		w.	5 h'r	5 h'r	2	w.	raining.
S. S. Gaelic, N. 37° 42′, E. 145° 16′ †	29.75	755.6	66	18.9	84	n.			4		3?		ne.			light	e.	cloudy.?
S. S. Oceanic, N. 36° 35′, E. 143° 33′*	29.03	752.6	71	21.7	80	ese.			4		5		e.			1	con.	fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga.†	30.20	767.1				n.			1		4		nne.	0	0			clear.
S. S. City of Columbus, New York, N. Y†	30.12	765.0				s.			3		0			0	0			clear.
S. S. Seminole, N. 38° 50′, W. 73° 50′.†	30.14	765.5	70	21.1	80	sw.			5		5		w.	0	0	mod.	sw.	fair.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Columbia, N. 40° 46′, W. 124° 38′†	30.03	762.7	55.5	13.1	84	n.			2		10		n.			light	n.	cloudy.
S. S. Oregon, San Francisco, Cal.†	30.02	762.5	54	12.2	93	w.			1		8		nw.					hazy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal.†	29.96	761.0	54	12.2	87	w.			3		8		w.					cloudy.
S. S. Dakota, Victoria, B. C.*†	30.10	764.5	58	14.4	88	calm			0		2					small	nw.	clear.
S. S. Idaho, N. 45° 53′, W. 123° 18′*†	30.12	765.0	56	13.3	87	calm			0		10					sm'h	nw.	misty.
S. S. State of California, Portland, Oregon†	30.03	762.7	48	8.9	85	calm			0		0							clear.
S. S. Victoria, Portland, Oregon †	29.90	759.5	51	10.6	100	calm			0		0					sm'h		clear.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, S. 34° 07′, E. 177° 00′	29.49	749.0	61	16.1	71	ssw.			6		8		ssw.	0	0	long	ssw.	hazy.
S. S. City of Pekin, Hong Kong, China†	29.79	756.7	85	29.4	87	sw.			2		10		sw.			sm'h		cloudy.
S. S. City of Rio de Janeiro, Mazatlan, Mexico†*	30.24	768.1	79	26.1	86	ese.			2		8		ese.	0.5	13.	h'vy	s.	clearing.
S. S. City of Sydney, Sydney, N. S. W.†	29.95	760.7	55	12.8	56	w.			4		5?		w.	0	0	sm'h		cloudy?
S. S. Clyde N. 26° 40′, W. 114° 23′†	29.89	759.2	63	17.2	83	n.			1		5?		nw.	0	0	long	nw.	clear.?
S. S. Colima, N. 24° 41′, W. 112° 39′†	29.89	759.2	63	17.2	83	calm			0		8			0	0	h'vy	se.	misty.
S. S. Colon, N. 33° 55′, W. 73° 57′†	30.27	768.8	84	28.9		s.			2		1		s.	0	0	sm'h	sse.	clear.
S. S. Grenada, Panama, Panama †.	29.89	759.2	78	25.6	?	nw.			1		5?		nw.	2 h'r	2 h'r			cloudy.?
S. S. South Carolina, off Cans Id, Panama Bay†	30.03	762.7	82	27.8	91	ese.			2		2		s.	½ h'r	½ h'r	light	sw.	fair.
S. S. Zelandia, S. 18° 27′, W. 172° 24′	29.89	759.2	78	25.6	91	w.			3		10		w.			mod.	se.	cloudy.
QUEBEC S. S. COMPANY.																		
S. S. Muriel, N. 33° 13′, W. 69° 20′	30.09	764.3	75	23.9		ssw.			3		10			0	0	sm'h		overcast.
S. S. Bermuda, N. 23° 13′, W. 60° 04′†	30.23	767.8	82	27.8		e.			5		8		e.	h'vy	hv'y	long	ese.	cloudy.
RED STAR LINE.																		
S. S. Nederland, N. 44° 08′, W. 37° 25′†	30.08	764.0	68	20.0		sse.			3		10		s.			sm'h	s.	overcast.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
RED STAR LINE.—Continued.																		
S. S. Rhynland, Antwerp, Belgium	30.03	762.7	73	22.8	81	calm			0		10		sw.	0.1	3.			cloudy.
S. S. Vaderland, Jersey City, N. J.	29.87	758.7	74	23.3	90	s.			2		2			0	0			clear.
ROTTERDAM LINE.																		
S. S. P. Caland, N. 48° 47′, W. 17° 15′†	29.77	756.1	56.3	13.5	88	n.			4		8 k		nw.			mod.	n.	fair.
STATE LINE.																		
S. S. State of Florida, New York, N. Y.	29.94	760.5	78	25.6		sw.			2		4		sw.	0	0			fair.
S. S. State of Georgia, N. 42° 12′ W. 45° 35′†	30.15	765.8	61	16.1		nnw.			3		5		nw.	3 h'r	3 h'r	sm'h		fine.
THINGVALLA LINE.																		
S. S. Thingvalla, Brooklyn, N. Y.†	30.39	771.9	80.6	27.0		sw.			1		2		sw.	0	0			clear.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 43° 12′ W. 37° 47′	30.10	764.5									4		s.	0	0	sm'h		
WHITE STAR LINE.																		
S. S. Baltic, N. 41° 33′ W. 56° 50′†	30.19	766.8	68	20.0	84	wsw.			3		2		nw.	0	0	sm'h		blue sky.
S. S. Celtic, N. 48° 40′, W. 30° 39†	30.13	765.3	57	13.9	87	nnw.			3		8		nw.	0	0	sm'h		fair.
S. S. Republic, N. 40° 37′, W. 72° 05′†	30.20	767.1	66	18.9	89	ssw.			3		0			0	0	sm'h		blue sky.
WILSON LINE.																		
S. S. Otranto, N. 44° 59′ W. 43° 01′†	30.13	765.3	62	16.7		wnw.			4		8		wnw.			short	wnw.	cloudy.
MISCELLANEOUS.																		
Bg. Abbie Clifford, N. 28° 15′. W. 75° 31′*†	30.22	767.6	81	27.2		s.			2		7		se.	0	0	sm'h	se.	fine.
Schr. Addie Fuller, Seguin, Me†	30.03	762.7	61	16.1	88	calm			0	0	sk			0	0			smoky.
Schr. Ajax, N. 28° 20′, W. 96° 21′†	30.04	763.0				calm			0		1		sse.	0	0	sm'h	se.	clear.
Bk. Alpha, Off Barnegat, N. J.†	30.06	763.5	70	21.1		ssw.			4		5		ssw.	0	0	sm'h		hazy.
Schr. Annie Lewis, Mobile Bay, Ala†	30.21	767.3	83	28.3		e.			1		8		e.	4 h'r	4 h'r	sm'h		cloudy.
Bk. Anna Thormann, S. 26° 17′, W. 27° 16′	30.27	768.8	68.7	20.4	72	s.			5		2 k		s.	1 h'r	1 h'r	mod.	sw.	clear.
S. S. Antonio Lopez, Cadiz, Spain	30.02	762.5	70	21.1	75	ssw.			4		0			0	0			clear.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.40	772.1	71	21.7		wnw.			2		9		wnw.	10 h'r	10 h'r			cloudy.
Schr. Edith R. Seward, N. 33° 54′, W. 78° 01′*†	30.20	767.1	83	28.3		e.			1		4		sse.	0	0			clear.
S. E. J. Spicer, N. 45° 50′. W. 51° 30′†	30.07	763.8				wnw.			3		0			0	0	mod.	w.	
Bk. Essex, S. 12° 47′. W. 32° 26′*†	30.09	764.3	83	28.3		ese.			1		1		se.	0	0	small	sse.	clear.
S. Exporter, S. 10° 20′, E. 82° 30′*†	30.06	763.5				e.			5		2		e.	1 h'r	1 h'r	short	e.	
Bk. Freya, N. 40° 57′, W. 52° 08′			70	21.1		ese.			1		0			0	0	sm'h		fine.
S. Grecian, Hong Kong, China*†	29.82	757.4	84	28.9		sw.			3		3		s.	0	0			clear.
Bk. Hattie G. McFarland, N. 43° 00′, W. 66° 20′*†	25.70	754.4	46	7.8		sw.			3		fog			0	0			foggy
S. Hedwig, N. 40° 13′, W. 20° 38′	30.20	767.0	62.6	17.0	80	nne.			5		3		nne.	6 h'r	6 h'r	long	nw.	clear.
S. Ismir, S. 36° 13′, W. 18° 14′†	30.07	763.8				ene.			5		10					r'gh	ene.	drizzling
S. Ivy, N. 44° 35′, W. 126° 42′†	30.30	769.6	59	15.0		n.			3		10		nne.			sm'h	n.	cloudy.
Schr. James Slater, Para, Brazil*†	30.22	767.6	80	26.7					2		2		e.	2 h'r	2 h'r			
Schr. Jennie N. Huddell, Gardiner, Me†	30.10	764.5	72	22.2	90	sw.			1		10?			0	0			clear.?
Schr. John L. Thomas, Gorda Cay, Mosquito Coast*†	30.06	763.5				e.			5		5		ese.	1 h'r	1 h'r			threatening
S. S. Lamperts, N. 17° 49′, E. 58° 19′*	29.60	751.8	79.0	26.1	86	wsw.			6		4 ks					5		misty.
S. S. Laurel, Key West, Florida†	30.13	765.3	84	28.9		e.			3		4		ese.	2 h'r	2 h'r			fair.
S. S. Malabar, N. 29° 08′, E. 130° 38′*†	29.72	754.9												0	0			
S. M. P. Grace, N. 6° 07′, W. 30° 12′*	29.96	761.0	88	31.1									s.	2 h'r	2 h'r	long	sw.	rainy.
S. S. Nebo, N. 49° 06′ W. 42° 00′†*	29.90	759.4				n.			2		10		n.	0	0	sm'h	sw.	cloudy.
Bk Orpheus, N. 39° 10′, W. 52° 45′	30.21	767.3	70	21.1		n.			3		2 s					mod.	w.	fine.
S. Paramita, S. 50° 32′ W. 94° 24′†	28.58	725.9	41	5.0		nw.			6		10		n.	7 h'r	7 h'r	cross	n.	cloudy.
Bk. Peppina, Newport, Eng†.	29.89	759.2	69	20.6	65	se.			2		5		s.	0	0			fair.
S. S. Ponca, S. 13° 12′ W. 38° 39′†	30.10	764.5	82	27.8		ssw.			1		1		s.	0	0	mod.	ese.	clear.
Bk. Rosebud, S. 31° 09′ W. 7° 20′*†	30.40	772.1	63	17.2	89	ene.			6		0			0	0	sm'h		
S. Salisbury, S. 11° 06′, E. 105° 00′*	29.97	761.1	77.0	25.0	80	se.			5		5		se.	½ h'r	½ h'r	long	s.	fair.
S. S. Sunbeam, N. 46° 35′, W. 7° 43′	29.82	757.4	63	17.2	67	sw.			4		2		sw.			slight	wsw.	showery.
Bg. Teneriffe, Cardenas, Cuba	30.05	763.3				e.			2		0			0	0			fine.
Bk. Truro, N. 49° 32′, W. 3° 34′*†	29.88	758.9				sse.			3		10		sse.	1 h'r	1 h'r	sm'h		threatening
U. S. F. C. S. Fish Hawk, St. Jerome Creek, Md†	30.29	709.4	76	24.4	95	sw.			3		4		calm	0.04	1.0			clear.
S. S. Victoria J Peed, Salamanca Id, U. S. C.						calm			0		8							
Bk. Vincenzo Accame, N. 37° 20′, W. 20° 50′†	30.39	772.0	73.5	23.0		nw.			4									
Schr. Viola Reppard, Brunswick, Ga†	29.99	761.7	82	27.8		wnw.			1		1		calm	0	0			clear.
Bkt. Wandering Jew, Boston, Mass†*	30.00	762.0	68	20.0		wsw.			1		3		sw.	0	0			clear.
Bk. Warden Law, N. 47° 50′, W. 10° 40′*	29.46?	748.3?				sw.			4		6		wnw.	2 h'r	2 h'r	sm'h	wsw.	sprinkling.
Bg. Wauburn, N 31° 04′, W. 70° 30′*†	30.00	762.0				e.			3		3		se.	0	0	mod.		
Bk. Wm. Wilcox, S. 11° 15′, W. 34° 29′*†	30.27	768.8	81	27.2		ese.			3		5		se.	0	0	mod	s.	fair.
S. Wm. Woodbury, N. 35° 46′, W. 55° 34′*	30.22	767.6	74	23.3	100	nw.			2		2		nw.			sm'h	n.	clear.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 25, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours			29.99	761.7	79.7	26.5	81	e.			2		1			0	0	very fair	Moiroud.
Algiers			29.98	761.6	76.3	24.6	71	nw.			5		5			inap.	inap.	cloudy	Nicolas.
La Calle			30.02	762.6	84.2	29.0	84	w.			1		0			0	0	clear	Fonfrède.
Tunis			30.09	764.3															Jacques.
Saida			30.09	764.3	83.1	28.4	32	sw.			3		0			0	0	clear	Perès.
Tebessa			30.10	764.4	89.2	31.8	28	wnw.			1		3			0	0	pretty fair	Derché.
Geriville					83.1	28.4	27	n.			1		4			0	0	cloudy	Lonchamp.
Laghouat			30.12	765.1	95.0	35.0	37	se.			3		3			0.079	2.0	pretty fair	Abraham.
Biskra			30.08	764.1	101.5	38.6	19	calm			0		8			inap.	inap.	very cloudy	Malau.
Australian.																			
Melbourne, Victoria	30.18	766.6	30.27	768.8	48.9	9.4	94	sw.	9	4.0			10			0.04	1.0	rain & mist.	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.65	750.5	30.08	763.9	75.6	24.2	47	se.			2		3			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.43	747.4	30.17	766.4	70.5	21.4	42	ene.	11.2	5.0			7			0	0		Dr. Wierzbiski.
Eperies	29.24	742.7	30.09	764.3	71.1	21.7	35	n.			2	cs	7 s		s.	0	0		Julius Mikolik.
Gratz	28.87	733.2	30.08	763.9	69.6	20.9	74	sw.			3		3			0	0		Andreas Rospini.
Hermannstadt	28.63	727.2	30.02	762.6	67.1	19.5	71	nne.			2		10			0.102	2.6		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.75	730.2	30.03	762.8	75.4	24.1	53	ne.			3		1 k			0	0	clear	The Staff.
Lemberg	29.15	740.5	30.12	765.0	66.2	19.0	51	ne.			1		8			0	0		Dr. T. Stanecki.
Pola	29.96	761.0	30.07	763.7	78.3	25.7	82	se.			1		5			0.079	2.0		I. R. Hydrographic Office.
Szathmar	29.56	750.8	30.01	762.3	73.4	23.0	34	ne.			4		3			c	0		Joseph Midlinszky, S. J.
Szegedin	29.74	755.5	30.02	762.4	72.3	22.4	44	n.			2		5			0	0		Karl Stancel.
Trieste	29.98	761.5	30.08	764.1	80.2	26.8	52	calm			0		4			0	0		Royal Academy.
Vienna	29.43	747.5	30.12	765.0	74.7	23.7	30	nnw.			2		0			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.87	758.7	29.97	761.2	53.3	11.8	93	e.	9	4.0			6			0.005	0.1	d. clouds	W. Boswell
Armagh, Observatory																			S. Call.
Bidston, Liverpool Obs'y			29.94	760.5	64.6	18.1	69	w.	6	2.7			10					overcast	John Hartnup.
Bolton, Sharples	29.42	747.3	29.95	760.7	60.1	15.6	70	sw.	6	2.7			10					overcast	Thomas Mackereth, A.S.
Bradford, Yorkshire																0	0		J. McLandsborough, F. R
Bridgetown, Barbadoes																			Corpl. J. Surgenor, A. H.C.
Cardington			30.00	762.0	68.0	20.0	72	sw.			1.0		9					overcast	John McLaren.
Chatham, School M. E.	29.91	759.7	30.04	763.0	61.4	16.3	80	sw.			1		7			blank	blank	d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.77	756.1	30.00	762.0	60.7	15.9	73	sse.			3		5					d. clouds	The Staff.
Fort Napier, Natal	28.05	712.5	30.27	768.8	61.0	16.1	55	s.			4		3					blue sky	Pvt. Lane, A. H.C
Free Town, Sierra Leone	29.75	755.6	29.98	761.5	81.0	27.2	70	sw.			8		2					lightning	Sergt. John Robinson.
Gibraltar, Mediterranean	29.98	761.5	30.04	763.0	79.5	26.4	69	sw.			6		0					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.63	752.0	29.83	757.7	62.2	16.8	66	ssw.			3		7					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.85	758.2	30.02	762.5	63.1	17.3	71	sw.			1		9					overcast	The Staff.
Guernsey	29.75	756.4	30.08	764.0	61.6	16.4	80	ssw.			1		3					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.99	761.7	30.03	762.7	64.7	18.2	62	sw.	9	4.0			7					d. clouds	The Staff.
Leicester, Museum	29.75	755.6	29.99	761.7	62.8	17.1	66	sw.			1		10					raining	J. O. Smith.
Malta, Mediterranean	29.92	760.0	30.00	762.0	77.8	25.4	75	ne.			1		1					blue sky	I. H. Whysall.
Nassau, Bahamas	30.16	766.1	30.20	767.1	83.0	28.3	78	se.			1		5					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.49	749.0	30.00	762.0	60.3	15.7	70	s.			2		9					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.79	756.7	30.01	762.2	62.8	17.1	64	s.			1		7					d. clouds	The Staff.
Plymouth	29.93	760.2	30.01	762.2	62.1	16.7	71	s.			3		2					d. clouds	John Merrifield.
Sandwick Manse, Orkneys			30.00	762.0	55.7	13.2	89	ene.	10	4.5			10					overcast	Rev. C. Clouston, L. L.D
Scutari Cemetery, Turkey	29.85	758.2	29.91	759.7	76.2	24.6	66	sw.			1		6					d. clouds	W. H. Lyne.
Sheffield	29.72	754.9	29.99	761.7	68.0	20.0	62	s.			1		7			0	0	overcast	W. F. Cooper.
Silloth Rectory	29.92	760.0	29.95	760.7	60.8	16.0	73	sw.			2		8			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.98	761.5	61.1	16.2	61	s.	6	2.7			10					overcast	J. New.
Stratfield Turgiss	29.81	757.2	30.03	762.7	66.4	19.1	59	sw.			2		5					d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.98	761.5	29.99	761.7	65	18.3	73	s.			6		0					d. clouds	W. Newcombe.
Valencia, Observatory	29.77	756.1	29.79	756.7	56.5	13.6	85	sse.	16	7.2			8			blank	blank	d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.72	754.9	29.76	755.9	64	17.8	84	calm	0	0			10 s		nw.	0.020	0.5	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.69	754.1	29.75	755.6	58	14.4	90	se.	3	1.3			10 s		se.	0	0	cloudy	G. A. Blair.
Father Point, Quebec*	29.57	751.1	29.59	751.6	63	17.2	84	ne.	5	2.2			10 s			inap.	inap.	cloudy	J. McWilliams.
Fort Garry, Manitoba*	28.99	730.3	29.79	756.7	58	14.4	74	sw.	9	4.0		0	0			0	0	clear	
Halifax, N. S*	29.70	754.4	29.83	757.7	57	13.9	80	e.	3	1.3		5 cs	0			inap.	inap.	fair	A. Allison.
Kingston, Ontario*	29.41	747.0	29.73	755.1	67	19.4	87	nw.	5	2.2		3 cs	0		w.	inap.	inap.	fair	A. P. Knight, M. A.
Montreal, Quebec*	29.42	747.3	29.62	752.3	73	22.8	82	sw.	15	6.7		0	2 ks		w.	0.05	1.3	fair	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.08	738.6	29.75	755.6	62	16.7	100	s.	7	3.1			10 n		s.	1.05	26.7	cloudy	Rev. R. Mosley.
Port Dover, Ontario	29.16	740.7	29.82	757.4	69	20.6	95	sw.	3	1.3		8 k	2 n	nw.		0.02	0.5	cloudy	H. Morgan.
Port Stanley, Ontario	29.21	741.9	29.83	757.7	67	19.4	93	w.	8	3.6		2 k	5 n	w.	w.	0.21	5.3	cloudy	M. Payne.
Quebec, Quebec*	29.27	743.4	29.58	751.3	64	17.8	97	calm			0		8 n		calm	0.50	12.7	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.20	741.7	29.64	752.8	67	19.4	87	w.	3	1.3			10 ks		w.	0.48	12.2	cloudy	W. H. McIntyre.
Sangeen, Ontario*	29.08	738.6	29.77	756.1	63	17.2	93	sw.	2	0.9			10 s			0.15	3.8	cloudy	
St. Andrews, N. B	29.68	753.9	29.73	755.1	50	10.0	98	ne.	4	1.8			fg.			0.30	7.6	light rain	
Sydney, C. B*	29.77	756.1	29.83	757.7	68	20.0	73	calm	0	0		2 c	0			0	0	clear	T. C. Hill, C. E
Toronto, Ontario*	29.43	747.5	29.79	756.7	69	20.6	96	s.	5	2.2			10 ks		w.	0.01	0.3	cloudy	Magnetic Observatory.
Yarmouth, N. S*	29.72	754.9	29.78	756.4	53	11.7	96	s.	8	3.6			fg.			0	0	foggy	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.45	722.6	29.85	758.2	67.0	19.4	95	nw.					10 n		nw.	0	0	cloudy	Wm. Wylie.
St. Johns, Newfoundland	29.97	761.2	30.22	767.6	59	15.0	65	se.	2	0.9		5 k	5 s			0	0		John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.51	774.9	30.54	775.7	61.5	16.4	67	ese.	8.3	3.7		0	1 s			0.690	17.5	clear	John Duthie.
Cape Town, C. G. H. Obs'y	30.41	772.4	30.45	773.4	65.0	18.3	60	sse.	19	8.5		0	0			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
CHINESE (*Sub-series*).																			
Hankow	29.73	755.1	30.00	762.0	79.0	26.1	89	se.			2		10			0	0	overcast	N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.84	758.0	29.87	758.6	73.6	23.1	91	s.	3.4	1.5		10 ck	0	w.		0.024	0.6	covered	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	30.22	767.5	30.26	768.7	68.5	20.3	58	se.	13	6			0						Oversergent Fischer.
Fanöe	30.10	764.5	30.12	765.0	75.2	24.0	48	ese.			6		0						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	30.06	763.4	30.10	764.5	52.5	11.4	82	s.			2		8					raining	A. O. Thorlacius.
Thorshavn	30.06	763.5	30.10	764.4	50.7	10.4	84	ese.	11	5			10					raining	Overloerer Bergh.
Vestervig	30.09	764.3	30.18	766.6	73.8	23.2	61	e.			6		0						Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.49	749.1	30.13	765.3	68.4	20.2	62	calm			0		k	s.	w.	0.417	10.6		M. Labroue, Director.
Alençon, Normal School	29.58	751.4	30.13	765.4	64.4	18	90	sw.			2		kn	n.	n.	c.772	19.6		M. Nicot, Director.
Arras, Engineer School	29.91	759.6	30.16	766.1	61.9	16.6	81	ne.			1		10			0.181	4.6	covered	M. Fénéon, Command't.
Avignon, Normal School	29.95	760.7	30.03	762.7	88.5	31.4	36	s.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.54	750.4	30.08	764.1	70.9	21.6	63	n.			1		7		w.	0	0	¾ covered	M. Saillard, Director.
Beauvais, Normal School	29.85	758.2	30.11	764.9	64.6	18.1	71	w.			1		10		wsw.	0.559	14.2	covered	M. Frère Eugène Marlé.
Besançon, Normal School	29.06	738.2	30.04	763.0	81.9	27.7	53	sw.			1	cs	0	s.		0	0		M. Gobin, Director.
Bordeaux, Observatory	29.88	758.9	30.13	765.4	66.2	19.0	60	ese.			1		1c		sw.	0.020	0.5	covered	M. Rayet, Director.
Bourges, Normal School	29.62	752.3	30.16	766.1	63.5	17.5	71	nw.			1	ck	0		nw.	0.016	0.4		M. Postel, Director.
Brest, Naval Observatory	29.83	757.7	30.07	763.8	64.8	18.2	62	sw.			3		4		sw.	1.752	44.5		M. de Kermaree, Dir.
Caen, Normal School	29.97	761.2	30.04	763.1	67.3	19.6	60	sw.			1		5		sw.	0.713	18.1	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.84	757.8	30.15	765.7	66.2	19.0	75	w.			2		8	sw.	w.	0	0	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.56	750.9	30.06	763.6	66.6	19.2	77	nw.			4		10			0.47	12.	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.76	730.5	30.09	764.2	66.6	19.2	58	n.			1		10			0	c	covered	M. Allnard, Director.
Cluny, Normal School	29.25	742.9	30.07	763.7	71.6	22	61	nw.			1		3			0.43	11.		M. de Villemontée, Dir.
Commercy, Normal School	29.21	742.0	30.05	763.2	76.1	24.5	69	wnw.			1		knc	wnw.	wnw.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.68	703.0	30.09	764.2	84.2	29	87	w.			2	0	2 cn			0	c		M. Jeangirard, Director.
Grésasque, du Rhone	28.97	735.7	30.02	762.6	88.3	31.3	23	sw.			2		1		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.28	743.8	30.01	762.3	81.3	27.4	41	nnw.			3	c	0			0	0		M. Ablard, Director.
Guéret, Normal School	28.58	725.9	30.15	765.7	62.6	17	70	sw.			1		2		ne.	0	0	slightly cld'y	M. Rivoire, Director.
Lamballe, Normal School	29.79	756.7	30.07	763.7	66.9	19.4	65	se.			2		5		se	0.256	6.5	cloudy	M. Olhitrault, Director.
Lescar, Normal School	29.56	750.8	30.11	764.9	64.8	18.2	62	w.			1		10			0	0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	30.00	762.0	30.10	764.6	64.8	18.2	62	s.			2		8		sw.	0.177	4.5	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.00	736.6	30.00	762.1	86.4	30.2	28	s.			1	0	5 cn		ssw.	0	0	½ covered	M. André, Director.
Mans, Normal School	29.81	757.1	30.11	764.8	63.3	17.4	86	sw.			1		5		sw.	0.913	23.2	cloudy	M. Piboen, Director.
Marseille, Observatory	29.79	756.7	30.06	763.4	79.5	26.4	33	wnw.			1.2		3		wnw.	0	0		M. Stephan, Director.
Montlouis	24.94	633.4	29.78	756.4	64.4	18.0	70	e.	9.4	4.2			5		sw.	0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.92	759.9	30.04	763.0	81.3	27.4	59	sw.			3		2		sw.	0	0	slightly cl'dy.	M. Galzin, Director.
Nancy, Normal School	29.21	742.0	29.95	760.8	83.1	28.4	51	wsw.			1		k			0	0		M. Hasse, Director
Nantes. Observatory	29.98	761.4	30.14	765.6	69.6	20.9	52	sw.			1–3	c	8 k; kn		sw.	0.287	7.3		M. Larocque, Director.
Perpignan, Observatory	29.95	760.6	30.05	763.2	81.3	27.4	52	se.	5.6	2.5			4		w.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit.	21.39	543.4			48.0	8.9		ssw.			2		5		ssw.	0.004	0.1	cloudy	Gen'l de Nansouty, Dir.
Privas, Normal School	29.03	737.4	30.04	763.0	84.9	29.4	27	n.			1		5			0	0	cloudy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.30	642.5			53.4	11.9	94	e.			1		10			0.004	0.1	foggy	M. Allnard, Director.
Rochefort, Naval Obs'y	30.11	764.7	30.14	765.5	67.8	19.9	100	w.			2		5		sw.	0	0	½ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.88	759.0	30.09	764.3	64.8	18.2	59	s.			1		5	sw.	sw.	0.283	7.2	cloudy	M. Moullilot, Director.
Rodez, Normal School	28.02	711.7	30.11	764.8	68.4	20.2	72	w.			1		cn			0	0		M. Seger, Director.
Rouen, Normal School	30.04	763.0	30.09	764.2	63.3	17.4	78	sw.			1		5	w.		0.693	17.6	cloudy	M. Brotier.
Saint Maur, Observatory	29.97	761.1	30.13	765.3	61.7	16.5	77	sw.			1		10	ssw.	w.	0.047	1.2		M. Renou, Director.
Toulouse, Observatory	29.43	747.5	30.16	766.0	70.5	21.4	72	nw.			1		8			0	0	very cloudy	M. Baillaud, Director.
Tours	29.96	761.0	30.14	765.5	65.8	18.8	77	sw.			1		5	sw.	sw.	0.654	16.6	cloudy	M. de Tastes.
Versailles, Observatory	29.64	752.8	30.13	765.3	61.9	16.6	73	w.			1					0.272	6.9		Dr. A. Berigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.84	757.8	30.13	765.2	61.2	16.2	79	w.			2		10		wsw.	0.075	1.9		M. Marié Davy, Director
GERMAN.																			
Bamberg	29.25	743.0	30.11	764.8	78.8	26.0	40	e.			3					0	0		Prof. Dr. Hoh.
Berlin	30.11	764.7	30.28	769.0	81.5	27.5	24	e.			2		0			0	0		Prof. Dr. Arndt.
Breslau	29.72	754.9	30.26	768.5	73.8	23.2	30	e.			2		4			0	0		Royal University Obs'y.
Carlsruhe	29.58	751.4	30.00	762.0	83.3	28.5	48	e.			1		3	sw.		0.020	0.5		Albert Senz.
Cassel	29.34	745.2	30.05	763.3	87.4	30.8	51	e.			1		5	s.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.66	753.3	30.01	762.2	83.7	28.7	43	se.			2		2			0	0		Physical Society.
Friedrichshafen	28.62	727.0	29.99	761.8	75.4	24.1	66	sw.			2		2	w.		0	0		Wilhelm, Chief Tel.
Hamburg	30.04	762.9	30.13	765.3	78.3	25.7	36	ese.			6		0			0	0		E. Preller.
Kiel	30.13	765.2	30.14	765.6	74.8	23.8	43	ese.			4		0			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.74	755.3	30.14	765.6	77.7	25.4	36	ese.			4		0			0	0		H. Leppig, Asst.
Magdeburg	29.95	760.7	30.13	765.3	79.5	26.4	38	se.			3	0	0			0	0		Dr. Assmann.
Memel	30.28	769.0	30.32	770.2	70.9	21.6	44	n.			3	3 ck	0						Issermann.
Munich	28.28	718.3	30.15	765.8	74.7	23.7	44	nw.			3		1			0	0		Central Station.
Neufahrwasser	30.29	769.4	30.31	769.8	69.1	20.6	66	nne.			1		3			0	0		A. Lothes.
Neustadt, Palatinate	29.49	749.1	30.02	762.5	85.3	29.6	37	ne.			1					0	0		Dicknether.
Stuttgart	29.10	739.1	29.94	760.5	81.5	27.5	39	e.			1		2	w.		0	0		Prof. Dr. Schoder.
Wustrow	30.22	767.5	30.24	768.2	79.3	26.3	66	e.			3	0	0			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.57	751.0			82.4	28.0		sw.			2.0		1			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.59	751.5	29.64	752.8	87.3	30.7	74	wsw.	31.0	13.8			8		w.	0	0	gloomy	
Deesa	29.12	739.7	29.58	751.4	96.5	35.8	36	wsw.	17.2	7.7			2		wsw.	0	0	d. clouds	
Bombay	29.73	755.0	29.76	756.0	77.1	25.1	95	wsw.	9.0	4.0			10		w.	0.27	6.9	overcast	
Poona, Yarrowda	27.90	708.7	29.74	755.5	81.2	27.3	60	wsw.	20.0	8.9			6		w.	0	0	d. clouds	
Trichinopoly	29.48	748.9	29.76	755.9	92.3	33.5	40	nw.	2.0	0.9			10			0	0	overcast	
Bellary	28.29	718.5	29.75	755.6	80.2	26.8	68	nw.	11.3	5.0			10	sw.		0	0	gloomy	
Belgaum	27.28	692.9	29.83	757.7	72.8	22.7	83	wsw.	11.0	4.9			6	e.	sw.	0	0	d. clouds	
Lahore	28.76	730.5	29.47	748.5	98.7	37.1	32	calm	3.1	1.4			0			0.44	11.2	misty	
Roorkee	28.62	726.8	29.47	748.6	98.5	36.9	45	calm	0.9	0.4			6			0	0		
Agra	29.03	737.4	29.59	751.6	81.7	27.6	85	nw.	2.8	1.2			9		nw.	0.13	3.3	d. clouds	
Nagpur	28.58	725.9	29.58	751.4	96.7	35.9	31	wnw.	5.2	2.3			5	w.		0	0	d. clouds	
Jubbulpore	28.28	718.2	29.59	751.7	92.3	33.5	41	w.	3.8	1.7			2			0	0	d. clouds	
Lucknow	29.14	740.3	29.51	749.4	97.0	36.1	39	wsw.	5.4	2.4			0			0	0	blue sky	
Allahabad	29.22	742.3	29.52	749.9	95.7	35.4	49	s.	4.0	1.8			1	s.		0	0	d. clouds	
Patna	29.38	746.3	29.57	751.0	86.4	30.2	74	sw.	5.5	2.5			8	sw.	sw.	1.05	26.7	d. clouds	
Hazaribagh	27.66	762.5	29.66	753.2	78.6	25.9	82	nw.	10.2	4.6			10		nw.	0	0	thunder	
Cuttack	29.60	751.8	29.68	753.9	82.1	27.8	77	calm	1.8	0.8			10			0	0	overcast	
Calcutta, Alipore	29.62	752.4	29.64	753.0	79.9	26.6	96	ssw.	2.0	0.9			10			0.54	13.7	drizzling	
Dhubri	29.50	749.4	29.62	752.3	81.6	27.6	89	calm	4.7	2.1			8		sw.	0	0	d. clouds	
Chittagong	29.61	752.2	29.70	754.5	82.9	28.3	91	s.	4.9	2.2			8			0	0	d. clouds	
Sibsagar	29.28	743.8	29.61	752.1	88.7	31.5	68	sw.	2.8	1.2			0			0	0	blue sky	
Jeypore	28.14	714.6	29.52	749.8	98.0	36.7	39	s.	4.4	2.0			9	s.		0	0	d. clouds	
Zanzibar, Africa	30.02	762.5			82.5	28.1	65	se.	7.5	3.4			5		sse.	0	0	d. clouds	
ITALIAN.																			
Udine	29.67	753.7	30.07	763.7	79.7	26.5	58	s.	1.3	0.6			6			0	0		Prof. Giovanni Cloelig.
Milan	29.56	750.7	30.05	763.3	82.0	27.8	53	se.	3.8	1.7			4	ese.		0.291	7.4		Prof. Schiaparelli.
Padua	29.94	760.4	30.04	763.1	79.5	26.4	46	ese.	8.1	3.6			2			0.055	1.4		Prof. Dott. Lorenzoni.
Moncalieri	29.13	740.0	30.00	762.1	84.2	29.0	43	n.	2.5	1.1			7	n.		0.101	4.1		Prof. P. F. Denza.
Genoa	29.86	758.5	30.05	763.2	78.1	25.6	59	sw.	3.8	1.7			2	nw.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.19	715.9	30.02	762.5	78.3	25.7	48	ne.			2		1			0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Pesaro	30.04	762.9	30.08	764.1	77.4	25.2	50	ese.	3.1	1.4			0			0	0		Prof. Luigi Guidi.
Florence	29.76	755.9	30.01	762.2	87.8	31.0	32	ene.			2		7			0	0		Prof. Costantino Pitter
Leghorn	29.89	759.1	29.97	761.2	79.0	26.1	67	w.	1.3	0.6			9			0	0		Prof. P. Monte.
Rome	29.83	757.6	30.00	761.9	87.4	30.8	36	wsw.	4.9	2.2			3			0	0		Prof. P. S. Ferrari
Lecce	29.76	755.9	30.00	762.1	77.9	25.5	28	nw.	12.5	5.6			0			0	0		Prof. C. de Giorgi
Cosenza	29.13	740.0	29.99	761.7	84.2	29.0	74	ssw.	3.8	1.7			2	sw.		0	0		Prof. D. Conti.
Cagliari	29.80	756.9	29.99	761.7	82.4	28.0	49	sse.			4		0			0	0		Prof. A. Pacinotti.
Palermo	29.80	756.8	30.04	763.0	74.5	23.6	70	e.	6.9	3.1			0			0	0		Prof. G. Cacciatore.
Syracuse	29.94	760.4	29.98	761.5	81.3	27.4	56	s.	4.3	1.9			2	sw.		0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.48	748.7	29.97	761.3	85.3	29.6	51	e.	0	0			3	e.		0	0		Prof. T. Brioschi.
Stelvio	22.39	568.7			50.7	10.4	72	se.			2		8			0.260	6.6	misty	Prof. P. F. Denza.
Valdobbia	22.41	569.1			54.7	12.6	71	e.			2		10			0.157	4.0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.74	755.4	29.77	756.1	59.0	15.0	91	n.	5.9	2.6			10 n			0.033	0.8	light rain	K. Ogawa.
Hakodate	29.79	756.6	29.80	756.9	56.0	13.3	88	e.	12.0	5.4			10			0	0	covered	
Hiroshima, I. M. Obs'y	29.69	754.1	29.71	754.6	71.8	22.1	87	sw.	1.0	0.4		10 ck	0			0	0	overcast	I. Sogawa.
Kanazawa	29.80	756.9	29.90	759.4	65.1	18.4	95	wnw.	1.2	0.5		ck	10ks;s			0	0	overcast	S. Endo.
Kioto	29.62	752.3	29.78	756.4	70.4	21.3	76	nnw.	4.2	1.9			9 s		w.	0	0	cloudy	M. Tojima.
Kochi	29.78	756.4	29.80	756.9	73.4	23.0	93	s.	3.4	1.5		1 ck	10 s			0	0	cloudy	K. Kusunose.
Nagasaki, I. M. Obs'y	29.65	753.1	29.85	758.2	69.1	20.6	92	s.	1.3	0.0		2 ck	7 s			0.020	0.5	cloudy	S. Takehayashi.
Nemuro	29.74	755.4	29.80	756.9	45.8	7.7	98	nne.	9.0	4.0		10	0					rainy	
Niigata	29.76	755.9	29.79	756.6	65.3	18.5	94		0.8	0.4		ck	10 s			0.080	2.0	covered	M. Morita.
Nobiru	29.76	755.9	29.78	756.4	60.6	15.9	96	nne.	4.1	1.8			10 s			0.390	9.9	covered	H. Midzushina.
Sapporo					56.5	13.6	90	calm	0	0			10			0.102	2.6	covered	
Tokei Obs'y, Yeddo	29.71	754.6	29.78	756.4	66.8	19.3	97	ne.	3.0	1.3			10 ks			0.270	6.9	cloudy	The Staff.
Wakayama	29.74	755.4	29.77	756.1	73.3	22.9	82	ne.	1.2	0.5		ck	10 ks		w.	inap.	inap.	cloudy	Y. Kuwamuea.
MAURITIUS																			
Mauritius Observatory	29.92	760.0	30.11	764.8	74.1	23.4	68	ese.	12.0	5.4		0	1 k			0.20	5.1	clear	Oliver & Figgin.
MEXICAN.																			
Guanajuato	23.71	602.3	29.93	760.3	61.7	16.5	78	calm	0	0		3 c	0	e.		0.811	20.8	clear	Prof. Vicente Fernandez.
Leon	24.39	619.5	30.03	762.7	61.2	16.2	87	nw.			1	2 c	0	s.		0.263	6.6	clear	Prof. M. Leal.
Mazatlan	29.73	755.2	29.99	761.8	76.5	24.7	86	ne.	1.6	0.8		0	7 n		ene.	0	0	very cloudy	F. Quijano, C. E.
Mexico, Central Obs'y	23.13	587.5	30.16	766.1	54.3	12.4	78	calm	0	0		6 c	1 k	w.		0.091	2.3	clear	The Staff.
Morelia	24.25	616.0	30.33	770.4	60.4	15.8	42	ne.			2	0	0			0	0		M. Tena, M. D.
Pabellon, Aguascalientes	23.95	608.3	29.92	760.0	61.9	16.6	86	w.			1	1 cs	0	e.		inap.	inap.	clear	M. V. de Leon, M. E
Puebla, Catholic Institute	23.45	595.7	30.21	767.4	54.1	12.3	84	calm	0	0		0	0			0	0	fine	Prof. P. Spina.
San Luis Potosi	24.27	616.5	30.19	766.7	65.4	18.6	69	e.				3	4	w.	e.	0.420	10.8	clear	G. Barroeta, M. D.
Zacatecas	22.60	574 0	30.13	765.2	61.9	16.8	74	sw.	5.0	2.2		1 cs	0			1.090	27.8	clear	J. A. Bonilla, M. E
NETHERLANDS.																			
Flushing	30.07	763.7	30.07	763.7	64.2	17.9		w.			5					0.016	0.4		
Groningen	29.93	760.1	29.98	761.5	81.0	27.2		s.			4					0.016	0.4		
Helder	29.92	760.0	29.92	760.0	75.0	23.9		se.			1					0	0		
Hellevoetsluis	30.02	762.6	30.02	762.6	64.2	17.9	72	wsw.			3					0	0		
Utrecht	29.93	760.1	29.97	761.3	80.8	27.1	65	sw.			3		2			0	0	lightly cl'dy	H. van der Brink.
NORWEGIAN.																			
Bergen	30.14	765.5	30.20	767.1	77.7	25.4	43	s.	7	3			1			0	0		
Brono	30.24	768.1	30.28	769.1	73.8	23.2	49	ne.	4	2			0			0	0		
Christiania	30.11	764.9	30.25	768.4	81.0	27.2	40	sw.	4	2			0			0	0		
Gjesvær	30.26	768.6	30.28	769.2	46.9	8.3		wsw.			4		10					foggy	
Lodingen	30.27	768.8	30.32	770.0	70.0	21.1	48	calm			0		0			0	0		
PORTUGUESE.																			
Angra, Azores					69.1	20.6	83	w.	6.3	2.8			1			0	0		
Campo Major	29.11	739.5	30.09	764.2	74.1	23.4	30	wsw.	6.9	3.1			0			0	0		Dr. J. A. Sampaio.
Funchal, Maderia	30.17	766.2	30.25	768.4	69.8	21.0	72	sw.	1.8	0.8			9			0	0		Dr. A. M. R. dos Santos.
Lisbon, Observatory	29.84	757.9	30.20	767.0	67.5	19.7	44	n.	11.2	5.0			0			0	0		Capt. D. A. de Cunha.
Ponta Delgada, Azores	30.20	767.0	30.27	768.8	74.8	23.8	69	sw.	3.1	1.4			4			0	0		The Staff.
Saint Paul de Loando	29.85	758.1	30.05	763.3	74.1	23.4	93	nne.	0.7	0.3			5	e.		0	0		
Serra da Estrella	25.38	644.7	30.13	765 3	48.7	9.3	49	nw.	16.8	7.5			1			0.039	1.0		
RUSSIAN.																			
Akmolinski	28.34	719.8	29.37	746.0	63.5	17.5	71	wnw.	18	8			9 kn			0.067	1.7		
Archangel	30.15	765.9	30.17	766.4	61.3	16.3	70	wnw.	18	8		0	8 ks			0	0		Major K. Lasarew.
Astrakhan	30.02	762.5	29.94	760.4	75.0	23.9	44	nnw.	2	1		cs	4 s			0	0	light clouds	Capt. Sseliwerstow.
Barnaul	28.93	734.8	29.39	746.5	80.2	26.8	54	s.	2	1			8			0.189	4.8	light clouds	Capt. Wisganow.
Dorpat	30.01	762.3	30.24	768.2	80.1	26.7	34	ne.	9	4		0	2 k			0	0		Meteorological Obs'y.
Ekaterinburg	28.77	730.7	29.70	754.3	65.8	18.8	33	w.	18	8			9 ks;n			0	0		Observatory.
Irkutsk	28.18	715.8	29.74	755.5	71.8	22.1		se.					8			0	0		Meteorological Obs'y.
Kasan	29.68	753.8	29.94	760.4	70.7	21.5	50	nw.	2	1		0	8			0.024	0.6		Observatory.
Kertch	29.80	756.9	29.82	757.4	75.7	24.3	63	calm	0	0		0	7 ks			0	0		Lagorio & Sastyrez.
Kieff	29.42	747.3	30.05	763.2	60.8	16.0	77	nne.	4	2		0	9 ks;n			0.232	5.9		Observatory.
Lugan	29.69	754.0	29.88	759.0	72.5	22.5	62	ene.	9	4			10			0.228	5.8		Meteorological Obs'y
Moscow	29.60	751.9	30.06	763.4	73.2	22.9	37	calm	0	0			3 ks						Meteorological Obs'y.
Nikolaiev	29.91	759.6	29.98	761.4	59.5	15.3	96	ne.	13	6			10 n			0.756	19.2		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.82	757.5	29.91	759.7	46.6	8.1	91	calm	0	0			10			0.244	6.2		Lieut. Iwanow.
Pekin, China	29.61	752.0	29.75	755.6	80.6	27.0	48	calm	0	0		0	2 k			0	0		Physical Observatory
St. Petersburg	30.16	766.0	30.17	766.4	80.6	27.0	28	nne.	11	5		cs;ck	8 n			0	0		Central Physical Obs'y
Semipalatinsk	28.82	732.1	29.44	747.7	76.6	24.8	47	calm	0	0		0	8			0.390	9.9		Major Lasarew.
Tashkend, Laboratory	28.21	716.4	29.66	753.3	88.9	31.6	39	calm	0	0			0						Teich, A. M.
Tiflis	28.41	721.5	29.73	755.2	85.5	29.7	41	calm	0	0		0	8 k			0	0		Physical Observatory
Vladivostock	29.76	756.0			53.6	12.0	95	se.	22	10		0	6 n						
Warsaw	29.79	756.7	30.20	767.1	72.1	22.3	33	se.	7	3		0	8 k;ks						Astronomical Obs'y
Wilna	29.82	757.4	30.22	767.7	73.4	23.0	38	nne	7	3			7			0	0		Berg, Assistant.
SPANISH.																			
Barcelona, Met. Obs'y	29.92	760.0	30.02	762.6	73.4	23	76	e.	4.9	2.2			0			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.09	764 3	30.15	765.8	68.7	20.4	65	ne.	3.1	1.4		2	7	w.		0.079	2.0	almost cov'd	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.15	689.7	30.04	763.1	67.1	19.5	42	ne.	6.3	2.8			1			0	0	almost clear	Domingo Martin.
Madrid, Royal Obs'y	27.84	707.1	29.97	761.1	77.7	25.4	25	sw.	13.4	6.0		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.85	758.1	30.01	762.2	88.3	31.3	62	sse.	3.8	1.7		0	0			0	0	clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.22	742.3	30.12	765.0	59.4	15.2	75	sw.	3.8	1.7			9			0	0	almost cov'd	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	30.04	763.0	30.11	764.7	79.0	26.1	78	calm	0	0		1 c	0	n.		0.216	5.5	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.79	756.6	29.85	758.1	81.5	27.5	82	ene.	1.1	0.5		3 c	4 ck		e.	0.768	19.5	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.00	762.0	30.10	764.5	75.6	24.2	60	w.	15.2	6.8		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.06	763.4	30.15	765.7	82.4	28.0	91	e.	10.1	4.5			10 kn		e.	0	0	overcast	Manuel Maese.
Tuguegarao, Philippine Id's	29.73	755.1	29.86	758.4	84.5	29.2	76	w.	1.7	0.8		7 cs	2 k			0	0	dull	José L. Yrastorza.
SWEDISH.																			
Haparanda	30.23	767.8	30.27	768.8	78.1	25.6	50	s.			2		0			0	0		
Umea	30.23	767.8	30.28	769.1	80.6	27.0	38	s.			2		0			0	0		
Hernosand	30.24	768.2	30.30	769.5	77.7	25.4	39	ssw.			2		0			0	0		
Stockholm	30.15	765.9	30.33	770.4	75.2	24.0	26	ese.			2		0			0	0		
Wisby	30.21	767.4	30.27	768.9	63.0	17.2	59	nne.			6		3			0	0		
Sub-series.																			
Upsala	30.21	767.3	30.30	769.5	76.5	24.7	32	wsw.	2.0	0.9			0			0	0		S. G. Fineman.
SWISS.																			
Geneva	28.63	727.3	29.98	761.5	83.1	28.4	38	ssw.			3					0	0	clear	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
SCOTTISH.																			
Monach Lt			29.84	757.9	57	13.9	100	se.			3	3	0	se.		0.2	5.	clear	J. Youngclause.
North Unst			30.09	764.3				se.			4	4	5	e.					
TURKISH.																			
Constantinople			29.97	761.1	73.6	23.1	53	nnw.	8	3.5			4		sw.	0	0		The Observatory.
Valona			30.11	764.8	79.0	26.1		w.			2		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.86	758.4	80.2	26.8	62	w.			1	0	0			0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.70	754.4	29.78	756.4	80	26.7	79	s.	4	1.8		5 c	0			0.23	5.8	fair	J. O. Barnes.
Alpena, Michigan	29.12	739.6	29.77	756.1	70	21.1	79	w.	14	6.3		0	0			0.16	4.1	clear	Jas. J. Fitzgerald.
Atlanta, Georgia	28.98	736.1	30.13	765.3	76.5	24.7	78	w.	5	2.2			10 k		w.	0	0	cloudy	H. Hall.
Atlantic City, New Jersey	29.88	758.9	29.89	759.2	67.7	19.8	90	sw.	13	5.8		2 c	0			0	0	clear	Jas. M. Watson.
Augusta, Georgia	29.94	760.5	30.14	765.5	77	25.0	82	calm	0	0		1 c	0			0	0	clear	John Healy.
Baltimore, Maryland	29.88	758.9	29.93	760.2	80	26.7	79	sw.	6	2.7		4 cs	0			0	0	fair	Robert Seyboth.
Barnegat, New Jersey	29.85	758.2	29.87	758.7	70.0	21.1	90	sw.	9	4.0		4 k	0	w.		0	0	fair	Chas. F. Merritt.
Behring Island, Behring Sea	29.89	759.2	29.91	759.7	39.7	4.3		ne.	2	0.9		0	0			0.02	0.5	clear	Dr. L. Steineger.
Bismarck, Dakota	28.17	715.5	29.92	760.0	57	13.9	83	calm	0	0		10 cs	0	nw.		0	0	cloudy	Cyrus Cramer.
Boise City, Idaho	27.13	689.1	29.91	759.7	59	15.0	60	n.	1	0.4		0	2 s		calm	0	0	clear	B. E. Light.
Boston, Massachusetts	29.60	751.8	29.75	755.6	74.0	23.3	83	sw.	3	1.3			10 s		sw.	0	0	cloudy	O. B. Cole.
Brownsville, Texas	29.93	760.2	29.97	761.2	80.3	26.8	88	s.	2	0.9		0	0			0	0	clear	M. McCarty.
Buffalo, New York	29.11	739.4	29.85	758.2	66	18.9	92	sw.	14	6.3			10 s		sw.	0.15	3.8	cloudy	Wm. Finn.
Burlington, Vermont	29.40	746.7	29.69	754.1	76.3	24.6	75	s.	13	5.8		0	1 ks		n.	0.31	7.9	clear	G. O. Schaeffer.
Cairo, Illinois	29.68	753.9	30.07	763.8	80.9	27.2	83	sw.	1	0.4		2 c	0	w.		0	0	clear	W. H. Ray.
Campo, California	27.42	696.5	29.90	759.4	38.2	3.4	73	s.	3	1.3		0	0			0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.23	691.6	29.86	758.4	68	20.0	63	calm			0	2 cs	0			0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	29.99	761.7	30.01	762.2	78	25.6	76	sw.	16	7.2		2 c	0			0	0	clear	A. K. Alderson.
Cape May, New Jersey	29.88	758.9	29.91	759.7	72	22.2	90	sw.	17	7.6		6 ck	0	sw.		0	0	fair	W. Bolton.
Cedar Keys, Florida	30.12	765.0	30.14	765.5	82	27.8	72	s.	12	5.4		0	4 k		s.	0.04	1.0	fair	F. W. Mixer.
Champaign, Illinois	29.13	739.9	29.92	760.0	73.0	22.8	76	se.	6	2.7		8k	0	nw.		0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.05	763.3	30.10	764.5	83	28.3	80	sw.	5	2.2		3 cs	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.22	742.2	30.05	763.3	82.0	27.8	62	sw.	3	1.3		0	hz.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.31	744.5	30.12	765.0	78.0	25.6	82	w.	2	0.9		2 cs	0			inap.	inap.	clear	B. L. Goulding.
Cheyenne, Wyoming	24.10	612.1	29.84	757.9	58.2	14.6	93	ne.	4	1.8			fg.			0	0	dense fog	E. McGovern.
Chicago, Illinois	29.18	741.2	29.87	758.7	74.7	23.7	83	sw.	4	1.8		1 c	0			0.57	14.5	clear	J. Mitchell.
Chincoteague, Virginia	29.94	760.5	29.96	761.0	76	24.4	85	sw.	4	1.8		6 c	0			0	0	fair	V. P. Temple.
Cincinnati, Ohio	29.35	745.5	30.00	762.0	82.5	28.1	73	w.	4	1.8		3 k	0	w.		0	0	clear	R. B. Watkins.
Cleveland, Ohio	29.18	741.2	29.91	759.7	71.7	22.1	84	s.	6	2.7		6 c;k	2 ks		w.	0.11	2.8	clearing	J. B. Newlin.
Coleman City, Texas	28.21	716.5	29.96	761.0	75	23.9	76	s.	7	3.1		3 cs	0			0	0	clear	L. Dorman.
Columbus, Ohio	29.11	739.4	29.95	760.7	77	25.0	85	sw.	4	1.8		5 cs	5 s	sw.	sw.	0.22	5.6	cloudy	D. Cuthbertson.
Concho, Texas	28.08	713.2	29.95	760.7	74	23.3	76	s.	14	6.3		0	0			0	0	clear	W. W. McConihe.
Davenport, Iowa	29.26	743.2	29.90	759.4	75	23.9	90	sw.	1	0.4		3 ck	hz.	sw.	calm	1.37	34.8	clear	R. R. Martin.
Dayton, Washington T'y	28.24	717.3	29.98	761.5	50.7	10.4	70	n.	6	2.7		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.42	645.7	29.85	758.2	53	11.7	83	w.	3	1.3		3 k	0	w.		0.34	8.6	clear	G. W. Scott.
Decatur, Texas																			D. J. Carr.
Delaware Breakwater, Del.	29.90	759.4	29.92	760.0	75	23.9	82	sw.	14	6.3		3 ck	4 s		w.	0	0	fair	F. O. Pratz.
Denison, Texas	29.19	741.4	29.97	761.2	75.3	24.1	82	s.	6	2.7		0	0			0	0	clear	J. McGlone.
Denver, Colorado	24.73	628.1	29.77	756.1	62.5	16.9	76	nw.	1	0.4			10 s		calm	0	0	cloudy	F. M. Neal.
Des Moines, Iowa	29.06	738.1	29.94	760.5	70	21.1	76	ne.	6	2.7		10 cs	0	w.		0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.18	741.2	29.87	758.7	76.0	24.4	69	w.	10	4.5			10 s		w.	0.83	21.1	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.24	691.9	29.75	755.6	74	23.3	58	s.	1	0.4		3 cs	0			0	0	clear	E. A. Thomas.
Dubuque, Iowa	29.20	741.7	29.90	759.4	72.3	22.4	82	nw.	2	0.9		0	1 k		n.	1.39	35.3	clear	J. Harvey Smith.
Duluth, Minnesota	29.22	742.2	29.91	759.7	62	16.7	67	w.	3	1.3		3 c	0	calm		0.01	0.3	clear	N. B. Conger.
Eagle Pass, Texas	29.18	741.2	29.97	761.2	76.0	24.4	82	se.	9	4.0		0	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.24	641.1	29.83	757.7	45	7.2	71	n.	6	2.7		6 cs	0	nw.		0	0	fair	J. M. Clifford.
Eastport, Maine	29.69	754.1	29.76	755.9	51.0	10.6	93	nw.	11	4.9			10n;fg		sw;nw	0.31	7.9	thund'rst'm	D. O. Murphy.
El Paso, Texas	26.23	666.2	29.82	757.4	77	25.0	32	nw.	12	5.4			10 s		nw.	0	0	cloudy	J. F. Marshall.
Erie, Pennsylvania	29.20	741.7	29.92	760.0	71	21.7	90	sw.	16	7.2			10 n			0.60	15.2	light rain	Peter Wood.
Escanaba, Michigan	29.18	741.2	29.83	757.7	67	19.4	78	nw.	7	3.1		0	0			0.19	4.8	clear	C. Dill.
Fort Apache, Arizona	25.06	636.5	29.82	757.4	52	11.1	47	ne.	4	1.8		0	0			0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.24	691.9	30.03	762.7	45	7.2	76	s.	6	2.7		0	0			0.16	4.1	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.41	721.6	29.95	760.7	61	16.1	90	se.	9	4.0			10 n		calm	0.05	1.3	light rain	A. Pritchard.
Fort Benton, Montana	27.26	692.4	30.02	762.5	49	9.4	80	calm	0	0		0	0			0	0	clear	G. W. Davis.
Fort Buford, Dakota	27.93	709.4	29.89	759.2	51	10.6	74	w.	6	2.7		0	0			0	0	clear	A. H. Bell.
Fort Custer, Montana	26.90	683.2	29.96	761.0	56	13.3	74	w.	5	2.2		0	6 s		calm	0	0	fair	V. Verge.
Fort Davis, Texas	25.17	639.3	29.78	756.4	73	22.8	53	s.	4	1.8		0	0			0	0	clear	J. Williams.
Fort Elliott, Texas	27.15	689.6	29.82	757.4	72	22.2	68	calm	0	0		0	0			0	0	clear	W. J. Cundall.
Fort Grant, Arizona	25.28	642.1	29.82	757.4	70.9	21.6	41	e.	3	1.3		0	8k.			0	0	cloudy	Robert C. Lord.
Fort Keogh, Montana	27.53	699.2	29.96	761.0	54	12.2	80	nw.	1	0.4		0	0			0	0	clear	W. B. Stockman.
Fort Macon, North Carolina	30.07	763.8	30.08	764.0	78	25.6	90	w.	12	5.4		2 c;k	0	sw.		0	0	clear	W. W. Thomas.
Fort McKavett, Texas	27.78	705.6	29.98	761.5	72	22.2	76	s.	6	2.7		0	0			0	0	clear	J. E. Thatcher.
Fort Missoula, Montana	26.77	679.9	30.03	762.7	47	8.3	86	sw.	2	0.9		0	0			0	0	clear	J. H. Jones.
Fort St. Michaels, Alaska	29.92	760.0	29.96	761.0	50	10.0	86	se.	11	4.9		0	5 ks			0	0	fair	A. P. Leavitt.
Fort Shaw, Montana	26.43	671.3	30.00	762.0	42	5.6	82	w.	6	2.7		0	0			0	0	clear	A. L. Mathews.
Fort Sill, Indian Territory	28.72	729.5	29.92	760.0	73.5	23.1	77	s.	3	1.3		0	0			0	0	clear	T. Cleary.
Fort Smith, Arkansas	29.52	749.8	29.98	761.5	79.5	26.4	82	e.	2	0.9		2 c	0	w.		0	0	clear	J. B. Campbell.
Fort Stevenson, Dakota	28.15	715.0	29.95	760.7	54	12.2	93	nw.	2	0.9		0	6 ks			0	0	fair	W. Burrows
Fort Verde, Arizona					57.8	14.3	31	nw.			1	0	0			0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.53	623.1	29.91	759.7	45.0	7.2	83	w.	5	2.2		6 k	0			inap.	inap.	fair	T. M. Ambler.
Fredericksburg, Texas	28.28	718.3	29.96	761.0	71	21.7	84	sw.	2	0.9		0	0			0	0	clear	H. S. Miles.
Galveston, Texas	29.98	761.5	30.03	762.7	83	28.3	97	sw.	7	3.1		2 c	3 ks		se.	0	0	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.23	742.4	29.88	758.9	68.5	20.3	87	s.	14	6.3		1 k	3 s	w.	w.	1.12	28.4	fair	W. A. Reid.
Hatteras, North Carolina	30.00	763.5	30.08	764.0	78	25.6	90	sw.	20	8.9		3 c	3 k	sw.	w.	0	0	fair	R. M. Crawford.
Helena, Montana	25.88	657.3	30.00	762.0	53	11.7	61	sw.	1	0.4		0	0			0	0	clear	S. Wheaton.
Henrietta, Texas	29.01	736.8	29.99	761.7	81.0	27.2	67	s.	5	2.2		0	0			0	0	clear	J. W. Byram.
Huron, Dakota	28.62	726.9	29.96	761.0	63.1	17.3	90	s.	6	2.7			10 s			0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.16	740.7	29.94	760.5	82	27.8	72	sw.	1	0.4		3 c	0	w.		0.03	0.8	fair	O. Schutze
Indianola, Texas	29.98	761.5	30.02	762.5	79.2	26.2	88	se.	5	2.2		0	2 ks		s.	0	0	clear	I. A. Reed.
Jacksboro, Texas	28.82	732.0	29.94	760.5	79	26.1	69	s.	6	2.7		0	0			0	0	clear	J. P. Sherry.
Jacksonville, Florida	30.10	764.5	30.14	765.5	83	28.3	74	sw.	3	1.3		0	0			0	0	clear	J. W. Smith.
Keokuk, Iowa	29.24	742.7	29.88	758.9	77.5	25.3	82	se.	1	0.4		9 k	0	w.		0	0	cloudy	F. Z. Gosewisch
Key West, Florida	30.08	764.0	30.10	764.5	82.0	27.8	72	se.	13	5.8			10 ks		se.	0.05	1.3	cloudy	R. H. Paxton.
Kittyhawk, North Carolina	30.03	762.7	30.05	763.3	77	25.0	82	sw.	18	8.0		1 c;hz	1 k	sw.	sw.	0	0	clear	E. A. Beals.
Knoxville, Tennessee	29.11	739.4	30.12	765.0	75.4	24.1	84	sw.	2	0.9		hz.	1 k			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.16	740.7	29.92	760.0	71	21.7	71	n.	6	2.7		0	0			0.43	10.9	clear	S. C. Emery.
La Mesilla, New Mexico	26.10	662.9	29.82	757.4	71.7	22.1	36	nw.	3	1.3		4 c	3 s	w.		0	0	fair	N. D. Lane.
Leavenworth, Kansas	29.02	737.1	29.88	758.9	79	26.1	74	calm	0	0		6 ck	3 k	sw.	sw.	0	0	cloudy	A. W. Browne.
Lewiston, Idaho	29.17	740.9	29.99	761.7	56.2	13.4	62	e.	1	0.4		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.69	754.1	30.00	762.0	80	26.7	88	s.	4	1.8		0	0			0	0	clear	W. U. Simmons.
Los Angeles, California	29.61	752.1	30.00	762.0	53.7	12.1	80	sw.	2	0.9		0	2 s		calm	0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.42	747.3	29.97	761.2	84	28.9	72	sw.	6	2.7		3 cs	0			0	0	clear	H. C. Smyth.
Lynchburg, Virginia	29.31	744.5	29.98	761.5	81.5	27.5	72	sw.	2	0.9		2 c	1 ks			0.13	3.3	clear	W. R. Bushby.
Madison, Wisconsin	28.93	734.8	29.92	760.0	67	19.4	90	w.	6	2.7		0	0			1.49	37.8	clear	C. A. Shaw.
Marquette, Michigan	29.13	739.9	29.85	758.2	66	18.9	73	nw.	6	2.7		0	0			0.07	1.8	clear	J. Gilligan.
Memphis, Tennessee	29.72	754.9	30.06	763.5	83	28.3	80	se.	5	2.2		3 c	0			0	0	clear	D. T. Flannery.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	29.14	740.1	29.88	758.9	72	22.2	84	nw.	5	2.2		0	0			1.38	35.1	clear	W. Line.
Mobile, Alabama	30.07	763.8	30.11	764.8	82.3	27.9	79	ne.	3	1.3		3 k	0	sw.		inap.	inap.	clear	J. D. Paxton.
Montgomery, Alabama	29.89	759.2	30.12	765.0	79	26.1	82	s.	1	0.4		0	0			0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	28.94	735.1	29.91	759.7	61	16.1	84	sw.	2	0.9			10 s		sw.	0.31	7.9	cloudy	H. Bessant.
Morgantown, W. Virginia					78.5	25.8	80	sw	1	0.4		4 cs	hz.			0	0	fair	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.65	600.7	29.77	756.1	52.5	11.4	100	nw.	67	30.0			10n;fg		nw.	0.22	5.6	light rain	J. G. Livsley.
Nashville, Tennessee	29.54	750.3	30.06	763.5	82.5	28.1	73	calm	0	0		2 cs	0	w.		0	0	clear	L. A. Jesunofsky.
New Haven, Connecticut	29.70	754.4	29.81	757.2	72	22.2	90	s.	1	0.4		9 c	hz.	sw.		0	0	cloudy	J. H. Sherman.
New London, Connecticut	29.79	756.7	29.84	757.9	70	21.1	78	w.	5	2.2		5 k	fg.	w.		0	0	fair	J. G. Lynch.
New Orleans, Louisiana	30.02	762.5	30.07	763.8	81.8	27.7	79	s.	2	0.9		0	0			inap.	inap.	clear	L. Dunne.
Newport, Rhode Island	29.76	755.9	29.81	757.2	64.3	17.9	92	sw.	13	5.8			10ks;fg		w.	0	0	cloudy	W. McGillivray.
New River, N. Carolina					81	27.2	79	sw.			2	2 ck	3 s	s.	sw.	0	0	fair	C. C. Corbin.
New Shoreham, Rhode I'd.	29.79	756.7	29.82	757.4	66.0	18.9	93	sw.	20	8.9		7 ck	fg.	sw.		0.06	1.5	fair	W. Davis.
New York, New York	29.68	753.9	29.86	758.4	74	23.3	90	s.	6	2.7		2 cs	0	w.		0	0	clear	J. B. Merrill.
Norfolk, Virginia	29.99	761.7	30.02	762.5	79	26.1	82	sw.	8	3.6		7 cs	0	w.		0	0	fair	J. T. Elker.
North Platte, Nebraska	27.05	687.1	29.85	758.2	64.6	18.1	76	ne.	6	2.7		0	8 s			0.30	7.6	cloudy	E. F. Brady.
Olympia, Washington T'y	30.03	762.7	30.07	763.8	48.0	8.9	86	ne.	1	0.4		1 ck	0	calm		0	0	clear	J. Dascomb.
Omaha, Nebraska	28.80	731.5	29.94	760.5	71.6	22.0	63	ne.	12	5.4			10 s		nw.	0	0	cloudy	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	29.88	758.9	29.90	759.4	38.0	3.3	86	ese.	6	2.7		2 cs	1 s	nw.		0	0	clear	P. H. Ray.
Oswego, New York	29.46	748.3	29.78	756.4	73.0	22.8	82	w.	10	4.5		5 cs	0	w.		0.09	2.3	fair	S. W. Beall.
Palestine, Texas	29.51	749.5	30.05	763.3	77.0	25.0	85	sw.	5	2.2		0	5 k		sw.	0	0	fair	L. M. Pindell.
Pensacola, Florida	30.08	764.0	30.11	764.8	82.0	27.8	74	s.	6	2.7		0	3 k		e.	0	0	clear	M. McGauran.
Philadelphia, Pa.	29.80	756.9	29.90	759.4	80	26.7	79	sw.	5	2.2		0	3 s			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.90	454.7	29.72	754.9	32	0.0	71	w.	44	19.7		0	0			0	0	clear	L. M. Dey.
Pioche, Nevada	24.00	609.6	29.80	756.9	51	10.6	43	s.	1	0.4		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.13	739.9	29.92	760.0	80.0	26.7	74	sw.	9	4.0			9 ks		w.	0	0	cloudy	J. H. Bryce.
Poplar River, Montana	27.91	708.9						s.			1	0	0			0	0	clear	U. D. Maxwell.
Port Eads, Louisiana	30.11	764.8	30.12	765.0	79.0	26.1	94	s.	4	1.8			10 n			0.04	1.0	light rain	H. G. Christian.
Port Huron, Michigan	29.14	740.1	29.81	757.2	74.2	23.4	79	w.	6	2.7		10 cs	0	w.		0.50	12.7	cloudy	W. O. Bailey.
Portland, Maine	29.64	752.8	29.69	754.1	71.5	21.9	87	sw.	7	3.1		7 k	0	w.		0.11	2.8	fair	W. W. Eichelberger.
Portland, Oregon	29.98	761.5	30.05	763.3	53.0	11.7	86	calm	0	0		0	0			0	0	clear	M. L. Hearne.
Portsmouth, N. Carolina																			F. P. Chaffee.
Prescott, Arizona	24.81	630.2	29.83	757.7	45	7.2	39	s.	2	0.9		0	0			0	0	clear	J. McN. Wright.
Provincetown, Mass.	29.75	755.6	29.78	756.4	66	18.9	93	sw.	11	4.9			10 s		sw.	0	0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.10	764.5	30.11	764.8	77.5	25.3	84	e.	8	3.6		1 c	0	calm		0	0	clear	W. J. Evans.
Red Bluff, California	29.62	752.3	29.98	761.5	57.7	14.3	84	n.	1	0.4		0	0			0.02	0.5	clear	J. M. Frantz.
Rio Grande City, Texas	29.77	756.1	30.00	762.0	81	27.2	69	se.	6	2.7		2 ck	0	e.		0	0	clear	P. M. Wilson.
Rochester, New York	29.16	740.7	29.80	756.9	73	22.8	84	w.	16	7.2			10 s		w.	0.03	0.8	cloudy	E. W McGann
Roseburg, Oregon	29.54	750.3	30.10	764.5	56	13.3	74	nw.	3	1.3		8 k	0	n.		0	0	cloudy	J. J. Nanry.
Sacramento, California	29.91	759.7	29.98	761.5	55.0	12.8	80	se.	7	3.1		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.38	746.2	29.97	761.2	79.0	26.1	88	s.	10	4.5		3 c;k	0	sw.		0	0	clear	J. H. Webber.
St. Paul, Minnesota	29.09	738.9	29.94	760.5	63.0	17.2	84	w.	5	2.2		8 cs	0	w.		0.03	0.8	cloudy	P. F. Lyons
St. Vincent, Minnesota	28.99	735.3	29.84	757.9	57	13.9	74	w.	6	2.7		0	0			0.30	7.6	clear	G. Kingsbury.
Salt Lake City, Utah	25.58	649.7	29.80	756.9	56	13.3	53	s.	3	1.3		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.30	744.2	29.98	761.5	76.0	24.4	90	calm	0	0			9 ks		se.	0	0	cloudy	E. Lane.
San Diego, California	29.90	759.4	29.97	761.2	61.1	16.2	84	ne.	3	1.3			10 s		sw.	0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.21	741.9	29.88	758.9	72.3	22.4	84	sw.	9	4.0			10 s			0.50	12.7	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.81	757.2	29.85	758.2	78.0	25.6	82	w.	12	5.4		0	0			0	0	clear	B. A. Blundon.
San Francisco, California	29.96	761.0	30.03	762.7	53.5	11.9	90	sw.	6	2.7		0	fg.		w.	0	0	fair	N. Gorom.
Santa Fé, New Mexico	23.33	592.6	29.84	757.9	60	15.6	27	e.	1	0.4		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	30.04	763.0	30.13	765.3	81	27.2	74	sw.	5	2.2		1 c	0			0.11	2.8	clear	H. W. Ford.
Shreveport, Louisiana	29.81	757.2	30.04	763.0	78	25.6	82	calm	0	0		8 c; k	0			0	0	cloudy	E. N. Meekins.
Silver City, New Mexico	24.35	618.5	29.85	758.2	63	17.2	47	calm	0	0		0	4 s		calm	0	0	fair	J. B. Wallace.
Sitka, Alaska	30.06	763.5	30.12	765.0	50	10.0	77	ne.	4	1.8			10 ks		calm	0.04	1.0	cloudy	J. J. McLean.
Smithville, North Carolina	30.07	763.8	30.11	764.8	80	26.7	82	w.	12	5.4		0	7 k		w.	0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	28.00	711.2	30.04	763.0	49	9.4	93	calm	0	0		0	0			0	0	clear	D. Moore.
Springfield, Illinois	29.27	743.4	29.94	760.5	80	26.7	79	se.	4	1.8		0	4s;ks		w.	0	0	fair	T. B. Jennings.
Springfield, Massachusetts	29.68	753.9	29.81	757.2	74.6	23.7	85	w.	4	1.8			10 n			0.20	5.1	light rain	T. S. Outram.
Springfield, Mo.	28.58	725.9	30.04	763.0	77	25.0	82	s.	6	2.7		0	0			0	0	clear	J. B. Marbury.
Starkville, Miss.	29.64	752.8	30.11	764.8	80.9	27.2	79	s.	4	1.8		0	0			inap.	inap.	clear	M. J. Wright.
Stockton, Texas	26.94	684.3	29.86	758.4	71.0	21.7	76	s.	20	8.9		7 cs	0	calm		0	0	fair	J. O'Dowd.
Thatcher's Island, Mass.	29.71	754.6	29.76	755.9	65.5	18.6	100	w.	8	3.6		8 k	fg.	w.		0.01	0.3	cloudy	G. Liebmann
Toledo, Ohio	29.20	741.7	29.88	758.9	73	22.8	82	se.	10	4.5		3 cs	7 s	w.	w.	0.44	11.2	cloudy	A. Buell.
Tucson, Arizona	27.54	699.5	29.84	757.9	75	23.9	43	e.	3	1.3		4 c	0			0	0	fair	J. L. Whiteside.
Umatilla, Oregon	29.62	752.3	29.98	761.5	53	11.7	48	se.	7	3.1		0	1 s			0	0	clear	J. Daly.
Uvalde, Texas	29.02	737.1	29.96	761.0	74	23.3	84	e.	4	1.8			10 s		s.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.82	757.4	30.07	763.8	76	24.4	90	se.	4	1.8		0	1 s			0.03	0.8	clear	H. P. Brisbane.
Visalia, California	29.58	751.3	29.95	760.7	59	15.0	60	nw.	3	1.3		0	0			0	0	clear	W. L. Seward.
Washington, D. C.	29.84	757.9	29.95	760.7	81.0	27.2	79	sw.	4	1.8		5 c	0	nw.		0	0	fair	B. M. Purssell.
West Las Animas, Colorado	25.95	659.1	29.73	755.1	65.3	18.5	56	calm	0	0		0	0			0	0	clear	F. W. Brandenburg.
Williamsport, Pa.	29.26	743.2	29.86	758.4	80	26.7	67	w.	11	4.9		3 cs	6 ks	w.	w.	inap.	inap.	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.04	763.0	30.09	764.3	78	25.6	88	sw.	5	2.2		2 k	2 s	sw.	sw.	0	0	fair	A. T. Sherwood.
Winnemucca, Nevada	25.63	651.0	29.89	759.2	53	11.7	69	s.	5	2.2		0	5 ks		sw.	0	0	fair	J. R. Williams.
Yankton, Dakota	28.78	731.0	30.06	763.5	64	17.8	84	nw.	2	0.9			10 n			inap.	inap.	light rain	J. H. Attield.
Yuma, Arizona	29.69	754.1	29.83	757.7	70.8	21.6	54	calm	0	0		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.05	560.1			53.0	11.7	76	sw.	2	0.9		1 cs;k	8 s		e.	0	0	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.08	764.0	30.09	764.3	81	27.2	95	ne.					10 n					light rain	J. A. Racker.
Buenaventura, U. S. C.	29.95	760.7	29.98	761.5	76	24.4	90	s.	6	2.7		0	8 ks		s.	0	0	cloudy	J. I. Plume.
Havana, Cuba, W. I.																			A. Van Caneghem.
Kingston, Jamaica, W. I.	30.05	763.3	30.06	763.5	82.6	28.1	76	calm	0	0		8cjck;os	0			0	0		Robert Johnston.
Magua, San Domingo, W. I.					72	22.2		calm			0	0	1 ck		e.	inap.	inap.		S. M. Pike.
Paramaribo, S. A.	30.06	763.5	30.07	763.8	79	26.1	87	se.			2	5 k	1 s		e.	0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.48	748.8	30.04	763.0	78	25.6	89	calm			0	0	5 ks		e.	0.37	9.4	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							94	se.			2	8 ck	0		se.	0	0	cloudy	Earl Flint.
Santiago de Cuba, W. I.	30.07	763.8	30.10	764.5	80	26.7	82	calm	0	0		2 cs	0			0	0	clear	Robert Mason.
York Factory, B. A.	29.72	754.9	29.78	756.4	54.0	12.2	93	sw.	10	4.5		3 k	6 s	sw.	sw.	0.08	1.3	raining	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S Alert, Simon's Bay, Cape Colony, Africa	30.44	773.2	64.5	18.1	57	ese.			2		0							misty.
H. M. S. Alexandra, N. 31° 21′ E. 29° 45′	29.92	760.0	74.5	23.6	74	wnw.			4		0					2	wnw	misty.
H. M. S. Amethyst, Montevideo, Uruguay	30.25	768.3	48.5	9.2	89	nne.			2		0							blue sky.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.89	759.2	71	21.7		n.			2		2							d. clouds.
H. M. S. Arab, Muscat, Arabia	29.53	750.0	91	32.8	76	e.			3		0							misty.
H. M. S. Bacchante, Palermo, Sicily	30.03	762.7	75	23.9	90	nne.			1		2	nnw.						misty.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.45	773.4	62	16.7		ese.			1-2		0							squally.
H. M. S. Champion, N. 19° 05′, W. 175° 20′			79	26.1		ene.			5-6		8					6	e.	squally.
H. M. S. Coquette, Port Said, Egypt	29.91	759.7	76	24.4		nw.			2		0							blue sky.
H. M. S. Cruiser, N. 39° 02′, E. 15° 10′	30.02	762.5	78	25.6		calm			0		0							blue sky.
H. M. S. Diamond, S. 8° 42′, E. 161° 00′	29.84	757.9	81.5	27.5	98	se.			3-5		10							showery.
H. M. S. Dido, N. 13° 05′, W. 59° 30′	30.09	764.3	78	25.6		ne.			2-5		3	ese.						showery.
H. M. Dock Yard, Bermuda, W. I.	30.22	767.6	74	23.3	76	ssw.			1		3	ssw.						d. clouds.
H. M. S. Druid, N. 18° 33′, W. 72° 21′	30.12	765.0	80	26.7	95	calm			0		2	e.						d. clouds.
H. M. S. Dwarf, S. 27° 43′, W. 58° 25′	30.03	762.7	55.5	13.1	93	calm			0		9							d. clouds.
H. M. S. Eclipse, S 4° 37′, E. 55° 30′	29.93	760.2	80	26.7		ese.			1		6							d. clouds.
H. M. S. Emerald, S. 39° 50′, W. 36° 10′	29.90	759.4	51	10.6	100	w.			5-6		3	w.				7	w.	showery.
H. M. S. Euryalus, Trincomalee, Ceylon, India	29.77	756.1	78	25.6	82	sw.			1		9	calm						d. clouds.
H. M. S. Espiegle, S. 18° 47′ E. 168° 58′	29.93	760.2	61	16.1	94	e.			2		4	n.				1	s.	d. clouds.
H. M. S. Fawn, S. 25° 59′, E. 32° 55′	30.34	770.6	69	20.6	49	sw.			4		3							d. clouds.
H. M. S. Fantome, N. 16° 28′ W. 77° 25′	30.00	762.0	81	27.2		ene.			3-4		6	ene.				5	ene.	d. clouds.
H. M. S. Flying Fish, N. 35° 44′, E. 125° 29′	29.73	755.1	71.5	21.9	92	s.			3		4					3	ssw.	d. clouds.
H. M. S. Gannet, S. 27° 03′, W. 70° 51′	30.13	765.3	51	10.6	75	e.			3		10							overcast.
H. M. S. Garnet, S. 33° 11′, W. 54° 50′	30.41	772.4	59	15.0	64	calm			0		7					3	s.	d. clouds.
H. M. S. Griffon, N. 49° 35 W. 43° 30′	29.81	757.2	54	12.2	79	n.			2		2							d. clouds.
H. M. S. Inconstant, N. 23° 00′, W. 20° 30′	30.19	766.8	74	23.3	72	ne.			3-4		7	ne.				4	ne.	squally.
H. M. S. Iron Duke, N. 35° 26′, E. 139° 39′	29.71	754.6	67	19.4	94	n.			2		5							raining.
H. M. S. Kingfisher, N. 19° 10′, W. 105° 00′	29.91	759.7	82	27.8		wnw.			2		6					3	w.	d. clouds.
H. M. S. Lark. S. 10° 40′, E. 162° 22′	29.90	759.4	82.3	27.9		e.			2		6					2	e.	d. clouds.
H. M. S. Magpie, N. 34° 56′, E. 139° 52′	29.74	755.4	69.2	20.7	92	n.			1		10					1	nw.	misty.
H. M. S. Minotaur, Malta, Mediterranean	30.04	763.0	76	24.4	74	nne.			1		0							blue sky.
H. M. S. Nelson, S. 36° 50′ E. 174° 49′	29.26	743.2	58	14.4	93	e.			1		8							raining.
H. M. S. Northampton, Halifax, Nova Scotia	29.81	757.2	59	15.0	84	wsw.			1									foggy.
H. M. S. Rambler, S. 15° 02′ E. 5° 38′	30.08	764.0	65	18.3	100	s.			3		10	s.				5	s.	overcast.
H. M. S. Rocket, N. 50° 00′, W. 128° 00′	30.03	762.7	52	11.1	93	ese.			1		2							d. clouds.
H. M. S. Sappho, S. 23° 43′ W. 119° 31′	30.09	764.3	68.5	20.3		sse.			3		4	calm				2	s.	d. clouds.
H. M. S. Swiftsure, S. 7° 09′, W. 29° 00	30.08	764.0	82.5	28.1	74	ene.			3		3	ene.				4	nne.	d. clouds.
H. M. S. Sylvia, S. 32° 08′, W. 50° 20′	30.35	770.9	58.7	14.8	78	nw.			1		2	calm				4	s.	d. clouds.
H. M. S. Tenedos, N. 47° 40′ W. 57° 18′	29.79	756.7	55	12.8	87	s.			1		1							blue sky.
H. M. S. Triumph, Valparaiso, Chili	30.02	762.5	48	8.9	92	ese.			2		10	calm						d. clouds.
H. M. S. Tyne, N. 36° 50′, W. 25° 51′	30.23	767.8	71	21.7	90	sw.			1		2					3	nnw.	d. clouds.
H. M. S. Woodlark, N. 29° 46′, E. 48° 50′	29.57	751.1	89.5	31.9	63	nw.			3-4		0							blue sky.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verd Islands	30.13	765.4	77.9	25.5	92	ne.			2		0					2	ne.	blue sky.
Tamega, Macao, China	29.81	757.2	86.0	30.0	77	s.			3		2							d. clouds.
Swedish Naval.																		
Saga, N. 47° 14′, W. 20° 05′	29.88	759.0	59.0	15.0	84	w.			5		5							d. clouds.
United States Naval.																		
Navy Yard, Pensacola, Fla	30.06	763.5	83	28.3	79	sse.	5	2.2			2		sse.	0	0			fair.
Navy Yard, Portsmouth, N. H.	29.72	754.9	72	22.2	76	calm	0	0			2		w.	0.2	5.			clear.
Naval Hospital, Yokohama, Japan*	29.61	752.1	67	19.4	97	calm			0		10		n.	0.94	23.9			misty.
Adams, Mare Island, Cal	30.04	763.0	59	15.0	94	ssw.			2		8			0	0			cloudy.
Alaska, Callao, Peru	29.98	761.5	59	15.0	94	se.			1		8			0	0	sm'h		fair.
Alert, N. 43° 00′, E. 164° 10′*	29.84	757.9	46	7.8	92	calm			0		10		calm	0	0	long	nne.	misty.
Alliance, Boston, Mass	29.77	756.1	75	23.9	86	wsw.			1		10			light	light			cloudy.
Ashuelot, Yokohama, Japan	29.74	755.4	69	20.6	95	ene.			2		10		calm					cloudy.
Brooklyn, Rio de Janeiro, Brazil	30.38	771.6	66	18.9	94	nw.	3	1.3			2		calm	0.11	2.8	sm'h		fair.
Colorado, New York, N. Y.	29.85	758.2	78	25.6	76	sw.	12	5.4			5		w.	0	0			fair.
Constellation, Chesapeake Bay*	29.96	761.0	80	26.7	78	sw.			5		5		sw.					fair.
Enterprise, Norfolk, Va*	29.98	761.5	78	25.6	86	sw.			2		5		sw.					fair.
Essex, Elizabeth Island, Patagonia	29.59	751.6	41	5.0	82	sw.			1		8		sw.			sm'h		fair.
Franklin, Norfolk, Va	30.04	763.0	78	25.6	82	wsw.	10.8	4.8			2		w.	0	0			clear.
Galena, Alexandria, Egypt	29.93	760.2	77	25.0	91	nw.			3		0					sm'h		clear.
Independence, Mare Island, Cal	30.04	763.0	56	13.3	87	sw.			2		2		sw.	0	0			fair.
Iroquois, San Francisco, Cal	30.10	764.5	59	15.0	70	sw.			2		2		sw.	0	0			fair.
Kearsage, Norfolk, Va	30.02	762.5	77	25.0	95	wnw.			1		5		wnw.					cloudy.
Lackawanna, S. 11° 39′, W. 77° 50′*	30.02	762.5	60	15.6	82	se.			3		10		se.			mod.	se.	fair.
Lancaster, N. 33° 33′, E. 22° 34′*	29.97	761.2	76	24.4	95	nw.			3		2		ene.	0	0			clear.
Marion, S. 34° 54′, W. 56° 13′	30.24	768.1	45	7.2	100	n.			1		0					sm'h		cloudy.
Michigan, Detroit, Michigan	29.81	757.2	69	20.6	95	w.			2		8		w.					misty.
Minnesota, Newport, R. I	29.85	758.2	67	19.4	84	sw.	10	4.5			10		w.					raining.
Monocacy, Port Lazaref, Corea	29.73	755.1	62	16.7	88	ese.			2		10		calm					cloudy.
New Hampshire, Newport, R. I	29.75	755.6	64	17.8	89	sw.			3		10		sw.			sm'h		clear.
Nipsic, Trieste, Austria	30.08	764.0	79	26.1	62	wnw.			1		2					sm'h		cloudy.
Onward, Callao, Peru†	30.15	765.8	58	14.4	88	se.			1		10		n.			long	w.	cloudy.
Palos, Kobe, Japan	29.78	756.4	72	22.2	95	nne.			1		10		calm					cloudy.
Passaic, Washington, D. C	29.96	761.0	80	26.7	91	sw.			1		2		sw.					fair.
Pensacola, Callao, Peru	30.09	764.3	61	16.1	88	se.	1	0.4			10			0	0	sm'h		cloudy.
Powhatan, N. 33° 53′, W. 77° 19′	30.11	764.8	84	28.9	75	sw.			4		5		ssw.			sm'h		fair.
Portsmouth, Brest, France*	29.99	761.7	62	16.7	77	sw.			3		5?		sw.			sm'h		clear.?
Quinnebaug, N. 38° 14′ E. 12° 10′	30.03	762.7	78	25.6	73	ese.			2		2		calm			sm'h		hazy.
Ranger, Mare Island, Cal*	29.99	761.7	60	15.6	76	sw.			2		10		sw.	0	0			overcast.
Richmond, Yokohama, Japan*	29.70	754.4	69	20.6	100	calm			0		10			0.87	22.1			cloudy.
Saratoga, Brest, France	30.00	762.0	65	18.3	80	sw.			2		8		sw.	0	0	sm'h		fair.
St. Louis, League Island, Pa	30.13	765.3	80	26.7	78	sw.	8	3.6			2			0	0			clear.
Swatara, Kobe, Japan*	29.64	752.8	74	23.3	86	sw.			2		10		sw.			sm'h		cloudy.
Tennessee, off New York, N. Y.	29.87	758.7	80	26.7	91	sw.	8.5	3.8			0			0	0			clear.
Vandalia, Portsmouth, N. H.	29.78	756.4	73	22.8	100	s.			1		2		calm					fair.
Wabash, Boston, Mass	29.78	756.4	74	23.3	86	sw.	4	1.8			10		sw.	0	0			cloudy.
Wachusetts, Juneau City, Alaska	30.00	762.0	50	10.0	93	calm			0		10							foggy.
Wyoming, Port Royal, S. C.	30.13	765.3	78	25.6	86	w.	6	2.7			2		se.	0	0			clear.
Yantic, New York, N. Y*	29.99	756.7	77	25.0	91	ssw.			2		5							fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.						
								Force.	Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																	
S. S. Circassian, N. 49° 46′, W. 65° 00′*	29.33?	745.0?	51	10.6	100	sw.			5		10		w.	0	0	sm'h	overcast.
S. S. Grecian, N. 49° 17′, W. 66° —′*	29.66	753.4	54	12.2		calm			0		10		ssw.	0	0	sm'h	overcast.
S. S. Nova Scotian, N. 51° 19′, W. 35° 15′	29.70	754.4	53	11.7		s.			3		10		s.			long	nw. raining.
S. S. Prussian, N. 51° 36′, W. 20° 10′*	29.69	754.1	55	12.8		nw.			2		2		n.	0	0	cross	n. clear.
AMERICAN STEAMSHIP COMPANY.																	
S. S. Illinois, Philadelphia	30.10	764.5	77	25.0	95	sw.			2		2		sw.				very fine.
S. S. Indiana, N. 47° 49′. W. 29° 56†′	30.08	764.0	62	16.7	88	w.			4		10		w.			sm'h	w. showery.
S. S. Lord Clive, Philadelphia*†	29.82	757.4				w.			1		0			0	0		fine.
S. S. Lord Gough, N. 47° 53′, W. 24° 27′	29.99	761.7	57	13.9		nw.			5		10			0	0	long	ne. cloudy.
ANCHOR LINE.																	
S. S. Bolivia, N. 55° 35′, W. 14° 05′†	29.91	759.7	56	13.3		wsw.			1		5?		wsw.	3 h'r	3 h'r	sm'h	wsw. cloudy.?
S. S. Devonia, N. 52° 19′, W. 25° 50′†	30.13	765.3	54	12.2		n.			2		4		nne.			mod.	n. clear.
S. S. Ethiopia, N. 40° 23′, W. 70° 51′	29.88	758.9	64	17.8	94	sw.			4		8		sw.	0	0	sm'h	overcast.
S. S. Utopia, N. 38° 48′ W. 17° 20′†	30.40	772.1	66	18.9	68	w.			1		1		w.	3 h'r	3 h'r	sm'h	nw. clear.
ATLAS LINE.																	
S. S. Ailsa, Carthagena, U. S. C,†	29.91	759.7	81	27.2	91	ene			3		2		ne.	0	0		fair.
S. S. Alvena, Savannah le Mar, Jamaica, W. I.†	29.94	760.5	81	27.2	74	calm			0		2		calm	1 h'r	1 h'r		fine.
S. S. Antillas, N. 24° 38′, W. 68° 26′*†	30.35	770.9				se			2		5		se.	0	0	light	se. fine.
BRITISH METEOROLOGICAL OFFICE.																	
Bk. Arran, S 28° 08′. E. 81° 38′	30.23	767.8	65.5	18.6	78	nw.			2		10						overcast
S. Baroda, S. 12° 52′, E. 75° 54′	29.95	760.7	76.7	24.8	84	se.			4		9						squally.
British Merchant, N. 37° 12′, W. 34° 30′	30.18	766.6	72.6	22.6	92	sw.			3-4		4						d. clouds.
S. S. Glencairn, N. 0° 18′, W. 22° 19′	30.12	765.0	76.5	24.7	88	s.			4-5		7						d clouds.
S. S. Gordon Castle, N. 12° 16′, E. 48° 23′	29.70	754.4	91.2	33.9	73	w.			2		0						blue sky.
S. S. May Hulse, S. 41° 15′, W. 37° 56′	29.94	760.5	47.4	8.6	81	wsw.			8		6						raining.
S. S Minho, N. 33° 12′, W. 13° 09′	30.22	767.6	71.1	21.7	75	n.			4		7						d. clouds.
S. S. Pole Star, S. 4° 21′, W. 29° 13′	30.12	765.0	79.5	26.4	90	ese.			4		2						blue sky.
CUNARD LINE																	
S. S. Bothnia, N. 41° 43′, W. 57° 42′	29.94	760.5	74	23.3	90	w.			5-6		10			3 h'r	3 h'r		w. showery.
S. S. Scythia, New York, N. Y.	30.00	762.0	78.5	25.8	89	s.			1		2		w.	0	0		fair.
GENERAL TRANS-ATLANTIC COMPANY.																	
S. S. Ville de Marseilles, Marseilles, France*†	30.05	763.3	77	25.0		sw.			1		0			0	0		clear.
HAMBURG AMERICAN PACKET COMPANY.																	
S. S. Bohemia, N. 40° 28′, W. 66° 58′*†	29.98	761.5				ssw.			6		5		sw.	0	0	mod.	sw. foggy.
S. S. Herder, N. 49° 30′, W. 11° 28*†	29.75	755.6	61	16.1		ssw.			5		4?		sw.	2 h'r	2 h'r		wsw. cloudy.?
S. S. Lessing, N. 40° 44′, W. 52° 43	30.07	763.8	70	21.1		nnw.			3		8		wnw.	rain	rain	mod.	wnw. cloudy.
S. S. Wieland, N. 40° 41′, W. 55° 56′	30.10	764.5	73	22.8		sw.			4		10		w.	3 h'r	3 h'r	3	wsw. rainy.
INMAN LINE.																	
S. S. City of Berlin, N. 51° —′, W. 15° —′	29.65	753.1				ene.			6		9		ene.	sh's	sh's	mod.	e. fair.
JOHNSTON LINE.																	
S. S. Thanemore, N. 44° 31′ W. 36° 33′	29.90	759.4				nw.			4		5		wnw.	4 h'r	4 h'r	sl'gt	nw. fine.
MALLORY LINE.																	
S. S. Colorado, N. 30° 15′ W 79° 13′†	30.17	766.3	79	26.1		se.			3		4		se.	sh'rs	sh'rs	mod.	sw. clear.
MERCHANTS' EXPRESS LINE.																	
S. S. Hermod, N. 50° 15′, W. 1° 30′.*†	29.80	756.9	64.4	18.0		ssw.			2		4		sw.	0	0	sm'h	clear.
MERCHANTS' STEAMSHIP COMPANY.																	
S. S. Glenfyne, S. 14° 18′, W. 38° 28′	29.62	752.3				var.			8				nw.	8 h'r	8 h'r	rg'h	se. cloudy.
S. S. Glenapp, Para, Brazil*†	29.96	761.0				var.			1		5?		var.	0	0		clear?
NATIONAL LINE.																	
S. S. Canada, N. 50° 15′, W. 2° 32′†	30.12	765.0	60	15.6		ssw.			4		10		w.	0	0	sm'h	
S. S Denmark, London, Eng	30.03	762.7	57	13.9		sw.			4		10		wsw.	6 h'r	6 h'r		cloudy.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																	
S. S. Santiago, N. 20° 00′, W. 74° 14′.†	30.07	763.8	83	28.3		e.			7		2		ese.	0	0	chop	e. fine.
S. S. Saratoga, Havana, Cuba†	30.34	770.6	86	30.0	79	calm			0		0			0	0		clear.
NEW YORK, HAVANA AND MEXICAN MAIL.																	
S. S. City of Alexandria, N. 28° 47′, W. 78° 15′*†	30.24	768.1	80	26.7	86	s.			3		3		sse.	0	0	small	sse. fair.
S. S. Puebla, N. 25° 30′, W. 80° 00′†	30.06	763.5	80	26.7		ese.			1		2		se.			light	se. fair.
NEW YORK HERALD WEATHER SERVICE.																	
S. S. Amsterdam, N. 43° 58′, W. 41° 04′*†	30.20	767.1	70	21.1		wsw.			4								nw. fair.
NORTH GERMAN LLOYD																	
S. S. American, N. 38° 31′, W. 62° 38′*	30.13	765.3	75.6	24.2		wsw.			5		10		wsw.	0	0	mod.	wsw. fair.
S. S. Elbe, N. 42° 52′, W. 43° 51′	30.07	763.7	69.8	21.1	91	w.			2-3		8		nnw.	0	0	sm'h	n. cloudy.
S. S. Hohenzollern, N. 39° 58′, E. 56° 51′*	30.04	763.0	75	23.9		w.			5		9		w.	rain	rain	mod.	w. cloudy.
S. S. Oder, N. 45° 17′, W. 36° 12′	29.93	760.2	60.8	16.0		wnw.			3		10		nnw.	4 h'r	4 h'r	sm'h	nnw. rainy.
S. S. Ohio, Bremerhaven, Germany						se.			4		3		se.	0	0		fair.
S. S. Rhein, N. 40° 24′ W. 66° 58′	29.91	759.7				wsw.			4		8		sw.	0	0	mod.	sw. misty.
S. S. Salier, N. 49° 14′, W. 16° 50′	29.75	755.6	50.0	10.0		wnw.			7		10		wnw.	5 h'r	5 h'r	cross	nw. raining.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																	
S. S. Belgic N. 45° 37′, W. 148° 12′†	30.22	767.6	60	15.6	82	ese.			2		8		se.	0	0	sm'h	cloudy.
S. S. Coptic, N. 46° 14′, W. 164° 20′	30.14	765.5	51.5	10.8		wsw.			3		10		w.	3 h'r	3 h'r	4	w. misty.
S. S. Gaelic, N. 39° 49′, E. 149° 25′†	29.88	758.9	65	18.3	90	ene.			3		3?		n.			mod.	ene. cloudy.?
S. S. Oceanic, Yokohama, Japan*	29.72	754.9	72	22.2	90	var.			3		6		w.				fine.
OCEAN STEAMSHIP COMPANY.																	
S. S. City of Augusta, N. 34° 10′, W. 76° 44′ †	30.19	766.8				s.			2		3			0	0	sm'h	clear.
S. S City of Columbus, New York, N. Y.†	30.03	762.7				sw.			2		6		sw.	0	0		cloudy.
S. S. Seminole, N. 35° 25′ W. 75° 10′†	30.12	765.0	70	21.1	80	sw.			5		1		sw.	0	0	mod.	s. clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																	
S. S. Columbia, N. 45° 47′, W. 124° 06′†	30.11	764.8	54	12.2	80	n.			3		9		nnw.			mod.	nnw. cloudy.
S. S. Oregon, San Francisco, Cal.†	30.02	762.5	53	11.7	93	calm			0		0						hazy.
PACIFIC COAST STEAMSHIP COMPANY.																	
S. S. Ancon, San Francisco, Cal.†	29.96	761.0	53	11.7	93	w.			1		8		w.				cloudy.
S. S. Dakota, Seattle, Wash. Ter.*†	30.06	763.5	63	17.2	78	calm			0		8		w.			sm'h	cloudy.
S. S. Idaho, N. 46° 48′, W. 125° 06′†	30.12	765.0	54	12.2	87	nw.			1		1		nw.			mod.	nw. clear.
S. S. State of California, Portland, Oregon†	30.07	763.8	52	11.1	86	w.			2		4		w.				fair.
S. S. Victoria, Portland, Oregon†	29.90	759.5	53	11.7	100	calm			0							sm'h	clear.
PACIFIC MAIL STEAMSHIP COMPANY.																	
S. S Australia, S. 36° 10′, E. 175° 10′	29.49	749.0	60	15.6	76	ssw.			7		5		ssw.	0	0	long.	ssw. misty.
S. S. City of Pekin, Hong Kong, China†	29.84	757.9	85	29.4	92	ssw.			1		2		s.	0	0	sm'h	clear.
S. S. City of Rio de Janeiro, N. 23° 04′, W. 107° 17′†*	30.19	766.8	80	26.7	87	nw.			4		4		nw.	0.1	3.	mod.	sw. fine.
S. S. City of Sydney, Sydney, N. S. W.†	29.93	760.2	54	12.2	74	sw.			3		8		sw.	0	0	sm'h	cloudy.
S. S. Clyde, N. 29° 48′, W. 115° 53′†	29.96	761.0	60	15.6	82	n.			1		10		n.	0	0	mod.	nw. cloudy.
S. S. Colima, N. 22° 58′, W. 108° 43′†	29.96	761.0	78	25.6	82	w.			3		1		wsw.	0	0	hv'y	sw. cloudy.
S. S. Colon, N. 38° 21′ W. 73° 57′†	29.99	761.7	70	21.1		wsw.			3		3		wsw.	0	0	sm'h	sw. clear.
S. S. Granada, Panama, Panama†	29.87	758.7	80	26.7	91	nnw.			2		8		nw.	2 h'r	2 h'r		cloudy.
S. S. South Carolina, off Huerito Id, Panama Bay†	29.99	761.7	78	25.6	95	sse.			2		10		se.	4 h'r	4 h'r	light	sw. cloudy.
S. S. Zelandia, S. 13° 56′, W. 170° 14′	29.96	761.0	80	26.7	91	n.			1		8		ne.			mod.	se. fair.
QUEBEC STEAMSHIP COMPANY.																	
S. S. Muriel, N. 30° 20′, W. 68° 00′	30.09	764.3	79	26.1		s.			2		10			0	0	long	e. overcast.
S. S. Bermuda, N. 26° 35′, W. 67° 14′†	30.27	768.8	84	28.9		e.			3		3		e.	0	0	long	ese. fine.
RED STAR LINE.																	
S. S. Nederland, N. 41° 54′, W. 42° 37′†	30.09	764.3	66	18.9		wnw.			1		2		wnw.	1 h'r	1 h'r	sm'h	wnw. clear.
S. S. Pennland, N. 50° 10′, W. 3° 38′†	29.97	761.2	58	14.4		ssw.			3		2		ssw.	0	0	sm'h	clear.
S. S. Rhynland, Antwerp, Belgium	30.09	764.3	67	19.4	79	nw.			5		10		nw.	0	0		cloudy.
S. S. Vaderland, N. 40° 17′ W. 69° 37′	29.77	756.1	63	17.2	94	sw.			4		fg			0	0	mod.	sw. foggy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ROTTERDAM LINE.																		
S. S. P. Caland, N. 49° 39′ W. 16° 10′†	29.79	756.7	56.1	13.4	90	s.			3		10 n					mod.	n.	fair.
STATE LINE.																		
S. S. State of Florida, New York, N. Y.	29.78	756.4	80	26.7		sw.			2		4		sw.	0	0			fair.
S. S. State of Georgia, N. 41° 11′, W. 51° 56′†	30.11	764.8	65	18.3		wsw.			5		9		nw.	8 h'r	8 h'r	sl't		rainy.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 40° 28′, W. 68° 54′	30.11	764.8	65.3	18.5	76	ssw.			2		5?		ssw.	0	0	mod	ssw.	clear?
WHITE CROSS LINE.																		
S. S. Plantyn, N. 44° 36′, W. 32° 25′	29.96	761.0									8		sw.	0	0	sm'l		
WHITE STAR LINE.																		
S. S. Baltic, N. 41° 15′ W. 65° 04′†	30.05	763.3	68	20.0	90	sw.			3		10		w.	2 h'r	2 h'r	sm'l		misty.
S. S. Celtic, N. 46° 29′, W. 38° 11′†	29.98	761.5	63	17.2	78	nw.			4		2		wnw.	sh'rs	sh'rs	sm'l		fair.
S. S. Germanic, N. 40° 20′, W. 68° 18′†	29.99	761.7	62	16.7		sw.			4		8		ssw.			sm'l		foggy.
WILSON LINE.																		
S. S. Otranto, N. 43° 32′, W. 47° 35′†	30.16	766.1	71	21.7		sw.			4		8?		sw.			short	sw.	clear.?
MISCELLANEOUS.																		
Bg. Abbie Clifford, N. 29° 33′ W. 75° 30′*†	30.25	768.3	81	27.2		s.			2		2		se.	½ h'r	½ h'r	sm'l	se.	fine.
Schr. Addie Fuller, Bath, Me†	29.76	755.9	70	21.1	90	ssw.				0	7 k		sw.	0.29	7.4			cloudy.
Schr. Ajax, N. 28° 20′, W. 96° 21′†	30.04	763.0				calm			0		1		se.	0	0	sm'l	se.	clear.
Bk. Alpha, New York, N. Y†	29.86	758.4	78	25.6		sw.			4		4		wsw.	0	0			
Schr. Annie Lewis, Mobile Bay, Ala†	30.23	767.8	84	28.9		ssw.			2		5?		ssw.	0	0	sm'l		cloudy.?
Bk. Anna Thorman, S. 26° 43′, W. 26° 36′	30.43	773.0	65.5	18.6	62	se.			4		6 k		se.	0	0	high	ssw.	fair.
S. S. Antonio Lopez, N. 36° 00′ W. 5° 50′	30.09	764.3	70.5	21.4	79	w.			3		2 s			0	0	sm'l		clear.
Schr. Asa Eldridge, Off Key West, Fla†	30.07	763.8				sse.			3		5		se.	1 h'r	1 h'r	sm'l		squally.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.51	774.9	70	21.1		nw.			1		2		wnw.	2 h'r	2 h'r			clear.
Bk. Cato, N. 39° 10′, W. 70° —′*†	30.31?	769.9?				sw.			5		7		sw.	0	0	sm'l	sw.	fair.
Schr. C. R. Flint, N. 27° 45′, W. 87° 38′†	30.29	769.4	73	22.8		sse.			1		2		s.	0	0	sm'l	se.	clear.
Schr. Edith R. Seward, N. 32° 57′, W. 76° 04′*†	30.20	767.1	84	28.9		ssw.			3		5		sw.	0	0	long	sw.	fair.
S. E. J. Spicer, N. 45° 40′, W. 52° 28′†	30.02	762.5				s.			5		5		w.	mist	mist	sm'l		
Bk. Essex, S. 13° 36, W. 32° 56′*†	30.14	765.5	79	26.1		sse.			3		1		sse.	0	0	long	se.	fine.
Bk. Freya, N. 41° 33′, W. 53° 20′			70	21.1		wsw.			6		8		wnw.	4 h'r	4 h'r	cross	w.	squally.
S. Grecian, Hong Kong, China*†	29.85	758.2	86	30.0		s.			2		2		se.	0	0			clear.
Bk Hattie G. McFarland, N. 43° 30′ W. 68° 50′*†	29.70	754.4	60	15.6		wsw.			3		8		nw.	0	0	short	sw.	cloudy.
S. Hedwig, N. 39° 35′, W. 18° 42′	30.26	768.5	66.2	19.0	78	sw.			4		6		sw.	0	0	long	nw.	fine.
S. Ismir, S. 37° 59′ W 15° 28′†	29.82	757.4				nw.			3		10					high	nw.	light rain.
S. Ivy, N. 42° 12′ W. 126° 30′†	30.35	770.9	60	15.6		n.			3		10		n.			sm'l	nw.	cloudy.
Schr. Jennie N. Huddell, N. 42° 45′ W. 69° 58′†	29.93	760.2	64	17 8	94	sw.			3				nw.	light	light			light rain
Schr. John L. Thomas, Pigeon Cay, Mosquito coast*†	30.07	763.8				e.			4		3		se.	½h'r	½h'r	mod.	e.	fair.
S. S. Lamperts, N. 17° 00′, E. 56° 35′*	29.66	753.4	81.0	27.2	82	wsw.			6		6 ks					5		misty.
Light House Tender, Laurel, Key West, Florida†	30.14	765.5	83	28.3		ese.			2		9		se.	2 h'r	2 h'r			drizzling.
S. S. Malabar, N. 30° 33′, E. 134° 45′*†	29.77	756.1												6 h'r	6 h'r			hazy.
S. M. P. Grace, N. 5° 32′, W. 29° 30′*	30.01	762.2	75	23.9		s.			3				sse.	light	light	short	sse.	showery.
S. S. Nebo, N. 50° 23′, W. 37° 19′*†	29.93	760.2				w.			2		10		w.	0	0	short	wnw.	cloudy.
Bk. Orpheus, N. 39° 12′, W. 50° 10′	30.16	766.1	72	22.2		sw.			4		5 k;s					mod.	wnw.	fine.
S. Paramita, S. 48° 40′, W. 92° 07′†	29.03	737.3	45	7.2		w. to n.					9		sw.	9 h'r	9 h'r	con.	var.	cloudy.
Bk. Peppina, Newport, Eng†	29.99	761.7	68	20.0	69	ssw.			3		2		s.	0	0			fair.
S. S. Ponca, S. 11° 06′, W. 36° 24′†	30.14	765.5	83	28.3		se.			2		1		se.	20 mi	nutes	mod.	se.	clear.
Bk. Rosebud, S. 32° 46′, W. 3° 58*†	30.33	770.4	62	16.7	88	ene.			6					shr's	shr's	sm'l		showery.
S. Salisbury, S. 8° 05′, E. 105° 01′*	29.96	761.0	80.2	26.8	73	se.			4–5		5		se.	0	0	mod	se.	fair.
S. S. Sunbeam, N. 43° 18′, W. 9° 20′	30.13	765.3	67	19.4	64	sw.			3		4		sw.			sm'l	wsw.	d. clouds.
Bg. Teneriffe, Cardenas, Cuba, W. I.	30.05	763.3				e.			1		0			0	0			fine.
Bk. Truro, N. 49° 53′, W. 5° 14′*†	29.94	760.5				s.			3		2			2 h'r	2 h'r	sm'l		clear.
U. S. F. C. S. S. FishHawk, Annapolis, Md.†	30.17	766.3	85	29.4	91	sw.			3		3		calm	0	0			clear.
Bk. Vincenzo Accame, N. 37° 36′ W. 19° 20′†	30.51	775.0	73.4	23.0		calm			0									
Schr. Viola Reppard, Brunswick, Ga†	30.03	762.7	82	27.8		wsw.			1		1		wsw.	2 h'r	2 h'r			threatening.
Bkt. Wandering Jew, Boston, Mass*†	29.70	754.4	80	26.7		sw.			3		10		se.	sh'rs	sh'rs			fair.
Bk Warden Law, N. 49° 17′, W. 60 40′*	29.85	758.2				w.			4		2		wsw.	0	0	sm'l	w.	
Bg. Wauburn, N. 31° 00′, W. 69° 10′*†	30.00	762.0				sse.			3		3		se.	0	0	mod.		fair.
Bk Wm. Wilcox, S. 12° 35′, W. 35° 20′*†	30.33	770.4	80	26.7		se.			4		2		se.	0	0	mod.	s.	clear.
S. Wm. Woodbury, N. 35° 46′, W. 54° 48′*	30.25	768.3	74	23.3	?	sw.			2		2		sw.			sm'l	sw.	

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

UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 26, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours			30.02	762.5	78.8	26.0	72	sw.			3		2			0	0	fair	Moiroud.
Algiers			30.01	762.3	77.0	25.0	71	wnw.			4		0			0	0	clear	Nicolas.
La Galle			30.02	762.4	76.6	24.8	87	nne.			2		1			0	0	very fair	Fonfrède.
Tunis			30.06	763.5															Jacques.
Saida			30.10	764.5	85.6	29.8	32	ene.			1		2			inap.	inap.	fair	Perés.
Tebessa			30.10	764.5	89.2	31.8	20	n.			2		2			0	0	fair	Derché.
Geriville					81.0	27.2	11	w.			1		2			inap.	inap.	fair	Lonchamp.
Laghouat			30.13	765.3	94.6	34.8	25	e.			4		1			0	0	very fair	Abraham.
Biskra			30.10	764.6	98.6	37.0	24	se.			1		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	30.22	767.6	30.31	769.9	49.4	9.7	97	calm	0	0			9			0.07	1.8	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.55	750.6	30.08	764.0	77.0	25.0	45	e.			2		4			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.36	745.8	30.11	764.7	72.3	22.4	41	ese.	5.6	2.5			3			0	0		Dr. Wierzbiski.
Eperies	29.21	741.9	30.05	763.3	74.8	23.8	32	n.			2		9 s			0	0		Julius Mikolik.
Gratz	28.87	733.2	30.07	763.8	72.1	22.3	69	e.			2		6			0	0		Andreas Rospini.
Hermannstadt	28.65	727.6	30.04	762.9	69.8	21.0	60	e.			3		5			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.66	728.0	29.94	760.5	75.4	24.1	63	ene.			1		1			0	0	clear	The Staff.
Lemberg	29.11	739.4	30.07	763.8	69.1	20.6	45	nw.			1		4			0	0		Dr. T. Stanecki.
Pola	29.97	761.2	30.08	763.9	81.0	27.2	71	sse.			3		3			0	0		I. R. Hydrographic Office.
Szathmar	29.58	751.4	30.04	763.0	77.0	25.0	34	e.			2		6			0	0		Joseph Midlinszky, S. J.
Szegedin	29.79	756.7	30.06	763.6	71.8	22.1	45	ne.			1		6			0	0		Karl Stancel.
Trieste	30.01	762.3	30.11	764.9	75.9	24.4	52	calm			0		0			0	0		Royal Academy.
Vienna	29.39	746.5	30.08	763.9	76.6	24.8	31	se.			2		2			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.92	760.0	30.02	762.5	60.7	15.9	68	sse.	12	5.4			3			0.050	1.3	blue sky	W. Boswell
Armagh, Observatory																			S. Oall.
Bidston, Liverpool Obs'y			29.95	760.7	65.1	18.4	60	e.	16	7.2			3					d. clouds	John Hartnup.
Bolton, Sharples	29.43	747.5	29.96	761.0	63.8	17.7	60	se.					8					d clouds	Thomas Mackereth.
Bradford, Yorkshire	29.56	750.8	29.96	761.0	63.8	17.7	65	ne.			2		9			0.01	0.3	overcast	J. McLandsborough, F. R. A. S.
Bridgetown, Barbadoes																			Corpl. J. Surgenor, A. H. C.
Cardington			29.96	761.0	69.0	20.6	60	se.			0.6		7						John McLaren.
Chatham, School M. E.	29.88	758.9	30.01	762.2	62.4	16.9	71	e.			1		7			blank	blank	gloomy	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.69	754.1	29.91	759.7	61.0	16.1	80	sse.			2		6					d. clouds	The Staff.
Fort Napier, Natal	28.13	714.5	30.35	770.9	64.2	17.9	57	se.			2		6						Pvt. Lane, A. H. C.
Free Town, Sierra Leone	29.66	753.4	29.88	758.9	78.0	25.6	86	nw.			1		7					d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	29.98	761.5	30.04	763.0	79.4	26.3	69	w.			2		0					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.81	757.2	30.01	762.2	56.4	13.6	66	ese.			5		10					raining	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.80	756.9	29.96	761.0	62.2	16.8	88	s.			1		10					showery	The Staff.
Guernsey	29.69	754.1	29.99	761.7	57.5	14.2	84	s.			1		10			blank	blank	overcast	A. Collenette, F. M. S.
Kew, Observatory	29.94	760.5	29.98	761.5	63.0	17.2	61	w.	10	4.5			9					threatening.	The Staff.
Leicester, Museum	29.71	754.6	29.96	761.0	67.3	19.6	52	s.			1		5					d. clouds	J. C. Smith.
Malta, Mediterranean	29.98	761.5	30.05	763.3	77.6	25.3	80	e.			2		0					blue sky	I. H. Whysall.
Nassau, Bahamas	30.17	766.3	30.22	767.6	86.2	30.1	72	se.			1		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.46	748.3	29.97	761.2	64.2	17.9	59	e.			2		5					d. clouds.	Warren Middleton.
Oxford, Radcliffe Obs'y	29.75	755.6	29.98	761.5	60.4	15.8	67	se.			3		10					showery	The Staff.
Plymouth	29.85	758.2	29.93	760.2	63.0	17.2	71	sse.			3		7					d. clouds	John Merrifield.
Sandwick Manse, Orkneys			30.01	762.2	56.9	13.8	87	nw.	14	6.3			10					foggy	Rev. C. Clouston, L. L. D
Scutari Cemetery, Turkey	29.96	761.0	30.02	762.5	76.0	24.4	46	ne.			1		1					blue sky	W. H. Lyne.
Sheffield	29.71	754.6	29.98	761.5	66.1	18.9	68	e.			1		1			0.01	0.3	blue sky	W. F. Cooper.
Silloth Rectory	29.94	760.5	29.97	761.2	64.7	18.2	65	e.			1		10			0.035	0.9	threatening.	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.99	761.7	63.9	17.7	52	s.	6	2.7			10					overcast	J. New.
Stratfield Turgiss	29.75	755.6	29.96	761.0	67.2	19.6	56	sw.			1		5					d. clouds	Rev. C. H. Griffiths, F. M. S
Truro, Royal Institution	29.93	760.2	29.95	760.7	67	19.4	64	s.			4		5					d. clouds	W. Newcombe.
Valencia, Observatory	29.92	760.0	29.95	760.7	57.9	14.4	78	nw.	15	6.7			4					d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.37	746.0	29.41	747.0	65	18.3	84	w.	3	1.3		0	3 s		w.	0.107	2.7	fair	H. J. Cundall, C. E.
Chatham, N. B*	29.30	745.7	29.42	747.3	64	17.8	84	sw.	7	3.1			10 ks		sw.	0.76	19.3	cloudy	G. A. Blair.
Father Point, Quebec*	29.47	748.5	29.49	749.0	56	13.3	90	w.	25	11.2		0	2 k		w.	0.04	1.0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.17	740.9	29.98	761.5	55	12.8	86	sw.	7	3.1		0	0			0	0	clear	
Halifax, N. S*	29.37	746.0	29.49	749.0	61	16.1	93	w.	1	0.4		0	0			0.135	3.4	clear	A. Allison.
Kingston, Ontario*	29.46	748.3	29.78	756.4	68	20.0	70	nw.	5	2.2		2 c	5 k	w.	w.	0	0	fair	A. P. Knight, M. A.
Montreal, Quebec*	29.53	750.0	29.73	755.1	70	21.1	59	nw.	2	0.9		2 ck	0	w.		0	0	fair	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.17	740.9	29.85	758.2	61	16.1	84	w.	8	3.6		2 k	0	w.		0	0	fair	Rev. R. Mosley.
Port Dover, Ontario	29.19	741.4	29.85	758.2	69	20.6	65	n.	5	2.2		5 ck	0	nw.		0	0	fair	H. Morgan.
Port Stanley, Ontario	29.25	742.9	29.87	758.7	70	21.1	81	w.	5	2.2		5 ck	0	w.		0	0	cloudy	M. Payne.
Quebec, Quebec*	29.36	745.7	29.67	753.0	64	17.8	81	w.			3	0	2 s		n.	0.32	8.1	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.31	744.5	29.76	755.9	59	15.0	84	w.	5	2.2		5 ck	0	sw.		0	0	fair	W. H. McIntyre.
Saugeen, Ontario*	29.19	741.2	29.89	759.2	61	16.1	81	w.	7	3.1			10 ks			0	0	cloudy	
St. Andrews, N. B	29.49	749.0	29.54	750.3	68	20.0	69	nw.	5	2.2		0	0			0.90	22.9	clear	
Sydney, C. B*	29.37	746.0	29.43	747.5	59	15.0	87	sw.	9	4.0			10 n		sw.	0.12	3.0	cloudy	T. C. Hill, C. E
Toronto, Ontario*	29.49	749.0	29.78	758.2	68	20.0	76	n.	4	1.8			10 ks		w.	0	0	cloudy	Magnetic Observatory.
Yarmouth, N. S*	29.52	749.8	29.58	751.3	59	15.0	78	nw.	2	0.9		2 ck	0	w.		0.47	11.9	fair	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.51	724.1	29.94	760.5	62.0	16.7	77	nw.				5 k	0	nw.		0	0	fair	Wm. Wylie.
St. Johns, Newfoundland	29.937	760.27	30.187	766.67	55	12.8	94	se.	1	0.4		5 k	5 s			0	0	hazy	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.47	773.9	30.50	774.7	64.0	17.8	67	ene.	18.0	8.0		0	1 s			0	0	clear	John Duthie.
Cape Town, C. G. H. Obs'y	30.14	765.5	30.18	766.6	64.9	18.3	48	s.	14	6.3		0	0			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
CHINESE (*Sub-series*).																			
Hankow	29.80	756.9	30.07	763.8	77.7	25.4	91	se.			2		10			0	0	overcast	N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.94	760.5	29.97	761.2	75.2	24.0	93	sse.	3.8	1.7			10			0	0	covered	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	30.15	765.7	30.19	766.9	70.2	21.2	55	se.	19.0	8.5			0						Oversergent Fischer.
Fanöe	30.05	763.2	30.07	763.7	73.4	23.0	55	se.			6		5						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	30.04	763.0	30.08	764.1	50.7	10.4	93	se.			2		5					raining	A. O. Thorlacius.
Thorshavn	30.06	763.6	30.10	764.5	50.4	10.2	99	calm	0	0			10					rain & fog	Overloerer Bergh.
Vestervig	30.02	762.4	30.11	764.7	72.1	22.3	54	e.			6		3						Loerer Oesterbol.
FRENCH.																			
Agen, Normal School	29.49	749.1	30.14	765.5	66.9	19.4	82	calm			0		kn		n.	0	0		M. Labroue, Director.
Alençon, Normal School	29.51	749.5	30.06	763.5	65.5	18.6	72	sw.			2		10 n	n.	n.	0.024	0.6	raining	M. Nicot, Director.
Arras, Engineer School	29.69	754.1	29.94	760.4	69.4	20.8	46	nnw.			4		kn		nw.	0.122	3.1		M. Fénéon, Command't.
Avignon, Normal School	29.92	760.0	30.00	762.0	88.2	31.2	35	ne.			2		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.50	749.4	30.05	763.3	64.9	18.3	76	s.			1		10			0.197	5.0	covered	M. Saillard, Director.
Beauvais, Normal School	29.74	755.5	30.00	762.0	71.4	21.9	46	ssw.			2		8		s.	0.043	1.1	very cloudy.	M. Frère Eugène Marié.
Besançon, Normal School	29.07	738.4	30.04	763.1	65.5	18.6	94	ssw.			1		10 n		sw.	0.283	7.2	raining.	M. Gobin, Director.
Bordeaux, Observatory	29.87	758.8	30.13	765.3	69.4	20.8	49	w.			1		10			0	0	covered	M. Rayet, Director.
Bourges, Normal School	29.48	748.8	30.06	763.6	63.3	17.4	65	wsw.			1	ck	0	wsw.		0	0		M. Postel, Director.
Brest, Naval Observatory	29.75	755.6	29.99	761.8	64.8	18.2	74	w.			3		6		w.	0.669	17.0		M. de Kermaree, Dir.
Caen, Normal School	29.93	760.3	30.01	762.2	68.7	20.4	53	ssw.			2		5		ssw.	0.055	1.4	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.69	754.1	30.00	762.1	65.7	18.7	73	calm			0		8			0.134	3.4	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.48	748.9	29.99	761.7	63.3	17.4	72	nw.			1		10			0.12	3.	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.75	730.3	30.10	764.5	59.0	15.0	94	n.			1		10		sw.	0.402	10.2	covered	M. Allnard, Director.
Cluny, Normal School	29.45	748.0	30.04	763.1	61.5	16.4	94	ne.			1		8			0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.20	741.7	30.04	763.0	59.9	15.5	92	wnw.			1		10 kn	wnw.	wnw.	0.583	14.8	raining	Dr. Coulet, Director.
Gap, Normal School	27.61	701.2	30.01	762.2	83.5	28.6	16	sw.			4	0	3 k		w.	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.95	735.2	30.00	762.1	86.0	30	26	sw.			2		2		s.	0	0		M. Kina, Director.
Grenoble, Normal School	29.22	742.3	29.96	760.9	77.0	25	63	wnw.			1	ck	c			0	0		M. Ablard, Director.
Guéret, Normal School	28.50	724.0	30.04	763.1	60.8	16	75	sw.			1		2		ne.	0	0	slightly cl'dy	M. Rivoire, Director.
Lamballe, Normal School	29.78	756.4	30.06	763.4	59.9	15.5	74	s.			2		10		s.	0.571	14.5	thund'r st'm	M. Olhitrault, Director.
Lescar, Normal School	29.58	551.2	30.14	765.5	61.5	16.4	87	nw.			1		5			0.012	0.3	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.94	760.4	30.04	763.0	63.5	17.5	70	wsw.			2		8		w.	0.039	1.0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.00	736.6	30.03	762.8	68.0	20.0	79	n.			1		10		sw.	0.008	0.2	prinkling	M. André, Director.
Mans, Normal School	29.75	755.6	30.05	763.3	63.5	17.5	90	w.			3		8		sw.	0.094	2.4	very cloudy.	M. Piboen, Director.
Marseille, Observatory	29.78	756.4	30.04	763.0	78.4	25.8	55	w.			1		5		wsw.	0	0		M. Stephan, Director.
Montlouis	24.97	634.3	29.82	757.3	68.5	20.3	36	s.	13.0	5.8			5		w.	0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.87	758.7	30.00	761.9	82.0	27.8	57	sw.			3		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.25	742.9	30.02	762.5	59.7	15.4	96	wnw.			1		n		ssw.	0.205	5.2		M. Hasse, Director
Nantes, Observatory	29.92	759.9	30.08	764.0	59.4	15.2	84	wsw.			1–2		10k: n		wsw.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.93	760.1	30.03	762.7	79.7	26.5	40	se.	7.4	3.3			9		w.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit.	21.37	542.7			42.8	6.0		sw.			2–3		1		sw.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	28.98	736.2	29.99	761.8	82.8	28.2	39	ne.			1	0	5 k			0.16	4.	cloudy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.24	641.2			46.2	7.9	100	wnw.			2		10			0.795	20.2	foggy	M. Allnard, Director.
Rochefort, Naval Obs'y	30.08	764.0	30.11	764.8	68.0	20.0	100	sw.			3		2		wsw.	0	0	¼ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.87	758.8	30.09	764.2	57.9	14.4	86	sw.			4		10			0.008	0.2	covered	M. Mouillot, Director.
Rodez, Normal School	28.04	712.1	30.13	765.3	68.4	20.2	61	w.			1		kn		ne.	0	0		M. Seger, Director.
Rouen, Normal School	29.99	761.7	30.04	762.9	68.0	20	76	sw.			1		10	w.		0	0	covered	M. Brotier.
Saint Maur, Observatory	29.85	758.3	30.02	762.5	69.1	20.6	44	sw.			2		10		sw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.44	747.7	30.17	766.2	74.1	23.4	55	nne.			1		2	nw.		0	0	slightly cl'dy	M. Baillaud, Director.
Tours	29.87	758.8	30.05	763.3	65.5	18.6	69	sw.			1		8	sw.	sw.	0	0	very cloudy	M. de Tastes.
Versailles, Observatory	29.53	750.0	30.02	762.5	68.0	20.0	45	sw.			1					0.051	1.3		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.74	755.4	30.03	762.8	71.4	21.9	39	sw.			2		8	sw.		0	0		M. Marié Davy, Director
GERMAN.																			
Bamberg	29.16	740.7	30.02	762.4	77.0	25.0	40	e.			2	0	4 s			0	0		Prof. Dr. Hoh.
Berlin	30.03	762.8	30.21	767.2	78.4	25.8	35	se.			2		8			0	0		Prof. Dr. Arndt.
Breslau	29.65	753.0	30.18	766.6	76.8	24.9	34	ese.			2		3			0	0		Royal University Obs'y.
Carlsruhe	29.50	749.2	29.91	759.8	77.2	25.1	58	e.			1		10	sw.		1.228	31.2		Albert Senz.
Cassel	29.27	743.4	29.98	761.6	79.5	26.4	46	sw.			2		8	sw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.60	751.9	29.95	760.8	74.1	23.4	60	n.			1		8			0.012	0.3		Physical Society.
Friedrichshafen	28.54	724.9	29.90	759.5	77.0	25.0	62	sw.			4		5	w.		0.783	19.9		Wilhelm, Chief Tel.
Hamburg	29.97	761.1	30.06	763.5	76.8	24.9	31	ese.			4		3	w.		0	0		E. Preller.
Kiel	30.05	763.3	30.07	763.7	75.2	24.0	40	sse.			4		6			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.65	753.2	30.06	763.4	77.2	25.1	34	ese.			5		3			0	0		H. Leppig, Asst.
Magdeburg	29.85	758.3	30.02	762.6	80.8	27.1	30	se.			3	2 c	0	nw.		0	0		Dr. Assmann.
Memel	30.18	766.0	30.23	767.8	75.9	24.4	47	nw.			3	0	6 ks						Issermann.
Munich	28.20	716.3	30.06	763.6	73.6	23.1	36	e.			1		4			0	0		Central Station.
Neufahrwasser	30.20	767.1	30.22	767.5	68.7	20.4	63	ne.			1		0			0	0		A. Lothes.
Neustadt, Palatinate	29.41	747.0	29.54	760.4	76.3	24.6	65	ne.			1		7			0.138	3.5		Dicknether.
Stuttgart	29.00	736.7	29.84	757.9	80.2	26.8	32	se.			1		7	w.		0.835	21.2		Prof. Dr. Schoder.
Wustrow	30.13	765.4	30.16	766.1	80.6	27.0	76	ese.			4	0	8 k			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.64	752.9			82.8	28.2		ne.			2.0		2			inap.	inap.	clear	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.66	753.5	29.71	754.7	87.4	30.8	75	wsw.	25.0	11.2			6		sw.	0	0	d. clouds	
Deesa	29.17	740.8	29.62	752.4	97.4	36.3	36	sw.	15.2	6.8			1		sw.	0	0	d. clouds	
Bombay	29.75	755.7	29.79	756.7	82.3	27.9	83	w.	16.0	7.2			10		wsw.	0.58	14.7	overcast	
Poona, Yarrowda	27.95	710.0	29.81	757.3	76.2	24.6	73	w.	17.0	7.6			10		w.	0.02	0.5	overcast	
Trichinopoly	29.51	749.4	29.78	756.4	93.4	34.1	42	nw.	1.0	0.4			5			0	0	d. cloud s	
Bellary	28.27	718.0	29.72	754.8	85.0	29.4	53	sw.	11.4	5.1			4			0	0	d. clouds	
Belgaum	27.30	693.4	29.86	758.4	71.7	22.1	83	wsw.	9.0	4.0			9	se.	sw.	0.06	1.5	showery	
Lahore	28.77	730.7	29.47	748.4	105.3	40.7	31	w.	1.9	0.8			2			0	0	misty	
Roorkee	28.61	726.6	29.46	748.3	100.3	37.9	37	nw.	1.1	0.5			4			0	0		
Agra	28.97	735.9	29.51	749.6	100.1	37.8	37	e.	2.2	1.0			3		e.	0.09	2.3	d. clouds	
Nagpur	28.59	726.1	29.59	751.6	96.7	35.9	32	sw.	4.6	2.1			9		w.	0	0	d. clouds	
Jubbulpore	28.29	718.4	29.60	751.7	94.2	34.6	42	wnw.	4.2	1.9			3			0	0	d. clouds	
Lucknow	29.20	741.8	29.56	750.9	97.0	36.1	47	calm	4.2	1.9			0			0	0	blue sky	
Allahabad	29.23	742.5	29.53	750.1	96.7	35.9	46	calm	2.4	1.1			5			0	0	d. clouds	
Patna	29.44	747.9	29.63	752.5	85.0	29.4	86	ese.	5.6	2.5			5	ese.	ese.	1.07	27.2	d. clouds	
Hazaribagh	27.04	702.2	29.64	753.0	77.3	25.2	84	nnw.	6.3	2.8			10	n.	s.	1.00	25.4	thund'r st'm	
Cuttack	29.61	752.0	29.69	754.1	84.7	29.3	70	s.	1.0	0.4			8			0.10	2.5	d. clouds	
Calcutta, Alipore	29.63	752.7	29.66	753.2	78.8	26.0	94	ssw.	3.0	1.3			10		w.	0.69	17.5	overcast	
Dhubri	29.52	749.7	29.63	752.6	83.3	28.5	80	sw.	2.8	1.2			1			0	0	d. cloudy	
Chittagong	29.62	752.4	29.71	754.7	80.7	27.1	81	calm	6.1	2.7			7			0	0	d. clouds	
Sibsagar	29.35	745.6	29.68	754.0	85.2	29.6	79	ne.	1.9	0.8			10	w.	w.	0.05	1.3	d. clouds	
Jeypore	28.20	716.1	29.61	752.0	87.4	30.8	55	nw.	7.5	3.4			9		nw.	0.13	3.3	drizzling	
Zanzibar, Africa	30.06	763.5			83.2	28.4	59	s.	9.0	4.0			4		sse.	0	0	d. clouds	
ITALIAN.																			
Udine	29.71	754.6	30.10	764.6	79.0	26.1	56	s.	3.1	1.4			3			0	0		Prof. Giovanni Cloelig.
Milan	29.56	750.7	30.05	763.3	80.2	26.8	54	ene.	5.6	2.5			5			0.047	1.2		Prof. Schiaparelli.
Padua	29.96	761.0	30.07	763.7	79.5	26.4	40	ese.	8.7	3.9			4	w.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.09	738.9	29.96	761.0	79.9	26.6	53	sse.	4.9	2.2			6	6.		0	0		Prof. P. F. Denza.
Genoa	29.88	758.9	30.06	763.6	77.7	25.4	48	sw.	2.5	1.1			2			0.157	4.0		Prof. G. M. Garibaldi.
Mondovi	28.16	715.2	29.99	761.8	76.3	24.7	62	wnw.			4		3			0.272	6.9		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	30.00	761.9	30.04	763.1	76.3	24.6	57	se.	9.8	4.4			10			0	0		Prof. Luigi Guidi.
Florence	29.79	756.7	30.04	763.0	82.4	28.0	43	ne			2		8			0	0		Prof. Costantino Pitter
Leghorn	29.86	758.5	29.95	760.6	80.2	26.8	64	ssw.	1.3	0.6			3			0	0		Prof. P. Monte.
Rome	29.87	758.8	30.04	763.1	86.7	30.4	35	sw.	9.4	4.2			0			0	0		Prof. P. S. Ferrari.
Lecce	29.82	757.5	30.07	763.7	76.0	24.8	34	n.	11.9	5.3			2			0	0		Prof. C. de Giorgi.
Cosenza	29.17	741.0	30.03	762.7	83.8	28.8	72	ssw.	2.5	1.1			0			0	0		Prof. D. Conti.
Cagliari	29.82	757.5	30.01	762.3	78.8	26.0	63	se.			6		0			0	0		Prof. A. Pacinotti.
Palermo	29.82	757.5	30.07	763.7	78.6	25.9	60	ne.	7.4	3.3			0			0	0		Prof. G. Cacciatore.
Syracuse	30.02	762.4	30.06	763.5	78.6	25.9	58	e.	3.8	1.7			3	s.		0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.52	749.8	30.02	762.4	84.2	29.0	43	e.	1.3	0.6			1			0.173	4.4		Prof. T. Brioschi.
Stelvio	22.35	567.7			53.2	11.8	55	w.			4		6			0.322	8.2	misty	Prof. P. F. Denza.
Valdobbia	22.39	568.7			51.4	10.8	73	ne.			6		10			0.197	5.0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.81	757.2	29.85	758.2	61.2	16.2	92	e.	0.8	0.4			10 s			0.245	6.2	overcast	K. Ogawa.
Hakodate	29.81	757.2	29.82	757.4	57.5	14.2	97	ese.	1.8	0.8			10		n.	0.140	3.6	covered	
Hiroshima, I. M. Obs'y	29.86	758.4	29.88	758.9	74.0	23.3	71	nne.	6.0	2.7		ck	10 s		w.	0	0	very cloudy	I. Sogawa.
Kanazawa	29.79	756.6	29.89	759.2	70.2	21.2	87	wsw.	8.0	3.6		ck	10 s			0	0	cloudy	S. Eudo.
Kioto	29.73	755.1	29.90	759.4	72.1	22.3	83	w.	1.7	0.8		10 ck;cs	0	w.		0	0	fair	M. Tojima.
Kochi	29.92	759.9	29.94	760.5	73.7	23.2	87	s.	6.0	2.7			10 s		w.	0	0	overcast	K. Kusunose.
Nagasaki, I. M. Obs'y	29.76	755.9	29.96	761.0	71.0	21.7	92	ssw.	0.6	0.3		40s;ck	6 s			0	0	overcast	S. Takehayashi.
Nemuro	29.83	757.7	29.89	759.2	47.0	8.3	93	se.	9.0	4.0		10	0	nnw.		1.930	49.0	cloudy	
Niigata	29.83	757.7	29.87	758.7	67.3	19.6	90		0.5	0.2		6cs;ck	3 s	wsw.	wsw.	0.070	1.8	cloudy	M. Morita.
Nobiru	29.84	757.9	29.86	758.4	66.1	18.9	94	sw.	4.3	1.9		ck	10 s			0.020	0.5	covered	H. Midzushima.
Supporo					55.8	13.2	96	calm	0	0			10			0.080	2.0	covered	
Tokei Obs'y, Yeddo	29.81	757.2	29.88	758.9	70.6	21.4	91	sw.	1.8	0.8			10 s		s.	0.025	0.6	cloudy	The Staff.
Wakayama	29.85	758.2	29.90	759.4	74.1	23.4	84	sw.	4.1	1.8		10 ck	0	w.		0	0	cloudy	Y. Kuwamura.
MAURITIUS																			
Mauritius Observatory	29.91	759.7	30.10	764.5	74.0	23.3	72	sw.	8.0	3.6		2ck;cs	2 k;n	wsw.		0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.72	602.4	29.94	760.4	59.0	15.0	95	calm	0	0			10 kn			2.800	71.1	cloudy	Prof. Vicente Fernandez.
Leon	24.38	619.2	30.05	763.3	59.0	15.0	90	n.			1	10 c	0	sw.		0.063	1.6	covered	Prof. M. Leal.
Mazatlan	29.67	753.6	29.93	760.2	77.0	25.0	88	ssw.	11.0	4.9			10 n		n.	inap.	inap.	covered	F. Quijano, C. E.
Mexico, Central Obs'y	23.15	587.9	30.17	766.3	56.1	13.4	83	calm	0	0		4 c	3 k			0.099	2.5	cloudy	The Staff.
Morelia	24.27	616.5	30.35	770.8	61.2	16.2	51	ne.			1	0	6		e.	0	0	cloudy	M. Tena, M. D.
Pabellon, Aguascalientes	23.97	608.9	29.95	760.7	60.3	15.7	95	calm			0	2 c	7 kn	ese.	ese.	0.310	7.8	cloudy	M. V. de Leon, M. E
Puebla, Catholic Institute	23.46	595.5	30.15	765.9	55.4	13.0	84	calm	0	0		0	0			0	0	fine	Prof. P. Spina.
San Luis Potosi	24.25	616.0	30.16	766.0	59.2	15.1	75	e.					10		e.	0	0	covered	G. Barroeta, M. D.
Zacatecas	22.60	574.0	30.19	766.8	59.7	15.4	95	e.	5.1	2.3		5 cs	0	se.		0.058	1.5	½ clouded	J. A. Bonilla, M. E
NETHERLANDS.																			
Flushing	30.02	762.4	30.02	762.4	67.5	19.7		se.			4					0.016	0.4		
Groningen	29.97	761.3	30.03	762.7	63.1	17.3		n.			1					0.472	12.0		
Helder	30.02	762.5	30.02	762.5	59.9	15.5		ne.			1					1.945	49.4		
Hellevoetsluis	30.02	762.6	30.02	762.6	69.8	21.0	69	calm			0					0.008	0.2		
Utrecht	30.02	762.4	30.06	763.6	59.2	15.1	87	w.			1		10			0.520	13.2	dull	H. van der Brink.
NORWEGIAN.																			
Bergen	30.08	763.9	30.14	765.5	77.7	25.4	40	n.	4	2			3			0	0		
Brono	30.16	766.1	30.20	767.1	75.6	24.2	42	ne.	4	2			0			0	0		
Christiania	30.04	762.9	30.17	766.4	80.4	26.9	39	sw.	4	2			4			0	0		
Gjesvær	30.26	768.6	30.28	769.2	46.8	8.2		w.			4		10					foggy	
Lodingen	30.22	767.6	30.27	768.8	72.1	22.3	39	e.			2-4		0			0	0		
PORTUGUESE.																			
Angra, Azores					70.5	21.4	92	sw.	6.3	2.8			6			0	0		
Campo Major	29.10	739.1	30.06	763.6	78.1	25.6	26	n.	6.3	2.8			0			0	0		Dr. J. A. Sampaio.
Funchal, Maderia	30.16	766.0	30.24	768.2	69.4	20.8	67	sw	4.9	2.4			10			0	0		Dr. A. M. R. dos Santos.
Lisbon, Observatory	29.82	757.3	30.17	766.3	70.3	21.3	39	nnw.	24.2	10.8			0			0	0		Capt. D. A. de Cunha.
Ponta Delgada, Azores	30.16	766.1	30.23	767.9	77.0	25.0	68	calm	0	0			4			0	0		The Staff.
Saint Paul de Loanda	29.83	757.7	30.03	762.8	73.0	22.8	80	w.	0.7	0.3			0			0	0		
Serra da Estrella	25.45	646.3	30.07	763.8	60.8	16.0	17	ene.	5.6	2.5			0			0	0		
RUSSIAN.																			
Akmollinski	28.59	726.2	29.63	752.5	66.7	19.3	38	w.	9	4		0	5 k			0	0		
Archangel	30.10	764.6	30.12	765.1	52.3	11.3	56	nw.	13	6			9 k			0	0		Major K. Lasarew.
Astrakhan	30.13	765.2	30.04	763.1	81.5	27.5	35	sse.	2	1		0	0			0	0		Capt. Sseliwerstow.
Barnaul	29.17	740.8	29.65	753.2	56.7	13.7	73	wsw.	9	4			10			0.154	3.9		Capt. Wisganow.
Dorpat	29.95	760.6	30.17	766.4	82.8	28.2	34	ne.	7	3		8 ck	0			0	0		Meteorological Obs'y.
Ekaterinburg	28.66	727.9	29.59	751.6	60.8	16.0	44	w.	13	6			9			0.051	1.3		Observatory.
Irkutsk	27.99	711.0	29.54	750.2	75.2	24.0		se.					9			0	0		Meteorological Obs'y.
Kasan	29.56	750.8	29.82	757.4	68.4	20.2	54	w.	2	1			10			0.020	0.5		Observatory.
Kertch	29.88	759.0	29.90	759.5	72.1	22.3	66	s.	22	10		0	3 k			0	0		Lagorio & Sastyrez.
Kieff	29.34	745.2	29.96	761.0	61.5	16.4	78	nnw.	9	4			10ks;n			0.177	4.5		Observatory.
Lugan	29.72	754.9	29.92	759.9	74.3	23.5	62	ese.	13	6			8			0.020	0.5		Meteorological Obs'y
Moscow	29.51	749.6	29.96	760.9	77.2	25.1	41	e.	7.8	3.5			3 ks						Meteorological Obs'y.
Nikolaiev	29.82	757.5	29.89	759.3	55.0	12.8	89	n.	4	2			9 n			0.232	5.9		Capt. Kurdakow.
Nikolaievsk, on the Amoor.	29.81	757.2	29.90	759.4	51.6	10.9	93	e.	4	2			10			0.047	1.2	raining	Lieut. Iwanow.
Pekin, China	29.72	754.8	29.86	758.4	79.5	26.4	41	s.	4	2		0	4 k			0	0		Physical Observatory
St. Petersburg	30.11	764.8	30.13	765.2	81.0	27.2	29	ne.	9	4		0	1 k			0	0		Central Physical Obs'y
Semipalatinsk	29.12	739.6	29.76	755.8	63.3	17.4	49	nnw.	2	1		0	5 k			0	0		Major Lasarew.
Tashkend, Laboratory	28.30	718.8	29.77	756.1	85.3	29.6	37	n.	13	6			10			blank	blank		Teich, A. M.
Tiflis	28.56	725.3	29.88	759.0	90.1	32.3	44	s.	2	1		0	1 k			inap.	inap.		Physical Observatory
Vladivostock	29.82	757.4			56.8	13.8	93	se.	7.8	3.5		0	0						
Warsaw	29.71	754.6	30.11	764.9	75.0	23.9	39	e.	9	4			10 ks						Astronomical Obs'y
Wilna	29.73	755.2	30.13	765.4	76.3	24.6	43	nne.	7	3			3			0	0		Berg, Assistant.
SPANISH.																			
Barcelona, Met. Obs'y	29.95	760.8	30.06	763.4	74.8	23.8	67	se.	2.2	1.0			0			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.14	765.6	30.20	767.1	73.4	23.0	50	nw.	0.9	0.4		2	2	w.		0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.19	690.6	30.07	763.8	69.4	20.8	35	ne.	6.0	2.7			0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.87	707.9	30.00	762.0	79.2	26.2	31	nw.	2.7	1.2		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.88	758.9	30.01	762.3	85.3	29.6	63	e.	3.1	1.4		0	0			0	0	clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.27	743.5	30.16	766.0	66.7	19.3	68	calm	0	0			9			0	0	almost cov.	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	30.05	763.2	30.11	764.8	79.9	26.6	79	e.	4.0	1.8		2 c;ck	0	ne.		0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.76	755.9	29.82	757.3	82.7	28.2	73	e.	0	0			9 ck		n.	0	0	threatening	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.98	761.5	30.08	764.0	75.2	24.0	60	wnw.	7.0	3.1		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.04	762.9	30.13	765.2	83.8	28.8	73	e.	11.6	5.2		1 s	2 k	e.	e.	0	0	clear	Manuel Maese.
Tuguegarao, Philippine Id's	29.73	755.1	29.86	758.4	82.1	27.8	81	s.	0	0		4 cs	2 ks	e.	e.	inap.	inap.	cloudy	José L. Yrastorza.
SWEDISH.																			
Haparanda	30.18	766.6	30.22	767.6	79.2	26.2	38	n.			2		0			0	0		
Umea	30.24	768.1	30.29	769.4	81.0	27.2	32	sw.			2		2			0	0		
Hernosand	30.24	768.0	30.29	769.3	71.6	22.0	47	s.			2		0			0	0		
Stockholm	30.13	765.1	30.30	769.6	77.7	25.4	35	se.			2		0			0	0		
Wisby	29.94?	760.5?	30.00?	762.0?	69.4	20.8	54	ene.			2		0			0	0		
Sub-series.																			
Upsala	30.17	766.4	30.26	768.6	78.8	26.0	35	sw.	8.5	3.8			1		se.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.61	726.6	29.9[illegible]	761.3	75.7	24.3	83	ssw.			3					0.465	11.8	covered	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
SCOTTISH.																			
Monach Lt			30.06	763.5	61	16.1	94	n.			2	0	0			0	0		J. Youngclause.
North Unst			30.09	764.3				se.			4	5	6	s.					
TURKISH.																			
Constantinople			30.06	763.5	70.5	21.4	50	n.	6	2.5					n.	0	0		The Observatory.
Valona			30.17	766.2	80.2	26.8		sw.			2					0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.86	758.5	80.1	26.7	67	w.			1	0	0			0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.73	755.1	29.81	757.2	76	24.4	52	w.	5	2.2		1 cs	0	nw.		0	0	clear	J. O. Barnes.
Alpena, Michigan	29.28	743.7	29.93	760.2	65	18.3	63	w.	10	4.5		0	0			0	0	clear	Jas. J. Fitzgerald.
Atlanta, Georgia	28.97	735.8	30.12	765.0	80.0	26.7	69	w.	9	4.0		0	0			0	0	clear	H. Hall.
Atlantic City, New Jersey	29.82	757.4	29.83	757.7	80	26.7	74	n.	7	3.1		4 ck	3 k			0.02	0.5	fair	Jas. M. Watson.
Augusta, Georgia	29.93	760.2	30.12	765.0	81	27.2	74	s.	2	0.9		2 ck	0	nw.		0	0	clear	John Healy.
Baltimore, Maryland	29.86	758.4	29.91	759.7	81	27.2	67	nw.	6	2.7			10 s;sk		w.	0	0	cloudy	Robert Seybolh.
Barnegat, New Jersey	29.82	757.4	29.84	757.9	77.5	25.3	81	nw.	7	3.1		3 ck	4 k	nw.	w.	0.22	5.6	fair	Chas. F. Merritt.
Behring Island, Behring Sea	29.92	760.0	29.94	760.5	43.0	6.1		e.	4	1.8			fg.			0	0	dense fog	Dr. L. Steineger.
Bismarck, Dakota	28.27	718.0	30.02	762.5	60	15.6	78	ne.	3	1.3		5 ck	0	sw.		inap.	inap.	fair	Cyrus Cramer.
Boise City, Idaho	27.13	689.1	29.91	759.7	56	13.3	64	sw.	3	1.3		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.60	751.8	29.75	755.6	75.0	23.3	64	w.	4	1.8		10 c	hz.	w.		0	0	cloudy	O. B. Cole.
Brownsville, Texas	29.95	760.7	29.99	761.7	77.7	25.4	90	e.	2	0.9		0	1 ks		calm	0	0	clear	M. McCarty.
Buffalo, New York	29.13	739.9	29.87	758.7	71.3	21.8	51	calm	0	0			10 ks		w.	0	0	cloudy	Wm. Flinn.
Burlington, Vermont	29.47	748.5	29.76	755.9	69.5	20.8	60	n.	3	1.3		0	0			inap.	inap.	clear	G. C. Schaeffer.
Cairo, Illinois	29.70	754.4	30.09	764.3	84.9	29.4	75	sw.	1	0.4		0	0			0	0	clear	W. H. Ray.
Campo, California	27.39	695.7	29.87	758.7	37.5	3.1	82	se.	3	1.3		0	0			0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.19	690.6	29.82	757.4	66	18.9	51	se.			1	1 cs	1 k			0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	29.87	758.7	29.89	759.2	80	26.7	79	n.	8	3.6		3 c;ck	5 s			0.16	4.1	cloudy	A. K. Alderson.
Cape May, New Jersey	29.82	757.4	29.85	758.2	73	22.8	82	w.	12	5.4			10 ks		w.	0	0	cloudy	W. Bolton.
Cedar Keys, Florida	30.15	765.8	30.17	766.3	82	27.8	79	e.	6	2.7		0	4 k		s.	0	0	fair	F. W. Mixer.
Champaign, Illinois	29.22	742.2	30.01	762.2	68.5	20.3	89	n.	4	1.8			10 n		n.	0.18	4.6	light rain	L. A. Welsh.
Charleston, S. Carolina	30.05	763.3	30.10	764.5	85	29.4	74	sw.	9	4.0		5 ck	0	nw.		0	0	fair	J. H. Smith.
Charlotte, N. Carolina	29.18	741.2	30.01	762.2	83.0	28.3	63	sw.	2	0.9		0	hz			0.05	1.3	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.31	744.5	30.12	765.0	78.0	25.6	82	w.	5	2.2		5 ck	0	w.		0	0	fair	B. L. Goulding.
Cheyenne, Wyoming	24.15	613.4	29.89	759.2	57.4	14.1	83	s.	12	5.4			10 s		s.	0.01	0.3	cloudy	E. McGovern.
Chicago, Illinois	29.32	744.7	30.01	762.2	69.0	20.6	78	nw.	4	1.8		10 k	0	w.		0.31	7.9	cloudy	J. Mitchell.
Chincoteague, Virginia	29.86	758.4	29.88	758.9	81	27.2	74	nw.	10	4.5		8 cs	0			0	0	cloudy	V. P. Temple.
Cincinnati, Ohio	29.40	746.7	30.05	763.3	75.5	24.2	84	nw.	4	1.8			10 n		w.	0.43	10.9	light rain	R. B. Watkins.
Cleveland, Ohio	29.22	742.2	29.95	760.7	71.5	21.9	83	w.	13	5.8		6 cs	0	nw.		0.13	3.3	fair	J. B. Newlin.
Coleman City, Texas	28.22	716.8	29.97	761.2	75	23.9	76	se.	5	2.2		0	0			0	0	clear	L. Dorman.
Columbus, Ohio	29.14	740.1	29.98	761.5	72	22.2	84	w.	5	2.2		6 k	0	w.		2.26	57.4	fair	D. Cuthbertson.
Concho, Texas	28.09	713.5	29.96	761.0	75	23.9	82	calm	0	0		0	0			0	0	clear	W. W. McConlhe.
Davenport, Iowa	29.40	746.7	30.04	763.0	70	21.1	84	ne.	5	2.2		4 k	4 ks	w.	w.	0.54	13.7	cloudy	R. R. Martin.
Dayton, Washington T'y	28.22	716.8	29.96	761.0	57.3	14.1	92	sw.	1	0.4		0	4 s		sw.	0	0	fair	H. Clifford.
Deadwood, Dakota	25.46	646.7	29.89	759.2	52	11.1	80	n.	1	0.4		10 k	0	w.		0.40	10.2	cloudy	G. W. Scott.
Decatur, Texas					78	25.6	51	se.	10	4.5		0	0			0	0	clear	D. J. Carr.
Delaware Breakwater, Del	29.85	758.2	29.87	758.7	76	24.4	76	nw.	12	5.4		9 ck;c	0	w.		0	0	cloudy	F. C. Pratz.
Denison, Texas	29.24	742.7	30.02	762.5	76.0	24.4	82	s.	8	3.6		0	0			0	0	clear	J. McGlone.
Denver, Colorado	24.81	630.2	29.85	758.2	70.0	21.1	59	se.	4	1.8		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.16	740.7	30.04	763.0	65	18.3	84	ne.	7	3.1		0	5 s		e.	0.52	13.2	fair	F. W. Conrad.
Detroit, Michigan	29.25	742.9	29.94	760.5	70.0	21.1	66	nw.	9	4.0		7 cs;ck	1 s	sw.	sw.	0	0	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.37	695.2	29.88	758.9	67	19.4	100	ne.	9	4.0			fg.			0	0	dense fog	E. A. Thomas.
Dubuque, Iowa	29.35	745.5	30.04	763.0	65.8	18.8	81	nw.	2	0.9		0	0			inap.	inap.	clear	J. Harvey Smith.
Duluth, Minnesota	29.36	745.7	30.05	763.3	61	16.1	72	nw.	3	1.3		0	4 s		nw.	0.03	0.8	fair	N. B. Conger.
Eagle Pass, Texas	29.20	741.7	29.99	761.7	78.1	25.6	74	se.	4	1.8		0	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.29	642.4	29.88	758.9	44	6.7	65	n.	4	1.8		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.49	749.0	29.86	750.8	70.0	21.1	59	nw.	17	7.6		1 k	0	nw.		0.54	13.7	clear	D. C. Murphy.
El Paso, Texas	26.24	666.5	29.82	757.4	80	26.7	38	w.	9	4.0		9 k	0	w.		0	0	cloudy	J. F. Marshall.
Erie, Pennsylvania	29.18	741.2	29.90	759.4	72	22.2	90	sw.	10	4.5			10 ks		sw.	0.35	8.9	cloudy	Peter Wood.
Escanaba, Michigan	29.33	745.0	29.98	761.5	65	18.3	63	nw.	8	3.6		0	0			0	0	clear	C. Dill.
Fort Apache, Arizona	25.09	637.3	29.84	757.9	53	11.7	32	ne.	3	1.3		0	0			0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.17	690.1	29.96	761.0	50	10.0	74	w.	4	1.8		0	0			0	0	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.46	722.9	30.00	762.0	64	17.8	90	nw.	1	0.4		3 ck	2 s	calm	calm	0.11	2.8	fair	A. Pritchard.
Fort Benton, Montana	27.20	690.9	29.98	761.5	51	10.6	80	calm	0	0		1 c	0			0	0	clear	G. W. Davis.
Fort Buford, Dakota	28.09	713.5	30.05	763.3	53	11.7	74	ne.	4	1.8		0	0			0	0	clear	A. H. Bell.
Fort Custer, Montana	26.86	682.2	29.92	760.0	54	12.2	93	s.	2	0.9		0	0			0	0	clear	V. Verge.
Fort Davis, Texas	25.16	639.1	29.77	756.1	69	20.6	68	sw.	4	1.8		0	0			0	0	clear	J. Williams.
Fort Elliott, Texas	27.22	691.4	29.89	759.2	71	21.7	68	se.	8	3.6		7 k	0	se.		0	0	fair	W. J. Cundall.
Fort Grant, Arizona	25.25	641.3	29.79	756.7	67.4	19.7	55	ne.	5	2.2		0	3 s		calm	0	0	clear	Robert C. Lord.
Fort Keogh, Montana	27.51	698.7	29.94	760.5	57	13.9	77	se.	4	1.8		0	0			0	0	clear	W. B. Stockman.
Fort Macon, North Carolina	30.00	762.0	30.01	762.2	79	26.1	91	sw.	18	8.0		9 c	hz.	sw.	calm	0	0	cloudy	W. W. Thomas.
Fort McKavett, Texas	27.79	705.9	29.99	761.7	73	22.8	82	s.	12	5.4		0	0			0	0	clear	J. E. Thatcher.
Fort Missoula, Montana	26.73	678.9	29.99	761.7	49	9.4	40	sw.	2	0.9		0	0			0	0	clear	J. H. Jones.
Fort St. Michaels, Alaska	29.79	756.7	29.82	757.4	58	14.4	76	se.	9	4.0			10 s			0.03	0.8	cloudy	A. P. Leavitt.
Fort Shaw, Montana	26.41	670.8	29.98	761.5	50	10.0	80	w.	6	2.7		0	c			0	0	clear	A. L. Mathews.
Fort Sill, Indian Territory	28.77	730.7	29.97	761.2	74.5	23.6	80	s.	8	3.6		2 c	0	sw.		0	0	clear	T. Cleary.
Fort Smith, Arkansas	29.58	751.3	30.04	763.0	79.5	26.4	88	calm	0	0		0	0			0	0	clear	J. B. Campbell.
Fort Stevenson, Dakota	28.22	716.8	30.02	762.5	56	13.3	93	ne.	2	0.9		3 c	0			0	0	clear	W. Burrows
Fort Verde, Arizona					63.1	17.3	36	w.			1	0	0			0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.55	623.6	29.93	760.2	44.2	6.8	93	calm	0	0		0	1 k			0	0	clear	T. M. Ambler.
Fredericksburg, Texas	28.30	718.8	29.98	761.5	73	22.8	84	sw.	1	0.4		0	0			0	0	clear	H. S. Miles.
Galveston, Texas	30.01	762.2	30.06	763.5	82	27.8	79	s.	11	4.9		2 c	5 k	e.	sw.	0	0	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.34	745.2	29.98	761.5	65.5	18.6	81	w.	1	0.4		0	5 s		w.	0	0	fair	W. A. Reid.
Hatteras, North Carolina	29.96	761.0	29.98	761.5	78	25.6	90	sw.	32	14.3		6 ck	hz.	w.		0	0	fair	R. M. Crawford.
Helena, Montana	25.82	655.8	29.94	760.5	50	10.0	66	sw.	4	1.8		0	0			0	0	clear	S. Wheaton.
Henrietta, Texas	29.04	737.6	30.02	762.5	81.0	27.2	74	s.	5	2.2		0	0			0	0	clear	J. W. Byram
Huron, Dakota	28.68	728.5	30.02	762.5	61.2	16.2	87	e.	5	2.2		0	0			inap.	inap.	clear	S. W. Glenn.
Indianapolis, Indiana	29.28	743.7	30.06	763.5	72	22.2	90	sw.	3	1.3			10 n		w.	0.30	7.6	light rain	O. Schutze
Indianola, Texas	30.00	762.0	30.03	762.7	80.0	26.7	88	s.	5	2.2		hz.	2 ks		s.	inap.	inap.	clear	I. A. Reed.
Jacksboro, Texas	28.88	733.5	30.00	762.0	77	25.0	76	se.	8	3.6		0	0			0	0	clear	J. P. Sherry.
Jacksonville, Florida	30.12	765.0	30.16	766.1	83	28.3	74	sw.	2	0.9		3 ck	0	sw.		0	0	clear	J. W. Smith.
Keokuk, Iowa	29.36	745.7	30.00	762.0	72.5	22.5	83	e.	2	0.9		6 k	0	w.		2.07	52.6	fair	F. Z. Gosewisch
Key West, Florida	30.09	764.3	30.11	764.8	83.0	28.3	72	se.	6	2.7		0	3 k;ks		se.	0.12	3.0	clear	R. H. Paxton.
Kittyhawk, North Carolina	29.92	760.0	29.94	760.5	81	27.2	79	w.	20	8.9		2 c	0			0	0	clear	E. A. Beals.
Knoxville, Tennessee	29.09	738.9	30.10	764.5	76	24.4	85	sw.	8	3.6		1 k;hz	0			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.27	743.4	30.03	762.7	66	18.9	73	s.	3	1.3		0	0			0	0	clear	S. C. Emery
La Mesilla, New Mexico	26.08	662.4	29.80	756.9	71.0	21.7	50	se.	2	0.9		0	9 s		se.	0	0	cloudy	N. D. Lane.
Leavenworth, Kansas	29.09	738.9	29.96	761.0	78	25.6	82	s.	9	4.0		2 k	4 ks	sw.		0.48	12.2	threatening	A. W. Browne.
Lewiston, Idaho	29.11	739.4	29.93	760.2	60.5	15.8	57	e.	1	0.4		7 k	0	w.		0	0	fair	W. Bell.
Little Rock, Arkansas	29.75	755.6	30.06	763.5	79	26.1	88	s.	2	0.9		0	0			inap.	inap.	clear	W. U. Simmons.
Los Angeles, California	29.58	751.3	29.97	761.2	52.1	11.2	80	se.	4	1.8		0	3 s		s.	0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.47	748.5	30.02	762.5	75	23.9	76	n.	13	5.8			10 ks		w.	0.10	2.5	threatening	H. C. Smyth.
Lynchburg, Virginia	29.26	743.2	29.93	760.2	78.5	25.8	65	sw.	4	1.8		0	9 s			inap.	inap.	cloudy	W. R. Bushby.
Madison, Wisconsin	29.06	738.1	30.05	763.3	64	17.8	84	nw.	4	1.8		0	0			0	0	clear	C. A. Shaw.
Marquette, Michigan	29.28	743.7	30.00	762.0	66	18.9	63	w.	6	2.7		0	0			0.01	0.3	clear	J. Gilligan.
Memphis, Tennessee	29.75	755.6	30.08	764.0	83	28.3	72	s.	5	2.2		hz.	hz.			0	0	dense haze	D. T. Flannery.

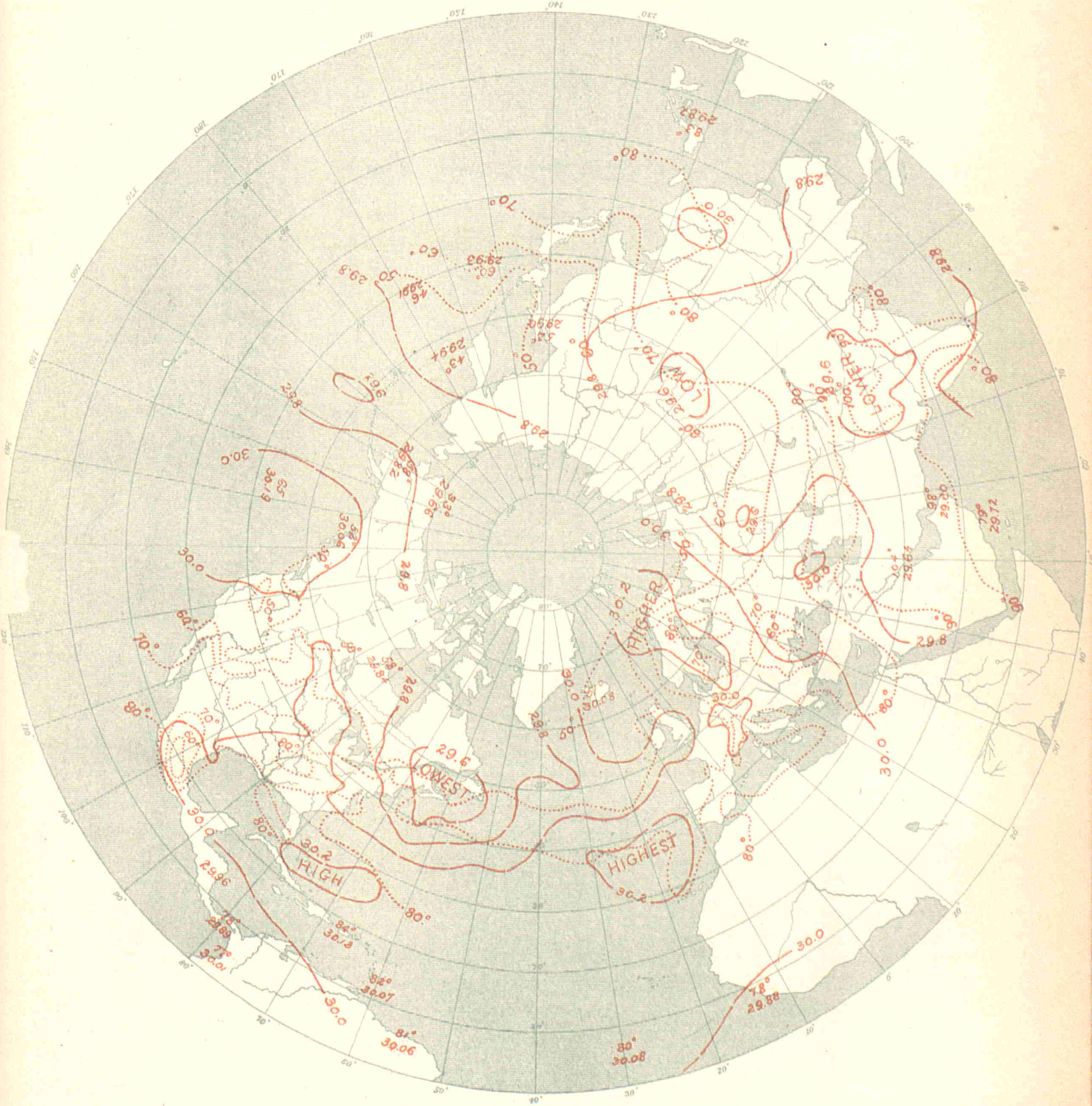
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	29.28	743.7	30.02	762.5	67	19.4	68	nw.	9	4.0	.....	0	0	.....	.....	0	0	clear	W. Line.
Mobile, Alabama	30.12	765.0	30.16	766.1	80.5	26.9	82	se.	2	0.9	.....	3 k	3 ks	sw.	.....	0.05	1.3	fair	J. D. Paxton.
Montgomery, Alabama	29.93	760.2	30.16	766.1	80	26.7	79	sw.	3	1.3	.....	1 ck	0	.....	.....	0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	29.07	738.4	30.04	763.0	57	13.9	86	calm	0	0	.....	0	4 s	.....	.....	0	0	fair	H. Bessant.
Morgantown, W. Virginia	29.00	736.6	30.00	762.0	73.5	23.1	82	calm	0	0	.....	.....	10 s	.....	.....	0.54	13.7	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.56	598.4	29.68	753.9	41.0	5.0	96	nw.	69	30.8	.....	.....	fg.	.....	nw.	0.06	1.5	dense fog	J. G. Linsley
Nashville, Tennessee	29.55	750.6	30.07	763.8	82.5	28.1	72	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	L. A. Jesunofsky.
New Haven, Connecticut	29.70	754.4	29.80	756.9	73.5	23.1	56	nw.	6	2.7	.....	5 c	0	w.	.....	0	0	fair	J. H. Sherman.
New London, Connecticut	29.74	755.4	29.79	756.7	73	22.8	66	w.	2	0.9	.....	5 c	0	.....	.....	0	0	fair	J. G. Lynch.
New Orleans, Louisiana	30.07	763.8	30.12	765.0	80.8	27.1	82	calm	0	0	.....	0	sk.	.....	.....	0.24	6.1	clear	L. Dunne.
Newport, Rhode Island	29.74	755.4	29.79	756.7	76.1	24.5	58	w.	5	2.2	.....	7 c	0	w.	.....	0	0	fair	W. McGillivray.
New River, N. Carolina	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. C. Corbin.
New Shoreham, Rhode I'd.	29.76	755.9	29.79	756.7	73.0	22.8	66	nw.	12	5.4	.....	7 ck	0	w.	.....	0	0	fair	W. Davis.
New York, New York	29.69	754.1	29.86	758.4	77	25.0	60	nw.	6	2.7	.....	5 cs	0	w.	.....	0.03	0.8	fair	J. B. Merrill.
Norfolk, Virginia	29.87	758.7	29.90	759.4	82	27.8	74	w.	7	3.1	.....	4ck;cs	3 ks	w.	w.	inap.	inap.	fair	J. T. Elker.
North Platte, Nebraska	27.12	688.8	29.92	760.0	61.6	16.4	80	e.	11	4.9	.....	0	5 s	.....	.....	0	0	fair	E. F. Brady.
Olympia, Washington T'y	30.03	762.7	30.07	763.8	44.0	6.7	83	sw.	2	0.9	.....	.....	10 s	.....	calm	0	0	cloudy	J. Dascomb.
Omaha, Nebraska	28.90	734.0	30.04	763.0	68.3	20.2	68	ne.	6	2.7	.....	0	0	.....	.....	3.38	85.9	clear	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	29.64	752.8	29.66	753.4	33.0	0.6	100	wnw.	16	7.2	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	P. H. Ray.
Oswego, New York	29.49	749.0	29.81	757.2	67.2	19.6	72	w.	6	2.7	.....	1 c	0	w.	.....	0	0	clear	S. W. Beall.
Palestine, Texas	29.56	750.8	30.10	764 5	77.0	25.0	85	s.	3	1.3	.....	4 ck	0	s.	.....	inap.	inap.	fair	L. M. Pindell.
Pensacola, Florida	30.11	764.8	30.14	765.5	81.7	27.6	77	s.	6	2.7	.....	0	5 s	.....	sw.	0	0	fair	M. McGauran.
Philadelphia, Pa.	29.78	756.4	29.88	758.9	78	25.6	76	nw	6	2.7	.....	4 ck	3 k	nw.	w.	0.56	14.2	fair	T. F. Townsend.
Pike's Peak, Colorado	18.00	457.2	29.82	757.4	33	0.6	78	sw.	34	15.2	.....	0	0	.....	.....	0	0	clear	L. M. Dey.
Pioche, Nevada	24.03	610.4	29.83	757.7	55.7	13.2	24	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.14	740.1	29.93	760.2	73.0	22.8	84	sw.	6	2.7	.....	.....	10 s	.....	sw.	0.25	6.3	cloudy	J. H. Bryce.
Poplar River, Montana	27.91	708.9	.....	.....	.....	.....	.....	ne.	.....	.....	1	0	0	.....	.....	0	0	clear	U. D. Maxwell.
Port Eads, Louisiana	30.15	765 8	30.16	766.1	80.0	26.7	82	s.	4	1.8	.....	0	0	.....	.....	0.02	0.5	clear	H. G. Christian.
Port Huron, Michigan	29.25	742.9	29.92	760.0	63.1	17.3	81	calm	0	0	.....	9 cs	0	w.	.....	0.02	0.5	cloudy	W. O. Bailey.
Portland, Maine	29.65	753.1	29.70	754.4	73.0	22.8	55	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	W. W. Eichelberger.
Portland, Oregon	29.99	761.7	30.06	763.5	51.0	10.6	86	calm	0	0	.....	0	0	.....	.....	0	0	clear	M. L. Hearne.
Portsmouth, N. Carolina	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. P. Chaffee.
Prescott, Arizona	24.82	630.4	29.84	757.9	50	10.0	33	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. McN. Wright.
Provincetown, Mass.	29.71	754.6	29.74	755.4	73	22.8	64	nw.	9	4.0	.....	3 cs	2 s	w.	.....	0.01	0.3	fair	P. T. Jenkins.
Punta Rassa, Florida	30.13	765.3	30.14	765.5	78	25.6	85	e.	7	3.1	.....	0	1 k	.....	calm	0.55	14.0	clear	W. J. Evans.
Red Bluff, California	29.55	750.6	29.91	759.7	64.0	17.8	60	nw.	2	0.9	.....	0	1 s	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.79	756.7	30.02	762.5	82	27.8	74	se.	9	4.0	.....	0	0	.....	.....	0	0	clear	P. M. Wilson.
Rochester, New York	29.19	741.4	29.84	757.9	69	20.6	61	nw.	4	1.8	.....	7 k	sk.	w.	.....	0	0	fair	E. W. McGann
Roseburg, Oregon	29.52	749.8	30.07	763.8	48.8	9.3	78	calm	0	0	.....	2 k	0	ne.	.....	0	0	clear	J. J. Nanry.
Sacramento, California	29.85	758.2	29.92	760.0	56.7	13.7	80	s.	9	4.0	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.48	748.8	30.07	763.8	72.5	22.5	83	e	8	3.6	.....	0	8 ks	.....	nw.	0	0	cloudy	J. H. Webber.
St. Paul, Minnesota	29.20	741.7	30.05	763.3	64.0	17.8	78	w.	1	0.4	.....	0	hz.	.....	.....	0	0	clear	P. F. Lyons
St. Vincent, Minnesota	29.16	740.7	30.00	762.0	58	14.4	81	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.59	650.0	29.81	757.2	56	13.3	53	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.34	745.2	30.02	762.5	76.0	24.4	90	se.	1	0.4	.....	.....	10 s	.....	se.	0	0	cloudy	E. Lane.
San Diego, California	29.88	758.9	29.95	760.7	61.7	16.5	85	n	5	2.2	.....	1 k	9 s	w.	w.	0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.29	744.0	29.96	761 0	72	22.2	76	nw.	15	6.7	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.81	757.2	29.85	758.2	75.0	23.9	85	nw.	9	4.0	.....	9 k	0	nw.	.....	0	0	cloudy	B. A. Blundon.
San Francisco, California	29.92	760.0	29.98	761.5	53.5	11.9	86	s.	9	4.0	.....	.....	fg.	.....	sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.34	592.8	29.85	758.2	63	17.2	27	calm	0	0	.....	5 c	0	.....	.....	0	0	fair	H. U. Jones.
Savannah, Georgia	30.04	763.0	30.13	765.3	83.8	28.8	72	sw.	8	3.6	.....	6 ck	0	sw.	.....	0.03	0.8	fair	H. W. Ford.
Shreveport, Louisiana	29.85	758.2	30.08	764.0	78	25.6	88	s.	3	1.3	.....	0	hz.	.....	.....	0	0	clear	E. N. Meekins.
Silver City, New Mexico	24.29	617.0	29.79	756.7	65	18.3	30	nw.	1	0.4	.....	0	5 s	.....	calm	0	0	fair	J. B. Wallace.
Sitka, Alaska	30.00	762.0	30.06	763.5	51.5	10.8	80	ne.	6	2.7	.....	.....	10 ks	.....	ne.	0	0	cloudy	J. J. McLean.
Smithville, North Carolina	30.02	762.5	30.06	763.5	81	27.2	85	w.	13	5.8	.....	hz.	4 k	.....	sw.	0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.94	709.7	29.98	761.5	53	11.7	80	sw.	2	0.9	.....	5 ck	0	w.	.....	0	0	fair	D. Moore.
Springfield, Illinois	29.38	746.2	30.05	763.3	69	20.6	90	n.	7	3.1	.....	2 cs	7 s	w.	w.	1.05	26.7	cloudy	T. B. Jennings.
Springfield, Massachusetts	29.66	753.4	29.79	756.7	77.1	25.1	60	w.	2	0.9	.....	6 ck	0	w.	.....	0.06	1.5	fair	T. S. Outram.
Springfield, Mo.	28.63	727.2	30.00	764.3	76	24.4	75	s.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. B. Marbury.
Starkville, Miss.	29.65	753.1	30.12	765.0	79	26.1	88	sw.	6	2.7	.....	1 cs	0	.....	.....	0	0	clear	M. J. Wright.
Stockton, Texas	26.96	684.8	29.88	758.9	71.0	21.7	84	s.	20	8.9	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Thatcher's Island, Mass.	29.69	754.1	29.74	755.4	71.0	21.7	66	nw.	12	5.4	.....	6 ck	0	nw.	.....	0	0	fair	G. Liebmann
Toledo, Ohio	29.25	742.9	29.93	760.2	72	22.2	84	w.	3	1.3	.....	7 cs	0	w.	.....	0.04	1.0	fair	A. Buell.
Tucson, Arizona	27.52	699.0	29.82	757.4	75	23.9	28	calm	0	0	.....	0	1 s	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.58	751.3	29.94	760.5	69	20.6	31	w.	12	5.4	.....	.....	10 s	.....	sw.	0	0	cloudy	J. Daly.
Uvalde, Texas	29.04	737.6	29.98	761.5	75	23.9	90	se.	4	1.8	.....	0	7 s	.....	se.	0	0	fair	E. C. Imlay.
Vicksburg, Mississippi	29.88	758.9	30.12	765.0	77	25.0	90	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	H. P. Brisbane.
Visalia, California	29.52	749.8	29.89	759.2	64	17.8	52	nw.	3	1.3	.....	1 cs	0	.....	.....	0	0	clear	W. L. Seward.
Washington, D. C.	29.80	756.9	29.91	759.7	78.0	25.6	74	nw.	1	0.4	.....	.....	10 s	.....	nw.	0	0	cloudy	B. M. Purssell.
West Las Animas, Colorado	26.12	663.4	29.90	759.4	65.3	18.5	87	e.	12	5.4	.....	.....	10 s	.....	e.	0	0	cloudy	F. W. Brandenburg.
Williamsport, Pa.	29.29	744.0	29.89	759.2	77.5	25.3	68	w.	1	0.4	.....	1 cs	2 ks	w.	w.	0.10	2.5	clear	B. F. Hough.
Wilmington, N. Carolina	29.98	761.5	30.03	762.7	80	26.7	88	w.	12	5.4	.....	5 k	0	w.	.....	0	0	fair	A. T. Sherwood.
Winnemucca, Nevada	25.61	650.5	29.87	758.7	47	8.3	66	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Yankton, Dakota	28.78	731.0	30.06	763.5	67	19.4	73	calm	0	0	.....	0	0	.....	.....	inap.	inap.	clear	J. H. Atfield.
Yuma, Arizona	29.66	753.4	29.80	756.9	70.7	21.5	77	calm	0	0	.....	0	1 s	.....	.....	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.07	560.6	.....	.....	54.0	12.2	71	ne.	4	1.8	.....	3 cs	5 ks	e.	w.	0.20	5.1	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W. I.	30.06	763.5	30.07	763.8	82	27.8	91	ne.	.....	.....	.....	5 k	5 ks	e.	e.	1.00	25.4	fair	J. A. Racker.
Buenaventura, U. S. C.	29.98	761.5	30.01	762.2	77	25.0	90	calm	0	0	.....	4 cs	6 ks	s.	calm	0	0	cloudy	J. I. Plume.
Havana, Cuba, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.07	763.8	30.08	764.0	83.0	28.3	77	ese.	12	5.4	.....	0	3 ks	.....	e.	0	0	.....	Robert Johnston.
Magua, San Domingo, W. I.	.....	.....	.....	.....	75	23.9	.....	e.	.....	.....	2	.....	10 k	.....	w.	0	0	.....	S. M. Pike.
Paramaribo, S. A.	30.06	763.5	30.06	763 5	81	27.2	83	e.	.....	.....	1	3 c	5 k	e.	e.	0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.49	749.0	30.05	763.3	78	25.6	89	calm	.....	.....	0	.....	fg.	.....	.....	0.23	5.8	foggy	Francisco J. Olsneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	99	se.	.....	.....	1	6 ck	2 ks	se.	se.	3.40	86.4	cloudy	Earl Flint.
Santiago de Cuba, W. I.	30.11	764.8	30.14	765.5	80	26.7	74	calm	0	0	.....	4 c	0	.....	.....	0.20	5.1	fair	Robert Mason.
York Factory, B. A.	29.78*	756.4	29.84	757.9	58.0	14.4	88	n.	13	5.8	.....	2 k	1 s	n.	n.	0	0	fair	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
BRITISH NAVAL.																		
H. M. S. Alert, Simon's Bay, Cape Colony, Africa	30.23	767.8	66.5	19.2	51	ese.			3-4		0							misty.
H. M. S. Alexandra, N. 31° 34′ E. 29° 40′	29.90	759.4	74	23.3	85	wnw.			4		2					2	wnw.	misty.
H. M. S. Amethyst, Montevideo, Uruguay	30.20	767.1	49	9.4	96	n.			1		8	nw.						d. clouds.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	30.09	764.3	70	21.1		nne.			2-3		3	n.						d. clouds.
H. M. S. Arab, Muscat Arabia	29.50	749.3	98	36.7	84	se.			1		0							misty.
H. M. S. Bacchante, Palermo, Sicily	30.07	763.8	79	26.1	82	ne.			2		1	nnw.						misty.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.26	768.6	64	17.8		e.			2-3		0							squally.
H. M. S. Champion, N 19° 10′ W. 178° 00′			79	26.1		ne.			4		3					5	ene.	d. clouds.
H. M. S. Coquette, Port Said, Egypt	29.90	759.4	77	25.0		nw.			2		0							blue sky.
H. M. S. Cruiser, N. 38° 25′, E. 15° 30′	30.04	763.0	77	25.0		ene.			1		0							blue sky.
H. M. S. Diamond, S. 8° 42′, E. 161° 00′	29.92	760.0	80	26.7	100	sse.			1		10	ese.						thnd'rstorm.
H. M. S. Dido, N. 13′, 05° W. 59° 30′	30.14	765.5	79	26.1		ese.			1		4	e.						d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	30.15	765.8	77	25.0	88	wsw.			1-2		4	wsw.						d. clouds.
H. M. S. Druid, N. 18° 33′, W. 72° 21′	30.10	764.5	80.5	26.9	93	e.			2-3		9	e.				1	e.	misty.
H. M. S. Dwarf, S. 26° 40′, W. 58° 43′	30.00	762.0	59.5	15.3	88	calm			0		4							d. clouds.
H. M. S. Eclipse, S. 4° 37′, E. 55° 30′	29.97	761.2	79	26.1		ese.			2		3							d. clouds.
H. M. S. Emerald, S. 37° 40′ W. 33° 20′	30.17	766.3	59	15.0	100	w.			3-4		4	w.				2	sw.	d. clouds.
H. M. S. Espiegle, S. 18° 33′ E. 168° 43′	30.05	763.3	74	23.3	85	sse.			1		8	s.				1	s.	d. clouds.
H. M. S. Fawn, S. 25° 59′, E. 32° 55′	30.42	772.7	68	20.0	75	s.			3		5	s.						d. clouds.
H. M. S. Flying Fish, N. 33° 49′, E. 126° 12′	29.93	760.2	68	20.0	92	nnw.			3		4					1	w.	d. clouds.
H. M. S. Gannet, S. 26° 20′, W. 70° 41′	30.08	764.0	54.5	12.5	76	e.			1		10							misty.
H. M. S. Garnet, S. 32° 38′, W. 41° 30′	30.43	772.9	61	16.1	70	n.			3		6					3	s.	d. clouds.
H. M. S. Griffon, N. 49° 42′, W. 56° 06′	29.58	751.3	52	11.1	?	se.			1									foggy.
H. M. S. Inconstant, N. 25° 00′ W. 18° 45′	30.16	766.1	71	21.7	85	ne.			3-4		5	nne.				4	nne.	squally.
H. M. S. Iris, N. 32° 50′, E. 26° 10′	29.99	761.7	75	23.9	76	nw.			1-2		0					1	wnw.	blue sky.
H. M. S. Iron Duke, N. 35° 26′, E. 139° 39′	29.95	760.7	72	22.2	90	calm			0		3							d. clouds.
H. M. S. Kingfisher, N. 20° 58′ W. 105° 15′	29.92	760.0	79	26.1		nnw.			2-3		8					2	nw.	thnd'rstorm.
H. M. S. Lark, S. 10° 40′, E. 162° 22′	29.91	759.7	83.3	28.5		e.			3		5					2	e.	d. clouds.
H. M. S. Magpie, N. 35° 26, E. 139° 39′	29.86	758.4	72.5	22.5	90	calm			0		10							misty.
H. M. S. Minotaur, Malta, Mediterranean	30.07	763.8	77	25.0	60	e.			1		0							blue sky.
H. M. S. Nelson, S 36° 50′, E. 174° 49	29.29	744.0	56	13.3	93	sw.			2-5		5	ne.						showery.
H. M. S. Northampton, Halifax, Nova Scotia	29.47	748.5	63	17.2	88	nnw.			1		1							misty.
H. M. S. Rambler, S. 15° 18′, E. 2° 58′	30.08	764.0	67	19.4	94	s.			3		10	sse				5	s.	d. clouds.
H. M. S. Rocket, N. 49° 50′, W. 127° 00′	30.02	762.5	50	10.0	93	calm			0		3							misty.
H. M. S. Sappho, S. 23° 36′, W. 121° 29′	30.15	765.8	69.5	20.8		sse.			1		8	calm						d. clouds.
H. M. S. Swiftsure, S. 9° 10′, W. 30° 10′	30.04	763.0	79.5	26.4	74	ese.			5		3	ese.				3	ese.	showery.
H. M. S. Sylvia, S. 34° 08′, W. 52° 55′	30.31	769.9	49.5	9.7	93	w.			1-2							2	e.	foggy.
H. M. S. Tenedos, N. 47° 36′ W. 57° 18′	29.52	749.8	55	12.8	93	se.			1		10							misty.
H. M. S. Triumph, Valparaiso, Chili	30.03	762.7	53	11.7	79	ne.			1		10	calm						d. clouds.
H. M. S. Tyne, N. 37° 08′, W. 30° 00′	30.20	767.1	71	21.7	85	w.			4		3	calm				1	wnw.	d. clouds.
H. M. S. Woodlark, Off Fau, Asiatic Turkey	29.54	750.3	103.5	39.7	23	nw.			3-4		0							blue sky.
PORTUGUESE NAVAL.																		
Rio Lima, Porto Praya, Cape Verde Islands	30.11	764.9	77.5	25.3	93	ne.			3		0					2	se.	blue sky.
Tamega, Macao, China	29.86	758.4	86.2	30.1	79	s.			2		2			1 h'r	1 h'r			d. clouds.
SWEDISH NAVAL.																		
Saga, N. 48° 55′, W. 18° 47′	29.89	759.3	55.2	12.9	94	se.			6		9							raining.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	30.09	764.3	84	28.9	75	s.	4	1.8			2		sw.	0	0			fair.
Navy Yard, Portsmouth, N. H	29.83	757.7	77	25.0	34	nw.	9	4.0			0			0	0			hazy.
Naval Hospital, Yokohama, Japan*	29.72	754.9	71	21.7	95	calm			0		10		sw.	0.05	1.3			cloudy.
Adams, Mare Island, Cal	29.97	761.2	56	13.3	94	ssw.			3		5		nw.	0	0			fair.
Alaska, Callao, Peru	30.01	762.2	58	14.4	88	ene.			1		10			0	0	sm'h		cloudy.
Alert, N. 42° 38′, E. 166° 25′*	29.91	759.7	46	7.8	92	ne.			3		10		calm			sm'h		cloudy.
Alliance, Boston, Mass	29.75	755.6	76	24.4	73	wnw.			1		5			0	0			fair.
Ashuelot, Yokohama, Japan	29.82	757.4	74	23.3	86	calm			0		10		sw.					cloudy.
Brooklyn, Rio de Janeiro, Brazil	30.40	772.1	67	19.4	95	nnw.	3	1.3			10		calm	0.01	0.3	sm'h		cloudy.
Colorado, New York, N. Y	29.83	757.7	78	25.6	69	wnw.	12	5.4			8		wnw.	0	0			cloudy.
Constellation, Chesapeake Bay*	29.89	759.2	80	26.7	87	wsw.			3		8		wsw.					fair.
Enterprise, Norfolk, Va*	29.91	759.7	81	27.2	83	sw.			2		8		nw.					cloudy.
Essex, Elizabeth Island, Patagonia	29.94	760.5	39	3.9	100	nw.			1		2		nw.			sm'h		clear.
Franklin, Norfolk, Va	29.94	760.5	81	27.2	78	sw.	9.6	4.3			5		sw.	0	0			fair.
Galena, Alexandria, Egypt	29.94	760.5	79	26.1	86	nw.			2		2					sm'h		clear.
Independence, Navy Yard, Mare Island, Cal	30.01	762.2	55	12.8	87	sw.			5		5		sw.	0	0			hazy.
Iroquois, San Francisco, Cal	30.10	764.5	54	12.2	87	sw.			3		10		sw.	0	0			cloudy.
Kearsarge, Norfolk, Va	29.91	759.7	81	27.2	91	wsw.			1		5		wsw.					fair.
Lackawanna, S. 11° 39′, W. 77° 50′*	30.03	762.7	59	15.0	88	se.			2		10							cloudy.
Lancaster, N. 32° 15′, E. 26° 24′*	29.96	761.0	81	27.2	87	n.			3		0			0	0	sm'h		clear.
Marion, S. 34° 54′, W. 56° 13′	30.20	767.1	47	8.3	100	nw.			2		10					sm'h		hazy.
Michigan, Detroit, Mich	29.90	759.4	70	21.1	70	wsw.			2		8		wsw.					fair.
Minnesota, Newport, R. I.	29.83	757.7	72	22.2	71	nw.	3	1.3			8		nw.					
Monocacy, N. 38° 20′ E. 128° 37′	29.96	761.0	63	17.2	83	se.			2		10		calm			long	e.	cloudy.
New Hampshire, Newport, R. I.	29.68	753.9	71	21.7	71	nw.			1		8					sm'h		fair.
Nipsic, N. 45° 31′ E. 13° 28′	30.10	764.5	78	25.6	53	sw.			2		2					sm'h		hazy.
Onward, Callao, Peru†	30.13	765.3	58	14.4	94	ene.			1		10		n.			long	w	cloudy.
Palos, Kobe, Japan	29.92	760.0	74	23.3	90	wsw.			1		10		w.					cloudy.
Passaic, Washington, D. C	29.82	757.4	80	26.7	100	calm			0		10		sw.					cloudy.
Pensacola, Callao, Peru	30.04	763.0	58	14.4	88	ne.	3	1.3			10			0	0	sm'h		cloudy
Powhatan, N. 33° 17′, W. 78° 28′	30.09	764.3	84	28.9	83	sw.			4		2		sw.			mod.	sw.	fair.
Portsmouth, Brest, France*	29.92	760.0	64	17.8	78	wsw.			4		10		sw.			sm'h		rainy.
Quinnebaug, Messina, Sicily	30.07	763.8	78	25.6	61	s.			2		2		calm			sm'h		hazy.
Ranger, Mare Island, Cal*	29.93	760.2	58	14.4	82	ssw.			2		2		calm	0	0	sm'h		clear.
Richmond, Yokohama, Japan*	29.81	757.2	73	22.8	95	ese.			1		10			0.06	1.5			cloudy.
Saratoga, Brest, France	29.96	761.0	61	16.1	82	wsw.			4		5		sw	light	light	sm'h		fair.
St. Louis, League Island, Pa	30.03	762.7	79	26.1	78	w.	2	0.9			8		w.	0.25	6.3			cloudy.
Swatara, N. 33° 54′, E. 135° 01′*	29.77	756.1	75	23.9	90	s.			1		10		s.			sm'h		cloudy.
Tennessee, Off New York, N. Y	29.86	758.4	83	28.3	67	wnw.	6	2.7			8		w.	0	0			hazy.
Vandalia, Portsmouth, N. H*	29.66	753.4	80	26.7	85	nw.			1		5		calm					fair.
Wabash, Boston, Mass	29.77	756.1	74	23.3	63	nw.	2	0.9			5		nw.	0	0			fair.
Wachusetts, Juneau City, Alaska	29.98	761.5	50	10.0	93	wsw.			1		10			0	0	sm'h		cloudy.
Wyoming, Port Royal, S. C	30.13	765.3	79	26.1	82	w.	10	4.5			8		sw.	0	0			cloudy.
Yantic, New York, N. Y*	29.79	756.7	75	23.9	86	nnw.			1		8							cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 48° 06′, W. 69° 25′*	29.50	749.3	55	12.8	87	wsw.			4		0			0	0	sm'h		blue sky.
S. S. Grecian, Quebec, Canada*	29.62	752.3	74	23.3		sw.			4		1		sw.	0	0			clear.
S. S. Nova Scotian, N. 50° 00′, W. 42° 05′	29.81	757.2	53	11.7		w.			3		10		sse.			sli't	ne.	cloudy.
S. S. Prussian, N. 50° 08′, W. 26° 52′*	29.53	750.0	57	13.9		w.			4		5		nw.	8 h'r	8 h'r	mod.	wnw.	hazy.
S. S. Waldensian, N. 42° 22′, W. 69° 26′*	29.84	757.9	70	21.1		wnw.			4		2		nw.	0	0	light	sw.	clear
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, Philadelphia, Pa	29.84	757.9	82	27.8	96	wnw.			1		2		w.					very fine.
S. S. Indiana, N. 45° 45′, W. 36° 21′†	30.10	764.5	62	16.7	88	w.			4		2		w.			sm'h	w.	fine.
S. S. Lord Clive, Philadelphia, Pa.*†	29.86	758.4				wnw.			2		0			1 h'r	1 h'r			fine.
S. S. Lord Gough, N. 49° 56′, W. 17° 11′	29.98	761.5	55	12.8		s.			5		10		s.	1 h'r	1 h'r	long	ne.	light rain.
ANCHOR LINE.																		
S. S. Bolivia, N. 54° 12′, W. 21° 38′†	29.93	760.2	55	12.8		sw.			2		5?		wsw.	0	0	sm'h	wsw.	cloudy.?
S. S. Devonia, N. 54° 08′, W. 18° 45′†	30.01	762.2	58	14.4		sse.			1		1		e.			sm'h		fine.
S. S. Ethiopa, N. 40° 23′, W. 64° 00′	29.69	754.1	69	20.6	95	wsw.			4		2		w.	0	0	mod.	sw.	clear.
S. S. Utopia, N. 39° 38′, W. 21° 46′†	30.38	771.6	68	20.0	90	sw.			3		5		sw.	0	0	hv'y	nnw.	fair.
ATLAS LINE.																		
S. S. Ailsa, Cartagena, U. S. C.†	29.91	759.7	80	26.7	91	ne.			1		8		ne.	0	0			fair.
S. S. Alvena, Montega Bay, Jamaica, W. I.†	29.94	760.5	82	27.8	71	e.			1		0			0	0	sm'h	ese.	fine.
S. S. Antillas, N. 21° 40′, W. 67° 14′*†	30.30	769.6				se.			2		5		e.	0	0	light	e.	fair.
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, Halifax, N. S.†	29.96?	761.0?	58	14.4		calm			0		fg			0	0			dense fog.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 27° 10′ E. 81° 17′	30.14	765.5	68.5	20.3	79	nne.			3		5							d. clouds.
S. Baroda, S. 14° 03′, E. 72° 43′	29.97	761.2	77.3	25.2	82	ene.			4		3							d. clouds.
British Merchant, N. 39° 27′, W. 32° 34′	30.19	766.8	67.5	19.7	74	nw.			3–4		4							d. clouds.
S. S. Glencairn, N. 1° 20′, W. 24° 37′	30.11	764.8	75	23.9	90	s.			3–4		2							blue sky.
S. S. Gordon Castle, N. 12° 28′, E. 44° 10′	29.69	754.1	90.5	32.5	82	ese.			3		2							blue sky.
Bkt. May Hulse, S. 38° 02′, W. 36° 27′	30.12	765.0	55	12.8	84	wnw.			5		7							drizzling.
S. S. Minho, N. 36° 57′, W. 10° 37′	30.18	766.6	68.2	20.1	79	n.			6		0							blue sky
CUNARD LINE.																		
S. S. Bothnia, N. 40° 54′, W. 63° 40′	29.64	752.8	72	22.2	83	wsw.			6		5?		w.	4 h'r	4 h'r	mod.	w.	clear?
S. S. Scythia, New York, N. Y.	29.82	757.4	78.5	25.8	69	nw.			1		7		w.	0	0			fair.
GENERAL TRANS-ATLANTIC COMPANY																		
S. S. Ville de Marseilles, Marseilles, France*†	30.05	763.3	77	25.0		sw.			2		0			0	0			clear.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 40° 28′, W. 60° 39′†*	29.83	757.7				wsw.			6		7		sw.	0	0	long	w.	misty.
S. S. Cimbria, N. 51° 56′, E. 2° 44′	30.05	763.3	65	18.3		se.			3		7		sw.	3 h'r	3 h'r	sm'h	se.	fair.
S. S. Herder, N. 48° 45′, W. 18° 25′*†	29.79	756.7	61	16.1		sw.			4		4		sw.	3 h'r	3 h'r	mod.	w.	
S. S. Lessing, N. 41° 01′, W. 59° 50′	29.65	753.0	72	22.2		ssw.			5		10		wnw.	0	0	r'gh	wnw.	covered.
S. S. Wieland, N. 40° 49′, W. 49° 23′	29.93	760.2	73	22.8		sw.			6		10		sw.	4½h'r	4½h'r	5	sw.	rainy.
JOHNSTON LINE.																		
S. S. Thanemore, N. 43° 30′, W. 41° 51′	29.90	759.4				wsw.			5		10		wsw.	shr's	shr's	sli't	w.	showery.
MALLORY LINE.																		
S. S. Colorado, N. 35° 02′, W. 75° 07′†	30.00	762.0	80	26.7		sw.			5		4		sw.	0	0	small	nw.	fair.
MERCHANT STEAMSHIP COMPANY.																		
S. S. Glenfyne, S. 17° 14′ W. 37° 51′	29.57	751.1				w.			4				nw.	0	0	r'gh	se.	cloudy.
S. S. Glenapp, Para, Brazil*†	29.98	761.5				var.			3		6		e.	0	0			fine.
NATIONAL LINE.																		
S. S. Canada, N. 49° 34′ W. 9° 18′†.	30.00	762.0	56	13.3		w.			3		6		wsw.	sh'rs	sh'rs	sm'h		fine.
S. S. Denmark, London, Eng.	30.02	762.5	58	14.4		sw.			5		8		sw.	2 h'r	2 h'r			showery.
S. S. The Queen, N. 50° 36′, W. 0° 21′*	29.89	759.2	58	14.4		ssw.			3		8		calm	shr's	shr's	sm'h	ssw.	
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, St. Jago, Cuba, W. I.†	30.12	765.0	79	26.1		calm			0		5		ene.	4 h'r	4 h'r			fine.
S. S. Saratoga, Havana, Cuba, W. I.†	30.34	770.6	78	25.6	82	calm			0		0			0	0			clear.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, N. 24° 55′, W. 79° 22′*†	30.23	767.8	81	27.2	91	ese.			4		2		se.	0	0	small	se.	clear.
S. S. City of Puebla, N. 30° 57′ W. 77° 30′†	30.05	763.3	79	26.1		ese.			2		2		ese.			light	se.	fine.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N. 48° 37′, W. 45° 33′*†	29.97	761.2	71	21.7		sw.			3–5								wnw.	raining.
S. S. Maas, N. 49° 45′, W. 6° 28′*†	29.88	758.9	65	18.3		w.										high	w.	showery.
NORTH GERMAN LLOYD.																		
S. S. America, N. 39° 30′, W. 56° 23′*	29.96	760.1	77.0	25.0		wsw.			6		8		wsw.	2 h'r	2 h'r	r'gh	wsw.	showery.
S. S. Elbe, N. 46° 06′, W. 36° 32′	29.95	760.7	59.0	15.0	94	nw.			2–3		2		n.	0	0	mod.	n.	clear.
S. S. Hohenzollern, N. 39° 55′, W. 61° 15′*	29.70	754.4	76	24.4		w.			5		10		w.	0	0	mod.	w.	cloudy.
S. S. Oder, N. 43° 28′, W. 42° 20′	29.93	760.2	66.2	19.0		wsw.			6		10		w.	5 h'r	5 h'r	r'gh	w.	rainy.
S. S. Ohio, Bremerhaven, Germany						se.			2		9		se.	0	0			covered.
S. S. Rhein, N. 40° 27′ W. 72° 34′	29.78	756.4				w.			2		3		w.	0	0	mod.	w.	light haze.
S. S. Salier, N. 47° 33′ W. 23° 35′	29.88	758.9	54.5	12.5		w.			5		10		w.	5 h'r	5 h'r	cross	w.	light rain.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, N. 44° 16′, W. 142° 54′†	30.29	769.4	65	18.3	83	s.			2		8		sw.	0	0	sm'h		cloudy.
S. S. Coptic, N. 46° 07′, W. 169° 48′	29.68	753.1	46.5	8.1		wsw.			4		10		w.	0	0	2	w.	gloomy.
S. S. Gaelic, N. 41° 57′, E. 154° 03′†	29.93	760.2	60	15.6	70	ese.			5		10		n.			mod.	ene.	overcast.
S. S. Oceanic, Yokohama, Japan*†	29.76	755.9	74	23.3	90	var.			3		7		w.					cloudy.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, N. 38° 48′, W. 74° 28′†	29.91	759.7				wnw.			3		6?		nw.	0	0	sm'h		clear?
S. S. City of Columbus, New York, N. Y.†	29.90	759.4				wnw.			2		3		sw.	0	0			clear.
S. S. Seminole, N. 33° 40′, W. 77° 33′†	30.12	765.0	80	26.7	82	sw.			6		1		sw.	0	0	long	ssw.	clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, San Francisco, Cal†	29.97	761.2	53	11.7	93	calm			0									hazy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 35° 11′, W. 120° 51′†	29.93	760.2	52	11.1	93	e.			1		10		nw.			sm'h		cloudy.
S. S. Dakota, New Tacoma, Wash. Ter*†	30.06	763.5	60	15.6	100	calm			0		8		w.			sm'h		cloudy.
S. S. Idaho, N. 42° 50′, W. 124° 47′†	30.21	767.3	53	11.7	86	nne.			5		10		n.			mod.	nw.	overcast.
S. S. State of California, N. 43° 51′, W. 124° 15′	30.11	764.8	56	13.3	87	n.			4		2		nw.			mod.	nw.	clear.
S. S. Victoria, Portland, Oregon†	29.82	757.5	53	11.7	85	calm			0							sm'h		clear.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, S. 34° 20′, E. 173° 10′	29.61	752.1	59	15.0	76	ssw.			6		10?		sw.	0	0	long	sw.	clear?
S. S. City of Pekin, Hong Kong, China†	29.89	759.2	86	30.0	88	s.			1		5		se.	0	0	sm'h		fair.
S. S. City of Rio de Janeiro, N. 24° 03′, W. 111° 28′*†	30.18	766.6	71	21.7	85	nw.			1		10		nw.	0	0	mod.	s.	foggy.
S. S. City of Sydney, Sydney, N. S. W.†	30.21	767.3	49	9.4	78	w.			3		5		sw.	0	0	sm'h		fair.
S. S. Clyde, N. 31° 30′, W. 116° 30′†	29.93	760.2	59	15.0	82	wnw.			1		10		nw.	0	0	long	wnw.	cloudy.
S. S. Colima, Mazatlan, Mexico†	29.83	757.7	77	25.0	86	var.			3		5		sw.	0.02	0.5	h'vy	ssw.	threatening
S. S. Grenada, Panama, Panama†	29.89	759.2	78	25.6	100	n.			1		5?		nw.	0	0			clear.?
S. S. South Carolina, off Bono Island, Panama Bay†	30.03	762.7	77	25.0	95	nne.			4		10		ne.	6 h'r	6 h'r	light	n	raining.
S. S. Zealandia, S. 9° 03′, W. 168° 45′	29.96	761.0	83	28.3	87	ne.			2		2		ne.			sm'h		fine.
QUEBEC STEAMSHIP CO.																		
S. S. Muriel, N. 27° 00′, W. 66° 45′†	30.07	763.8	82	27.8		s.			1		10			0	0	long	se.	overcast.
S. S. Bermuda, N. 29° 52′ W. 69° 15′	30.29	769.4	82	27.8		nw.			2		5		nw.	0	0	gentle	nw	fine.
RED STAR LINE.																		
S. S. Nederland, N. 40° 42′, W. 47° 25′†	29.87	758.7	71	21.7		sw.			4		10		sw.	1 h'r	1 h'r	r'gh	sw.	covered.
S. S. Pennland, N. 49° 43′, W. 10° 12′*	29.94	760.5	58	14.4		ssw.			3		2		ssw.	0	0	sm'h		hazy.
S. S. Rhynland, Antwerp, Belgium	30.05	763.3	64	17.8	83	ne.			2		10		ne.	0	0			cloudy.
S. S. Vaderland, N. 40° 03′, W. 63° 15′	29.95	753.2	73	22.8	95	wsw.			4		0			0	0	mod.	wsw.	hazy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
STATE LINE.																		
S. S. State of Florida, New York. N. Y.	29.73	755.1	80	26.7		nw.			4		7		w.	0	0			cloudy.
S. S. State of Georgia, N. 41° 01′ W. 56° 27′†	29.81	757.2	72	22.2		sw.			6		10		sw.	4 h'r	4 h'r		wsw.	heavy rain.
S. S State of Indiana, N. 54° 40′, W. 16° 20′†	30.29	769.4	59	15.0		sw.			1		2			0	0	sm'h		fine.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 40° 38′, W. 63° 52′†	29.90	759.4	66.2	19.0	84	ssw			2		3		ssw.	0	0	r'gh	ssw.	clear.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 45° 20′, W. 26° 47′	29.97	761.2									1			0	0	2	w.	
WHITE STAR LINE.																		
S. S. Baltic, N. 40° 26′, W. 70° 46′†	29.87	758.7	66	18.9	94	w.			2		5		nw.	2 h'r	2 h'r	sm'h		d. clouds.
S. S. Celtic, N. 44° 04′, W. 45° 11′†	29.84	757.9	63	17.2	94	s.			3		10		sw.	shr's	shr's	sm'h		drizzling.
S. S. Germanic, N. 40° 42′, W. 60° 33′†	29.80	756.9	73	22.8		sw.			5		10		wsw.			light	wsw.	misty.
WILSON LINE.																		
S. S. Otranto, N. 42° 59′, W. 51° 55′†	29.76	755.9	62	16.7		s.			6		10		s.			cross	s.	foggy.
S. S. Romano, New York, N. Y.	29.72	754.9	86	30.0														fair.
MISCELLANEOUS.																		
Bk. Abbe Clifford, N. 31° 20′ W. 75° 34′.*†	30.24	768.1	80	26.7		sw.			4		3		sw.	0	0	sm'h		fair.
Schr. Addie Fuller, Bath, Me†	29.77	756.1	72	22.2	49	nw.				0	0			0	0			clear.
Schr. Ajax, N. 28° 20′, W. 96° 21′†	30.10	764.5				sse.			3		4		s.	0	0	sm'h	s.	fair.
Bk. Alpha, New York, N. Y†	29.84	757.9	76	24.4		nw.			1		3		nw.	0	0			fair.
Schr Annie Lewis, Mobile Bay, Ala†	30.27	768.8	84	28.9		w.			1		10		w.	6 h'r	6 h'r	sm'h		raining.
Bk. Anna Thormann, S. 27° 46′ W. 27° 25′	30.43	772.8	64.2	17.9	60	ese.			3		9 k		se.	0	0	high	ssw.	cloudy.
S. S. Antonio Lopez, N. 38° 32′, E. 0° 05′	30.04	763.0	76	24.4	76	ne.			4		0			0	0	mod.		clear.
Schr. Asa Eldridge, Key West, Fla†	30.09	764.3				se.			2		2		se.	1 h'r	1 h'r			fair.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.50	774.7	70	21.1		nw.			1		2		nw.	0	0			clear.
Bk. Cato, N. 38° 24′, W. 65° 30′*†	30.22?	767.6?				wsw.			6		8		wsw.	4 h'r	4 h'r	mod.	wsw.	thund'r st'm.
Schr. C. R. Flint, N. 28° 20′, W. 86° 43′			78	25.6		ese.			1		5?		se.	0	0	sm'h	se.	clear ?
Schr. Edith R. Seward, N. 31° 34′, W. 72° 25′*†	30.22	767.6	79	26.1		sw.			3		3		wsw.	0	0	r'gh	wsw.	fair.
S. E. J. Spicer, N. 45° 10′, W. 54° 50′†	29.67	753.6				se.			4		8		sw.	0	0	mod.	wsw.	
Bk. Essex, S. 14° 00′ W. 32° 19′*†	30.12	765.0	79	26.1		sse.			1		3		sse.	1 h'r	1 h'r	long	s.	fine.
S. Exporter, S. 5° 20′, E. 82° 30′*†	29.98	761.5				baff.			3		8		sw.	14 h'r	14 h'r	long	se.	
Bk. Freya, N. 42° 38′ W. 54° 11′			68	20.0		wsw.			6		10		w.	8 h'r	8 h'r	mod	w.	squally.
S. Grecian, Hong Kong, China*†	29.90	759.4	87	30.6		se.			2		2		e.	0	0			clear.
Bk. Hattie G. McFarland, Portland, Me*†	29.70	754.4	67	19.4		n.			1		3			0	0			clear.
S. Hedwig, N. 39° 07′, W. 17° 06′	30.29	769.4	71.8	22.1	82	sw.			1		5		wsw.	0	0	long	nnw.	fine
S. Ismir, S. 39° 25′, W. 13° 18′†	30.27	768.8				wnw.			4		7		nw.			swell	nw.	fine.
S. Ivy, N. 39° 35′, W. 126° 50′†	30.34	770.6	57	13.9		nnw.			3		10		n.			mod	nne.	cloudy.
Schr. Jennie N. Huddell, N. 41° 29′ W. 70° 00′†	29.94	760.5	68	20.0	79	nw.			3					0	0			clear.
Schr. John L. Thomas, Cocorocuma Cays, C. A*†	30.06	763.5				e.			6		6		se.	2 h'r	2 h'r			squally.
S. S. Lamperis, N. 16° 07, E. 54° 37′*.	29.72	754.9	79.0	26.1	82	wsw.			5		10 ks					3		misty.
Light House Tender, Laurel, Key West, Fla†	30.16	766.1	84	28.9		ese.			2		4		se.	1 h'r	1 h'r			fair.
S. S. Malabar, N. 31° 06′, E. 139° 10′*†	29.91	759.7				var.			1					0	0		sw.	squally.
S. M. P. Grace, N. 4° 52′, W. 29° 24′*	29.98	761.5	80	26.7		s.			2				sse.	light	light	short	se.	
S. S. Nebo, N. 51° 35′, W. 32° 54′*†	29.88	758.9				w.			2		10		w.	0	0	mod.	wnw.	cloudy.
Bk. Orpheus, N. 39° 52′, W. 45° 40′	30.04	763.0	74	23.3		wsw.			5		6 ks					mod.	wsw.	fine.
S. Paramita, S. 48° 20′ W. 93° 00′†	28.62	726.9	43	6.1		n; se.			3		9		ne.	mist	mist	con.	var.	cloudy.
Bk. Peppina, Newport, England†	29.96	761.0	65	18.3	78	sse			2		8		s.	rain	rain			raining.
S. S. Ponca, Pernambuco, Brazil†	30.10	764.5	81	27.2		se.			1		9		ese.	3 h'r	3 h'r	mod	se.	cloudy.
S. S. Sunbeam, N. 39° 38′, W. 9° 49′	30.23	767.8	67	19.4	74	nne.			2		0					sm'h	wnw.	blue sky.
Bg. Teneriffe, Cardenas, Cuba, W. I.	30.08	764.0				e.			1		0			0	0			fine.
Bk. Truro, N. 49° 50′, W. 8° 37′*†	29.90	759.4				nw.			5		3		nw.	4 h'r	4 h'r	mod.	w.	fair.
U.S.F.C.S.S.Fish Hawk, St. Jerome Creek, Md†.	30.11	764.8	81	27.2	95	nw.			1		10		calm	0	0			cloudy.
S. S. Victoria J. Peed, Savanilla, U. S. C.						se.			1		7							
Bk. Vincenzo Accame N. 37° 50′, W. 18° 40′†	30.51	775.0	71.6	22.0		s.			1									
Schr Viola Reppard, Brunswick, Ga†	30.04	763.0	82	27.8		sw.			1		8		ne.	0	0			cloudy.
Bkt. Wandering Jew, Boston, Mass†*	29.70	754.4	78	25.6		nw.			3		3		nw.	0	0			clear.
Bk. Warden Law, N. 50° 12′ W 3° 05′*	30.19?	766.8?				w.			4		0?			0	0	sm'h	w.	fair.?
Bg. Wauburn, N. 30° 08′. W. 66° 50′*†	30.00	762.0				sw.			3		3		s.	0	0	sm'h		
Bk. Wm. Wilcox, S. 13° 22′ W. 35° 45′*†	30.33	770.4	78	25.6		sse.			4		5		se.	0	0	sm'h		fair.
S. Wm. Woodbury, N. 36° 46′ W. 52° 32′*	30.01	762.2	77	25.0	95	wsw.			4		6		w.			cross	wnw.	cloudy.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 27, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours			30.04	763.1	79.2	26.2	71	s.			4		7			inap.	inap.	very cloudy	Moiroud.
Algiers			30.06	763.6	77.7	25.4	75	ne.			4		3			0	0	pretty fair	Nicolas.
La Calle			30.01	762.2	77.7	25.4	82	ne.			3		2			0	0	fair	Fonfrède.
Tunis			30.02	762.5															Jacques.
Saida			30.11	764.7	87.4	30.8	27	ne.			2		3			0	0	pretty fair	Peres.
Tebessa			30.10	764.4	90.0	32.2	29	sw.			2		2			0.165	4.2	fair	Derché.
Geriville					95.4	35.2	2	ese.			1		3			inap.	inap.	pretty fair	Lonchamp.
Laghouat			30.13	765.3	95.0	35.0	35	e.			2		0			0	0	clear	Abraham.
Biskra			30.10	764.6	98.6	37.0	20	se.			2		2			0	0	fair	Malau.
Australian.																			
Melbourne, Victoria	30.20	767.2	30.29	769.3	49.6	9.8	88	ssw.	2	0.9			9			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.50	749.3	30.02	762.6	77.9	25.5	50	w.			1		8			0.063	1.6		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.30	744.2	30.04	762.9	75.2	24.0	43	e.	8.7	3.9			7			0.004	0.1		Dr. Wierzbiski.
Eperies	29.19	741.5	30.03	762.8	76.3	24.6	40	n.			1	cs	5 s			0	0		Julius Mikolik.
Gratz	28.87	733.4	30.11	764.8	63.0	17.2	82	ne.			3		10			0	0		Andreas Rospini.
Hermannstadt	28.71	729.3	30.08	764.0	77.4	25.2	45	e.			1		8			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.85	732.8	30.18	766.6	58.8	14.9	68	wnw.			2		10			0.091	2.3	gloomy	The Staff.
Lemberg	29.13	739.9	30.08	763.9	74.5	23.6	45	s.			1		6			0	0		Dr. T. Stanecki.
Pola	29.95	760.6	30.06	763.4	75.9	24.4	62	se.			4		10			0	0		I. R. Hydrographic Office.
Szathmar	29.62	752.3	30.07	763.7	79.3	26.3	36	ne.			2		6			0	0		Joseph Midlinszky, S. J.
Szegedin	29.80	756.9	30.07	763.7	78.4	25.8	36	calm			0		5			0	0		Karl Stancel.
Trieste	29.96	760.9	30.06	763.5	83.8	28.2	38	se.			1		10			0	0		Royal Academy.
Vienna	29.49	749.1	30.21	767.3	57.0	13.9	91	nw.			1		10			0.138	3.5		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.01	762.2	30.11	764.8	58.4	14.7	78	nw.	14	6.3			9			blank	blank	overcast	W. Boswell
Armagh, Observatory																			S. Call.
Bidston, Liverpool Obs'y			30.12	765.0	65.2	18.4	75	w.	18	8.0			0					blue sky	John Hartnup.
Bolton, Sharples	29.56	750.8	30.09	764.3	64.6	18.1	65	w.	18	8.0			0					blue sky	Thomas Mackereth.
Bradford, Yorkshire	29.67	753.6	30.06	763.5	67.8	19.9	51	nw.			2		7			0	0	d. clouds	A.S. J. McLandsborough, F. R
Bridgetown, Barbadoes																			Corpl. J. Surgenor, A. H. C.
Cardington			30.05	763.3	72.4	22.4	61	nw			1.0		4					d clouds	John McLaren.
Chatham, School M. E.	29.97	761.2	30.10	764.5	66.8	19.3	62	calm			0		7					d. clouds	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	30.00	762.0	30.22	767.6	60.9	16.1	70	sw.			2		9					overcast	The Staff.
Fort Napier, Natal	28.13	714.5	30.35	770.9	63.2	17.3	52	e.			3		4					blue sky	Pvt. Lane, A. H. C
Free Town, Sierra Leone	29.74	755.4	29.97	761.2	80.0	26.7	74	w.			1		2					thunder	Sergt. John Robinson.
Gibraltar, Mediterranean	30.06	763.5	30.12	765.0	75.5	24.2	81	ne.			3		9					gloomy	Cpl. O. Baldwin.
Glasgow, Observatory	29.88	758.9	30.09	764.3	66.4	19.1	48	w.			2		2 k					blue sky	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.91	759.7	30.08	764.0	70.4	21.3	53	w.			1		4					d. clouds	The Staff.
Guernsey	29.95	760.7	30.25	768.3	60.0	15.6	70	nw.			1		0					blue sky	A. Collenette, F. M. S.
Kew, Observatory	30.06	763.5	30.10	764.5	67.1	19.5	52	w.	14	6.3			5					hazy	The Staff.
Leicester, Museum	29.81	757.2	30.06	763.5	69.0	20.6	59	nw.			2		2					blue sky	J. C. Smith.
Malta, Mediterranean	29.96	761.0	30.04	763.0	84.0	28.9	46	se.			2		0					blue sky	I. H. Whysall.
Nassau, Bahamas	30.20	767.1	30.25	768.3	85.5	29.7	70	se.			1		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.59	751.6	30.10	764.5	66.5	19.2	59	nw.			3		5					d clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.88	758.9	30.11	764.8	68.3	20.2	54	w.			1		4					d. clouds	The Staff.
Plymouth	30.12	765.0	30.19	766.8	66.5	19.2	77	sw.			3		7					d. clouds	John Merrifield.
Sandwick Manse, Orkneys			30.14	765.5	54.8	12.7	93	n.	14	6.3			8					d. clouds	Rev. C. Clouston, L. L.D
Scutari Cemetery, Turkey	30.02	762.5	30.09	764.3	82.2	27.9	41	ne.			2		1					blue sky	W. H. Lyne.
Sheffield	29.79	756.7	30.06	763.5	67.9	19.9	74	nnw.			2		9			0	0	overcast	W. F. Cooper.
Silloth Rectory	30.06	763.5	30.09	764.3	68.5	20.3	60	w.			2		0			0	0	blue sky	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.11	764.8	65.0	18.3	73	w.	15	6.7			4					d. clouds	J. New.
Stratfield Turgiss	29.91	759.7	30.12	765.0	69.0	20.6	53	w.			3		5					d. clouds	Rev. O. H. Griffiths, F.M.S
Truro, Royal Institution	30.20	767.1	30.21	767.3	67	19.4	74	w.			6		10					gloomy	W. Newcombe.
Valencia, Observatory	29.99	761.7	30.02	762.5	57.6	14.2	89	se.	29	13.0			10			blank	blank	misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.							78	nw.	8	3.6			10 n		nw.	0	0	cloudy	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.39	746.5	29.43	747.5	61	16.1	70	nw.	15	6.7			10 ks		nw.	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.43	747.5	29.49	749.0	65	18.3	80	nw.	17	7.6		0	5 k		w.	0.01	0.3	fair	G. A. Blair.
Father Point, Quebec*	29.59	751.6	29.61	752.1	58	14.4	83	se.	7	3.1		0	8 k		se.	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.18	741.2	30.00	762.0	54	12.2	84	w.	12	5.4		5 k	0			0.103	2.6	fair	A. Allison.
Halifax, N. S*	29.35	745.5	29.48	748.8	64	17.8	63	n.	6	2.7		2 cs	0	calm		0	0	fair	A. P. Knight, M. A.
Kingston, Ontario*	29.66	753.4	29.99	761.7	66	18.9	75	w.	12	5.4		0	0			0.50	12.7	clear	C. H. McLeod, C. E.
Montreal, Quebec*	29.67	753.6	29.87	758.7	64	17.8	84	se.	3	1.3		5 cs	0	w.		0	0	fair	Rev. R. Mosley.
Parry Sound, Ontario*	29.37	746.0	30.05	763.3	62	16.7	70	nw.	5	2.2		0	0			0	0	clear	H. Morgan.
Port Dover, Ontario	29.39	746.5	30.07	763.8	59	15.0	75	nw.	2	0.9		0	0			0	0	clear	M. Payne.
Port Stanley, Ontario	29.44	747.8	30.08	764.0	59	15.0	78	nw.			3	0	2 k		n.	0.11	2.8	fair	Capt. Ashe, R. N.
Quebec, Quebec*	29.45	748.0	29.76	755.9	62	16.7	78	w.	4	1.8		0	0			0	0	clear	W. H. McIntyre.
Rockliffe, Ontario*	29.57	751.1	30.02	762.5	60	15.6	86	w.	2	0.9		0	0			0	0	clear	
Saugeen, Ontario*	29.36	745.7	30.06	763.5	54	12.2	77	nw.	8	3.6		0	0			0.04	1.0	clear	
St. Andrews, N. B	29.56	750.8	29.61	752.1	62	16.7	78	sw.	20	8.9		3 c	3 ks		w.	0	0	fair	T. C. Hill, C. E
Sydney, C. B*	29.27	743.4	29.32	744.7	60	15.6	65	s.	3	1.3		2 cs	0	w.		0	0	clear	Magnetic Observatory.
Toronto, Ontario*	29.68	753.9	30.05	763.3	63	17.2	86	nw.	10	4.5		2 ck	0	w.		0	0	fair	Lt. F. E. Wilmot, R. N
Yarmouth, N. S*	29.57	751.1	29.63	752.6	54	12.2													
Sub-series.																			
Mount Forest	28.68	728.5	30.15	765.8	52.0	11.1	86	calm				0	0			0	0	clear	Wm. Wylie.
St. Johns, Newfoundland	29.93	760.2	30.18	766.6	47	8.3	100	s.	1	0.4			fg.			0.33	8.4	foggy	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.27	768.8	30.30	769.6	65.0	18.3	83	ne.	24.7	11.0		4 c	0			0	0		John Duthie.
Cape Town, C. G. H. Obs'y	30.06	763.5	30.10	764.5	63.1	17.3	58	wnw.	15	6.7		10	10			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Chinese (*Sub-series*).																			
Hankow	29.80	756.9	30.07	763.8	79.5	26.4	78	se.			3		1c			0	0	overcast	N. Titoushkin.
Zi-Ka-Wei, near Shanghai	30.00	762.1	30.03	762.8	72.9	22.7	81	e.	4.9	2.2		10 ck	0			0	0	covered	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	30.00	762.1	30.05	763.3	69.4	20.8	63	ese.	16	7			2						Oversergent Fischer.
Fanöe	29.93	760.3	29.95	760.8	72.9	22.7	62	se.			6		8						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	30.08	764.0	30.12	765.1	46.0	7.8	89	se.			4		5					raining	A. O. Thorlacius.
Thorshavn	30.16	766.0	30.19	766.9	56.5	13.6	82	calm	0	0			7						Overloerer Bergh.
Vestervig	29.95	760.7	30.04	763.0	73.4	23.0	55	e.			6		1						Loearer Oesterbol.
French.																			
Agen, Normal School	29.63	752.6	30.27	768.8	70.2	21.2	74	calm			0	2 c	k		nw.	0	0		M. Labroue, Director.
Alençon, Normal School	29.66	753.4	30.21	767.4	64.4	18	72	s.			1		n	e.	e.	0	0		M. Nicot, Director.
Arras, Engineer School	29.87	758.8	30.13	765.2	64.0	17.8	62	nnw.			8		kn		w.	0.012	0.3		M. Fénéon, Command't.
Avignon, Normal School	30.04	763.0	30.12	765.0	74.1	23.4	44	n.			3					0	0		M. Giraud, Director.
Bar-sur-Seine	29.67	753.7	30.22	767.7	64.0	17.8	58	sw.			1		8		w.	0.138	3.5	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.91	759.7	30.17	766.3	68.2	20.1	55	w.			2		8		w.	0.20	5.	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.33	745.0	30.30	769.7	66.7	19.3	57	ssw.			1	ck	0		ne.	1.02	26.		M. Gobin, Director.
Bordeaux, Observatory	30.01	762.2	30.27	768.8	70.7	21.5	45	n.			1		5			0.004	0.1	cloudy	M. Rayet, Director.
Bourges, Normal School	29.71	754.6	30.26	768.5	65.5	18.6	52	w.			1		k		w.	0	0		M. Postel, Director.
Brest, Naval Observatory	30.04	762.9	30.28	769.1	66.9	19.4	68	sw.			1		5		sw.	0.059	1.5		M. de Kermaree, Dir.
Caen, Normal School	30.11	764.9	30.19	766.8	68.7	20.4	56	ne.			1		5		ne.	0.209	5.3	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.85	758.1	30.16	766.1	61.9	16.6	66	wsw.			4		8	sw.	w.	0.354	9.0	very cloudy.	M. Jadot, Director.
Charleville, Normal School.	29.62	752.4	30.12	765.1	65.5	18.6	60	sw.			4		5			0.24	6.	½ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.90	734.0	30.22	767.7	68.0	20.0	50	nw.			2		5		w.	0.209	5.3	½ covered	M. Alluard, Director.
Cluny, Normal School	29.41	747.0	30.24	768.2	64.8	18.2	78	ne.			1		6		sw.	0.20	5.		M. de Villemontée, Dir.
Commercy, Normal School.	29.34	745.2	30.19	766.9	63.1	17.3	63	w.			3		kn	w.	w.	0.819	20.8		Dr. Coulet, Director.
Gap, Normal School	27.60	701.0	30.04	762.9	73.6	23.1	26	ne.			2	o	3 s		nw.	0	0		M. Jeanglrard, Director.
Gréasque, du Rhone	28.97	735.9	30.05	763.2	78.8	26	24	nw.			3		2		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.41	747.0	30.16	766.0	68.7	20.4	53	wnw.			3	ck	0			0	0		M. Ablard, Director.
Guéret, Normal School	28.66	728.0	30.24	768.1	61.7	16.5	90	w			1		2		e.	0	0	slightly cl'dy	M. Rivoire, Director.
Lamballe, Normal School.	30.02	762.6	30.30	769.6	65.3	18.5	67	nw.			1		5		nw.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.69	754.0	30.24	768.2	67.6	19.8	57	n.			1		5			0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	30.20	767.1	30.30	769.7	66.2	19.0	66	wsw.			1		8		w.	0.512	13.0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.20	741.7	30.24	768.2	65.7	18 7	48	nne.			1		5 n		nnw.	0.177	4.5	cloudy	M. André, Director.
Mans, Normal School	29.95	760.6	30.25	768.4	63.1	17.3	59	nw.			1		2		w.	0	0	slightly cl'dy	M. Piboen, Director.
Marseille, Observatory	29.82	757.4	30.08	764.1	76.5	24.7	47	wnw.			4		2		wnw.	0	0		M. Stephan, Director.
Montlouis	25.08	636.9	29.92	759.9	64.4	18.0	53	e.	7.4	3.3			0			0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.99	761.8	30.12	765.0	81.0	27.2	25	nne.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.43	747.4	30.20	767.0	60.8	16.0	63	ssw.			1		k		nw.	0.441	11.2		M. Hasse, Director
Nantes, Observatory	30.14	765.5	30.30	769.6	68.0	20.0	58	wnw.			1–2	c	7 k; kn		wnw.	0.283	7.2		M. Larocque, Director.
Perpignan, Observatory	30.08	763.9	30.18	766.5	77.4	25.2	30	nw.	9.4	4.2			1			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit.	21.49	545.8			51.4	10.8		w.			1		1		w.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.13	739.8	30.17	766.2	70.2	21.2	40	ne.			1		0			0	0	clear	M. Taillen.
Puy de Dôme Obs'y, Summit	25 37	644.5			45.7	7.6	84	wnw.			3		5		wnw.	0.106	2.7	½ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	30.30	769.6	30.33	770.4	77.0	25.0	82	wsw.			1		5	wsw.		0	0	½ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.06	763.5	30.25	768.4	66.0	18.9	66	wnw.			1		5		sw.	0.20	5.	cloudy	M. Mouillot, Director.
Rodez, Normal School	28.16	715.3	30.27	768.8	66.6	19.2	45	w.			1	c	0			0	0		M. Seger, Director.
Rouen, Normal School	30.13	765.4	30.18	766 6	66.2	19	66	sw.			1		5	sw.		0	0	cloudy	M. Brotier.
Saint Maur, Observatory	30.04	763.1	30.20	767.0	65.5	18.6	59	sw.			2		10		w.	0.028	0.7		M. Renou, Director.
Toulouse, Observatory	29.58	751.4	30.31	769.9	71.6	22.0	49	n.			1		1	nw.		0	0	clear	M. Baillaud, Director.
Tours	30.07	763.7	30.24	768.2	65.1	18.4	60	wsw.			1		5		wsw.	0.110	2.8	cloudy	M. de Tastes.
Versailles, Observatory	29.72	754.9	30.21	767.4	63.3	17.4	59	w.			2					0	0		Dr. A. Bergny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.93	760.1	30.22	767.5	61.5	16.4	66	w.			2		10		w.	0.016	0.4		M. Marié Davy, Director
German.																			
Bamberg	29.28	743.6	30.13	765.4	62.1	16.7	67	w.			3	o	7 k		w.	0.323	8.2	raining	Prof. Dr. Hoh.
Berlin	29.98	761.5	30.16	766.0	62.2	16.8	67	sw.			2		10			0.024	0.6		Prof. Dr. Arndt.
Breslau	29.54	750.2	30.17	763.7	73.4	23.0	44	sse.			2		10			0	0		Royal University Obs'y.
Carlsruhe	29.72	755.0	30.15	765.9	65.1	18.4	60	sw.			6		9	sw.		0	0		Albert Senz.
Cassel	29.32	744.8	30.04	762.9	63.1	17.3	90	s.			4		10	s.		1.612	41.2	thnd'r str'm	Dr. H. Möhl.
Frankfort-on-the-Main	29.74	755.5	30.11	764.7	64.0	17.8	70	w.			2		10			0.492	12.5		Physical Society.
Friedrichshafen	28.76	730.6	30.08	766.5	64.8	18.2	61	sw.			4		3	wsw.		0	0		Wilhelm, Chief Tel.
Hamburg	29.91	759.6	30.00	762 0	60.6	15.9	84	se.			2		10			0.201	5.1		E. Preller.
Kiel	29.95	760.6	29.96	761.0	68.7	20.4	63	s.			2		10			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.64	752.8	30.05	763.2	68.0	20.0	64	ssw.			4		9	sw.		0.362	9.2		H. Leppig, Asst.
Magdeburg	29.84	757.8	30.02	762.6	61.5	16.4	78	w			1	o	7 ks		w.	0.307	7.8		Dr. Assmann.
Memel	30.11	764.9	30.16	766 1	72.7	22.6	61	nw.			2	o	4 k						Issermann.
Munich	28.37	720.6	30.24	768.2	62.1	16.7	54	nw.			2		6	sw.		0.484	12.3		Central Station.
Neufahrwasser	30.09	764.3	30.11	764.7	72.7	22.6	56	ne.			1		3	ese.		0	0		A. Lothes.
Neustadt, Palatinate	29.57	751.0	30.10	764.5	65.8	18.8	64	w.			3		6	w.		0.276	7.0		Dicknether.
Stuttgart	29.21	741.9	30.08	764.1	66.2	19.0	48	w.			3		7	w.		0	0		Prof. Dr. Schoder.
Wustrow	29.99	761.7	30.02	762.4	63.5	17.5	94	se.			5		10 s			1.425	36.2		Profs. Brandes & Reimer
Greek.																			
Athens	29.72	755.0			82.0	27.8		sw.			2.5		0			0	0	clear	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.62	752.4	29.67	753.7	87.2	30.7	79	wsw.	39.0	17.4			4		w.	0	0	misty	
Deesa	29.12	739.5	29.57	751.1	99.1	37.3	30	wsw.	15.6	7.0			3	sw.	sw.	0	0	d. clouds	
Bombay	29.74	755.3	29.77	756.2	83.9	28.8	85	wsw.	18 0	8.0			10	wsw.	w.	0.37	9.4	overcast	
Poona, Yarrowda	27.90	708.6	29.75	755.7	78.3	25.7	63	wsw.	19.0	8.5			10		w.	0	0	overcast	
Trichinopoly	29.50	749.2	29.77	756.2	92.2	33.4	45	n.	4.0	1.8			10			0	0	overcast	
Bellary	28.25	717.6	29.68	754.0	92.0	33.4	37	w.	11.2	5.0			10	sw.		0	0	gloomy	
Belgaum	27.23	691.6	29.78	756.4	71.4	21.9	88	sw.	8.0	3.6			9	e.	sw.	0.06	1.5	drizzling	
Lahore	28.69	728.7	29.38	746.2	109.3	42.9	21	w.	1.7	0.8			2			0	0	misty	
Roorkee	28.58	725.9	29.44	747.7	96.3	35.7	47	e.	2.7	1.2			4			0.07	1.8		
Agra	28.94	735.2	29.49	749.0	95.6	35.3	51	se.	5.3	2.4			4		se.	0.06	1.5	d. clouds	
Nagpur	28.62	726.9	29.66	753.4	76.5	24.7	93	sw.	4.9	2.2			10		w.	0.10	2.5	drizzling	
Jubbulpore	28.26	717.8	29.60	751.9	81.9	27.7	75	calm	3.9	1.7			10		n.	0	0	overcast	
Lucknow	29.16	740.6	29.52	749 8	95.0	35.0	51	calm	1.7	0.8			0			0	0	blue sky	
Allahabad	29.22	742.0	29.52	749.7	91.7	33.2	58	e.	2.5	1.1			10		e.	0	0	overcast	
Patna	29.44	747.7	29.62	752.3	89.6	32.0	73	ssw.	2.7	1.2			8	ssw.	ssw.	0.47	11.9	d. clouds	
Hazaribagh	27.63	701.7	29.64	752.8	73.8	23.2	75	sw.	7.4	3.3			10		sw.	0.17	4.3	thnd'r storm	
Cuttack	29.57	751.1	29.66	753.2	82.0	27.8	78	sse.	7.6	3.4			10					drizzling	
Calcutta, Alipore	29.61	752.2	29.64	752.7	83.5	28.6	79	ssw.	3.0	1.3			8	s.	s.	0.01	0.3	d. clouds	
Dhubri	29.57	751.1	29.69	754.0	75.9	24.4	98	calm	4.0	1.8			10			3.12	79.2	raining	
Chittagong	29.63	752.6	29.72	754.9	83.9	28.8	73	s.	3.8	1.7			3			0	0	blue sky	
Sibsagar	29.37	746.0	29.70	754.4	86.4	30.2	76	ene.	1.8	0.8			10	w.	w.	1.04	26.4	d. clouds	
Jeypore	28.11	714.1	29.49	749.0	100.9	38.3	32	w.	8.7	3.9			5		w.	0	0	d. clouds	
Zanzibar, Africa	30.07	763.8			83.4	28.6	55	sse.	10.3	4.6			3		se.	0	0	d. clouds	
Italian.																			
Udine	29.66	753.3	30.05	763.3	78.8	26.0	65	s.	2.5	1.1			9			0	0		Prof. Giovanni Clodig.
Milan	29.52	749.7	30.01	762.3	79.2	26.2	44	ne.	3.1	1.4			6	wsw.		0	0		Prof. Schiaparelli.
Padua	29.91	759.8	30.02	762.5	80.8	27.1	41	nnw.	2.5	1.1			7	w.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.12	739.6	29.99	761.7	79.0	26.1	53	e.	3.8	1.7			8	se.		0	0		Prof. P. F. Denza.
Genoa	29.85	758.3	30.04	763.0	73.9	23.3	74	se.	15.0	6.7			8	se.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.13	714.6	29.97	761.2	75.9	24.4	59	n.			2		8			0	0		Prof. D. O. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Pesaro	29.96	761.0	30.01	762.2	87.4	30.8	36	w.	13.0	5.8			3			0	0		Prof. Luigi Guidi.
Florence	29.79	756.6	30.04	762.9	83.1	28.4	37	nw.			2		5	wsw.		0	0		Prof. Costantino Pitter
Leghorn	29.93	760.2	30.01	762.3	78.6	25.9	69	s.	4.9	2.2			8			0	0		Prof. P. Monte.
Rome	29.93	760.3	30.10	764.6	86.5	30.3	25	sw.	12.5	5.6			2			0	0		Prof. P. S. Ferrari.
Lecce	29.87	758.8	30.12	765.0	89.2	31.8	20	nne.	9.4	4.2			0			0	0		Prof. C. de Giorgi
Cosenza	29.24	742.8	30.10	764.5	86.4	30.2	73	ssw.	1.8	0.8			0			0	0		Prof. D. Conti.
Cagliari	29.84	757.8	30.02	762.6	79.0	26.1	55	se.			4		5			0	0		Prof. A. Pacinotti.
Palermo	29.91	759.6	30.15	765.8	80.6	27.0	51	ne.	7.4	3.3			0			0	0		Prof. G. Ciacciatore.
Syracuse	30.07	763.7	30.11	764.8	82.4	28.0	58	s.	4.3	1.9			0			0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.61	752.2	30.12	765.0	81.9	27.7	53	e.	1.3	0.6			0			0	0		Prof. T. Brioschi.
Stelvio	22.28	565.9			46.4	8.0	71	w.			6		10			0.390	9.9	misty	Prof. P. F. Denza.
Valdobbia	22.35	567.6			52.3	11.3	29	n.			6		4			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.94	760.5	29.97	761.2	60.1	15.6	79	w.	4.8	2.1			10 ks			0	0	overcast	K. Ogawa.
Hakodate	29.93	760.2	29.94	760.5	56.2	13.4	86	nnw.	3.0	1.3			1			0	0	clear	
Hiroshima, I. M. Obs'y	29.91	759.7	29.93	760.2	72.8	22.7	83	wsw.	1.4	0.6		10ck;cs	0			0	0	overcast	I. Sogawa.
Kanazawa	29.81	757.2	29.91	759.7	64.6	18.1	85	nnw.	2.3	1.0		ck	10 ks			0	0	overcast	S. Endo.
Kioto	29.81	757.2	29.98	761.5	69.1	20.6	76	e.	4.3	1.9		8 cs	1 s	w.		0	0	cloudy	M. Tojima.
Kochi	29.99	761.7	30.01	762.2	72.7	22.6	92	ene.	3.4	1.5		8ck;cs	0	w.		0	0	fair	K. Kusunose.
Nagasaki, I. M. Obs'y	29.79	756.6	29.98	761.5	70.7	21.5	83	ne.	1.1	0.5		6 ck	0			0	0	cloudy	S. Takehayashi.
Nemuro	29.81	757.2	29.86	758.4	49.5	9.7	100	calm	0	0		10	0			0	0	cloudy	
Niigata	29.98	761.5	30.01	762.2	64.8	18.2	90	nne.	2.3	1.0		ck	10 s		sw.	0.020	0.5	covered	M. Morita.
Nobiru	29.94	760.5	29.96	761.0	64.6	18.1	88	ene.	7.4	3.3			10ks;n			0.010	0.2	overcast	H. Midxushina.
Supporo					56.0	13.3	90	calm	0	0			5			0.068	1.7	overcast	
Tokei Obs'y, Yeddo	29.85	758.2	29.92	759.9	69.3	20.7	92	e.	3.9	1.7		7 cs	0	ene.		0	0	fair	The Staff.
Wakayama	29.93	760.2	29.98	761.5	70.7	21.5	85	ene.	0.1	0.04		10 ck	0	w.		0	0	cloudy	Y. Kuwamuea.
MAURITIUS																			
Mauritius Observatory	29.92	760.0	30.11	764.8	70.2	21.2	69	se.	17.5	7.8		0	8 ks;n		ssw.	0	0	cloudy	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.72	602.5	29.94	760.5	60.3	15.7	79	ne.	4.0	1.8			10 kn		ne.	0.512	13.0	cloudy	Prof. Vicente Fernandez.
Leon	24.39	619.5	30.03	762.7	59.0	15.0	93	calm	0	0		8 c	2 k	sw.	sw.	0.124	3.2	covered	Prof. M. Leal.
Mazatlan	29.69	754.1	29.95	760.6	77.5	25.3	86	ene.	1.6	0.8		1 cs	1 k			0.079	2.0	clear	F. Quijano, C. E.
Mexico, Central Obs'y	23.16	588.3	30.20	767.1	54.3	12.4	86	n.	1.6	0.7		1 c	9 k		sw.	0.477	12.1	covered	The Staff.
Morelia	24.29	617.0	30.37	771.4	62.2	16.8	54	se.			2	3	4	s.	s.	0.402	10.2	cloudy	M. Tena, M. D.
Pabellon, Aguascalientes	23.98	609.1	29.90	759.4	63.1	17.3	91	calm			0		10 kn		ese.	0.090	2.2	covered	M. V. de Leon, M. E
Puebla, Catholic Institute	23.44	595.4	30.18	766.5	53.6	12.0	77	calm	0	0			8		n.	0.778?	4.5?	covered	Prof. P. Spina.
San Luis Potosi	24.32	617.7	30.27	768.9	60.1	15.6	68	sse.					10		e.	0	0	covered	G. Barroeta, M. D.
Zacatecas	22.61	574.3	30.21	767.3	54.0	12.5	95	nne.	7.2	3.2			10			0.110	2.8	covered	J. A. Bonilla, M. E
NETHERLANDS.																			
Flushing	30.06	763.6	30.06	763.6	64.4	18.0		w.			4					0	0		
Groningen	29.87	758.6	29.92	760.0	59.2	15.1		sw.			3					1.323	33.6		
Helder	29.84	757.8	29.84	757.8	55.8	13.2		sw.			5					0.232	5.9		
Hellevoetsluis	30.02	762.5	30.02	762.5	58.6	14.8	84	w.			3					0	0		
Utrecht	29.95	760.6	29.99	761.8	58.5	14.7	89	wsw.			4		8			0.980	24.9	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	30.07	763.8	30.13	765.4	78.1	25.6	36	nw.	4	2			2			0	0		
Brono	30.06	763.6	30.10	764.6	64.0	17.8	67	nne.	18	8			0			0	0		
Christiania	29.99	761.8	30.13	765.3	79.5	26.4	35	sw.	0	0			1			0	0		
Gjæsvær	30.07	763.8	30.10	764.4	41.9	5.5		nw.			7		10					foggy	
Lodingen	30.12	765.0	30.17	766.2	58.1	14.5	63	ne.			6		0			0	0		
PORTUGUESE.																			
Angra, Azores					71.6	22.0	81	nnw.	4.9	2.2			3			0	0		
Campo Major	29.07	738.4	30.01	762.3	89.8	32.1	14	s.	4.3	1.9			0			0	0		Dr. J. A. Sampaio.
Funchal, Maderia	30.20	767.0	30.28	769.2	71.2	21.8	62	sw.	4.3	1.9			9			0	0		Dr. A. M. R. dos Santos.
Lisbon, Observatory	29.78	756.3	30.13	765.2	77.0	25.0	47	nnw.	10.5	4.7			0			0	0		Capt. D. A. de Cunha.
Ponta Delgada, Azores	30.17	766.2	30.24	768.0	75.9	24.4	71	sw.	3.1	1.4			4			0	0		The Staff.
Saint Paul de Loando	29.86	758.5	30.07	763.7	72.5	22.5	87	s.	0.7	0.3			9			0	0		
Serra da Estrella	25.47	646.9	30.03	762.8	67.6	19.8	32	sse.	17.4	7.8			0			0	0		
RUSSIAN.																			
Akmolinski	28.55	725.1	29.58	751.2	70.0	21.1	51	sw.	11	5		0	5 kn			0.043	1.1		
Archangel	29.90	759.5	29.92	760.0	46.9	8.3	74	w.	4	2			10			0	0		Major K. Lasarew.
Astrakhan	30.01	762.2	29.93	760.1	83.3	28.5	39	sse.	11	5		cs	4 s			0	0	light clouds	Capt. Sseliwerstow.
Barnaul	29.28	743.6	29.75	755.7	69.1	20.6	51	s.	9	4			4			0	0		Capt. Wisganow.
Dorpat	29.82	757.5	30.05	763.3	84.2	29.0	39	nnw	7	3			10			0	0	hazy	Meteorological Obs'y.
Ekaterinburg	28.66	727.9	29.61	752.2	40.4	8.0	46	wnw.	9	4			10			0.039	1.0		Observatory.
Irkutsk	28.17	715.5	29.72	754.8	76.5	24.7		calm	0	0			7			0	0		Meteorological Obs'y.
Kasan	29.49	749.1	29.75	755.7	65.7	18.7	31	nw.	7	3		ck	10 k			0	0		Observatory.
Kertch	29.87	758.8	29.89	759.3	70.3	21.3	74	s.	4	2		0	8 n			blank	blank		Lagorio & Sastyrez.
Kieff	29.34	745.2	29.95	760.6	74.7	23.7	40	nne.	4	2		ck	3 ks			0.126	3.2		Observatory.
Lugan	29.63	752.5	29.83	757.6	69.6	20.9	80	wnw.	2	1			8			0.311	7.9		Meteorological Obs'y
Moscow	29.47	748.4	29.91	759.8	73.9	23.3	36	n.	7.8	3.5			2 k						Meteorological Obs'y.
Nikolaiev	29.89	759.2	29.96	761.0	72.3	22.4	63	n.	4	2		0	3 k			0.094	2.4		Capt. Kurdakow.
Nikolnievsk, on the Amoor	29.86	758.5	29.95	760.7	53.1	11.7	84	e.	7	3			10			0.106	2.7	light rain	Lieut. Iwanow.
Pekin, China	29.74	755.4	29.88	759.0	82.0	27.8	49	calm	0	0		0	1 ks			0	0		Physical Observatory
St. Petersburg	29.93	760.2	29.95	760.6	76.3	24.6	45	nw.	18	8		0	1 k			0	0		Central Physical Obs'y
Semipalatinsk	29.18	741.2	29.80	757.0	75.6	24.2	33	calm	0	0		4 c	0			0	0		Major Lasarew.
Tashkend, Laboratory	28.34	719.8	29.81	757.1	86.2	30.1	36	calm	0	0			0						Teich, A. M.
Tiflis	28.50	723.9	29.82	757.4	92.3	33.5	33	s.	2	1		0	2 ks			0	0		Physical Observatory
Vladivostock	29.80	756.9			61.5	16.4	86	se.	22	10		0	6 ks						
Warsaw	29.69	754.0	30.09	764.3	75.4	24.1	46	s.	4	2			10 ks						Astronomical Obs'y
Wilna	29.69	754.0	30.08	764.1	79.3	26.3	40	nw.	2	1			4			0	0		Berg, Assistant.
SPANISH.																			
Barcelona, Met. Obs'y	30.04	763.0	30.14	765.6	74.1	23.4	66	s.	4.0	1.8			0			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.18	766.5	30.24	768.0	77.0	25.0	52	nw.	2.9	1.3		0	0			0	0	clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.24	691.9	30.08	764.1	74.3	23.5	34	ne.	8.7	3.9			0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.92	709.1	30.01	762.2	88.9	31.6	39	e.	4.5	2.0		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.97	761.3	30.11	764.9	79.7	26.5	65	ene.	7.4	3.3		0	3			0	0	almost clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.21	741.9	30.07	763.7	77.5	25.3	51	calm	0	0			0			0	0	clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	30.07	763.7	30.13	765.4	78.3	25.7	80	e.	4.0	1.8		0	0			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.79	756.7	29.85	758.2	79.7	26.5	85	e.	2.2	1.0			9 kn		se.	0.945	24.0	threatening	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.99	761.7	30.08	764.1	83.7	28.7	45	ese.	19.9	8.9		4	0	w.		0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.06	763.5	30.15	765.8	82.0	27.8	82	e.	10.3	4.6		2 cs	3 k	e.	e.	0.008	0.2		Manuel Maese.
Tuguegarao, Philippine Id's	29.74	755.4	29.88	758.9	75.6	24.2	93	nw.	2.7	1.2		6 cs	4 kn	e.	ene.	0.15	3.8	raining	José L. Yrastorza.
SWEDISH																			
Haparanda	29.92	760.0	29.96	761.0	77.4	25.2	35	n.			4		0			0	0		
Umea	29.90	759.4	29.95	760.7	89.2	31.8	27	s.			4		2			0	0		
Hernosand	29.93	760.3	29.98	761.6	86.7	30.4	32	s.			2		2			0	0		
Stockholm	29.97	761.3	30.15	765.8	79.9	26.6	27	wnw.			2		0			0	0		
Wisby	30.09	764.3	30.15	765.8	73.0	22.8	43	nne.			2		0			0	0		
Sub-series.																			
Upsala	30.04	762.9	30.12	765.1	80.8	27.1	34	wsw.	8.3	3.7			1		w.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.80	731.4	30.18	766.5	69.4	20.8	48	sw.			2					0	0	clouds	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Scottish.																			
Monach Lt			30.11	764.8	56	13.3	93	e.			3	0	0			0	0		J. Youngclause.
North Unst			30.18	766.6				e.			0.2	0	0						
Turkish.																			
Constantinople			30.15	765.8	73.6	23.1	39	ne.	9	4.0			1		ne.	0	0		The Observatory.
Valona			30.27	768.9	79.7	26.5		s.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.88	759.0	80.1	26.7	61	nw.			1	0	0			0	0		Prof. C. V. A. van Dyck.
United States.																			
Albany, New York	29.85	758.2	29.93	760.2	71	21.7	57	nw.	12	5.4		0	0			0	0	clear	J. O. Barnes.
Alpena, Michigan	29.42	747.3	30.07	763.8	57	13.9	74	nw.	3	1.3		0	0			0	0	clear	Jas. J. Fitzgerald.
Atlanta, Georgia	28.98	736.1	30.13	765.3	77.5	25.3	75	w.	6	2.7		9 k	0	w.		0	0	cloudy	H. Hall.
Atlantic City, New Jersey	29.97	761.2	29.98	761.5	71.3	21.8	59	nw.	7	3.1		0	0			0.38	9.7	clear	Jas. M. Watson.
Augusta, Georgia	29.93	760.2	30.12	765.0	80	26.7	82	calm	0	0		8 k	0			0.04	1.0	cloudy	John Healy.
Baltimore, Maryland	30.00	762.0	30.06	763.5	76	24.4	48	nw.	5	2.2		1 cs	0			inap.	inap.	clear	Robert Seyboth.
Barnegat, New Jersey	29.94	760.5	29.96	761.0	70.0	21.1	63	nw.	15	6.7		0	0			0.21	5.3	clear	Chas. F. Merritt.
Behring Island, Behring Sea	29.84	757.9	29.86	758.4	40.2	4.6		sw.	8	3.6			fg			0	0	dense fog	Dr. L. Steineger.
Bismarck, Dakota	28.18	715.8	29.93	760.2	61	16.1	93	calm	0	0			10 s			0.26	6.6	cloudy	Cyrus Cramer.
Boise City, Idaho	27.06	687.3	29.84	757.9	58	14.4	77	w.	4	1.8		0	6 s		calm	0.02	0.5	fair	B. E. Light.
Boston, Massachusetts	29.71	754.6	29.86	758.4	69.0	20.6	54	w.	12	5.4		0	0			0	0	clear	O. B. Cole.
Brownsville, Texas	30.00	762.0	30.04	763.0	81.0	27.2	85	se.	2	0.9		2 c	0	calm		0.02	0.5	clear	M. McCarty.
Buffalo, New York	29.33	745.0	30.07	763.8	63.5	17.5	72	sw.	8	3.6		0	0			0	0	clear	Wm. Finn.
Burlington, Vermont	29.59	751.6	29.88	758.9	65.5	18.6	67	nw.	11	4.9		0	1 ks		nw.	0.01	0.3	clear	G. O. Schaeffer.
Cairo, Illinois	29.75	755.6	30.14	765.5	73.8	23.2	92	se.	3	1.3		9 ck	0	w.		0.27	6.9	cloudy	W. H. Ray.
Campo, California	27.36	694.9	29.84	757.9	46.6	8.1	71	s.	2	0.9		6 ck	3 s			0	0	cloudy	W. H. Olendenon.
Camp Thomas, Arizona	27.13	689.1	29.76	755.9	78	25.6	41	ne.			1	1 ck	2 ks			0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.00	762.0	30.02	762.5	78	25.6	76	nw.	14	6.3		2 k	3 k		nw.	0	0	fair	A. K. Alderson.
Cape May, New Jersey	29.96	761.0	29.99	761.7	72	22.2	66	nw.	16	7.2		0	0			0.13	3.3	clear	W. Bolton.
Cedar Keys, Florida	30.13	765.3	30.15	765.8	83	28.3	67	sw.	3	1.3		2 c	0			0	0	clear	F. W. Mixer.
Champaign, Illinois	29.25	742.9	30.04	763.0	70.3	21.3	84	e.	6	2.7		7 k	0	nw.		0.01	0.3	fair	L. A. Welsh.
Charleston, S. Carolina	30.02	762.5	30.07	763.8	79	26.1	82	w.	7	3.1		0	9 s		w.	0.85	21.6	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.21	741.9	30.04	763 0	77.0	25.0	76	w.	2	0.9		0	hz.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.33	745.0	30.14	765.5	76.0	24.4	85	w.	2	0.9		9 ck	fg.	n.		0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.09	611.9	29.83	757.7	58.7	14.8	93	sw.	1	0.4		5 c	0	w.		0	0	fair	E. McGovern.
Chicago, Illinois	29.36	745.7	30.05	763.3	67.0	19.4	73	se.	4	1.8		10 k	0	sw.		0	0	cloudy	J. Mitchell.
Chincoteague, Virginia	29.99	761.7	30.01	762.2	75	23.9	71	n.	16	7.2		5 c	hz.	w.		0	0	fair	V. P. Temple.
Cincinnati, Ohio	29.45	748.0	30.10	764.5	76.8	24.9	79	w.	2	0.9		1 c	0			0.08	2.0	clear	R. B. Watkins.
Cleveland, Ohio	29.37	746.0	30.10	764.5	64.9	18.3	73	se.	3	1.3		0	0			0	0	clear	J. B. Newlin.
Coleman City, Texas	28.27	718.0	30.02	762.5	73	22.8	76	se.	10	4.5		0	0			0	0	clear	L. Dorman.
Columbus, Ohio	29.24	742.7	30.08	764.0	71	21.7	82	nw.	2	0.9			10 ks		w.	0	0	cloudy	D. Cuthbertson.
Concho, Texas	28.13	714.5	30.00	762.0	74	23.3	82	s.	12	5.4		0	0			0	0	clear	W. W. McConthe.
Davenport, Iowa	29.37	746.0	30.01	762.2	70	21.1	90	se.	4	1.8			10 s		se.	0.01	0.3	cloudy	R. R. Martin.
Dayton, Washington T'y	28.14	714.7	29.88	758.9	50.7	10.4	88	calm	0	0		0	2 s			0	0	clear	H. Clifford.
Deadwood, Dakota	25.42	645.7	29.85	758.2	54	12.2	86	calm	0	0		0	0			0.01	0.3	clear	G. W. Scott.
Decatur, Texas																			D. J. Carr.
Delaware Breakwater, Del.	29.99	761.7	30.01	762.2	70	21.1	78	n.	5	2.2		3 c	hz.	sw.		inap.	inap.	clear	F. C. Pratz.
Denison, Texas	29.26	743.2	30.04	763.0	77.0	25.0	76	sw.	7	3.1		0	0			0	0	clear	J. McGlone.
Denver, Colorado	24.77	629.1	29.81	757.2	62.5	16.9	87	nw.	3	1.3			10 s;k		calm	0	0	cloudy	F. M. Neal.
Des Moines, Iowa	29.12	739.6	30.00	762.0	69	20.6	90	s.	4	1.8			10 s		s.	0.04	1.0	threatening	F. W. Conrad.
Detroit, Michigan	29.40	746.7	30.09	764.3	65.9	18.8	68	n.	2	0.9		3 cs	0	w.		0	0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.38	695.4	29.89	759.2	73	22.8	73	s.	8	3.6		2 cs	0			0	0	clear	E. A. Thomas.
Dubuque, Iowa	29.32	744.7	30.01	762.2	67.8	19.9	90	se.	3	1.3			10 s		s.	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.31	744.5	30.00	762.0	62	16.7	78	calm	0	0			10 s		calm	0	0	threatening	N. B. Conger.
Eagle Pass, Texas	29.24	742.7	30.03	762.7	78.1	25.6	77	se.	7	3.1		0	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.21	640.3	29.80	756.9	46	7.8	66	calm	0	0		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.54	750.3	29.61	752.1	65.0	18.3	68	nw.	16	7.2		0	0			0.05	1.3	clear	D. C. Murphy.
El Paso, Texas	26.24	666.5	29.83	757.7	69	20.6	61	calm	0	0		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.37	746.0	30.09	764.3	66	18.9	55	calm	0	0		0	0			0	0	clear	Peter Wood.
Escanaba, Michigan	29.36	745.7	30.01	762.2	62.5	16.9	69	se.	3	1.3		6 k	2 s	w.		0	0	cloudy	C. Dill.
Fort Apache, Arizona	25.01	635.2	29.76	755.9	52	11.1	52	e.	5	2.2			10 s		calm	0	0	cloudy	W. C. Barnes.
Fort Assinnaboine, Montana	27.12	688.8	29.91	759.7	55	12.8	80	n.	4	1.8		0	8 s		w.	inap.	inap.	cloudy	B. O. Lenoir.
Fort Bennett, Dakota	28.35	720.1	29.89	759.2	63	17.2	93	se.	5	2.2		2 k	2 k	se.	se.	0.33	8.4	fair	A. Pritchard.
Fort Benton, Montana	27.15	689.6	29.92	760.0	55	12.8	83	s.	2	0.9		2 c	0			0	0	clear	G. W. Davis.
Fort Buford, Dakota	28.04	712.2	30.00	762.0	54	12.2	80	ne.	4	1.8		3 cs	0	calm		0.36	9.1	clear	A. H. Bell.
Fort Custer, Montana	26.77	679.9	29.83	757.7	60	15.6	78	se.	6	2.7		0	0			0	0	clear	V. Verge.
Fort Davis, Texas	25.19	639.8	29.80	756.9	70	21.1	59	se.	4	1.8		0	0			0	0	clear	J. Williams.
Fort Elliott, Texas	27.25	692.1	29.92	760.0	70	21.1	66	s.	8	3.6		0	0			0	0	clear	W. J. Cundall.
Fort Grant, Arizona	25.21	640.3	29.75	755.6	69.9	21.1	44	se.	2	0.9		1 c	7 s			0	0	cloudy	Robert C. Lord.
Fort Keogh, Montana	27.46	697.5	29.89	759.2	55	12.8	86	ne.	3	1.3		0	0			0	0	clear	W. B. Stockman.
Fort Macon, North Carolina	29.99	761.7	30.00	762.0	78	25.6	82	nw.	9	4.0		2 cs	hz.			0.55	14.0	clear	W. W. Thomas.
Fort McKavett, Texas	27.86	707.6	30.06	763.5	73	22.8	82	se.	8	3.6		0	0			0	0	clear	J. E. Thatcher.
Fort Missoula, Montana	26.64	676.6	29.90	759.4	55	12.8	69	s.	2	0.9		5 k	0			0	0	fair	J. H. Jones.
Fort St. Michaels, Alaska	29.67	753.6	29.70	754.4	58.5	14.7	79	s.	16	7.2			10 ks		s.	0	0	cloudy	A. P. Leavitt.
Fort Shaw, Montana	26.34	669.0	29.91	759.7	52	11.1	74	w.	4	1.8		6 cs	0			0	0	fair	A. L. Mathews.
Fort Sill, Indian Territory	28.81	731.8	30.01	762.2	75.5	24.2	77	s.	4	1.8		0	0			0	0	clear	T. Cleary.
Fort Smith, Arkansas	29.60	751.8	30.06	763.5	79.5	26.4	82	calm	0	0		0	0			0	0	clear	J. B. Campbell.
Fort Stevenson, Dakota	28.14	714.7	29.94	760.5	57	13.9	93	se.	1	0.4			fg.			0.04	1.0	dense fog	W. Burrows
Fort Verde, Arizona					70.2	21.2	35	sw.			1	0	0			0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.49	622.0	29.87	758.7	50.2	10.1	80	w.	4	1.8		3 c;k	0	sw.		inap.	inap.	clear	T. M. Ambler.
Fredericksburg, Texas	28.35	720.1	30.03	762.7	72	22.2	90	sw.	8	3.6		0	0			0	0	clear	H. S. Miles.
Galveston, Texas	30.05	763.3	30.10	764.5	83	28.3	77	sw.	9	4.0		1 c	3 ks	se.		0	0	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.43	747.5	30.08	764.0	69.0	20.6	61	se.	2	0.9		5 cs	0	w.		0	0	fair	W. A. Reid.
Hatteras, North Carolina	29.98	761.5	30.00	762.0	80	26.7	79	nw.	15	6.7		hz.	0			0	0	clear	R. M. Crawford.
Helena, Montana	25.77	654.5	29.89	759.2	55	12.8	64	s.	3	1.3		6 c	0			inap.	inap.	fair	S. Wheaton.
Henrietta, Texas	29.07	738.4	30.05	763.3	81.0	27.2	69	s.	6	2.7		0	0			0	0	clear	J. W. Byram
Huron, Dakota	28.58	725.9	29.92	760.0	64.7	18.2	84	e.	9	4.0		3 cs	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.30	744.2	30.08	764.0	76	24.4	69	nw.	1	0.4		5 k	0	w.		0.04	1.0	fair	O. Schutze
Indianola, Texas	30.05	763.3	30.08	764.0	80.0	26.7	88	s.	5	2.2		0	2 ks		s.	0	0	clear	I. A. Reed.
Jacksboro, Texas	28 90	734.0	30.02	762.5	77	25.0	76	s.	12	5.4		0	0			0	0	clear	J. P. Sherry.
Jacksonville, Florida	30.12	765.0	30.16	766.1	83	28.3	74	sw.	1	0.4		2 cs	0			0.45	11.4	clear	J. W. Smith.
Keokuk, Iowa	29.40	746.7	30.04	763.0	71.0	21.7	94	se.	2	0.9			10 n		w.	0.04	1.0	thnd'r str'm	F. Z. Gosewisch
Key West, Florida	30.11	764.8	30.13	765.3	84.0	28.9	67	se.	5	2.2		0	4 k		se.	0.01	0.3	fair	R. H. Paxton.
Kittyhawk, North Carolina	29.98	761.5	30.00	762.0	75	23.9	85	n.	13	5.8		hz.	1 k		n.	0.55	14.0	clear	E. A. Beals.
Knoxville, Tennessee	29.11	739.4	30.12	765.0	71.8	22.1	98	sw.	2	0.9			10 s			0.11	2.8	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.21	741.9	29.97	761.2	68	20.0	70	s.	2	0.9		2 cs	0			0	0	clear	S. C. Emery.
La Mesilla, New Mexico	26.06	661.9	29.78	756.4	69.7	20.9	58	se.	3	1.3		0	0			0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.12	739.6	29.99	761.7	76	24.4	82	s.	1	0.4		1 cs	4 ks	sw.		0.01	0.3	fair	A. W. Browne.
Lewiston, Idaho	29.03	737.3	29.85	758.2	61.8	16.6	63	nw.	1	0.4		0	8 s		s.	0	0	cloudy	W. Bell.
Little Rock, Arkansas	29.76	755.9	30.07	763.8	80	26.7	88	sw.	2	0.9		0	0			0	0	clear	W. U. Simmons.
Los Angeles, California	29.56	750.8	29.95	760.7	59.1	15.1	81	ne.	2	0.9			10 s		calm	0	0	cloudy	E. F. Kubel.
Louisville, Kentucky	29.52	749.8	30.07	763.8	77	25.0	82	sw.	2	0.9		0	0			0.33	8.4	clear	H. C. Smyth.
Lynchburg, Virginia	29.41	747.0	30.08	764.0	81.0	27.2	58	sw.	1	0.4		2 cs	2 ks			0	0	fair	W. R. Bushby.
Madison, Wisconsin	29.05	737.9	30.04	763.0	68	20.0	90	se.	4	1.8		4 c	0	w.		0	0	fair	C. A. Shaw.
Marquette, Michigan	29.31	744.5	30.03	762.7	64	17.8	63	s.	3	1.3		5 k	5 s	sw.	sw.	0	0	cloudy	J. Gilligan.
Memphis, Tennessee	29.78	756.4	30.11	764.8	81	27.2	79	se.	3	1.3		hz	hz.			0	0	dense haze	D. T. Flannery.

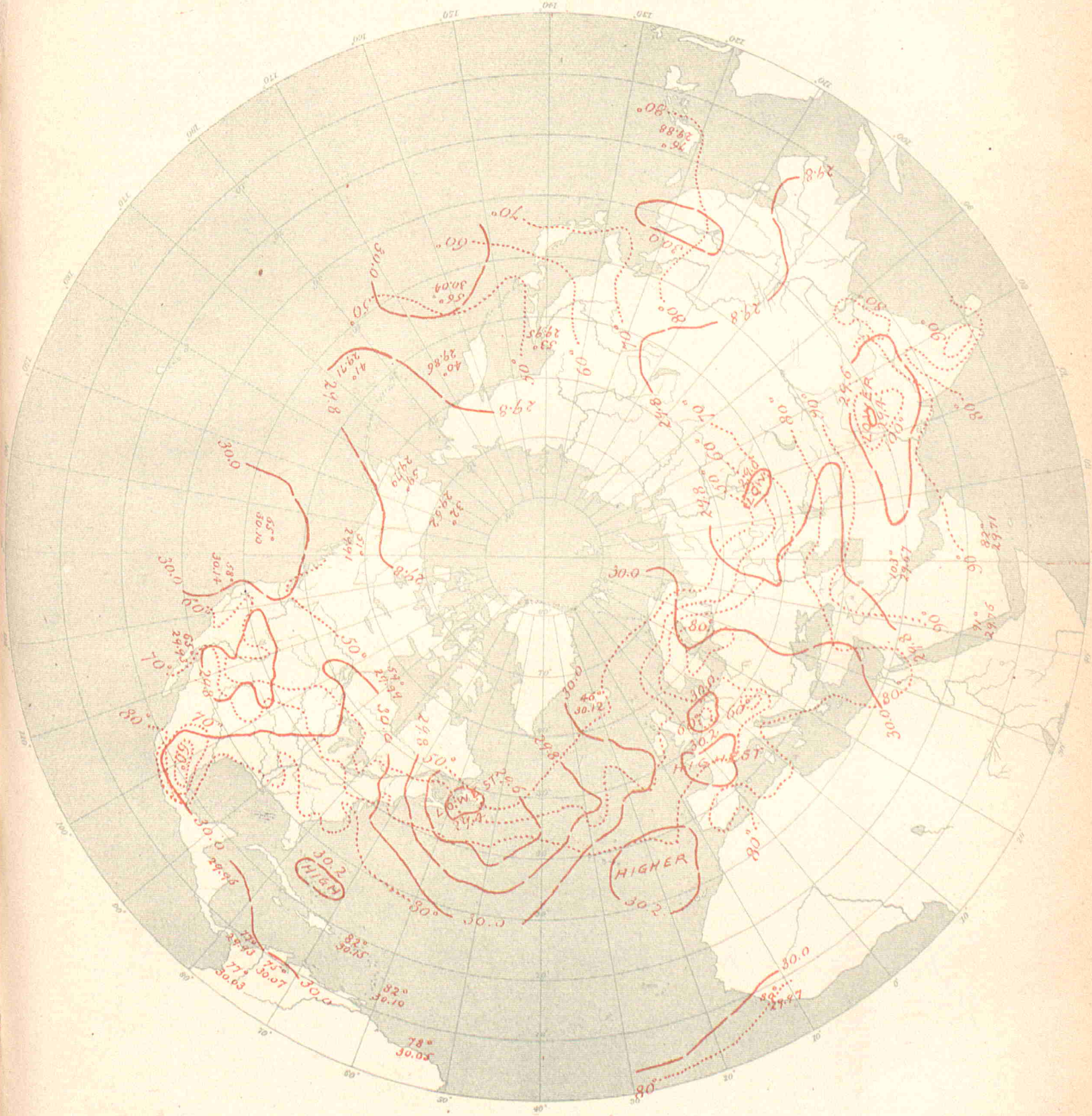
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	29.33	745.0	30.07	763.8	70	21.1	66	sw.	7	3.1	.....	5 c	0	.....	.....	0	0	fair	W. Line.
Mobile, Alabama	30.11	764.8	30.15	765.8	81	27.2	81	w.	3	1.3	.....	1 c	1 ks	.....	sw.	0.12	3.0	clear	J. D. Paxton.
Montgomery, Alabama	29.91	759.7	30.14	765.5	81	27.2	77	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	28.99	736.3	29.96	761.0	64	17.8	90	calm	0	0	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	H. Bessant.
Morgantown, W. Virginia	29.03	737.3	30.03	762.7	67.5	19.7	86	calm	0	0	.....	.....	fg.	.....	.....	0.06	1.5	dense fog	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.64	600.4	29.76	755.9	39.0	3.9	100	nw.	69	30.8	.....	.....	fg.	.....	nw.	0.41	10.4	dense fog	J. G. Livsley.
Nashville, Tennessee	29.60	751.8	30.12	765.0	74.0	23.3	84	calm	0	0	.....	3 cs	fg.	w.	.....	inap.	inap.	clear	L. A. Jesunofsky.
New Haven, Connecticut	29.81	757.2	29.92	760.0	70	21.1	57	n.	7	3.1	.....	0	sk.	.....	.....	0	0	clear	J. H. Sherman.
New London, Connecticut	29.88	758.9	29.93	760.2	72	22.2	53	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.08	764.0	30.12	765.0	82.0	27.8	74	w.	3	1.3	.....	0	hz.	.....	.....	0.03	0.8	clear	L. Dunne.
Newport, Rhode Island	29.84	757.9	29.89	759.2	72.6	22.6	56	nw.	10	4.5	.....	0	0	.....	.....	0	0	clear	W. McGillivray.
New River, N. Carolina	.....	.....	.....	.....	77	25.0	86	nw.	.....	.....	1	0	0	.....	.....	0.99	25.1	clear	C. C. Corbin.
New Shoreham, Rhode I'd.	29.86	758.4	29.89	759.2	67.8	19.9	66	n.	12	5.4	.....	1 c	hz.	n.	.....	0	0	clear	W. Davis.
New York, New York	29.80	756.9	29.97	761.2	70	21.1	57	w.	5	2.2	.....	0	0	.....	.....	0.68	17.3	clear	J. B. Merrill.
Norfolk, Virginia	30.00	762.0	30.03	762.7	82	27.8	58	n.	8	3.6	.....	0	7 ks	.....	nw.	0.04	1.0	fair	J. T. Elker.
North Platte, Nebraska	27.06	687.3	29.86	758.4	69.6	20.9	96	se.	6	2.7	.....	0	5 s	.....	.....	0.05	1.3	fair	E. F. Brady.
Olympia, Washington T'y	29.98	761.5	30.02	762.5	44.0	6.7	93	w.	2	0.9	.....	.....	10 s	.....	sw.	0	0	cloudy	J. Dascomb.
Omaha, Nebraska	28.80	731.5	29.94	760.5	72.7	22.6	82	se.	8	3.6	.....	4 cs;hz	0	.....	.....	0.23	5.8	fair	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	29.60	751.8	29.62	752.3	31.6	— 0.2	100	nnw.	18	8.0	.....	.....	10 s	.....	nnw.	0.03	0.8	cloudy	P. H. Ray.
Oswego, New York	29.68	753.9	30.00	762.0	62.0	16.7	84	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	S. W. Beall.
Palestine, Texas	29.58	751.3	30.12	765.0	76.0	24.4	88	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	L. M. Pindell.
Pensacola, Florida	30.12	765.0	30.15	765.8	83.2	28.4	80	sw.	2	0.9	.....	0	1 ks	.....	.....	0	0	clear	M. McGauran.
Philadelphia, Pa.	29.92	760.0	30.02	762.5	73	22.8	55	nw.	9	4.0	.....	0	0	.....	.....	inap.	inap.	clear	T. F. Townsend.
Pike's Peak, Colorado	18.03	458.0	29.85	758.2	37	2.8	64	w.	28	12.5	.....	2 cs	0	sw.	.....	0	0	clear	L. M. Dey.
Pioche, Nevada	23.97	608.8	29.77	756.1	60	15.6	19	se.	6	2.7	.....	0	0	.....	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.30	744.2	30.09	764.3	65.0	18.3	87	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. H. Bryce.
Poplar River, Montana	27.85	707.4	.....	.....	.....	.....	.....	se.	.....	.....	1	0	0	.....	.....	0.02	0.5	clear	U. D. Maxwell.
Port Eads, Louisiana	30.14	765.5	30.15	765.8	81.0	27.2	85	s.	1	0.4	.....	0	0	.....	.....	0	0	clear	H. G. Christian.
Port Huron, Michigan	29.42	747.3	30.09	764.3	61.2	16.2	59	ne.	1	0.4	.....	2 c	0	.....	.....	0	0	clear	W. O. Bailey.
Portland, Maine	29.74	755.4	29.79	756.7	68.5	20.3	56	nw.	10	4.5	.....	0	0	.....	.....	inap.	inap.	clear	W. W. Eichelberger.
Portland, Oregon	29.95	760.7	30.02	762.5	53.0	11.7	86	nw.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	M. L. Hearne.
Portsmouth, N. Carolina	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. P. Chaffee.
Prescott, Arizona	24.78	629.4	29.80	756.9	59	15.0	48	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. Mc N. Wright.
Provincetown, Mass.	29.79	756.7	29.82	757.4	67	19.4	68	nw.	16	7.2	.....	0	0	.....	.....	0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.13	765.3	30.14	765.5	81	27.2	81	e.	8	3.6	.....	0	0	.....	.....	0.12	3.0	clear	W. J. Evans.
Red Bluff, California	29.50	749.3	29.86	758.4	62.0	16.7	68	s.	6	2.7	.....	.....	10 s	.....	sw.	0	0	cloudy	J. M. Frantz.
Rio Grande City, Texas	29.84	757.9	30.08	764.0	81	27.2	74	se.	7	3.1	.....	0	0	.....	.....	0	0	clear	P. M. Wilson.
Rochester, New York	29.38	746.2	30.03	762.7	61	16.1	78	w.	6	2.7	.....	0	hz.	.....	.....	0	0	clear	E. W. McGann
Roseburg, Oregon	29.48	748.8	30.03	762.7	54	12.2	80	n.	4	1.8	.....	.....	10 ks	.....	n.	0	0	cloudy	J. J. Nanry.
Sacramento, California	29.79	756.7	29.86	758.4	56.4	13.6	74	s.	10	4.5	.....	0	5 s	.....	sw.	0	0	fair	J. A. Barwick.
St. Louis, Missouri	29.48	748.8	30.07	763.8	73.2	22.9	90	s.	12	5.4	.....	2 ck	0	nw.	.....	inap.	inap.	clear	J. H. Webber.
St. Paul, Minnesota	29.12	739.6	29.97	761.2	66.0	18.9	90	e.	6	2.7	.....	5 k	3 s	sw.	se.	0	0	cloudy	P. F. Lyons
St. Vincent, Minnesota	29.11	739.4	29.96	761.0	56	13.3	86	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.52	648.2	29.74	755.4	64	17.8	35	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.38	746.2	30.06	763.5	77	25.0	90	se.	4	1.8	.....	0	8 ks	.....	se.	0	0	cloudy	E. Lane.
San Diego, California	29.86	758.4	29.92	760.0	61.7	16.5	82	nw.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.40	746.7	30.07	763.8	72	22.2	84	e.	9	4.0	.....	5 c	0	.....	.....	0	0	fair	M. H. Perry.
Sandy Hook, New Jersey	29.93	760.2	29.97	761.2	68.0	20.0	66	nw.	15	6.7	.....	0	0	.....	.....	0.60	15.2	clear	B. A. Blundon.
San Francisco, California	29.86	758.4	29.92	760.0	50.5	10.3	90	w.	21	9.4	.....	1 cs	fg.	sw.	w.	0	0	fair	N. Gorom.
Santa Fé, New Mexico	23.33	592.6	29.84	757.9	67	19.4	53	se.	12	5.4	.....	8 k	0	sw.	.....	0	0	cloudy	H. U. Jones.
Savannah, Georgia	30.02	762.5	30.11	764.8	82	27.8	74	sw.	7	3.1	.....	6 cs	2 ks	.....	sw.	0.60	15.2	cloudy	H. W. Ford.
Shreveport, Louisiana	29.87	758.7	30.10	764.5	76	24.4	90	s.	3	1.3	.....	0	fg.	.....	.....	0	0	clear	E. N. Meekins.
Silver City, New Mexico	24.28	616.7	29.78	756.4	66	18.9	48	sw.	1	0.4	.....	0	4 k	.....	calm	0	0	fair	J. B. Wallace.
Sitka, Alaska	29.85	758.2	29.91	759.7	51	10.6	80	sw.	2	0.9	.....	.....	10 s	.....	calm	0	0	cloudy	J. J. McLean.
Smithville, North Carolina	30.01	762.2	30.05	763.3	78	25.6	82	nw.	7	3.1	.....	2 c	0	.....	.....	0.06	1.5	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.86	707.6	29.90	759.4	59	15.0	78	w.	2	0.9	.....	9 cs	0	.....	.....	inap.	inap	cloudy	D. Moore.
Springfield, Illinois	29.40	746.7	30.07	763.8	71.5	21.9	90	se.	1	0.4	.....	2 cs	6 s	w.	w.	0	0	threatening	T. B. Jennings.
Springfield, Massachusetts	29.78	756.4	29.91	759.7	73.8	23.2	57	w.	8	3.6	.....	0	0	.....	.....	0	0	clear	T. S. Outram.
Springfield, Mo.	28.66	728.0	30.12	765.0	78	25.6	85	s.	4	1.8	.....	6 k	0	s.	.....	0.10	2.5	fair	J. B. Marbury.
Starkville, Miss.	29.66	753.4	30.13	765.3	84	28.9	72	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	M. J. Wright.
Stockton, Texas	27.00	685.8	29.92	760.0	71.0	21.7	82	se.	16	7.2	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Thatcher's Island, Mass.	29.78	756.4	29.83	757.7	68.7	20.4	69	nw.	17	7.6	.....	0	0	.....	.....	0	0	clear	G. Liebmann.
Toledo, Ohio	29.38	746.2	30.06	763.5	72	22.2	66	ne.	4	1.8	.....	3 c	0	w.	.....	0	0	clear	A. Buell.
Tucson, Arizona	27.47	697.7	29.77	756.1	80	26.7	52	s.	3	1.3	.....	0	5 ks	.....	.....	0	0	fair	J. L. Whiteside.
Umatilla, Oregon	29.52	749.8	29.88	758.0	64	17.8	43	sw.	18	8.0	.....	.....	10 s	.....	s.	inap.	inap.	cloudy	J. Daly.
Uvalde, Texas	29.09	738.9	30.03	762.7	76	24.4	85	se.	3	1.3	.....	.....	10 s	.....	se.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.88	758.9	30.13	765.3	78	25.6	88	calm	0	0	.....	0	0	.....	.....	0	0	clear	H. P. Brisbane.
Visalia, California	29.50	749.3	29.87	758.7	60	15.6	65	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. L. Seward.
Washington, D. C.	29.95	760.7	30.06	763.5	72.3	22.4	58	nw.	3	1.3	.....	1 cs	0	.....	.....	0.02	0.5	clear	B. M. Purssell.
West Las Animas, Colorado	25.98	659.9	29.76	755.9	70.8	21.6	51	calm	0	0	.....	0	2 s	.....	calm	0	0	clear	F. W. Brandenburg.
Williamsport, Pa.	29.46	748.3	30.06	763.5	65	18.3	68	w.	7	3.1	.....	0	0	.....	.....	inap.	inap.	clear	B. F. Hough.
Wilmington, N. Carolina	29.99	761.7	30.04	763.0	78	25.6	82	nw.	6	2.7	.....	2 c	0	nw.	.....	0.02	0.5	clear	A. T. Sherwood.
Winnemucca, Nevada	25.50	647.7	29.76	755.9	55	12.8	53	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Yankton, Dakota	28.65	727.7	29.93	760.2	70	21.1	79	se.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	J. H. Atfield.
Yuma, Arizona	29.61	752.1	29.75	755.6	76.0	24.4	54	n.	2	0.9	.....	0	7 s	.....	n.	0	0	fair	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.09	561.1	.....	.....	53.5	11.9	79	calm	0	0	.....	2 k	8 n;s	nw.	n.	0.47	11.9	drizzling	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.09	764.3	30.10	764.5	82	27.8	95	ne.	.....	.....	.....	5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	30.00	762.0	30.03	762.7	77	25.0	95	calm	0	0	.....	.....	10 ks	.....	calm	0.15	3.8	threatening	J. I. Plume.
Havana, Cuba, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.09	764.3	30.10	764.5	82.3	27.9	67	calm	0	0	.....	10 cs	0	.....	.....	0	0	.....	Robert Johnston.
Magua, San Domingo, W. I	.....	.....	.....	.....	70	21.1	.....	calm	.....	.....	0	0	0	.....	.....	0	0	.....	S. M. Pike.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	78	25.6	86	e.	.....	.....	2	3 c	0	e	.....	0	0	clear	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.51	749.5	30.07	763.8	75	23.9	94	calm	.....	.....	0	.....	10 s	.....	calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	99	s.	.....	.....	1	10 ck	0	s.	.....	0.13	3.3	cloudy	Earl Flint.
Santiago de Cuba, W. I.	30.09	764.3	30.12	765.0	81	27.2	65	n.	3.6	1.6	.....	3 c	0	.....	.....	0	0	fair	Robert Mason.
York Factory, B. A.	29.93	760.2	29.99	761.7	59.0	15.0	82	ne.	11	4.9	.....	0	0	.....	.....	0	0	clear	Fortescue & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	Upper. 0-10	Lower. 0-10	Upper. From.	Lower. From.	Inch.	Mill	Character.	Direction from	
British Naval.																		
H. M. S. Alert, Simons Bay, Cape Colony, Africa	30.13	765.3	65	18.3	58	w.			3-4		10							drizzling.
H. M. S. Alexandra, N. 31° 33′, E. 29° 42′	29.95	760.7	74	23.3	76	nw.			4		1					3	nw.	misty.
H. M. S. Amethyst, Montevideo, Uruguay	30.23	767.8	55	12.8	93	calm			0		9							d. clouds.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	30.16	766.1	72	22.2		n.			3									blue sky.
H. M. S. Arab, Muscat, Arabia	29.59	751.6	90	32.2	76	se.			1		2							d. clouds.
H. M. S. Bacchante, Palermo, Sicily	30.16	766.1	81	27.2	78	ene.			1		0							blue sky.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.11	764.8	66	18.9		w.			1-2		3	w.						raining.
H. M. S. Champion, N. 19° 00′, W. 179° 30′			78	25.6		ene.			3-4		3					5	ne.	d. clouds.
H. M. S. Coquette, Port Said, Egypt	29.96	761.0	76	24.4		nw.			1		0							blue sky.
H. M. S. Cruiser, N. 38° 00′, E. 15° 34′	30.14	765.5	77	25.0		s.			2		1	wnw.						blue sky.
H. M. S. Diamond, S 8° 42′, E. 160° 37′	29.93	760.2	82	27.8	83	se.			2-3		5	ese.						d. clouds.
H. M. S. Dido, N. 13° 05′, W. 59° 30′	30.10	764.5	78	25.6		ene.			2		3	e.						d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	30.04	763.0	77	25.0	90	wsw.			2-3		5	wsw.						d. clouds.
H. M. S. Druid, N. 18° 33′, W. 72° 21′	30.08	764.0	81.5	27.5	95	e.			1-2		1	e.						misty.
H. M. S. Dwarf, S. 28° 32′, W. 59° 01′	30.05	763.3	59.5	15.3	94	calm			0		8							d. clouds.
H. M. S. Eclipse, S. 4° 37′, E. 55° 30′	29.98	761.5	80	26.7		ese.			3		4							d. clouds.
H. M. S. Emerald, S. 35° 00′, W. 30° 00′	30.13	765.3	61	16.1	100	wnw.			4-5		7	wnw.				4	wsw.	squally.
H. M. S. Euryalus, Trincomalee, Ceylon, India	29.79	756.7	78	25.6	100	s.			1		8	calm						overcast.
H. M. S. Espiegle, S. 17° 49′, E. 168° 07′	30.07	763.8	75	23.9	100	se.			1		2	sw.				1	s.	d. clouds.
H. M. S. Flying Fish, N. 32° 42′, E. 128° 21′	29.98	761.5	70.5	21.4	92	ne.			2		7					2	ne.	misty.
H. M. S. Gannet, S. 25° 23′, W. 70° 40′	30.10	764.5	56	13.3	68	n.			1-2		10					3	sw.	d. clouds.
H. M. S. Garnet, S. 31° 37′, W. 37° 51′	30.33	770.4	65	18.3	73	n.			5		6					3	nw.	d. clouds.
H. M. S. Griffon, N. 49° 42′, W. 56° 06′	29.44	747.8	48	8.9	85	e.			2		10							rain & fog.
H. M. S. Inconstant, N. 27° 30′, W. 17° 00′	30.18	766.6	71	21.7	75	ne.			4-5		1	nne.				4	nne.	squally.
H. M. S. Iris, N. 34° 40′, E. 19° 15′	30.13	765.3	75	23.9	72	nnw.			1-2		0					1	nnw.	blue sky.
H. M. S. Iron Duke, N. 35° 26′ E. 139° 39′	29.91	759.7	74	23.3	90	calm			0		6							d. clouds.
H. M. S. Kingfisher, San Blas, Mexico	29.96	761.0	80	26.7		calm			0		1					2	w.	blue sky.
H. M. S. Lark, S. 10° 40′, E. 162° 22′	29.97	761.2	80.3	26.8		ese.			3		7					3	e.	d. clouds.
H. M. S. Magpie, N. 35° 26′, E. 139° 39′	29.87	758.7	73.3	22.9	87	calm			0		8	wsw.						dense mist.
H. M. S. Minotaur, Malta, Mediterranean	30.16	766.1	77.5	25.3	63	ese.			1		0							blue sky.
H. M. S. Nelson, S. 36° 50′, E. 174° 49′	29.60	751.8	56	13.3	93	sw.			3-4		4	ne.						d. clouds.
H. M. S. Northampton, Halifax, Nova Scotia	29.43	747.5	64.5	18.1	78	nw.			2		2	nw.						d. clouds.
H. M. S. Rambler, S. 15° 23′ E. 1° 29′	30 14	765.5	67	19.4	94	s.			1		7	sse.				3	s.	d. clouds.
H. M. S. Rocket, N. 49° 50′, W. 127° 00′	29.99	761.7	51	10.6	100	ese.			1		9							overcast.
H. M. S. Sappho, S. 24° 03′ W. 123° 20′	30.16	766.1	68.5	20.3		s.			1-2		2	calm				2	s.	d. clouds.
H. M. S. Swiftsure, S. 12° 00′ W. 32° 00′	30.08	764.0	78.5	25.8	78	ese.			2		4	sse.				3	sse.	d. clouds.
H. M. S. Sylvia, S. 34° 24′, W. 53° 47′	30.24	768.1	52.3	11.3	93	wnw.			1									d. clouds.
H. M. S. Tenedos, N. 47° 34′ W. 57° 37′	29.28	743.7	52	11.1	100	se.			1-2		10					2	se.	misty.
H. M. S. Triumph, Valparaiso Chili	30.07	763.8	50	10.0	86	ne.			1-2		10	calm						d. clouds.
H. M. S. Tyne, N. 37° 27′, W. 35° 18′	30.05	763.3	75	23.9	85	wsw.			3		1					2	w.	blue sky.
H. M. S. Woodlark, Bassorah, Asiatic, Turkey	29.57	751.1	102.5	39.2	45	calm			0		0							blue sky.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verd Islands	30.12	765.1	77.0	25.0	92	ne.			3		3					2		d. clouds.
Tamega, Macao, China	29.86	758.5	86.0	30.0	78	s.			3		3							d. clouds.
Swedish Naval.																		
Saga, N. 51° 16′, W. 16° 25′	29.89	759.2	58.1	14.5	82	ssw.			3		6							
United States Naval.																		
Navy Yard, Pensacola, Fla	30.09	764.3	82	27.8	87	ssw.	2	0.9			5		sw.	0	0			fair.
N. Yard, Portsmouth, N. H.	29.83	757.7	69	20.6	58	nw.	11	4.9			1		nw.	0	0			clear.
Naval Hospital, Yokohama, Japan*	29.75	755.6	71.5	21.9	90	calm			0		8		e.	0	0			cloudy.
Adams, Mare Island, Cal	29.91	759.7	55	12.8	93	ssw.			3		2			0	0			clear.
Alaska, Callao, Peru	30.05	763.3	59	15.0	88	ne.			1		10			0	0	sm'h		cloudy.
Alert, N. 42° 31′, E. 170° 29′*	29.92	760.0	50	10.0	86	ene.			1		10		calm	0	0	sm'h		cloudy.
Alliance, Boston, Mass	29.87	758.7	70	21.1	61	nw.			1		0			0	0			clear.
Ashuelot, Yokohama, Japan	29.88	758.9	78	25.6	78	ese.			1		10		calm					cloudy.
Brooklyn, Rio de Janeiro, Brazil	30.35	770.9	65	18.3	94	nnw.	4	1.8			10		calm	0	0	sm'h		foggy.
Colorado, New York, N. Y.	29.89	759.2	68	20.0	70	nw.	3	1.3			0			0.3	8.			clear.
Constellation, Chesapeake Bay*	29.99	761.7	78	25.6	78	nnw.			5		0					mod.		clear.
Enterprise, Norfolk, Va*	30.01	762.2	78	25.6	78	nnw.			1		8		n.					cloudy.
Essex, Sandy Point, Patagonia	29.68	753.9	42	5.6	91	ne.			3		9?		ne.			sm'h	ne.	clear.?
Franklin, Norfolk, Va	30.02	762.5	80	26.7	66	nnw.	10	4.5			5		calm	0	0			fair.
Galena, Alexandria, Egypt	29.96	761.0	77	25.0	95	nnw.			2		0					sm'h		hazy.
Independence, Mare Island, Cal	29.99	761.7	55	12.8	80	sw.			4		2			0	0			hazy.
Iroquois, San Francisco, Cal	30.09	764.3	52	11.1	86	sw.			3		8		sw.	0	0			cloudy.
Kearsarge, Norfolk, Va	30.02	762.5	81	27.2	78	nnw.			2		8							cloudy.
Lackawana, S. 11° 39′, W. 79° 50′*	30.05	763.3	59	15.0	88	calm			0		10							cloudy.
Lancaster, Alexandria, Egypt*	29.93	760.2	81	27.2	91	nnw.			1		0			0	0	sm'h		clear.
Marion, S. 34° 54′, W. 56° 13′	30.17	766.3	57	13.9	58	nnw.			1		10		calm	0	0	sm'h		cloudy.
Michigan, Detroit, Mich	30.06	763 5	69	20.6	65	e.			1		0							clear.
Minnesota, Newport, R. I.	29.93	760.2	71	21.7	65	nnw.	4	1.8			0							clear.
Monocacy, Chusan Archepelago, China	30.04	763.0	69	20.6	85	calm			0		5		calm					fair.
New Hampshire, Newport, R. I.	29.85	758.2	71	21.7	66	nnw.			1		8					sm'h		fair.
Nipsic, N. 43° 17′ E. 15° 21′	30.10	764.5	77	25.0	61	se.			3		2					sm'h		clear.
Onward, Callao, Peru†	30.15	765.8	59	15.0	88	ene.			2		10		n.			long	w.	cloudy.
Palos, Kobe, Japan	30.00	762.0	73	22.8	81	calm			0		8		calm					fair.
Passaic, Washington, D. C.	30.06	763.5	74	23.3	86	n.			1		2							fair.
Pensacola, Callao, Peru	30.09	764.3	59	15.0	88	ne.	3	1.3			10			0	0	sm'h		cloudy
Powhatan, N. 32° 38′, W. 79° 31′	30.08	764.0	85	29.4	83	sw.			3		5		sw.			light	sw.	fair.
Portsmouth, Brest, France*	30.20	767.1	65	18.3	78	wsw.			2		5		w.			sm'h		fair.
Quinnebaug, N. 37° 29′, E. 16° 30′	30.16	766.1	79	26.1	74	sse.			2		0					sm'h		clear.
Ranger, Mare Island, Cal*	29.88	758.9	58	14.4	70	ssw.			2		2		ssw.	0	0	sm'h		clear.
Richmond, Yokohama, Japan*	29.85	758.2	75	23.9	90	se.			1		5		e.	0	0			fair.
Saratoga, Brest, France	30.22	767.6	68	20.0	70	w.			1-2		5		w.	0	0	sm'h		fair.
St. Louis, League Island, Pa	30.17	766.3	71	21.7	62	nw.	4	1.8			0			0	0			clear.
Swatara, N. 34° 29′, E. 138° 41′*	29.77	756.1	75	23.9	81	wsw.			4		8		wsw.			mod.	wsw.	fair.
Tennessee, off New York, N. Y	29.99	761.7	74	23.3	68	nnw.	13	5.8			0			1.40	35.6			clear.
Vandalia, Portsmouth, N. H*	29.79	756.7	69	20.6	70	nw.			2		0							clear.
Wabash, Boston, Mass	29.86	758.4	70	21.1	54	nw.	8	3.6			0			0	0			clear.
Wachusetts, Juneau City, Alaska	29.86	758.4	52	11.1	93	e.			1		5			0	0	sm'h		fair.
Wyoming, Port Royal, S. C.	30.08	764 0	78	25.6	82	wsw.	10	4.5			8		w.	0.32	8.1			cloudy.
Yantic, New York, N. Y*	29.90	759.4	69	20.6	75	nw.			2		0							clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Grecian, Montreal, Canada*	29.85	758.2	68	20.0		nw.			4		1		nw.	3 h'r	3 h'r			clear.
S. S. Nova Scotian, N. 48° 21′, W. 49° 23′	29.46	748.3	47	8.3		e.			4		10		e.			long	ne.	drizzling.
S. S. Prussian, N. 48° 36′, W. 32° 38′*	29.54	750.3	61	16.1		s.			6		8		ssw.	0	0	long	se.	cloudy.
S. S. Waldensian, N. 42° 33′, W. 63° 57′*	29.68	753.9	58	14.4		wsw.			6		2		wnw.	0	0	mod.	sw.	clear.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, Philadelphia	29.98	761.5	77	25.0	95	nw.			3		2		nw.					very fine.
S. S. Indiana, N. 44° 06′. W. 41° 44′†	29.79	756.7	70	21.1	90	w.			4		10		w.			r'gh	w.	rainy.
S. S. Lord Clive, Philadelphia*†	29.95	760.7				sw.			3		2		w.	½ h'r	½ h'r			fine.
S. S. Lord Gough, N. 51° 24′, W. 9° 13′	30.00	762.0	58	14.4		se.			6		10		se.	5 h'r	5 h'r	mod.	e.	hazy.
ANCHOR LINE.																		
S. S. Bolivia, N. 52° 31′. W. 29° 17′†	29.73	755.1	57	13.9		ene.			1		10		ene.	2 h'r	2 h'r	sm'h		overcast.
S. S. Devonia, N. 55° 08′, W. 11° 00′†	30.09	764.3	58	14.4		ese.			3		2		ese.			sm'h		fine.
S. S. Ethiopia, N. 40° 31′, W. 58° 04′	29.59	751.6	70	21.1	85	w.			3		3		w	0	0	mod.	w.	clear.
S. S. Utopia, N. 40° 27′ W. 25° 57′†	30.34	770.6	70	21.1	67	w.			2		2		w.	2 h'r	2 h'r	sm'h	wnw.	clear.
ATLAS LINE.																		
S. S. Ailsa, N. 10° 06′. W. 77° 35′†	30.00	762.0	79	26.1	86	se.			4		10		se.	8 h'r	8 h'r	long	ne.	overcast.
S. S. Alvena, Montega Bay, Jamaica, W. I.†	29.91	759.7	82	27.8	75	e.			1		0			8 h'r	8 h'r	sm'h	ese.	fine.
S. S. Antillas, San Juan, Porto Rico, W. I.*†	30.25	768.3				ese.			2		5		e.	0	0	light	e.	fine.
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, Cape Breton Island†	29.46	748.3	54	12.2		nw.			4				nw.	light	light			raining.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S 25° 58′, E. 80° 20′	30.04	763.0	68.9	20.5	84	ne.			2		1							blue sky.
S. Baroda, S. 14° 43′, E. 70° 55′	29.98	761.5	77.7	25.4	78	se.			3		1							blue sky.
British Merchant, N. 41° 03′, W. 30° 32′	30.07	763.8	68.5	20.3	92	sw.			4–5		4							misty.
S. S. Glencairn, N. 3° 10′, W. 26° 30′	30.08	764.0	79	26.1	86	se.			5		6							d. clouds.
S. S. Gordon Castle, N. 15° 38′, E. 40° 47′	29.76	755.9	91	32.8	74	w.			1–2		3							d. clouds.
May Hulse, S. 35° 02′, W. 34° 20′	30.12	765.0	61	16.1	83	nw.			6		10							drizzling.
S. S. Minho, Lisbon, Portugal	30.19	766.8	76.8	24.9	60	nnw.			3		0							blue sky.
CUNARD LINE																		
S. S. Bothnia, N. 40° 31′. W. 70° 30′	29.85	758.2	68	20.0	79	w.			3–4		5?		w.	0	0		w.	clear.
S. S. Scythia, New York, N. Y.	29.95	760.7	71.5	21.9	66	nw.			2		0			1½ h'r	1½ h'r			fair.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Ville de Marseilles, Marseilles, France*†	30.10	764.5	79	26.1		nnw.			5		0			0	0			clear.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 40° 34′, W. 54° 16′*†	29.72	754.9				wnw.			4		6		w.	0	0	mod	w.	
S. S. Cimbria, N. 50° 02′, W. 4° 13′	30.23	767.8	62	16.7		wnw.			3		3		nw.	0	0	sm'h	nw.	fair.
S. S. Herder, N. 47° 36′, W. 25° 35*†	29.84	757.9	62	16.7		wsw.			4		4		ssw.	2 h'r	2 h'r	mod.	wsw.	rain & fog.
S. S. Lessing, N. 40° 44′, W. 63° 37′	29.65	753.2	70	21.1		nw.			4		0			0	0	mod.	wnw.	clear.
S. S. Wieland, N. 43° 00′, W. 42° 43′	29.71	754.6	71.5	21.9		sw.			5		10		sw.	8 h'r	8 h'r	4	sw.	rainy.
JOHNSTON LINE.																		
S. S. Thanemore, N. 42° 05′ W. 46° 03′	29.57	751.1				ssw.			7		10		sw.	rain	rain	h'vy	sw.	raining.
MALLORY LINE.																		
S. S. Colorado, N. 39° 36′ W 74° 17′†	29.97	761.2	65	18.3		nw.			3		0			0	0			fair.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, S. 20° 23′, W. 38° 57′	29.61	752.1				s.			3				s.	0	0	r'gh	se.	cloudy.
S. S. Glenapp, Para River, Brazil*†	30.00	762.0				var.			3		6		e.	0	0			
NATIONAL LINE.																		
S. S. Canada, N. 48° 56′, W. 15° 42′†	30.07	763.8	59	15.0		ssw.			3		6		sw.	4 h'r	4 h'r	long	sw.	foggy.
S. S Denmark, London, Eng	30.09	764.3	60	15.6		sw.			4		5		wnw.	0	0			fine.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, St. Jago, Cuba, W. I.†	30.12	765.0	83	28.3		nne.			1		0			0	0			fine.
S. S. Saratoga, Havana, Cuba†	30.31	769.9	78	25.6	86	calm			0		0			0	0			clear.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, Havana, Cuba, W I.*†	30.22	767.6	78	25.6	82	ene.			3		4		se.	0	0	small	ene.	clear.
S. S. Puebla, N. 36° 04′, W. 74° 00′†	29.93	760.2	74	23.3		nw.			1		5?		wnw.			light	ssw.	clear.?
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N. 42° 00′, W. 48° 13′*†	29.76	755.9	73	22.8		sw.			4								wsw.	clearing.
S. S. Maas, N. 49° 43′, W. 12° 30′.*†	30.06	763.5	66	18.9		wsw.			1								w.	
NORTH GERMAN LLOYD																		
S. S. America, N. 40° 09′, W. 49° 19′*	29.69	754.1	72.5	22.5		sw.			6		10		sw.	5 h'r	5 h'r	r'gh		cloudy.
S. S. Elbe, N. 48° 23′, W. 28° 07′	29.88	759.0	56.3	13.5	100	se.			3		10			0	0	mod.	e.	misty.
S. S. Hohenzollern, N. 39° 28′, W. 66° 50′*	29.85	758.2	74	23.3		nnw.			4		1		nw.	0	0	sm'h	nw.	fair.
S. S. Oder, N. 42° 10′, W. 47° 16′	29.59	751.6	73.4	23.0		sw.			6		10		w.	14 h'r	14 h'r	r'gh	wsw.	rainy.
S. S. Ohio, Bremerhaven, Germany						sw.			4		10		w.	24 h'r	24 h'r			heavy rain.
S. S. Salier, N. 45° 55′, W. 29° 21′	29.88	758.9	57.2	14.0		ssw.			6		10		wsw.	9 h'r	9 h'r	h'vy		heavy rain.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic N. 42° 28′, W. 137° 06′†	30.20	767.1	65	18.3	83	wnw.			4		8		nw.	rain	rain	mod.	w.	cloudy.
S. S. Coptic, N. 46° 11′, W. 175° 30′	29.81	757.2	43.5	6.4		nnw.			3		9		wnw.	0	0	2	w.	cloudy.
S. S. Gaelic, N. 43° 40′, E. 158° 58′†	30.04	763.0	56	13.3	74	se.			5		6?		e.			mod.	e.	overcast?
S. S. Oceanic, N. 34° 21′, E. 138° 16′*	29.86	758.4	75	23.9	81	ssw.			5		8		sw.			3	wsw.	cloudy.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y.†	29.99	761.7				nw.			2		0			0	0			clear.
S. S City of Columbus, New York, N. Y.†	29.93	760.2				nw.			5		0			1 h'r	1 h'r			clear.
S. S. Seminole, N. 32° 20′ W. 80° 10′†	30.12	765.0	83	28.3	87	wsw.			5		8		nw.	3 h'r	3 h'r	mod.	sw.	cloudy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, San Francisco, Cal.†	29.89	759.2	53	11.7	93	nnw.			1		2		nw.					hazy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 33° 45′, W. 118° 31′†	29.90	759.4	61	16.1	88	ese.			2		10		se.			sm'h		cloudy.
S. S. Dakota, Olympia, Wash. Ter.*†	30.06	763.5	64	17.8	83	s.			3		5?		w.			sm'h		cloudy.?
S. S. Idaho, N. 38° 53′, W. 123° 51′†	29.94	760.5	54	12.2	87	nw.			6		10		n.			mod.	nw.	overcast.
S. S. State of California, N. 38° 19′, W. 123° 10′†	29.91	759.7	51	10.6	86	nw.			5		0					mod.	nw.	clear.
S. S. Victoria, Portland, Oregon†	29.86	758.5	54	12.2	87	calm			0		5					sm'h		fair.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S Australia, S. 34° 14′, E. 169° 03′	29.91	759.7	59	15.0	70	sw.			7		5?		sw.	0	0	long	sw.	clear ?
S. S. City of Pekin, N. 22° 16′. E. 114° 43′†	29.90	759.4	85	29.4	83	e.			4		5		ese.	0	0	sm'h		fair.
S. S. City of Rio de Janeiro, N. 27° 12′, W. 114° 38′*†	30 13	765.3	65	18.3	84	nw.			2		9		nw.	0	0	mod.	s.	foggy.
S. S. City of Sydney, Sydney, N. S. W.†	30.27	768.8	47	8.3	85	sw.			4		5		sw.	0	0	sm'h		fair.
S. S. Clyde, N. 34° 04′, W. 119° 10′†	29.90	759.4	60	15.6	82	nnw.			1		8		nnw.	0	0	long	wnw.	cloudy.
S. S. Colima, N. 21° 56′, W. 105° 48′†	29.97	761.2	82	27.8	79	ese.			2		8		se.	0.15	3.8	small	s.	fair.
S. S. Granada, Panama, Panama†	29.93	760.2	77	25.0	95	nw.			1		5?		nw.	0	0			clear.?
S. S. South Carolina, Panama, Panama†	30.07	763.8	82	27.8	91	calm			3		5		ne.	0	0	sm'h		
S. S. Zelandia, S. 4° 16′, W. 167° 22′	29.91	759.7	87	30.6	88	ne.			3		0					mod.	ne.	fair.
QUEBEC STEAMSHIP COMPANY.																		
S. S. Muriel, N. 24° 00′, W. 65° 30′	29.96	761 0	83	28.3		ese.			3		10			0	0	mod.	ese.	overcast.
S. S. Bermuda, N. 32° 51′, W. 70° 34′†	30.11	764.8	79	26.1		w.			6		9		w.			long	w.	hazy.
RED STAR LINE.																		
S. S. Nederland, N. 40° 13′, W. 51° 05′†	29.51	749.5	75	23.9		sw.			5		10		wsw.	2 h'r	2 h'r	h'vy	wsw.	overcast.
S. S. Pennland, N. 49° 25′, W. 16° 21′*	29.95	760.7	55	12.8		sw.			4		5		sw.	6 h'r	6 h'r	mod.	sw.	hazy
S. S. Rhynland, Antwerp, Belgium	30.07	763.8	63	17.2	94	s.			2		10		ssw.	0.2	5.			showery.
S. S. Vaderland, N. 39° 53′ W. 57° 25′	29.55	750.6	74	23.3	81	w.			3		0			0	0	mod.	sw.	clear.
STATE LINE.																		
S. S. State of Florida, New York, N. Y	29.77	756.1	84	28.9		nw.			4		3		nw.	2 h'r	2 h'r			fair.
S. S. State of Georgia, N. 40° 49′ W. 61° 22′†	29.69	754.1	71	21.7		w.			6		0		w.	0	0		w.	clear.
S. S. Indiana, N. 53° 06′, W. 24° 00′†	30.09	764.3	64	17.8		se.			3		3		ese.	2 h'r	2 h'r	mod.	se.	misty.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
THINGVALLA LINE.																		
S. S. Thingvalla, N. 40° 56′, W. 60° 09′†	29.86	758.4	70.7	21.5	87	w.			2		2		w.	0	0	long	w.	clear.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 46° 59′ W. 21° 14′	30.07	763.8									8			0	0	sm'h		
WHITE STAR LINE.																		
S. S. Celtic, N. 42° 20′, W. 50° 25 †	29.54	750.3	59	15.0	70	wsw.			3		10			4 h'r	4 h'r	mod.	w.	dense fog.
S. S. Germanic, N. 41° 07′, W. 53° 00′†	29.72	754.9	72	22.2		w.			5		6	nw.	w.			light	wsw.	d. clouds.
WILSON LINE.																		
S. S. Otranto, N. 41° 59′ W. 55° 37′†	29.69	754.1	68	20.0		wsw.			4		2		wsw.			long	wsw.	clear.
S. S. Romano, New York, N. Y.	29.86	758.4	80	26.7														fair.
MISCELLANEOUS.																		
Bg. Abbie Clifford, N. 33° 31′, W. 75° 14′*†	30.11	764.8	81	27.2		w.			3		6		w.	½ hr	½ hr	r'gh	w.	fair.
Schr. Addie Fuller, Bath, Me†	29.82	757.4	66	18.9	64	nw.				0	0			0	0			clear.
Schr. Ajax, N. 28° 20′, W. 96° 21′†	30.12	765.0				s.			1		4		se.	0	0	sm'h	s.	fair.
Bk. Alpha, New York, N. Y†	29.94	760.5	78	25.6		nw.			1		3		nw.	1 h'r	1 h'r			fair.
Schr. Annie Lewis, Mobile Bay, Ala†	30.27	768.8	85	29.4		wsw.			1		0			0	0	sm'h		clear.
Bk. Anna Thormann, S. 28° 15′, W. 27° 46′	30.24	768.0	66.9	19.4	56	ene.			2		7 k		ne.	0	0	mod.	ssw.	fair.
S. S. Antonio Lopez, Barcelona, Spain	30.16	766.1	71	21.7	75	sse.			3		2 k			0	0			clear.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.50	774.7	71	21.7		calm			0		2		ne.	0	0			clear.
Bk. Cato, N. 38° 02′, W. 62° 45′*†	30.11	764.8				wnw.			2		3		wnw.	0	0	sm'h	wnw.	fair.
Schr. C. R. Flint, N. 28° 35′, W. 85° 52′†	30.42?	772.7?	79	26.1		calm			0		5?		sse.	0	0	sm'h		clear.?
Schr. Edith R. Seward, N. 30° 18′, W. 69° 00′*†	30.21	767.3	80	26.7		wsw.			3		3		wsw.	0	0	r'gh	wsw.	fair.
S. E. J. Spicer, N. 45° 42′, W. 56° 00′†	29.57	751.1				wnw.			5		5		w.	0	0	long	wsw.	
Bk. Essex, S. 15° 10′ W. 32° 49′*†	30.11	764.8	78	25.6		ese.			3		4?		ese.	1 h'r	1 h'r	long	s.	cloudy?
Bk. Freya, N. 42° 27′, W. 53° 46′			68	20.0		wsw.			5		0			5 h'r	5 h'r	mod.	wsw.	hazy.
S. Grecian, Hong Kong, China*†	29.92	760.0	83	28.3		e.			4		2	se.	e.	0	0			clear.
Bk. Hattie G. McFarland, Portland, Me*†	29.84	757.9	70	21.1		nw.			1					0	0			clear.
S. Hedwig, N. 38° 36′, W. 16° 09′	30.31	769.8	68.9	20.5	83	calm			0		7		w.	0	0	long	nnw.	fine.
S. Ismir, S. 41° 05′, W. 10° 05′†	30.10	764.5				nnw.			4		7		nw.				nw.	fine.
S. Ivy, N. 35° 08′, W. 127° 12′†	30.34	770.6	58	14.4		n.			3		5		n.			mod.	n.	drizzling
Schr. Jennie N. Huddell, Holmes Hole, Mass†	30.04	763.0	68	20.0	74	nw.			3					0	0			clear.
Schr. John L. Thomas, Saxones Cay, Mosquito Coast*†	30.06	763.5				ese.			6		10		sse.	3 h'r	3 h'r			squally.
S. S. Lamperts, N. 15° 04′, E. 51° 52′*	25.71	754.6	82.0	27.8	89	ssw.			4		4 ks					2		misty.
S. S. Laurel, Key West, Florida†	30.18	766.6	84	28.9		se.			2		3		se.	0	0			fair.
S. S. Malabar, N. 33° 50′, E. 142° 12′*†	29.93	760.2									10			16 h'r	16 h'r	sm'h		raining.
S. M. P. Grace, N. 3° 23′, W. 28° 00′*	29.98	761.5	78	25.6		s.			3				s.	0	0	short	se.	
S. S. Nebo, N. 52° 33′ W. 28° 10′†*	29.90	759.4				w.			1		10		w.	0	0	long	ese.	cloudy.
Bk Orpheus, N. 40° 00′, W. 40° 45′	29.88	758.9	74	23.3		sw.			6		6 ks					mod.	wsw.	hazy.
S. Paramita, S. 46° 20′ W. 94° 55′†	29.21	741.9	46	7.8		w.			6		5		w.	2 h'r	2 h'r	long	wnw.	
Bk. Peppina, Newport, Eng†.	30.09	764.3	70	21.1	56	sw.			4		2		sw.	0	0			fair.
S. S. Ponca, S. 5° 20′ W. 34° 40′†	30.07	763.8	81	27.2		se.			1		5		ese.	12 h'r	12 h'r	light	ese.	fair.
Bk. Rosebud, S. 33° 32′ W. 0° 36′*†	30.23	767.8	63	17.2	88	ne.			4		0			0	0	sm'h		fine.
S. S. Sunbeam, N. 36° 40′, W. 7° 59′	30.10	764.5	68	20.0	62	calm			0		0							blue sky.
Bg. Teneriffe, Cardenas, Cuba, W. I.	30.09	764.3				e.			2		0			0	0			fine.
Bk. Truro, N. 49° 35′, W. 11° 20′*†	30.07	763.8				s.			5		4		sw.	6 h'r	6 h'r	sm'h		hazy.
U. S. F. C. S. S. Fish Hawk, St. Jerome Creek, Md†	30.23	767.8	78	25.6	95	n.			4		2		calm	0	0			clear.
S. S. Victoria J Peed, Savanilla Bay, U. S. C.						ene.			2		5							
Bk. Vincenzo Accame, N. 38° —′, W. 17° 20′†	30.47	774.0	73.4	23.0		wsw.			3									
Schr. Viola Reppard, Brunswick, Ga†	30.01	762.2	82	27.8		nw.			1		5		wsw.	0	0			fair.
Bkt. Wandering Jew, Boston, Mass†*	29.82	757.4	73	22.8		nnw.			5		3		nnw.	0	0			clear.
Bk. Warden Law, N. 50° 40′, E. 0° 10′*	30.26	768.6				wsw.			4		4		se.	0	0	sm'h	w.	fair.
Bg. Wauburn, N. 28° 15′, W. 65° 00′*†	30.30	769.6	82	27.8		w.			4		4		w.	0	0	sm'h		clear.
Bk. Wm. Wilcox, S. 14° 00′, W. 35° 00′*†	30.28	769.1	79	26.1		sse.			2		10		calm	0	0	sm'h		cloudy.
S. Wm. Woodbury, N. 37° 49′, W. 48° 40′*	29.87	758.7	78	25.6	82	sw.			6		4?		w.			long	w.	cloudy.?

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 28, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.10	764.6	75.2	24.0	83	sw.			4		9			0	0	covered	Moiroud.
Algiers			30.10	764.6	70.2	21.2	93	nnw.			2		10			0.315	8.0	covered	Nicolas.
La Calle			30.08	763.9	82.0	27.8	80	n.			1		3			0	0	pretty fair	Fonfrède.
Tunis			30.10	764.4															Jacques.
Saida			30.14	765.6	84.9	29.4	40	ene.			3		0			0	0	clear	Perès.
Tebessa			30.11	764.8	90.0	32.2	11	nnw.			2		2			inap.	inap.	fair	Derché.
Geriville					88.5	31.4	11	w.			6		8			0.004	0.1	very cloudy	Lonchamp.
Laghouat			30.15	765.7	92.1	33.4	21	e.			4		6			0.374	9.5	cloudy	Abraham.
Biskra			30.11	764.9	96.4	35.8	16	se.			2		7			0	0	very cloudy.	Malau.
Australian.																			
Melbourne, Victoria	30.01	762.2	30.10	764.5	46.7	8.2	74	n.	14	6.3			1			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.62	752.3	30.15	765.9	72.1	22.3	49	s.			2		3			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.30	744.1	30.04	763.1	70.7	21.5	47	sw.	6.3	2.8			3			0.039	1.0		Dr. Wierzbiski.
Eperies	29.21	741.8	30.06	763.5	67.3	19.6	80	se.			1		10 ks			0.228	5.8		Julius Mikolik.
Gratz	28.91	734.4	30.14	765.5	66.4	19.1	79	sw.			1		0			0.197	5.0		Andreas Rospini.
Hermannstadt	28.69	728 8	30.04	763.0	83.3	28.5	22	s.			1		3			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.80	731.4	30.10	764.5	68.9	20.5	52	nw.			1		5 k			0	0		The Staff.
Lemberg	29.13	739.9	30.10	764.4	65.7	18.7	75	nw.			2		10			0.106	2.7		Dr. T. Stanecki.
Pola	29.98	761.6	30.09	764.3	84.6	29.2	40	se.			1		0			0	0		I. R.Hydrographic Office.
Szathmar	29.67	753.5	30.11	764.9	75.6	24.2	46	sw.			4		9			0.004	0.1		Joseph Midlinszky, S. J.
Szegedin	29.82	757.4	30.09	764 2	74.5	23.6	65	calm			0		5			0.157	4.0		Karl Stancel.
Trieste	30.01	762.3	30.11	764.9	80.1	26.7	53	ne.			3		0			0	0		Royal Academy.
Vienna	29.42	747.2	30.11	764.7	74.5	23.6	32	w.			2		1			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.03	762.7	30.13	765.3	57.0	13.9	90	ene.	7	3.1			5			0	0	blue sky	W. Boswell
Armagh, Observatory																			S. Call.
Bidston, Liverpool Obs'y			30.16	766.1	62.2	16.8	77	wnw.	13	5.8			9					overcast	John Hartnup.
Bolton, Sharples	29.61	752.1	30.14	765.5	59.9	15.5	82	nw.	6	2.7			10					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.75	755.6	30.14	765.5	63.6	17.6	61	nw.			2		10			0	0	overcast	J.McLandsborough, F. R
Bridgetown, Barbadoes																			Corpl.J.Surgenor, A. H.C.
Cardington			30.15	765.8	65.2	18.4	77	w.			0.4		10					overcast	John McLaren.
Chatham, School M. E.	30.06	763.5	30.18	766.6	68.9	20.5	58	nw.			1		7					d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	30.02	762.5	30.25	768.3	64.8	18.2	75	ssw.			1		10					overcast	The Staff.
Fort Napier, Natal	27.93	709.4	30.15	765.8	70.1	21.2	23	ne.			4		1					blue sky	Pvt. Lane, A. H.C.
Free Town, Sierra Leone	29.71	754.6	29.94	760.5	85.0	29.4	100	nw.			1		3					drizzling	Sergt. John Robinson.
Gibraltar, Mediterranean	30.10	764.5	30.15	765.8	78.5	25.8	73	ne.			3		5					d. clouds	Cpl. O. Baldwin.
Glasgow, Observatory	29.90	759.4	30.11	764.8	64.5	18.1	65	wnw.			1		7 k					misty	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.00	762.0	30.17	766.3	69.0	20.6	58	w.			1		9					overcast	The Staff.
Guernsey	29.96	761.0	30.20	768.6	60.5	15.8	91	w.			1		10					raining	A. Collenette, F. M. S.
Kew, Observatory	30.15	765.8	30.19	766.8	66.9	19.4	58	w.	12	5.4			8					d. clouds	The Staff.
Leicester, Museum	29.89	759.2	30.14	765.5	64.0	17.8	62	sw.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	30.06	763.5	30.13	765.3	84.0	28.9	49	se.			2		0					blue sky	I. H. Whysall.
Nassau, Bahamas	30.13	765.3	30.18	766.6	84.0	28.9	70	se.			1		2					blue sky	G. S. Duncombe.
Oscott, St. Mary's College	29.64	752.8	30.16	766.1	63.5	17.5	69	wsw.			3		9					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.96	761.0	30.19	766.8	64.2	17.9	93	w.			3		10					overcast	The Staff.
Plymouth	30.16	766.1	30.23	767.8	65.2	18.4	70	sw.			2		10					overcast	John Merrifield.
Sandwick Manse, Orkneys.			30.15	765.8	53.9	12.2	96	w.	8	3.6			10					foggy	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.06	763.5	30.13	765.3	84.0	28.9	40	ne.			2		1					blue sky	W. H. Lyne.
Sheffield	29.86	758.4	30.14	765.5	67.6	19.8	70	sw.			1		9			0	0	overcast	W. F. Cooper.
Silloth Rectory	30.09	764.3	30.12	765.0	66.6	19.2	71	w.			3		4			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.11	764.8	60.0	15.6	88	wsw.	9	4.0			10					overcast	J. New.
Stratfield Turgiss	30.00	762.0	30.21	767.3	67.8	19.9	62	w.			2		7					d. clouds	Rev.C.H.Griffiths, F.M.S
Truro, Royal Institution	30.22	767.6	30.23	767.8	66	18.9	90	sw.			2		10					raining	W. Newcombe.
Valencia, Observatory	30.14	765.5	30.16	766.1	64.1	17.8	76	sse.	10	4.5			10					d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.63	752.6	29.67	753.6	52	11.1	82	n.	12	5.4			10 n		n.	0.100	2.5	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.71	754.6	29.77	756.1	54	12.2	86	ne.	3	1.3			10 s		ne.	0	0	cloudy	G. A. Blair.
Father Point, Quebec*	29.73	755.1	29.75	755.6	58	14.4	93	w.	5	2.2		2 c	0	w.		0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.22	742.2	30.04	763.0	49	9.4	80	sw.	3	1.3		5 cs	2 k	sw.	sw.	0	0	fair	
Halifax, N. S*	29.57	751.1	29.69	754.1	66	18.9	68	nw.	8	3.6		0	0			inap.	inap.	clear	A. Allison.
Kingston, Ontario*	29.55	750.6	29.88	758.9	63	17.2	84	calm	0	0			8 ks		nw.	0.03	0.8	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.60	751.8	29.80	756 9	64	17.8	78	sw.	6	2.7		5 ck	2 ks	w.	w.	inap.	inap.	cloudy	O. H. McLeod, C. E.
Parry Sound, Ontario*	29.20	741.7	29.87	758.7	62	16.7	84	s.	4	1.8		2 k	0	nw.		0.05	1.3	fair	Rev. R. Mosley.
Port Dover, Ontario	29.25	742.9	29.92	760.0	62	16.7	88	calm	0	0		5 k	5 ks	w.		0.01	0.3	cloudy	H. Morgan.
Port Stanley, Ontario	29.28	743.7	29.91	759.7	66	18.9	84	calm	0	0			10 k		w.	inap.	inap.	cloudy	M. Payne.
Quebec, Quebec*	29.49	749.0	29.80	756.9	60	15.6	84	w.			3	8 k	2 s			0	0	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.40	746.7	29.84	757.9	62	16.7	72	w.	3	1.3		0	0			0	0	clear	W. H. McIntyre.
Saugeen, Ontario*	29.22	742.2	29.92	760.0	60	15.6	87	w.	2	0.9		0	0			0.2	5.	clear	
St. Andrews, N .B	29.68	753.9	29.73	755.1	63	17.2	59	nw.	6	2.7		0	0			0	0	clear	
Sydney, C. B*	29.51	749.5	29.57	751.1	51	10.6	93	n.	9	4.0			10 n			0.04	1.0	cloudy	T. C. Hill, C. E
Toronto, Ontario*	29.55	750.6	29.92	760.0	65	18.3	78	calm	0	0			10 ks		w.	0	0	cloudy	Magnetic Observatory.
Yarmouth, N. S*	29.69	754.1	29.75	755.6	58	14.4	74	n.	5	2.2		3 ck	0	w.		0	0	fair	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.55	725.2	29.98	761.5	62.0	16.7	88	nw.				8 ck	0	nw.		0	0	cloudy	Wm. Wylie.
St. Johns, Newfoundland					48	8.9	100	ne.	1	0.4			fg.			0.30	7.6	foggy	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.11	764.8	30.14	765.5	72.0	22.2	51	nw.	8.5	3.8		0	5 ks			0	0		John Duthie.
Cape Town, C. G. H. Obs'y	30.06	763.5	30.10	764.5	60.0	15.6	94	wnw.	14	6.3		10	10			0.390	9.9		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
CHINESE (*Sub-series*).																			
Hankow	29.74	755.4	30.00	762.0	74.8	23.8	88	ene.			2		10			0	0	overcast	N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.94	760.4	29.96	761.0	63.9	17.7	96	e.	20.6	9.2			10 n		e.	0.638	16.2	raining	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.92	760.0	29.97	761.2	61.2	16.2	84	sw.	9	4			10						Oversergent Fischer.
Fanöe	29.90	759.4	29.92	759.9	65.8	18.8	81	w.			4		8						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	30.19	766.8	30.23	767.9	52.3	11.3	82	se.			2		5						A. O. Thoriacius.
Thorshavn	30.12	765.1	30.16	766.0	54.0	12.2	93	calm	0	0			10						Overloerer Bergh.
Vestervig	29.84	757.8	29.93	760.1	69.4	20.8	68	nnw.			2		3						Loearer Oesterboi.
FRENCH.																			
Agen, Normal School	29.58	751.3	30.21	767.4	76.6	24.8	39	calm			0		0			0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.75	755.7	30.30	769.7	68.0	20	69	sw.			1		8			0	0		M. Nicot, Director.
Arras, Engineer School	29.95	760.6	30.20	767.0	63.0	17.2	78	nnw.			8		ks		w.	0	0		M. Fénéon, Command't.
Avignon, Normal School	30.04	763.1	30.12	765.1	79.5	26.4	40	n.			3		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.70	754.4	30.24	768.2	70.0	21.1	44	nw.			1		4			0	0		M. Saillard, Director.
Beauvais, Normal School	29.98	761.6	30.24	768.2	69.8	21	59	w.			2		8		w.	0	0	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.37	745.9	30.34	770.6	70.2	21.2	67	wsw.			1		k		sse.	0	0		M. Gobin, Director.
Bordeaux, Observatory	29.97	761.1	30.22	767.5	74.8	23.8	39	ne.			1		0			0	0	clear	M. Rayet, Director.
Bourges, Normal School	29.73	755.2	30.27	768.8	74.8	23.8	30	n.			1	c	0	n.		0	0		M. Postel, Director.
Brest, Naval Observatory	30.05	763.3	30.30	769.5	76.3	24.6	46	sw.			1		8			0	0		M. de Kermaree, Dir.
Caen, Normal School	30.19	766.7	30.26	768.5	70.9	21.6	63	w.			1		8		w.	0	0	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.88	759.0	30.20	767.0	69.8	21.0	61	w.			2		8	w.	nw.	0	0	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.67	753.5	30.17	766.3	69.1	20.6	59	nw.			2		5			0	0	½ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.91	734.4	30.24	768.0	70.9	21.6	45	n.			1		0			0	0	clear	M. Allnard, Director.
Cluny, Normal School	29.43	747.4	30.25	768.4	69.8	21	59	ne.			1		1			0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.37	746.0	30.22	767.6	67.5	19.7	68	w.			3		knc	w.	w.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.64	702.0	30.05	763.3	78.6	25.9	31	ne.			2		8			0	0		M. Jeangirard, Director.
Gréasque, du Rhone	29.00	736.7	30.07	763.7	86.9	30.5	20	sw.			2		0			0	0		M. Kina, Director.
Grenoble, Normal School	29.43	747.5	30.17	766.4	73.4	23	55	nw.			1		0			0	0	clear	M. Ablard, Director.
Guéret, Normal School	28.74	730.1	30.30	769.5	68.0	20.	42	ne.			1		1		se.	0	0	clear	M. Rivoire, Director.
Lamballe, Normal School	29.97	761.2	30.24	768.2	71.2	21.8	59	nw.			1		1c		nw.	0.08	2.	covered	M. Ollitrault, Director.
Lescar, Normal School	29.64	752.9	30.19	766.8	77.9	25.5	41	e.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.21	767.4	30.32	770.0	70.2	21.2	67	ssw.			1		8			0	0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.21	741.9	30.24	768.2	71.2	21.8	44	n.			2		0			0	0	clear	M. André, Director.
Mans, Normal School	29.98	761.4	30.28	769.1	68.9	20.5	47	ne.			1		2		w.	0	0	slightly cld'y	M. Piboen, Director.
Marseille, Observatory	29.84	758.0	30.11	764.7	80.6	27.0	33	w.			1		0			0	0		M. Stephan, Director.
Montlouis	25.07	636.7	29.91	759.7	71.2	21.8	33	ne.	3.8	1.7			0			0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.98	761.6	30.11	764.8	86.7	30.4	30	calm			0		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.43	747.6	30.20	767.0	68.0	20.0	55	ssw.			1	ck	0			0	0		M. Hasse, Director
Nantes. Observatory	30.15	765.9	30.32	770.0	74.5	23.6	51	nne.			0–1	c	2 k			0	0		M. Larocque, Director.
Perpignan, Observatory	30.04	763.1	30.15	765.7	85.6	29.8	27	se.	7.4	3.3			0			0	0	clear	Dr. Fines, Director.
Pic-du-Midi, Summit	21.55	547.4			52.5	11.4		w.			1		1		w.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.13	740.0	30.16	766.1	76.3	24.6	49	n.			1		5			0	0	cloudy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.42	645.6			48.0	8.9	80	ene.			2		0			0.008	0.2	clear	M. Allnard, Director.
Rochefort, Naval Obs'y	30.23	767.8	30.26	768.6	76.6	24.8	100	e.			1		1		ne.	0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.05	763.3	30.26	768.6	73.2	22.9	74	ne.			1		5		n.	0	0	cloudy	M. Mouillot, Director.
Rodez, Normal School	28.17	715.4	30.26	768.6	72.7	22.6	37	nw.			1					0	0		M. Seger, Director.
Rouen, Normal School	30.21	767.2	30.25	768.4	68.4	20.2	65	sw.			1		10	w.		0	0	covered	M. Brotier.
Saint Maur, Observatory	30.08	764.1	30.25	768.3	72.1	22.3	52	nw.			1		3	w.	nw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.53	750.0	30.26	768.5	80.2	26.8	32	wnw.			1		0			0	0	clear	M. Baillaud, Director.
Tours	30.09	764.2	30.26	768.7	69.8	21.0	59	wsw.			1		2	sw.	nnw.	0	0	slightly cl'dy.	M. de Tastes.
Versailles, Observatory	29.77	756.1	30.26	768.6	71.2	21.8	53	nw.			2					0	0		Dr. A. Berigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.97	761.2	30.26	768.6	72.0	22.2	52	wnw.			2		8		wnw.	0	0		M. Marié Davy, Director
GERMAN.																			
Bamberg	29.26	743.1	30.11	764.8	61.7	16.5	73	nw.			3	0	8 n		w.	0.16	4.	raining	Prof. Dr. Hoh.
Berlin	29.85	758.3	30.03	762.8	60.1	15.6	79	se.			2		10			0.146	3.7		Prof. Dr. Arndt.
Breslau	29.57	751.1	30.10	764.6	59.0	15.0	77	wsw.			2		10			0.244	6.2	showery	Royal University Obs'y.
Carlsruhe	29.72	754.9	30.15	765.7	69.8	21.0	57	sw.			5		10	sw.		0	0		Albert Senz.
Cassel	29.31	744.5	30.02	762.6	61.2	16.2	76	w.			4		8	sw.		0.106	2.7		Dr. H. Möhl.
Frankfort-on-the-Main	29.76	755.8	30.12	765.0	62.2	16.8	82	w.			1		9			0.591	15.0		Physical Society.
Friedrichshafen	28.78	731.0	30.18	766.6	67.6	19.8	56	wsw.			4		2	wnw.		0	c		Wilhelm, Chief Tel.
Hamburg	29.91	759.6	30.00	762.0	63.0	17.2	64	wnw.			3		9			0.169	4.3		E. Preller.
Kiel	29.96	761.0	29.98	761.4	61.3	16.3	76	nnw.			2		10			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.54	750.4	29.96	761.0	60.1	15.6	82	w.			5		9	wnw.		0.244	6.2	raining	H. Leppig, Asst.
Magdeburg	29.75	755.7	29.94	760.5	63.0	17.2	71	n.			1		10 ks		nw.	0.087	2.2		Dr. Assmann.
Memel	30.01	762.2	30.06	763.4	72.1	22.3	67	wsw.			3		9 s						Issermann.
Munich	28.36	720.3	30.23	767.9	68.4	20.2	40	nw.			4		3	sw.		0.008	0.2		Central Station.
Neufahrwasser	30.00	762.1	30.02	762.5	73.0	22.8	54	sw.			1		9			0.016	0.4		A. Lothes.
Neustadt, Palatinate	29.60	751.7	30.12	765.1	66.2	19.0	58	w.			4		10	w.		0	0		Dicknether.
Stuttgart	29.20	741.7	30.06	763.6	71.6	22.0	39	w.			5		4	w.		0	0		Prof. Dr. Schoder.
Wustrow	29.98	761.6	30.01	762.3	62.4	16.9	80	nw.			3	0	5 s			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.75	755 7			83.3	28.5		ne.			4.0		0			0	0	clear	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.62	752.4	29.67	753.6	86.9	30.5	80	wsw.	28.c	12.5			8		w.	0	0	gloomy	
Deesa	29.14	740.0	29.59	751.6	97.9	36.6	34	wsw.	16.9	7.6			4	wsw.	wsw.	0	0	d. clouds	
Bombay	29.74	755.4	29.78	756.3	82.9	28.3	81	wsw.	16.0	7.2			10		w.	0.31	7.9	overcast	
Poona, Yarrowda	27.91	708.9	29.76	756.0	77.3	25.2	76	wsw.	22.0	9.8			10	w.	w.	0.16	4.1	overcast	
Trichinopoly	29.50	749.2	29.77	756.2	92.9	33.8	43	wnw.	2.0	0.9			6			0	0	d. clouds	
Bellary	28.28	718.3	29.73	755.0	85.5	29.7	55	wnw.	14.c	6.3			10			0	0	gloomy	
Belgaum	27.28	692.9	29.84	757.9	71.1	21.7	88	wsw.	7.0	3.1			9		sw.	0.29	7.4	showery	
Lahore	28.74	730.1	29.44	747.7	108.3	42.4	22	w.	2.2	1.0			4			0	0	misty	
Roorkee	28.72	729.4	29.59	751.6	88.2	31.2	59	se.	6.6	3.0			7			0	0		
Agra	29.05	737.9	29.60	751.8	94.1	34.5	52	e.	6.1	2.7			4		e.	0	0	d. clouds	
Nagpur	28.62	726.9	29.66	753.4	76.7	24.8	92	calm	4.8	2.2			9		w.	2.14	54.4	gloomy	
Jubbulpore	28.34	719.9	29.70	754.3	78.8	26.0	87	e.	4.7	2.1			10		e.	0.41	10.4	overcast	
Lucknow	29.29	744.0	29.66	753.4	87.1	30.6	71	calm	3.3	1.5			6	wsw.		0	0	d. clouds	
Allahabad	29.32	744.7	29.63	752.6	79.8	26.6	93	e.	1.5	0.7			10			1.86	47.2	overcast	
Patna	29.50	749.3	29.68	754.0	84.2	29.0	75	se.	6.3	2.8			6	se.	se.	0.62	15.7	d. clouds	
Hazaribagh	27.69	703.2	29.68	753.8	79.8	26.6	82	e.	4.9	2.2			10	w.	w.	0.05	1.3		
Cuttack	29.61	752.0	29.69	754.0	88.7	31.5	63	sse.	1.6	0.7			4			0.06	1.5	d. clouds	
Calcutta, Alipore	29.62	752.4	29.65	753.0	83.1	28.4	81	sw.	6.0	2.7			8	s.		0	0	d. clouds	
Dhubri	29.58	751.4	29.70	754.3	83.9	28.8	80	calm	3.5	1.6			6			0.11	2.8	d. clouds	
Chittagong	29.66	753.3	29.75	755.5	83.5	28.6	83	s.	4.5	2.0			6			0	0	blue sky	
Sibsagar	29.38	746.3	29.72	754.8	84.6	29.2	81	ne.	3.1	1.4			8	w.	w.	0.50	12.7	d. clouds	
Jeypore	28.20	716.2	29.61	752.0	89.4	31.9	55	ne.	6.6	3.0			9		ne.	0	0	d. clouds	
Zanzibar, Africa	30.07	763.8			82.4	28.0	55	sse.	9.3	4.2			6		sse.	0	0	d. clouds	
ITALIAN.																			
Udine	29.74	755.4	30.13	765.4	75.7	24.3	55	se.	3.8	1.7			1			0	0		Prof. Giovanni Clodig.
Milan	29.63	752.6	30.13	765.2	80.6	27.0	42	se.	5.6	2.5			2	w.		0	0		Prof. Schiaparelli.
Padua	30.01	762.3	30.12	765.0	76.5	24.7	44	ene.	8.1	3.6			0			0	0		Prof. Dott, Lorenzoni.
Moncalieri	29.22	742.1	30.09	764.2	78.3	25.7	49	ene.	3.1	1.4			6	e.		0	0		Prof. P. F. Denza.
Genoa	29.93	760.3	30.12	765.0	76.1	24.5	60	sw.	2.5	1.1			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.22	716.9	30.06	763.5	76.3	24.6	53	w.			2		1	wnw.		0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Pesaro	30.03	762.7	30.08	763.9	79.5	26.4	54	e.	13.7	6.1			0			0	0		Prof. Luigi Guidi.
Florence	29.82	757.5	30.07	763.8	83.8	28.8	37	nw.			2		1	s.		0	0		Prof. Costantino Pitter.
Leghorn	29.95	760.6	30.03	762.7	79.3	26.3	59	w.	3.8	1.7			3			0	0		Prof. P. Monte.
Rome	29.93	760.2	30.10	764.5	87.4	30.8	26	ssw.	15.0	6.7			1			0	0		Prof. P. S. Ferrari.
Lecce	29.87	758.6	30.11	764.8	90.0	32.2	28	sw.	4.3	1.9			0			0	0		Prof. C. de Giorgi.
Cosenza	29.24	742.6	30.09	764.3	88.5	31.4	73	wsw.	3.1	1.4			0			0	0		Prof. D. Conti.
Cagliari	29.85	758.1	30.04	762.9	81.3	27.4	54	s.			4		0			0	0		Prof. A. Pacinotti.
Palermo	29.89	759.2	30.13	765.4	82.0	27.8	53	ene.	6.9	3.1			1			0	0		Prof. G. Ciacciatore.
Syracuse	30.01	762.2	30.05	763.3	95.7	35.4	59	s.	2.5	1.1			3	sw.		0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.60	751.9	30.10	764.5	84.2	29.0	41	se.	1.3	0.6			2			0	0		Prof. T. Brioschi.
Stelvio	22.39	568.8			49.8	9.9	29	w.			2		3			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.46	570.5			54.9	12.7	61	ne.			2		4			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.92	759.9	29.95	760.7	63.0	17.2	76	w.	11.8	5.3		0	9 ks;s		w.	0.011	0.3	cloudy	K. Ogawa.
Hakodate	29.91	759.7	29.92	759.9	60.0	15.6	82	wnw.	12.0	5.4			2			0	0	clear	
Hiroshima, I. M. Obs'y	29.87	758.7	29.89	759.2	73.2	22.9	82	sw.	0.8	0.4		10ck;cs	0			0	0	overcast	I. Sogawa.
Kanazawa	29.80	756.9	29.90	759.4	63.7	17.6	92	n.	2.3	1.0		2 ck	0			0	0	fair.	S. Endo.
Kioto	29.78	756.4	29.95	760.7	70.4	21.3	65	nne.	4.0	1.8		9ck;cs	0	w.				cloudy	M. Tojima.
Kochi	29.96	761.0	29.98	761.5	72.7	22.6	83	ene.	3.0	1.3		cs	10 s		s.	0	0	cloudy	K. Kusunose.
Nagasaki, I. M. Obs'y	29.79	756.6	29.98	761.5	70.3	21.3	87	sw.	0.9	0.4			10 s			0	0	overcast	S. Takehayashi.
Nemuro	29.91	759.7	29.97	761.2	52.0	11.1	86	calm	0	0		10	0			0	0	foggy	
Niigata	29.97	761.2	30.01	762.2	62.2	16.8	88	nne.	5.1	2.3		0	0			0	0	clear.	M. Morita.
Nobiru	29.96	761.0	29.97	761.2	64.4	18.0	80	s.	4.1	1.8		0	0			0	0	clear.	H. Midzushina.
Supporo					57.0	13.9	98	n.	7.2	3.2			10			inap.	inap.	covered	
Tokei Obs'y, Yeddo	29.93	760.2	29.99	761.7	65.9	18.8	91	w.	2.7	1.2		7 c;cs	0			0	0	fair	The Staff.
Wakayama	29.90	759.4	29.95	760.7	73.1	22.8	83	sw.	3.6	1.6		10 ck	0			0.004	0.1	cloudy	Y. Kuwamuea.
MAURITIUS																			
Mauritius Observatory	30.01	762.2	30.20	767.1	68.8	20.4	49	sse.	15.0	6.7		0	2 k;ks		sse.	0.01	0.3	fair	Oliver & Fig m.
MEXICAN.																			
Guanajuato	23.71	602.3	29.94	760.3	58.1	14.5	86	e.				5 c	4 k	e.	e.	0.032	0.8	cloudy	Prof. Vicente Fernandez.
Leon	24.38	619.2	30.02	762.5	61.3	16.3	86	ssw.			1	6 c	2 k	sw.	sw.	0.197	5.0	very cloudy	Prof. M. Leal.
Mazatlan	29.70	754.4	29.96	760.9	75.0	23.9	86	e.	1.6	0.8			10 n		e.	0.079	2.0	covered	F. Quijano, C. E.
Mexico, Central Obs'y	23.16	588.2	30.20	767.1	54.0	12.2	96	nw.	0.4	0.2		3 ck	3 ks	nw.		0.236	6.0	½ clouded	The Staff.
Morelia	24.17	614.0	30.23	767.9	60.0	15.9	63	se.			3	2	4	e.	e.	0.386	9.8	½ clouded	M. Tena, M. D.
Pabellon, Aguascallentes	24.00	609.5	29.98	761.4	59.9	15.6	89	calm			0	0	9 ks		ese.	1.244	31.6	cloudy	M. Y. de Leon, M. E
Puebla, Catholic Institute	23.47	596.0	30.26	768.6	52.2	11.2	88	calm	0	0		0	3		ese.	0.704	17.9		Prof. P. Spina.
San Luis Potosi	24.30	617.3	30.23	767.8	65.7	18.7	62	se.					10		e.	0	0	covered	G. Barroeta, M. D.
Zacatecas	22.61	574.1	30.22	767.5	53.4	12.0	92	e.	7.7	3.4		7 cs	0	se.		0	0		J. A. Bonilla, M. E
NETHERLANDS.																			
Flushing	30.18	766.6	30.18	766.6	64.0	17.8		w.			4					0.024	0.6		
Groningen	30.01	762.3	30.07	763.7	63.9	17.7		n.			1					0.012	0.3		
Helder	30.10	764.4	30.10	764.4	57.9	14.4		wnw.			1					0	0		
Hellevoetsluis	30.16	766.1	30.16	766.1	59.4	15.2	87	nw.			2					0.185	4.7		
Utrecht	30.09	764.2	30.13	765.4	66.0	18.9	72	w.			2		5			0.031	0.8	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.91	759.7	29.97	761.3	71.6	22.0	46	nnw.	13	6			1			0	0		
Brono	30.02	762.4	30.06	763.4	57.2	14.0	71	n.	18	8			3			0	0		
Christiania	29.73	755.2	29.87	758.7	81.7	27.6	35	w.	0	0			4			0	0		
Gjesvær	30.26	768.7	30.29	769.3	45.3	7.4		nw.			4		5						
Lodingen	30.12	765.1	30.17	766.3	52.0	11.1	44	ne.			7		0			0	0		
PORTUGUESE.																			
Angra, Azores					70.7	21.5	91	sw.	9.8	4.4			5			0	0		
Campo Major	29.16	740.7	30.12	765.0	82.8	28.2	27	wnw.	10.5	4.7			1			0	0		Dr. J. A. Sampaio.
Funchal, Maderia	30.26	768.7	30.35	770.9	70.7	21.5	62	sw.	8.1	3.6			9			0	0		Dr. A. M. R. dos Santos.
Lisbon, Observatory	29.89	759.2	30.24	768.2	71.6	22.0	50	nw.	11.2	5.0			0			0	0		Capt. D. A. de Oliha.
Ponta Delgada, Azores	30.30	769.5	30.37	771.3	75.9	24.4	67	ssw.	6.9	3.1			5			0	0		The Staff.
Saint Paul de Loando	29.87	758.8	30.08	764.0	71.6	22.0	81	nne.	0.7	0.3			10			0	0		
Serra da Estrella	25.53	648.5	30.07	763.7	72.0	22.2	26	e.	8.7	3.9			0			0	0		
RUSSIAN.																			
Akmolinski	28.60	726.5	29.65	753.0	60.8	16.0	37	wnw.	13	6			9 ks			0	0		
Archangel	29.85	758.3	29.87	758.8	44.8	7.1	62	nnw.	18	8			9 k			0.094	2.4		Major K. Lasarew.
Astrakhan	29.99	761.7	29.91	759.6	82.2	27.9	36	wnw.	16	7			9 kn			0	0		Capt. Sseliwerstow.
Barnaul	29.19	741.4	29.66	753.4	74.7	23.7	38	calm	0	0			9			0	0		Capt. Wisganow.
Dorpat	29.63	752.7	29.86	758.5	80.6	27.0	37	w.	11	5		0	0			0	0		Meteorological Obs'y.
Ekaterinburg	28.70	729.0	29.66	753.3	46.0	7.8	51	w.	13	6			10			0	0		Observatory.
Irkutsk	28.36	720.4	29.97	761.2	61.3	16.3		calm	0	0			9			0.165	4.2	thnd'r storm	Meteorological Obs'y.
Kasan	29.40	746.8	29.66	753.4	61.9	16.6	50	wsw.	2	1			10			0	0		Observatory.
Kertch	30.00	762.0	30.02	762.5	75.7	24.3	54	nw.	18	8		0	2 k			0.039	1.0		Lagorio & Sastyrez.
Kieff	29.38	746.2	29.98	761.5	78.6	25.9	45	nnw.	2	1		ck	8 ks			0	0		Observatory.
Lugan	29.72	754.8	29.91	759.8	77.4	25.2	50	nw.	9	4			7			0	0		Meteorological Obs'y
Moscow	29.28	743.6	29.72	754.8	79.0	26.1	49	n.	7.8	3.5			3 ks						Meteorological Obs'y.
Nikolaiev	30.01	762.3	30.08	764.1	77.4	25.2	65	sw.	0	0		0	0			0.008	0.2		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.83	757.7	29.92	759.9	57.7	14.3	76	se.	13	6			8			blank	blank		Lieut. Iwanow.
Pekin, China	29.61	752.1	29.75	755.7	86.5	30.3	52	calm	0	0		0	1 k			0	0		Physical Observatory
St. Petersburg	29.77	756.1	29.78	756.5	68.0	20.0	78	nne.	4	2			10 n			0.283	7.2		Central Physical Obs'y
Semipalatinsk	29.08	738.7	29.70	754.3	80.6	27.0	31	calm	0	0		0	7			0.020	0.5		Major Lasarew.
Tashkend, Laboratory	28.31	719.1	29.78	756.3	86.4	30.2	32	calm	0	0			0						Teich, A. M.
Tiflis	28.62	727.0	29.97	761.2	80.8	27.1	40	nw.	13	6		0	1 k			0	0		Physical Observatory
Vladivostock	29.82	757.3			56.3	13.5	98	se.	22	10			10 n						
Warsaw	29.63	752.6	30.04	763.0	71.1	21.7	56	ssw.	9	4			10 ks						Astronomical Obs'y
Wilna	29.58	751.2	29.97	761.3	79.2	26.2	37	w.	2	1			2			0.622	15.8		Berg, Assistant.
SPANISH.																			
Barcelona, Met. Obs'y	30.02	762.5	30.12	765.1	75.9	24.4	62	se.	4.3	1.9			0			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	30.13	765.2	30.19	766.7	82.4	28.0	47	se.	2.0	0.9		0	0			0	0	clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.25	692.1	30.07	763.7	82.2	27.9	28	ne.	4.9	2.2			0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.96	710.2	30.07	763.8	85.5	29.7	38	w.	3.4	1.5		0	2			inap.	inap.		The Staff.
Murcia, Met. Obs'y	30.01	762.3	30.15	765.8	83.1	28.4	49	ese.	6.3	2.8		1	3	e.		0	0	clouds	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.26	743.1	30.12	765.1	79.0	26.1	59	calm	0	0			3			0	0		R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.03	762.7	30.09	764.4	77.5	25.3	78	e.	7.8	3.5		0	0			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.84	757.9	29.90	759.4	79.5	26.4	89	e.	0.4	0.2		6 c	3 ck		ne.	0.118	3.0	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.11	764.8	30.21	767.3	77.5	25.3	66	calm	0	0		0	3		sw.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.01	762.2	30.10	764.5	80.6	27.0	89	calm	0	0		4 cs	1 k	s.	s.	0	0	d. clouds	Manuel Maese.
Tuguegarao, Philippine Id's	29.76	755.9	29.89	759.2	80.6	27.0	89	nw.	0	0		6 cs	1 ks	e.		inap.	inap.	cloudy	José L. Yrastorza.
SWEDISH																			
Haparanda	30.09	764.3	30.13	765.3	52.5	11.4	78	ne.			6		8			0	0		
Umea	30.06	763.5	30.11	764.8	55.0	12.8	56	e.			6		3			0	0		
Hernosand	30.01	762.3	30.06	763.6	51.8	11.0	56	ne.			8		2			0	0		
Stockholm	29.69	754.2	29.87	758.7	71.6	22.0	50	n.			4		0			0	0		
Wisby	29.89	759.1	29.95	760.6	66.2	19.0	77	wsw.			2		5			0	0		
Sub-series.																			
Upsala	29.85	758.1	29.93	760.3	60.3	15.7	66	n.	16.1	7.2			5		ne.	0.016	0.4		S. G. Fineman.
SWISS.																			
Geneva	28.83	732.2	30.22	767.5	66.2	19.0	44	n.			1					0	0	clear	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
SCOTTISH.																			
Monach Lt			30.14	765.5	58	14.4	93	e.			3	0	0			0	0		J. Youngclause.
North Unst			30.13	765.3				w.			2	0	0					foggy	
TURKISH.																			
Constantinople			30.19	766.9	75.9	24.4	44	ne.	10	4.5			1		ne.	0	0		The Observatory.
Valona			30.26	768.7	81.7	27.6		s.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.90	759.4	81.0	27.2	68	nw.			1	0	0			0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.82	757.4	29.90	759.4	71	21.7	57	s.	5	2.2		7 c	0	nw.		0	0	fair	J. O. Barnes.
Alpena, Michigan	29.31	744.5	29.96	761.0	63	17.2	73	nw.	10	4.5		0	4 s			0.27	6.9	fair	Jas. J. Fitzgerald.
Atlanta, Georgia	28.90	734.0	30.05	763.3	80.0	26.7	74	nw.	7	3.1		3 c	0			0	0	clear	H. Hall.
Atlantic City, New Jersey	29.90	759.4	29.91	759.7	68	20.0	87	se.	2	0.9		4 ck	5 k	w.	w.	0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.86	758.4	30.04	763.0	77	25.0	90	se.	1	0.4		0	0			1.05	26.7	clear	John Henly.
Baltimore, Maryland	29.89	759.2	29.94	760.5	69	20.6	78	nw.	10	4.5			10 n		w.	0.12	3.0	light rain	Robert Seyboth.
Barnegat, New Jersey	29.88	758.9	29.90	759.4	69.8	21.0	79	s.	4	1.8			10 s		nw.	0	0	threatening	Chas. F. Merritt.
Behring Island, Behring Sea	29.77	756.1	29.79	756.7	49.2	9.6		se.	5	2.2		1 ck	8 s			0	0	cloudy	Dr. L. Steineger.
Bismarck, Dakota	28.11	714.0	29.86	758.4	65	18.3	90	se.	15	6.7		8 c	0	sw.		0.01	0.3	cloudy	Cyrus Cramer.
Boise City, Idaho	27.11	688.6	29.89	759.2	48	8.9	68	w.	2	0.9		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.70	754.4	29.85	758.2	67.0	19.4	61	w.	3	1.3		6 c	hz.	nw.		0	0	fair	O. B. Cole.
Brownsville, Texas	29.98	761.5	30.02	762.5	77.0	25.0	90	calm	0	0		0	2 ks		calm	0	0	clear	M. McCarty.
Buffalo, New York	29.18	741.2	29.92	760.0	66.2	19.0	80	calm	0	0		1 ck	7 ks;hz	w.	w.	0	0	cloudy	Wm. Finn.
Burlington, Vermont	29.55	750.6	29.84	757.9	66.0	18.9	70	s.	7	3.1			10 s		w.	inap.	inap.	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.66	753.4	30.04	763.0	82.9	28.3	75	sw.	6	2.7		4 cs	0	w.		0	0	fair	W. H. Ray.
Campo, California	27.34	694.4	29.82	757.4	44.5	6.9	76	w.	2	0.9		1 c	0			0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.18	690.4	29.81	757.2	74	23.3	73	s.			1		9 ks		sw.	inap.	inap.	cloudy	J. T. Fitzgerald.
Cape Henry, Virginia	29.93	760.2	29.95	760.7	77	25.0	64	sw.	12	5.4		5 ck	0			0	0	fair	A. K. Alderson.
Cape May, New Jersey	29.88	758.9	29.91	759.7	71	21.7	76	sw.	5	2.2			10 ks		w.	0	0	cloudy	W. Bolton.
Cedar Keys, Florida	30.10	764.5	30.12	765.0	82	27.8	74	sw.	11	4.9		4 ck	3 ks		sw.	0	0	fair	F. W. Mixer.
Champaign, Illinois	29.16	740.7	29.95	760.7	71.7	22.1	82	w.	9	4.0			10 s		w.	1.76	44.7	cloudy	L. A. Welsh.
Charleston, S. Carolina	29.97	761.2	30.02	762.5	80	26.7	82	w.	7	3.1		0	0			0.09	2.3	clear	J. H. Smith.
Charlotte, N. Carolina	29.14	740.1	29.97	761.2	82.0	27.8	67	w.	2	0.9		0	hz.			0.18	4.6	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.25	742.9	30.06	763.5	80.0	26.7	79	sw.	4	1.8		1 ks	0			0.10	2.5	clear	B. L. Goulding.
Cheyenne, Wyoming	24.02	610.1	29.76	755.9	59.2	15.1	48	nw.	8	3.6		6 c	0	w.		0	0	fair	E. McGovern.
Chicago, Illinois	29.25	742.9	29.94	760.5	63.6	17.6	95	n.	7	3.1			10 k		w.	0.56	14.2	cloudy	J. Mitchell.
Chincoteague, Virginia	29.91	759.7	29.93	760.2	74	23.3	76	s.	6	2.7		3 c	0			0	0	clear	V. P. Temple.
Cincinnati, Ohio	29.31	744.5	29.96	761.0	78	25.6	69	w.	3	1.3		7 c;k	0	w;sw		0.16	4.1	clearing	R. B. Watkins.
Cleveland, Ohio	29.22	742.2	29.94	760.5	69.1	20.6	74	se.	3	1.3		5 c;k	4 ks	nw.	w.	0.01	0.3	cloudy	J. B. Newlin.
Coleman City, Texas	28.24	717.3	29.99	761.7	74	23.3	59	se.	9	4.0		6 c	0			0	0	fair	L. Dorman.
Columbus, Ohio	29.09	738.9	29.93	760.2	75	23.9	82	w.	3	1.3		5 ck	5 ks	w.	w.	0	0	cloudy	D. Cuthbertson.
Concho, Texas	28.09	713.5	29.96	761.0	75	23.9	82	se.	10	4.5		5 c	0	s.		0	0	fair	W. W. McConihe.
Davenport, Iowa	29.33	745.0	29.97	761.2	73	22.8	84	sw.	3	1.3			10 ks		sw.	0	0	cloudy	R. R. Marth.
Dayton, Washington T'y	28.24	717.3	29.98	761.5	51	10.6	90	calm	0	0		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.30	642.6	29.73	755.1	58	14.4	83	calm	0	0			10 k		w.	0.03	0.8	cloudy	G. W. Scott.
Decatur, Texas					79	26.1	37	se.	8	3.6		0	2 s			0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	29.90	759.4	29.92	760.0	72	22.2	84	sw.	14	6.3		2 k	7 s	sw.	w.	0	0	cloudy	F. C. Pratz.
Denison, Texas	29.23	742.4	30.01	762.2	76.3	24.6	82	s.	5	2.2		0	0			0	0	clear	J. McGlone.
Denver, Colorado	24.70	627.4	29.74	755.4	64.3	17.9	55	s.	7	3.1		4 ck	0	sw.		0	0	fair	F. M. Neal.
Des Moines, Iowa	29.11	739.4	29.99	761.7	64	17.8	93	e.	12	5.4			10 n		w.	2.05	52.1	thnd'er st'rm	F. W. Conrad.
Detroit, Michigan	29.23	742.4	29.92	760.0	69.0	20.6	76	n.	9	4.0		5 c	0	w.		0.01	0.3	fair	C. F. R. Wappenhans.
Dodge City, Kansas	27.30	693.4	29.81	757.2	76	24.4	58	s.	10	4.5		0	0			0	0	clear	E. A. Thomas.
Dubuque, Iowa	29.27	743.4	29.96	761.0	72.2	22.3	90	w.	2	0.9			10 s			0	0	threatening	J. Harvey Smith.
Duluth, Minnesota	29.34	745.2	30.03	762.7	60	15.6	87	w.	1	0.4		4 cs	fg.	calm		0.21	5.3	fair	N. B. Conger.
Eagle Pass, Texas	29.24	742.7	30.02	762.5	77.0	25.0	76	se.	5	2.2		0	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.18	639.6	29.76	755.9	52	11.1	64	s.	10	4.5		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.68	753.9	29.75	755.6	64.0	17.8	52	nw.	10	4.5		5 c	0			0	0	fair	D. C. Murphy.
El Paso, Texas	26.26	667.0	29.85	758.2	67	19.4	84	calm	0	0		0	0			0.04	1.0	clear	J. F. Marshall.
Erie, Pennsylvania	29.21	741.9	29.93	760.2	69	20.6	76	calm	0	0		0	5 k		nw.	0.01	0.3	fair	Peter Wood.
Escanaba, Michigan	29.34	745.2	29.99	761.7	64	17.8	73	n.	7	3.1		4 c	0	w.		inap.	inap.	fair	C. Dill.
Fort Apache, Arizona	25.00	635.0	29.76	755.9	66	18.9	29	e.	2	0.9		0	6 s		calm	0	0	fair	W. C. Barnes.
Fort Assinnaboine, Montana	27.06	687.3	29.85	758.2	58	14.4	77	sw.	4	1.8		3 c	0	sw.		0	0	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.26	717.8	29.80	756.9	65	18.3	90	se.	21	9.4		2 k	2 s	se.	se.	1.13	28.7	fair	A. Pritchard.
Fort Benton, Montana	27.08	687.8	29.85	758.2	57	13.9	86	w.	3	1.3		3 c	0			0.01	0.3	clear	G. W. Davis.
Fort Buford, Dakota	27.94	709.7	29.90	759.4	63	17.2	84	e.	7	3.1			10 s		calm	0	0	cloudy	A. H. Bell.
Fort Custer, Montana	26.75	679.4	29.81	757.2	65	18.3	73	e.	8	3.6		3 k	0	calm		0	0	clear	V. Verge.
Fort Davis, Texas	25.19	639.8	29.80	756.9	70	21.1	59	sw.	6	2.7		0	6 ks		sw.	0	0	fair	J. Williams.
Fort Elliott, Texas	27.20	690.9	29.88	758.9	68	20.0	57	se.	16	7.2		0	0			0	0	clear	W. J. Cundall.
Fort Grant, Arizona	25.24	641.1	29.78	756.4	65.4	18.6	81	e.	2	0.9			10 n			0.48	12.2	light rain	Robert C. Lord.
Fort Keogh, Montana	27.43	696.7	29.86	758.4	59	15.0	83	ne.	6	2.7			10 s		ne.	0.30	7.6	cloudy	W. B. Stockman.
Fort Macon, North Carolina	29.97	761.2	29.98	761.5	79	26.1	97	s.	9	4.0			10 ks		sw.	0.04	1.0	cloudy	W. W. Thomas.
Fort McKavett, Texas	27.82	706.6	30.02	762.5	72	22.2	84	s.	7	3.1		5 c	0			0	0	fair	J. E. Thatcher.
Fort Missoula, Montana	26.66	677.2	29.92	760.0	55	12.8	93	ne.	1	0.4		0	0			0	0	clear	J. H. Jones.
Fort St. Michaels, Alaska	29.59	751.6	29.62	752.3	56	13.3	87	nw.	6	2.7		0	5 ks		sw.	0	0	fair	A. P. Leavitt.
Fort Shaw, Montana	26.28	667.5	29.84	757.9	53	11.7	80	w.	6	2.7		6 cs	0			inap.	inap.	fair	A. L. Mathews.
Fort Sill, Indian Territory	28.77	730.7	29.97	761.2	80.5	26.9	68	s.	4	1.8		0	0			0	0	clear	T. Cleary.
Fort Smith, Arkansas	29.56	750.8	30.02	762.5	80.5	26.9	82	se.	2	0.9		0	0			0	0	clear	J. B. Campbell.
Fort Stevenson, Dakota	28.08	713.2	29.88	758.9	64	17.8	90	se.	8	3.6		4 cs	0			0	0	fair	W. Burrows
Fort Verde, Arizona					74.2	23.4	64	se.			1		10 s		s.	0	0	cloudy	D. Brooks.
Fort Washakie, Wyoming	24.40	619.7	29.78	756.4	53.0	11.7	59	ne.	6	2.7		0	0			0	0	clear	T. M. Ambler.
Fredericksburg, Texas	28.31	719.1	29.99	761.7	71	21.7	90	s.	4	1.8		0	0			0	0	clear	H. S. Miles.
Galveston, Texas	30.03	762.7	30.08	764.0	82	27.8	77	sw.	5	2.2		5 k	hz.	s.		0	0	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.31	744.5	29.96	761.0	67.0	19.4	78	ne.	3	1.3		10 cs	0	w.		0.53	13.5	cloudy	W. A. Reid.
Hatteras, North Carolina	29.97	761.2	29.99	761.7	79	26.1	88	s.	8	3.6		0	0			0	0	clear	R. M. Crawford.
Helena, Montana	25.74	653.8	29.86	758.4	55	12.8	69	w.	6	2.7		4 c	0			0.01	0.3	fair	S. Wheaton.
Henrietta, Texas	29.02	737.1	30.00	762.0	80.0	26.7	79	s.	10	4.5		0	0			0	0	clear	J. W. Byram.
Huron, Dakota	28.57	725.7	29.91	759.7	66.2	19.0	100	e.	14	6.3			10 n			1.02	25.9	thund'r st'm	S. W. Glenn.
Indianapolis, Indiana	29.18	741.2	29.96	761.0	78	25.6	79	calm	0	0		6 c	hz.	w.	calm	inap.	inap.	fair	O. Schutze
Indianola, Texas	30.04	763.0	30.06	763.5	78.8	26.0	88	se.	4	1.8		0	3 ks		s.	inap.	inap.	clear	I. A. Reed.
Jacksboro, Texas	28.85	732.8	29.97	761.2	78	25.6	69	s.	6	2.7		0	0			0	0	clear	J. P. Sherry.
Jacksonville, Florida	30.06	763.5	30.10	764.5	85	29.4	67	sw.	2	0.9		2 cs	0			0.06	1.5	clear	J. W. Smith.
Keokuk, Iowa	29.33	745.0	29.97	761.2	72.0	22.2	84	calm	0	0			10 s			0.11	2.8	cloudy	F. Z. Gosewisch
Key West, Florida	30.07	763.8	30.09	764.3	83.0	28.3	67	se.	7	3.1		0	2 k;hz		se.	0	0	clear	R. H. Paxton.
Kittyhawk, North Carolina	29.98	761.5	30.00	762.0	77	25.0	82	s.	10	4.5		1 c;hz	0			0	0	clear	E. A. Beals.
Knoxville, Tennessee	29.04	737.6	30.05	763.3	74	23.3	90	n.	1	0.4		6 c;k	0	nw.		0.21	5.3	fair	J. A. Cody.
La Crosse, Wisconsin	29.18	741.2	29.94	760.5	68	20.0	90	n.	2	0.9			fg.			0.14	3.6	dense fog	S. U. Emery.
La Mesilla, New Mexico	26.09	662.7	29.81	757.2	65.5	18.6	80	calm	0	0		2 c	1 s			0.12	3.0	clear	N. D. Lane.
Leavenworth, Kansas	29.06	738.1	29.92	760.0	75	23.9	82	s.	6	2.7		5 cs	1 k	n.	sw.	inap.	inap.	fair	A. W. Browne.
Lewiston, Idaho	29.10	739.1	29.92	760.0	60	15.6	60	s.	1	0.4		0	2 s			0	0	clear	W. Bell.
Little Rock, Arkansas	29.69	754.1	30.00	762.0	78	25.6	97	se.	1	0.4		0	0			0.11	2.8	clear	W. U. Simmons.
Los Angeles, California	29.57	751.1	29.96	761.0	56.2	13.4	69	w.	3	1.3		0	2 s		sw.	0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.42	747.3	29.97	761.2	75	23.9	82	sw.	8	3.6			10 n			inap.	inap.	light rain	H. C. Smyth.
Lynchburg, Virginia	29.29	744.0	29.96	761.0	76.5	24.7	79	sw.	1	0.4		3ck;cs	3 s	sw.	sw.	0.10	2.5	fair	W. R. Bushby.
Madison, Wisconsin	28.99	736.3	29.98	761.5	65	18.3	90	n.	3	1.3			10 s		w.	0.63	16.0	cloudy	C. A. Shaw.
Marquette, Michigan	29.31	744.5	30.03	762.7	63	17.2	73	nw.	2	0.9		0	0			inap.	inap.	clear	J. Gilligan.
Memphis, Tennessee	29.71	754.6	30.04	763.0	83	28.3	74	s.	4	1.8		hz.	hz.			inap.	inap.	dense haze	D. T. Flannery.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	29.25	742.9	29.99	761.7	58	14.4	100	nw.	4	1.8			fg.			0.10	2.5	dense fog	W. Line.
Mobile, Alabama	30.06	763.5	30.10	764.5	81	27.2	81	w.	3	1.3		1 c	1 ks	sw.		0.05	1.3	clear	J. D. Paxton.
Montgomery, Alabama	29.84	757.9	30.07	763.8	79	26.1	85	w.	3	1.3		6 c;hz	0			0	0	fair	J. B. McLaughlin.
Moorhead, Minnesota	28.99	736.3	29.96	761.0	63.2	17.3	90	ne.	5	2.2			10 s			0	0	cloudy	H. Bessant.
Morgantown, W. Virginia	28.97	735.8	29.97	761.2	73.0	22.8	82	calm	0	0		hz.	6 s		w.	0	0	fair	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.78	604.0	29.90	759.4	43.0	6.1	96	nw.	23	10.3			fg.		nw.	0	0	dense fog	J. G. Pinsley.
Nashville, Tennessee	29.49	749.0	30.01	762.2	81.5	27.5	81	calm	0	0		3 cs	fg.	w.		0	0	clear	L. A. Jesunofsky.
New Haven, Connecticut	29.78	756.4	29.89	759.2	64	17.8	70	calm	0	0		5 cs	4 k; sk	sw.	sw.	0	0	cloudy	J. H. Sherman.
New London, Connecticut	29.85	758.2	29.90	759.4	65	18.3	78	calm	0	0		8 k	0	w.		0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.03	762.7	30.08	764.0	83.5	28.6	71	sw.	4	1.8		1 c	sk.			0.51	13.0	clear	L. Dunne.
Newport, Rhode Island	29.83	757.7	29.88	758.9	69.0	20.6	73	nw.	2	0.9		2 k	7 ks	nw.	w.	0	0	clear	W. McGillivray.
New River, N. Carolina					78	25.6	83	w.			1	4 ck	4 s	w.		0	0	cloudy	C. C. Corbin.
New Shoreham, Rhode I'd	29.87	758.7	29.90	759.4	67.0	19.4	68	w.	3	1.3		0	9 ks		w.	0	0	cloudy	W. Davis.
New York, New York	29.74	755.4	29.91	759.7	66	18.9	84	sw.	4	1.8		4 cs	4 s	w.		0	0	cloudy	J. B. Merrill.
Norfolk, Virginia	29.93	760.2	29.96	761.0	79	26.1	62	s.	7	3.1		3 cs	hz.	nw.		0	0	clear	J. T. Elker.
North Platte, Nebraska	26.96	684.8	29.76	755.9	68.1	20.1	81	ne.	8	3.6		0	8 s			0.07	1.8	cloudy	E. F. Brady.
Olympia, Washington T'y	30.03	762.7	30.07	763.8	49.0	9.4	93	calm	0	0			10 s		calm	0	0	cloudy	J. Dascomb.
Omaha, Nebraska	28.83	732.3	29.97	761.2	66.3	19.1	93	ne.	16	7.2			10 n		ne.	2.38	60.5	thund'r st'm	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	29.65	753.1	29.67	753.6	30.0	— 1.1	100	nnw.	8	3.6			10 s			inap.	inap.	cloudy	P. H. Ray.
Oswego, New York	29.58	751.3	29.90	759.4	64.3	17.9	74	ne.	8	3.6		7 cs	2 ks	nw.	nw.	0	0	cloudy	S. W. Beall.
Palestine, Texas	29.54	750.3	30.08	764.0	78.0	25.6	88	s.	6	2.7		0	0			0	0	clear	L. M. Pindell.
Pensacola, Florida	30.07	763.8	30.10	764.5	81.7	27.6	86	calm	0	0		1 cs	2 s			0.07	1.8	clear	M. McGahran.
Philadelphia, Pa.	29.82	757.4	29.92	760.0	71	21.7	76	s.	1	0.4		0	10 s		s.	0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.99	456.9	29.81	757.2	36	2.2	69	w.	8	3.6		1 cs	0	w.		0.10	2.5	clear	L. M. Dey.
Pioche, Nevada	23.98	609.1	29.78	756.4	56.2	13.4	35	s.	1	0.4		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.13	739.9	29.92	760.0	71.3	21.8	84	n.	3	1.3		4 ck	3 s	w.	nw.	0.01	0.3	fair	J. H. Bryce.
Poplar River, Montana	27.80	706.1						se.			1		10 s		calm	0.06	1.5	cloudy	U. D. Maxwell.
Port Eads, Louisiana	30.11	764.8	30.12	765.0	82.0	27.8	79	s.	6	2.7		0	2 ks		s.	0.06	1.5	clear	H. G. Christian.
Port Huron, Michigan	29.26	743.2	29.94	760.5	64.5	18.1	73	n.	8	3.6		7 c	0	w.		0.03	0.8	fair	W. O. Bailey.
Portland, Maine	29.77	756.1	29.82	757.4	70.5	21.4	89	nw.	5	2.2		6 cs	0	nw.		0	0	fair	W. W. Eichelberger.
Portland, Oregon	29.98	761.5	30.05	763.3	53.8	12.1	80	nw.	5	2.2		3 ck	2 s	n.	nw.	0	0	fair	M. L. Hearne.
Portsmouth, N. Carolina																			F. P. Chaffee.
Prescott, Arizona	24.78	629.4	29.80	756.9	64	17.8	60	s.	3	1.3		0	3 ks			inap.	inap.	clear	J. Mc N. Wright.
Provincetown, Mass.	29.82	757.4	29.85	758.2	67	19.4	73	w.	5	2.2		3 k	3 s	w.		0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	30.10	764.5	30.11	764.8	81	27.2	81	e.	4	1.8		7 c	1 k	ne.	calm	0	0	cloudy	W. J. Evans.
Red Bluff, California	29.54	750.3	29.90	759.4	58.0	14.4	70	calm	0	0		0	1 s			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.80	756.9	30.03	762.7	80	26.7	79	se.	3	1.3		0	0			0	0	clear	P. M. Wilson.
Rochester, New York	29.26	743.2	29.91	759.7	66	18.9	68	calm	0	0		7 k	3 n	w.		inap.	inap.	light rain	E. W McGann
Roseburg, Oregon	29.53	750.0	30.08	764.0	48	8.9	86	calm	0	0			10 ks		w.	0	0	cloudy	J. J. Nanry.
Sacramento, California	29.81	757.2	29.88	758.9	56.7	13.7	80	se.	5	2.2			8 s		sw.	0	0	cloudy	J. A. Barwick.
St. Louis, Missouri	29.42	747.3	30.00	762.0	73.0	22.8	90	ne.	3	1.3		10 cs	0	w.		0.09	2.3	cloudy	J. H. Webber.
St. Paul, Minnesota	29.09	738.9	29.94	760.5	66.0	18.9	84	e.	8	3.6		10 cs	0	w.		c	0	cloudy	P. F. Lyons
St. Vincent, Minnesota	29.17	740.9	30.02	762.5	52	11.1	80	e.	1	0.4		8ck;cs	0	w.		0	0	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.54	648.7	29.76	755.9	66	18.9	35	se.	4	1.8		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.35	745.5	30.03	762.7	76.0	24.4	90	calm	0	0		0	4 ks		se.	0	0	fair	E. Lane.
San Diego, California	29.85	758.2	29.92	760.0	62.3	16.8	77	w.	2	0.9			10 s			0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.25	742.9	29.92	760.0	72.8	22.7	82	n.	6	2.7			10 s			0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.87	758.7	29.91	759.7	72.0	22.2	66	nw.	3	1.3		8 k	0	nw.		0	0	cloudy	B. A. Blundon.
San Francisco, California	29.87	758.7	29.94	760.5	53.5	11.9	86	sw.	10	4.5			10 s		sw.	0	0	cloudy	N. Gorom.
Santa Fé, New Mexico	23.32	592.3	29.83	757.7	60	15.6	68	e.	5	2.2		3 k	7 s	sw.		0.21	5.3	cloudy	H. U. Jones.
Savannah, Georgia	29.95	760.7	30.04	763.0	83.3	28.5	70	w.	6	2.7		0	0			0.23	5.8	clear	H. W. Ford.
Shreveport, Louisiana	29.85	758.2	30.08	764.0	78	25.6	88	s.	3	1.3		3 k	6 s	s.		0	0	cloudy	E. N. Meekins.
Silver City, New Mexico	24.33	618.0	29.83	757.7	57	13.9	62	nw.	1	0.4		0	5 s		calm	0.10	2.5	fair	J. B. Wallace.
Sitka, Alaska	29.66	753.4	29.72	754.9	52.5	11.4	86	s.	5	2.2			10 n		sw.	0.15	3.8	light rain	J. J. McLean.
Smithville, North Carolina	29.98	761.5	30.02	762.5	77	25.0	76	nw.	6	2.7		2 c	0			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.92	709.2	29.96	761.0	53	11.7	80	calm	0	0		0	0			0	0	clear	D. Moore.
Springfield, Illinois	29.33	745.0	30.00	762.0	73.5	23.1	76	s.	2	0.9		6c;cs	2 s	w.	w.	0.60	15.2	cloudy	T. B. Jennings.
Springfield, Massachusetts	29.78	756.4	29.91	759.7	69.0	20.6	70	s.	3	1.3		9 k	0	w.		0	0	cloudy	T. S. Outram.
Springfield, Mo.	28.61	726.7	30.07	763.8	79	26.1	88	s.	8	3.6		0	0			0	0	clear	J. B. Marbury.
Starkville, Miss.	29.60	751.8	30.07	763.8	82	27.8	80	sw.	7	3.1		7 ck	0	sw.		0	0	fair	M. J. Wright.
Stockton, Texas	26.98	685.3	29.90	759.4	73.0	22.8	82	s.	12	5.4		0	6 s		s.	0	0	fair	J. O'Dowd.
Thatcher's Island, Mass.	29.80	756.9	29.85	758.2	70.0	21.1	70	w.	9	4.0		6 c	0	w.		0	0	fair	G. Liebmann.
Toledo, Ohio	29.24	742.7	29.92	760.0	70	21.1	79	ne.	5	2.2		8 cs	0	w.		0	0	cloudy	A. Buell.
Tucson, Arizona	27.50	698.5	29.80	756.9	73	22.8	82	e.	6	2.7		0	8 ks			0.18	4.6	cloudy	J. L. Whiteside.
Umatilla, Oregon	29.62	752.3	29.98	761.5	57.5	14.2	61	n.	1	0.4		2 ck	1 s			inap.	inap.	clear	J. Daly.
Uvalde, Texas	29.08	738.6	30.02	762.5	74	23.3	90	se.	1	0.4			10 s		s.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.84	757.9	30.00	764.3	82	27.8	80	calm	0	0		2 c	0			0	0	clear	H. P. Brisbane.
Visalia, California	29.51	749.5	29.88	758.9	57	13.9	64	sw.	3	1.3		0	0			0	0	clear	W. L. Seward.
Washington, D. C.	29.82	757.4	29.94	760.5	69.0	20.6	87	n.	4	1.8			10 ks		nw.	0.41	10.4	cloudy	B. M. Purssell.
West Las Animas, Colorado	25.97	659.6	29.75	755.6	63.9	17.7	73	calm	0	0		0	1 s		sw.	inap.	inap.	clear	F. W. Brandenburg.
Williamsport, Pa.	29.34	745.2	29.94	760.5	64	17.8	84	calm	0	0		4 k	6 ks			0.39	9.9	threatening	B. F. Hough.
Wilmington, N. Carolina	29.94	760.5	30.00	762.0	78	25.6	77	nw.	2	0.9		4ck;cs	0	w.		0	0	fair	A. T. Sherwood.
Winnemucca, Nevada	25.57	649.5	29.83	757.7	60	15.6	41	e.	10	4.5		0	8 s		sw.	0	0	cloudy	J. R. Williams.
Yankton, Dakota	28.66	728.0	29.94	760.5	67	19.4	93	s.	19	8.5		0	9 ks		sw.	1.39	35.3	cloudy	J. H. Atfield.
Yuma, Arizona	29.63	752.6	29.77	756.1	80.0	26.7	54	se.	5	2.2		0	2 s			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.11	561.6			50.0	10.0	72	w.	1	0.4		4ck;cs	1 s	w.		0	0	fair	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.04	763.0	30.05	763.3	81	27.2	95	e.				5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	30.07	763.8	30.10	764.5	78	25.6	60	calm	0	0			10 ks		calm	2.30	58.4	cloudy	J. I. Plume.
Havana, Cuba, W. I.																			A. Van Ganeghem.
Kingston, Jamaica, W. I.	30.06	763.5	30.07	763.8	78.2	25.7	81	calm	0	0		4ck;cs	6 s		e.	0	0		Robert Johnston.
Magua, San Domingo, W. I					76	24.4						1 cs	0	se.		0.16	4.1		S. M. Pike.
Paramaribo, S. A.	30.06	763.5	30.06	763.5	78	25.6	86	e.			2		10 n	e.	e.	0.300	7.6	rainy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.45	748.0	30.01	762.2	78	25.6	89	calm			0	1 ck	8 ks	calm	s.	0.02	0.5	foggy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							94	se.			1		10 n		se.	0.25	6.3	cloudy	Earl Flint.
Santiago de Cuba, W. I.	30.05	763.3	30.08	764.0	80	26.7	70	calm	0	0		3 c	0			0	0	fair	Robert Mason.
York Factory, B. A.	30.04	763.0	30.10	764.5	62.0	16.7	83	n.	10	4.5		0	1 s		n.	0	0	fair	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S. Alert, Simon's Bay, Cape Colony, Africa	30.08	764.0	60	15.6	91	nw.			3-5		9							showery.
H. M. S. Alexandra, N. 31° 27′ E. 29° 42′	29.96	761.0	75	23.9	85	wnw.			4		4	wnw.				3	wnw	misty.
H. M. S. Amethyst, Montevideo, Uruguay	30.30	769.6	49	9.4	93	ese.			3		3	ne.						d. clouds.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	30.19	766.8	73	22.8		n.			2-3									blue sky.
H. M. S. Arab. Muscat, Arabia	29.53	750.0	93	33.9	70	nw.			2		6							d. clouds.
H. M. S. Bacchante, N. 38° 43′ W. 11° 27′	30.13	765.3	80	26.7	82	sw.			2									misty.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.11	764.8	61	16.1		wnw.			2-5		5	w.						raining.
H. M. S. Champion, N. 19° 10′, W. 176° 50′			79	26.1		ne.			4		0					4	ne.	blue sky.
H. M. S. Coquette, Port Said, Egypt	29.96	761.0	77	25.0		nw.			2		0							blue sky.
H. M. S. Cruiser, N. 37° 35′, E. 15° 26′	30.12	765.0	80	26.7		n.			1		1	nnw.						blue sky.
H. M. S. Diamond, S. 9° 04′, E. 160° 18′	29.95	760.7	80	26.7	86	calm			0		10	ese.						showery.
H. M. S. Dido, N. 13° 05′, W. 59° 30′	30.05	763.5	79	26.1		ene.			3-4		3	e.						squally.
H. M. Dock Yard, Bermuda, W. I.	29.88	758.9	77	25.0	88	ssw.			1-2		8	ssw.						d. clouds
H. M. S. Druid, N. 18° 33′, W. 72° 21′	30.06	763.5	80	26.7	91	e.			1		7	e.						misty.
H. M. S. Dwarf, S. 29° 45′, W. 59° 32′	30.05	763.3	56.5	13.6	97	ene.			1-2		4					1	ne.	d. clouds.
H. M. S. Eclipse, S 4° 37′, E. 55° 30′	29.99	761.7	80	26.7		sse.			2		3							d. clouds.
H. M. S. Emerald, S. 32° 40′, W. 27° 50′	30.07	763.8	63	17.2	100	nw.			5-6		5	wnw.				2	wnw.	d. clouds.
H. M. S. Euryalus, Trincomalee, Ceylon India	29.79	756.7	76	24.4	90	sw.			2-4		10	calm						showery.
H. M. S. Flying Fish, N. 32° 44′, E. 129° 52′	29.92	760.0	74.5	23.6	83	calm			0		7							misty.
H. M. S. Gannet, S. 23° 55′, W. 70° 50′	30.11	764.8	55.5	13.1	71	ssw.			0-1		9					2	ssw.	d clouds.
H. M. S. Garnet, S. 30° 00′, W. 34° 45′	30.12	765.0	65	18.3	68	n.			6		6					2	nnw.	d. clouds.
H. M. S. Griffon, N. 49° 47 W. 55° 47′	29.63	752.6	49	9.4	77	ne.			2		10					6	w.	misty.
H. M. S. Inconstant, N. 29° 30′, W. 14° 45′	30.31	769.9	69	20.6	84	nne.			3		8	ne.				3	ne.	d. clouds.
H. M. S. Iron Duke, N. 35° 26′, E. 139° 39′	29.94	760.5	70	21.1	95	s.			1		4	se.						d. clouds.
H. M. S. Kingfisher, N. 21° 56′, W. 107° 06′	29.94	760.5	79	26.1		n.			1-3		8							raining.
H. M. S. Lark, S. 10° 39′, E. 162° 19′	29.97	761.2	78.3	25.7		nne.			2		10					3	e.	raining.
H. M. S. Magpie, N. 35° 26′, E. 139° 39′	29.98	761.5	71.3	21.8	77	ssw.			1		6	w.						misty.
H. M. S. Minotaur, Malta, Mediterranean	30.17	766.3	80	26.7	68	nnw.			1		0							blue sky.
H. M. S. Nelson, S. 36° 50′ E. 174° 49′	29.86	758.4	57	13.9	93	calm			0		7							showery.
H. M. S. Northampton, Halifax, Nova Scotia	29.61	752.1	65	18.3	68	nnw.			3		1	nnw.						blue sky.
H. M. S. Rambler, S. 15° 37′ E. 0° 10′	30.15	765.8	69	20.6	84	se.			2		4	ese.				2	sse.	d. clouds.
H. M. S. Rocket, N. 49° 30′, W. 126° 00′	30.03	762.7	53	11.7	93	wnw.			2		8							d. clouds.
H. M. S. Sappho, S. 24° 30′ W. 124° 20′	30.18	766.6	69.5	20.8		e.			2-3		6	calm				3	s.	d. clouds.
H. M. S. Swiftsure, S. 14° 00′, W. 33° 15	30.06	763.5	78.5	25.8	78	calm			0		4	sse.				3	sse.	d. clouds.
H. M. S. Sylvia, S. 34° 38′, W. 54° 09′	30.29	769.4	50.2	10.1	90	ssw.			4							3	se.	overcast.
H. M. S. Tenedos, N. 47° 48′ W. 58° 23′	29.53	750.0	53	11.7	86	ne.			1-2		10							d. clouds.
H. M. S. Triumph, Valparaiso, Chili	30.07	763.8	52	11.1	79	n.			2-3		7	n.						squally.
H. M. S. Tyne, N. 37° 30′, W. 38° 58′	30.07	763.8	75	23.9	85	sw.			5-6		5	calm				5	wsw.	blue sky.
H. M. S. Woodlark, Bassorah, Asiatic, Turkey	29.55	750.6	104.5	40.3	32	nw.			2		0							
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verd Islands	30.13	765.2	76.1	24.5	96	ne.			2		10			40 mi	nutes	1		showery.
Tamega, Macao, China	29.87	758.6	84.2	29.0	78	e.			5		5							d. clouds.
Swedish Naval.																		
Saga, N. 53° 17′, W. 14° 36′	30.02	762.5	56.5	13.6	98	sse.			4		10							drizzling.
United States Naval.																		
Navy Yard, Pensacola, Fla	30.06	763.5	81	27.2	87	w.	3	1.3			5		sw.	0	0			fair.
Navy Yard, Portsmouth, N. H.	29.83	757.7	67	19.4	69	calm	0	0			5		w.	0	0			fair.
Naval Hospital, Yokohama, Japan*	29.82	757.4	68.5	20.3	87	calm			0		8		wsw.	0	0			cloudy.
Adams, Mare Island, Cal	29.92	760.0	57	13.9	94	sw.			2		5			0	0			fair.
Alaska, Callao, Peru	30.03	762.7	59	15.0	94	calm			0		10			0	0	sm'h		cloudy.
Alert, N. 42° 37′, E. 174° 39′*	29.98	761.5	48	8.9	92	calm			0		10		calm	0	0	sm'h		cloudy.
Alliance, Boston, Mass	29.87	758.7	68	20.0	74	nw.			1		8		nw.	0	0			cloudy.
Ashuelot, Yokohama, Japan	29.93	760.2	70	21.1	85	ssw.			1		8		nw.					fair.
Brooklyn, Rio de Janeiro, Brazil	30.20	767.1	65	18.3	94	calm	0	0			8		calm	0	0	sm'h		hazy.
Colorado, New York, N. Y.	29.90	759.4	70	21.1	80	sw.	5	2.2			8		w.	0	0			fair.
Constellation, Chesapeake Bay*	29.95	760.7	76	24.4	73	ssw.			4		5		ssw.			sm'h		fair.
Enterprise, Norfolk, Va*	29.94	760.5	75	23.9	86	s.			1		5		sw.					cloudy.
Essex, Sandy Point Patagonia	29.54	750.3	44	6.7	84	nw.			1		10					sm'h	nw.	fair.
Franklin, Norfolk, Va	29.98	761.5	75	23.9	77	ssw.	12	5.4			5		nw.	0	0			fair.
Galena, Alexandria, Egypt	29.98	751.5	78	25.6	95	nnw.			2		2		nnw.			sm'h		fair.
Independence, Mare Island, Cal	29.95	760.7	51	10.6	93	sw.			2		2			0	0			overcast.
Iroquois, San Francisco, Cal	30.07	763.8	55	12.8	87	s.			3		10			0	0			fair.
Kearsage, Norfolk, Va	29.97	761.2	75	23.9	86	s.			1		5							foggy.
Lackawanna, S. 11° 39′, W. 77° 50′*	30.08	764.0	61	16.1	88	calm			0		10							fair.
Lancaster, Alexandria, Eyypt	29.93	760.2	79	26.1	95	nnw.			2		2		calm	0	0	sm'h		fair.
Marion, S. 34° 54′, W. 56° 13′	30.25	768.3	50	10.0	100	ese.			4		8		ese.			mod.	ese.	cloudy.
Michigan, Detroit, Michigan	29.94	760.5	71	21.7	71	se.			2		5		se.					cloudy.
Minnesota, Newport, R. I	29.93	760.2	68	20.0	79	nw.	1	0.4			8		n.					fair.
Monocacy, Chusan, Archepelago, China	29.99	761.7	71	21.7	85	wsw.			1		8		w.					cloudy.
New Hampshire, Newport, R. I	29.83	757.7	70	21.1	75	sw.			1		8					sm'h		clear.
Nipsic, N. 41° 43′, E. 17° 41′	30.11	764.8	79	26.1	66	se.			3		2					sm'h		misty.
Onward. Callao, Peru†	30.17	766.3	59	15.0	88	ene.			1		10		nw.			long	w.	cloudy.
Palos, Kobe, Japan	29.95	760.7	74	23.3	72	w.			1		10		wsw.					cloudy.
Passaic, Washington, D. C	29.99	761.7	68	20.0	?	calm			0		8							cloudy.
Pensacola, S. 10° 48′, W. 78° 56′	30.10	764.5	61	16.1	82	s.			1		8		sse.	0	0	long	sse.	fair.
Powhatan, N 31° 34′, W. 80° 39′	30.05	763.3	83	28.3	79	w.			3		2					light	w.	fair.
Portsmouth, Brest, France*	30.22	767.6	69	20.6	75	calm			0		5					sm'h		clear.
Quinnebaug, N. 36° 01′ E. 19° 41′	30.16	766.1	76	24.4	68	nnw.			1		0					sm'h		fair.
Ranger, Mare Island, Cal*	29.89	759.2	57	13.9	87	sw.			2		5		sw.	0	0	sm'h		fair.
Richmond, Yokohama, Japan*	29.94	760.5	71	21.7	85	ssw.			1		2		sw.	0	0			fair.
Saratoga, Brest, France	30.26	768.6	67	19.4	89	wsw.			0-1		8		sw.	0	0	sm'h		cloudy.
St. Louis, League Island, Pa	30.07	763.8	70	21.1	85	wnw.	2	0.9			10		se.	0	0			fair.
Swatara, Yokohama, Japan*	29.78	756.4	72	22.2	80	sse.			2		5		w.			sm'h		cloudy ?
Tennessee, off New York, N. Y	29.93	760.2	70	21.1	80	wnw.	1	0.4			0?			0	0			fair.
Vandalia, Portsmouth, N. H	29.81	757.2	66	18.9	84	wnw.			1		5		w.					fair.
Wabash, Boston, Mass	29.85	758.2	70	21.1	61	w.	2	0.9			5		w.	0	0			rainy.
Wachusetts, Juneau City, Alaska	29.64	752.8	51	10.6	100	e.			1		10					sm'h		fair.
Wyoming, Port Royal, S. C	30.04	763.0	77	25.0	82	wsw.	9	4.0	0		5		w.	0	0			raining.
Yantic, New York, N. Y*	29.85	758.2	70	21.1	75	calm					8							

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Grecian, Montreal, Canada*	29.77	756.1	71	21.7		sse.			2		8		sse.	0	0			cloudy.
S. S. Nova Scotian, St. John's, N. F.	29.36	745.7	47	8.3		ene.			2		10							dense fog.
S. S. Prussian, N. 47° 10′ W. 38° 00′*	29.42	747.3	66	18.9		sw.			4		4		w.	6 h'r	6 h'r	hv'y	wsw.	clear.
S. S. Waldensian, N. 42° 33′, W. 58° 07′*	29.69	754.1	70	21.1		w.			5		2		w.	0	0	mod.	sw.	clear.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, Philadelphia, Pa.	29.88	758.9	68	20.0	95	sw.			2		8		nw.					
S. S. Indiana, N. 41° 45′ W. 46° 19′†	29.81	757.2	71	21.7	80	w.			4		2		w.			mod.	w.	fine.
S. S. Lord Clive, Delaware River *†	29.90	759.4				sw.			3		9		wnw.	0	0			cloudy.
S. S. Lord Gough, Liverpool, Eng.	30.10	764.5	73	22.8		wnw.			3		8		w.					sprinkling.
ANCHOR LINE.																		
S. S. Bolivia, N. 49° 17′, W. 34° 20′†	29.55	750.6	58	14.4		se.			2		10		ese.	0	0	mod.	ese.	overcast.
S. S. Ethiopa, N. 41° 02′, W. 52° 13′	29.68	753.9	70	21.1	85	w.			4		4		w.	0	0	mod.	w.	clear.
S. S. Utopia, N. 40° 56′, W. 30° 05′†	30.34	770.6	69	20.6	90	sw.			5		7		sw.	1 h'r	1 h'r	hv'y	wsw.	raining.
ATLAS LINE.																		
S. S. Ailsa, Colon, U. S. C.†	30.00	762.0	78	25.6	91	nne.			2		5		ne.	4 h'r	4 h'r	mod.	ne.	fair.
S. S. Alvena, Montego Bay, Jamaica, W. I.†	29.96	761.0	81	27.2	83	e.			1		10		ene.	0	0	sm'h	ene.	fair.
S. S. Alvo, N. 39° 00′, W. 73° 54′	29.92	760.0				ssw.			2		5		ssw.	0	0	sm'h	sw.	fine.
S. S. Antillas, San Juan, Porto Rico, W. I.						e.			2		5		e.	0	0	light	e.	fine.
BOSTON AND HALIFAX.																		
S. S. Carroll, Charlottetown, Canada†	29.66	753.4	56	13.3		nnw.								0	0			cloudy.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 25° 04′, E. 80° 47′	30.01	762.2	71.5	21.9	85	nw.			4		10							overcast.
S. Baroda, S. 15° 19′, E. 69° 10′	30.00	762.0	75.9	24.4	86	s.			5		6							d. clouds.
British Merchant, N. 42° 54′ W. 26° 57′	30.15	765.8	68.5	20.3	92	ssw.			4–5		6							misty.
S. S. Gordon Castle, N. 19° 05′, E. 39° 31′	29.79	756.7	91.5	33.1	72	nw.			2–4		2							blue sky.
May Hulse, S. 32° 30′, W. 31° 24′	30.00	762.0	63	17.2	75	nw.			6		5							d. clouds.
S. S. Minho, off Vigo, Spain	30.23	767.8	66.4	19.1	87	sw.			3		7							misty.
S. S. Pole Star, S. 1° 22′, W. 29° 13′	30.06	763.5	76.6	24.8	93	ene.			3		4							misty.
CUNARD LINE.																		
S. S. Marathon, Mersey River, Eng.	30.15	765.8	62	16.7		wnw.			2		6		var.	3 h'r	3 h'r			cloudy.
S. S. Scythia, New York, N. Y.	29.89	759.2	74	23.3	79	wnw.			1		7		nw.	0	0			cloudy.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Ville de Marseilles, Marseilles, France*†	30.10	764.5	81.5	27.5		w.			2		0			0	0			clear.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 41° 50°, W. 48° 10′ *†	29.74	755.4				w.			3		2		w.	0	0	mod.	wnw.	
S. S. Cimbria, N. 49° 44′, W. 11° 07′	30.18	766.6	59	15.0		sw.			4		10		w.	3 h'r	3 h'r	mod.	sw.	covered.
S. S. Herder, N. 46° 15′, W. 32° 25′*†	29.74	755.4	64	17.8		wsw.			6		5		wsw.	6 h'r	6 h'r	rg'h	wsw.	foggy.
S. S. Lessing, N. 40° 30′, W. 70° 32′	29.84	758.0	73	22.8		calm			0		0			0	0	sm'h		clear.
S. S. Wieland, N. 45° 37′, W. 36° 36′	29.73	755.1	64.5	18.1		s.			4		10		ssw.	14 h'r	14 h'r	4	ssw.	misty.
JOHNSTON LINE.																		
S. S. Thanemore, N. 41° 19′ W. 49° 23′	29.70	754.4				w.			5		2		w.	0	0	short	w.	fair.
MALLORY LINE.																		
S. S. Colorado, New York, N. Y.†	29.88	758.9	69	20.6		nw.			2				nw.	0	0			overcast.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, S. 23° 07′, W. 41° 28′	29.63	752.6				s.			6				s.	0	0	r'gh	s.	clear.
S. S. Glenapp, N. 1° 37′, W. 48° 02′*†	30.00	762.0				ene.			3		6		ne.	0	0			fine.
NATIONAL LINE.																		
S. S. Canada, N. 48° 13′, W. 22° 01′.†	29.98	761.5	60	15.6		sw.			2		5		w.	5 h'r	5 h'r	sl'gt	w.	dense fog.
S. S. Denmark, London, Eng.	30.13	765.3	61	16.1		wnw.			4		10		wsw.	½ h'r	½ h'r			cloudy.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, N. 21° 19′, W. 79° 47′†	30.02	762.5	80	26.7		e.			6		2		ene.	0	0	g'tl	e.	fine.
S. S. Saratoga, Havana, Cuba, W. I.†	30.32	770.1	79	26.1	78	calm			0		0			0	0			clear.
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, N. 22° 28′, W. 86° 10′ *†.	30.11	764.8	83	28.3	87	ene.			3		2		ene.	0	0	small	ene.	clear.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N. 41° 44′, W. 51° 28′*†	29.84	757.9	70	21.1		sw.			3								sw.	fair.
S. S. Maas, N. 49° 43′, W. 18° 37′*†	29.96	761.0	64	17.8		sw.			1								w.	hazy.
NORTH GERMAN LLOYD.																		
S. S. America, N. 42° 15′, W. 43° 32′*	29.67	753.6	86.0?	30.0?		wsw.			5		5		wsw.	3 h'r	3 h'r	long	wsw.	fair.
S. S. Elbe, N. 49° 23′, W. 18° 53′	29.98	761.4	58.1	14.5	100	ssw.			4–5		10			4 h'r	4 h'r	long	s.	misty.
S. S. Hohenzollern, N. 38° 20′ W. 72° 55′*	29.93	760.2	71	21.7		w.			3		0			0	0	sm'h	w.	fair.
S. S. Oder, N. 41° 22′ W. 52° 18′	29.68	753.9	68.0	20.0		sw.			4		4		sw.	0	0	long	wsw.	fair.
S. S. Ohio, Bremerhaven, Germany						nne.			4		6?		w.	1 h'r	1 h'r			covered?
S. S. Saller, N. 44° 19′, W. 34° 15′	29.83	757.7	59.0	15.0		ssw.			6		10		sw.	14 h'r	14 h'r	h'vy		raining.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, N. 40° 34′, W. 131° 04′†	30.25	768.3	60	15.6	76	nnw.			4		8		nw.	0	0	mod.	n.	cloudy.
S. S. Coptic, N. 46° 11′ E. 178° 40′	30.25	768.3	44.0	6.7		wsw.			2		9		wsw.	2 h'r	2 h'r	2	w.	cloudy.
S. S. Gaelic, N. 45° 30′, E. 164° 43′†	30.03	762.7	52	11.1	59	se.			4		6?		e.			sm'h		overcast.?
S. S. Oceanic, N. 33° 08′, E. 133° 53′*	29.91	759.7	75	23.9	76	nw.			1		7		sw.			sm'h		cloudy.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y †	29.94	760.5				ssw.			1		10		sw.	0	0			smoky.
S. S. City of Columbus, New York, N. Y†	29.98	761.5				wsw.			3		8		w.					cloudy.
S. S. Seminole, Savannah, Ga.†	30.02	762.5	80	26.7	82	sw.			1		1		sw.	1 h'r	1 h'r			clear.
OREGON IMPROVEMENT COMPANY.																		
S. S. Willametta, N. 39° 18′ W. 123° 57′†	29.95	760.7	50	10.0	86	nnw.			5		2		nnw.	0	0	rg'h	nnw.	clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, N. 38° 50′, W. 123° 21′†	30.03	762.7	54	12.2	87	nnw.			6		5		nnw.			hv'y	nnw.	clear.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 32° 39′, W. 117° 13′.†	29.90	759.4	61	16.1	82	nnw.			2		10		e.			sm'h		cloudy.
S. S. Dakota, Seattle, Wash. Ter.*†	30.04	763.0	63	17.2	83	se.			2		5?		s.			sm'h		cloudy.?
S. S. Idaho, San Francisco, Cal.†	29.91	759.7	52	11.1	86	se.			6		0					mod.	nw.	clear.
S. S. State of California, San Francisco, Cal.†	29.91	759.7	52	11.1	86	sw.			2		7		sw.					foggy.
S. S. Victoria, N. 47° 18′, W. 124° 35′†	29.98	761.5	53	11.7	86	nw.			2		5					sm'h		fair.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, S. 33° 42′, E. 164° 40′	30.28	769.1	60	15.6	100	sw.			4		5?		sw.	0	0	sm'h		clear?
S. S. City of Pekin, N. 24° 10′, E. 118° 35′†	29.92	760.0	82	27.8	83	ene.			4		5		e.	0	0	sm'h		fair.
S. S. City of Rio de Janeiro, N. 31° 00′, W. 117° 08′ *†	30.12	765.0	60	15.6	82	nw.			3		9		nw.	0	0	long	nw.	gloomy.
S. S. City of Sydney, Sydney N. S. W.†	30.15	765.8	48	8.9	70	sw.			4		5		sw.	0	0	sm'h		fair.
S. S. Clyde N. 35° 38′, W. 121° 25′†	29.96	761.0	54	12.2	87	wnw.			2		8		nw?	0	0	mod.	wnw.	cloudy.
S. S. Colima, N. 19° 18′, W. 105° 12′†	29.92	760.0	79	26.1	82	var.			3		9		sw.	0.95	24.1	mod.	sw.	cloudy.
S. S. Grenada, Panama, Panama†	29.95	760.7	80	26.7	91	nw.			1		8		nw.	1 h'r	1 h'r			rainy.
S. S. South Carolina, Panama, Panama†	30.07	763.8	84	28.9	83	calm			0		5		nnw.	sh'rs	sh'rs	sm'h		
S. S. Zelandia, N. 0° 35′, W. 166° 01′	29.97	761.2	79	26.1	87	n.			2		10		n.			mod.	ne.	squally.
QUEBEC S. S. COMPANY.																		
S. S. Muriel, N. 21° 12′, W. 64° 29′	29.96	761.0	82	27.8		ese.			4		8			rain	rain	sm'h	ese.	squally.
S. S. Bermuda, N. 36° 02′, W. 72° 23′†	30.03	762.7	80	26.7		nnw.			2		2		nnw.	0	0	long.	nw.	clear.
RED STAR LINE.																		
S. S. Nederland, N. 40° 14′, W. 55° 17′†	29.52	749.8	73	22.8		w.			4		2		w.	1 h'r	1 h'r	r'gh	w.	fair.
S. S. Pennland, N. 48° 44′ W. 22° 43′*	29.87	758.7	57	13.9		sw.			3		8		sw.	4 h'r	4 h'r	mod	wsw.	dense fog.
S. S. Rhynland, Antwerp, Belgium	30.18	766.6	66	18.9	79	wsw.			4		8		wsw.	0.3	8.			cloudy.
S. S. Vaderland, N. 39° 35′, W. 51° 10′	29.67	753.6	75	23.9	81	w.			2		0			0	0	sm'h	w.	clear.
STATE LINE.																		
S. S. State of Florida, New York, N. Y.	29.73	755.1	74	23.3		s.			1		10			1 h'r	1 h'r			cloudy.
S. S. State of Georgia, N. 40° 40′, W. 66° 39′†	29.92	760.0	60	15.6		w.			2		8			0	0	sm'h		hazy.
S. S. State of Indiana, N. 50° 47′, W. 31° 00′†	30.09	764.3	60	15.6		se.			3		5		ese.	4 h'r	4 h'r	sl't	se.	hazy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
THINGVALLA LINE.																		
S. S. Thingvalla, N. 41° 23′, W. 54° 40′†	29.96	761.0	68.9	20.5	91	w.			2		2		w.	0	0	r'gh	w.	clear.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 48° 00′, W. 15° 52′	30.13	765.3									9			8 h'r	8 h'r	sm'h		
WHITE STAR LINE.																		
S. S. Celtic, N. 41° 49′, W. 57° 07′†	29.72	754.9	69	20.6	80	wnw.			5		2		wnw.	sh'rs	sh'rs	mod	wnw.	fair.
S. S. Germanic, N. 42° 37′, W. 45° 48′†	29.65	753.1	66	18.9		w.			5		2		w.			sm'h		1. clouds.
WILSON LINE.																		
S. S. Otranto, N. 41° 30′, W. 59° 09′†	29.85	758.2	67	19.4		w.			4		0					cross	w.	clear.
S. S. Romano, New York, N. Y*	29.87	758.7	74	23.3														dull.
MISCELLANEOUS.																		
Bg. Abbie Clifford, N. 34° 10′. W. 75° 07′*†	30.08	764.0	81	27.2		calm			0		0			0	0	sm'h	e.	fair.
Schr. Addie Fuller, Bath, Me†	29.90	759.4	69	20.6	70	calm			0	3 ck	0			0	0			fair.
Schr. Ajax, N. 28° 20′, W. 96° 21′†	30.10	764.5				sse.			1		4		se.	0	0	sm'h	se.	fair.
Bk. Alpha, New York, N. Y†	29.92	760.0	72	22.2		sw.			1		10		w.	0	0			cloudy.
Schr. Annie Lewis, Mobile Bay, Ala†	30.23	767.8	84	28.9		w.			1		5?		w.	0	0	sm'h		cloudy.?
Bk. Anna Thorman, S. 29° 27′, W. 26° 11′	30.22	767.6	67.6	19.8	81	n.			4	6 cs		nnw.		1 h'r	1 h'r	mod.	nw.	fair.
S. S. Antonio Lopez, Barcelona, Spain	30.17	766.3	73	22.8	71	ssw.			2		2 k			0	0			clear.
Schr. Asa Eldridge, Havana, Cuba, W. I.†	30.07	763.8				ene.			1		0			0	0			very fair.
Bk. Aureola, Rio de Janeiro, Brazil*†	30.37	771.4	68	20.0		nw.			1		8		n.	0	0			cloudy.
Bk. Cato, N. 38° 20′, W. 58° 50′*†	30.20	767.1				wnw.			2		2		wnw.	0	0	sm'h	wnw.	fair.
Schr. C. R. Flint, N. 28° 34′, W. 84° 38′†	30.34	770.6	81	27.2		ssw.			1		5?		sse.	0	0	sm'h	s.	clear.?
Schr. Edith R. Seward, N. 28° 03′, W. 67° 00′*†	30.19	766.8	80	26.7		sw.			2		3		sw.	0	0	mod.	wsw.	clear.
S. E. J. Spicer, N. 44° 26′, W. 57° 30′†	29.67	753.6				nw.			3		7		nw.	0	0	mod.	wsw.	
Bk. Essex, S. 17° 20, W. 32° 11′*†	30.07	763.8	73	22.8		ese.			5		9		ese.	3 h'r	3 h'r	high	s.	squally.
Bk. Freya, N. 41° 59′, W. 54° 09′			65	18.3		w.			6		5		w.	2 h'r	2 h'r	mod.	w.	fair.
S. Grecian, Hong Kong, China*†	29.88	758.9	84	28.9		e.			6		8		se.	1 h'r	1 h'r			fair.
Bk Hattie G. McFarland, Portland, Me*†	29.90	759.4	73	22.8		nw.			1		6		nw.	0	0			cloudy.
S. Hedwig, N. 38° 15′, W. 15° 07′	30.37	771.4	70.5	21.4	90	wnw.			1		7		wnw.	0	0	long	nnw.	fine.
S. Ismir, S. 43° 00′ W 7° 00′†	29.94	760.5				wnw.			4		8		wnw.			r'gh	cross	fine.
S. Ivy, N. 34° 50′ W. 127° 00′†	30.33	770.4	58	14.4		n.			3		8		n.			sm'h	nne.	cloudy.
Schr. Jennie N. Huddell, N. 40° 41′ W. 71° 30′†	30.00	762.0	69	20.6	90	calm.			0		2		e.	0	0	long	sse.	fair.
Schr. John L. Thomas, Saxones, Mosquito coast*†	30.04	763.0				e.			4		9		ese.	6 h'r	6 h'r			clearing.
S. S. Lamperts, N. 13° 36′, E. 48° 56′*	29.70	754.4	87.5	30.8	75	wsw.			6		0					1		misty.
Light House Tender, Laurel, Key West, Florida†	30.14	765.5	84	28.9		se.			2		2		se.	0	0			clear.
S. S. Malabar, N. 35° 38′, E. 145° 27′*†	29.89	759.2																
S. M. P. Grace, N. 2° 31′, W. 27° 00′*	29.96	761.0	80	26.7		sse.			4				sse.	0	0	short	se.	clear.
S. S. Nebo, N. 53° 40′, W. 23° 14′*†	29.83	757.7				sw.			2		10		sw.	0	0	sm'h	se.	cloudy.
B k. Orpheus, N. 42° 15′, W. 36° 30′	29.88	758.9	73	22.8		ssw.			6		8 k					r'gh	wsw.	hazy.
S.Paramita, S. 43° 02′, W. 97° 01′†	29.68	753.9	48	8.9		wnw.			6		7		w.	sq'ls	sq'ls	long	w.	cloudy.
Bk. Peppina, Newport, Eng†	30.11	764.8	69	20.6	60	wsw.			4		0			0	0			clear.
S. S. Ponca, S. 3° 18′, W. 38° 00′†	30.05	763.3	82	27.8		ese.			1		2			20 mi	nutes	light	ese.	fair.
Bk. Rosebud, S. 33° 42′, E. 1° 14*†	30.25	768.3	61	16.1	88	var.			3		fg.					sm'h		light rain.
S. S. Sunbeam, N. 36° 17′, W. 4° 09′	30.21	767.3	71.5	21.9	81	calm			0		0							blue sky.
Bg. Teneriffe, Cardenas, Cuba, W. I	30.06	763.5				e.			1		0			0	0			fine.
Bk. Truro, N. 50° 20′, W. 14° 00′*†	30.11	764.8				s.			2		10		s.	0	0	mod	wnw.	threatening.
U. S. F. C. S. S. FishHawk, St. Jerome Creek, Md.†	30.12	765.0	77	25.0	95	sw.			3		7		calm	0	0			cloudy.
Bk. Vincenzo Accame, N. 38° 30′ W. 16° —††	30.55	776.0	73.4	23.0		w.			3									
Schr. Viola Reppard, Brunswick, Ga†	29.96	761.0	81	27.2		nw.			3		2		nw.	3 h'r	3 h'r			clear.
Bkt. Wandering Jew, Boston, Mass*†	29.86	758.4	68	20.0		nw.			4		2		nw.	0	0			clear.
Bk Warden Law, N. 51° 29′, E. 1° 04′*	30.08	764.0				se.			3		4			0	0	sm'h		fair.
Bg. Wauburn, N. 26° 37′, W. 64° 37′*†	30.40?	772.1?	80	26.7		w.			3		3		se.	0	0	sm'h		
Bk Wm. Wilcox, S. 14° 00′, W. 35° 05′*†	30.25	768.3	79	26.1		calm			0		2		calm	0	0	mod.	n.	fair.
S. Wm. Woodbury, N. 38° 26′, W. 45° 05′*	29.69	754.1	78	25.6	69	sw.			4		4?		w.			long	sw.	cloudy?

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

UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 29, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours			30.12	765.0	77.7	25.4	70	s.			1		2			0	0	fair	Moiroud.
Algiers			30.12	765.1	77.4	25.2	69	nw.			3		10			0.079	2.0	covered	Nicolas.
La Calle			30.10	764.4	82.0	27.8	82	ese.			2		2			0	0	fair	Fonfrède.
Tunis			30.10	764.5															Jacques.
Saida			30.15	765.7	81.7	27.6	61	n.			2		8			0	0	very cloudy	Perés.
Tebessa			30.12	765.0	86.0	30.0	19	wnw.			1		2			0.165	4.2	fair	Derché.
Geriville					83.5	28.6	29	ssw.			5		10			0	0	covered	Lonchamp.
Laghouat			30.17	766.4	82.4	28.0	36	w.			3		3			0	0	pretty fair	Abraham.
Biskra			30.13	765.2	95.4	35.2	26	ne.			1		10			0	0	covered	Malau.
Australian.																			
Melbourne, Victoria	29.76	755.9	29.85	758.2	45.0	7.2	92	wsw.	10	4.5			10					raining	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.55	750.5	30.07	763.8	79.2	26.2	49	w.			3		3			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.26	743.2	30.01	762.2	67.6	19.8	52	wsw.	9.8	4.4			10			0.024	0.6		Dr. Wierzbiski.
Eperies	29.13	739.8	29.97	761.3	70.9	21.6	47	calm			0	c	7 s			0	0		Julius Mikolik.
Gratz	28.85	732.9	30.06	763.6	73.9	23.3	72	w.			3		5			0	0	thunder	Andreas Rospini.
Hermannstadt	28.63	727.1	29.97	761.3	80.6	27.0	31	nw.			3		1			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.79	731.2	30.09	764.3	68.0	20.0	60	nnw.			2	c	7 k			0	0		The Staff.
Lemberg	28.99	736.4	29.95	760.7	65.5	18.6	65	nw.			3		6			0	0		Dr. T. Stanecki.
Pola	29.93	760.2	30.04	762.9	78.4	25.8	55	wnw.			1		5			0	0		I. R. Hydrographic Office.
Szathmar	29.59	751.5	30.04	762.9	77.4	25.2	28	sw.			3		3			0	0		Joseph Midlinszky, S. J.
Szegedin	29.79	756.7	30.06	763.5	76.6	24.8		calm			0		3			0	0		Karl Stancel.
Trieste	29.95	760.7	30.05	763.3	79.7	26.5	59	w.			1		1			0	0		Royal Academy.
Vienna	29.41	747.0	30.10	764.5	74.8	23.8	40	w.			3		3			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.06	763.5	30.16	766.1	61.6	16.4	70	n.	11	4.9			2			0	0	blue sky	W. Boswell
Armagh, Observatory																			S. Call.
Bidston, Liverpool Obs'y			30.17	766.3	61.3	16.3	81	w.	11	4.9			4					d. clouds	John Hartnup.
Bolton, Sharples	29.60	751.8	30.14	765.5	65.8	18.8	70	nw.					5					d. clouds	Thomas Mackereth, A.S.
Bradford, Yorkshire	29.72	754.9	30.12	765.0	68.4	20.2	47	ne.			2		7			0.01	0.3	d. clouds	J. McLandsborough, F. R
Bridgetown, Barbadoes																			Corpl. J. Surgenor, A. H.C.
Cardington			30.13	765.3	70.0	21.1	65	n.			0.4		9					overcast	John McLaren.
Chatham, School M. E.	30.03	762.7	30.16	766.1	64.0	17.8	80	s.			1		10					raining	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.96	761.0	30.19	766.8	60.6	15.9	82	se.			1		10					overcast	The Staff.
Fort Napier, Natal	27.81	706.4	30.03	762.7	69.6	20.9	24	calm			0		0					blue sky	Pvt. Lane, A. H.C.
Free Town, Sierra Leone	29.66	753.4	29.88	758.9	86.0	30.0	72	w.			1		3					raining	Sergt. John Robinson.
Gibraltar, Mediterranean	30.06	763.5	30.11	764.8	80.6	27.0	74	e.			2		0					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.93	760.2	30.13	765.3	69.3	20.7	67	wsw.			2		4					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.96	761.0	30.13	765.3	66.6	19.2	75	ssw.			1		10					overcast	The Staff.
Guernsey	29.87	758.7	30.17	766.3	61.5	16.4	82	wnw.			1		8			blank	blank	d. clouds	A. Collenette, F. M. S.
Kew, Observatory	30.11	764.8	30.15	765.8	65.6	18.7	73	w.	2	0.9			10					threatening	The Staff.
Leicester, Museum	29.87	758.7	30.12	765.0	67.1	19.5	62	ne.			1		7					d. clouds	J. C. Smith.
Malta, Mediterranean	29.90	759.4	29.97	761.2	85.8	29.9	52	nw.			2		0					blue sky	I. H. Whysall.
Nassau, Bahamas	30.08	764.0	30.12	765.0	83.0	28.3	78	sw.			1		2					blue sky	C. S. Duncombe.
Oscott, St. Mary's College	29.63	752.6	30.14	765.5	66.9	19.4	64	s.			1		8					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.92	760.0	30.15	765.8	68.1	20.1	50	nw.			1		7					d. clouds	The Staff.
Plymouth	30.10	764.5	30.18	766.6	60.3	15.7	86	sw.			1		10					overcast	John Merrifield.
Sandwick Manse, Orkneys			30.19	766.8	54.3	12.4	88	wnw.	12	5.4			8					d. clouds	Rev. C. Clouston, L. L.D
Scutari Cemetery, Turkey	29.94	760.5	30.00	762.0	84.0	28.9	45	ne.			2		0					blue sky	W. H. Lyne.
Sheffield	29.85	758.2	30.12	765.0	70.8	21.6	69	nw.			1		9			0.01	0.3	overcast	W. F. Cooper.
Silloth Rectory	30.11	764.8	30.14	765.5	66.7	19.3	75	w.			1		6			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.16	766.1	67.0	19.4	68	sw.	8	3.6			6					d. clouds	J. New.
Stratfield Turgiss	29.94	760.5	30.16	766.1	64.3	17.9	83	e.			0-1		10					overcast	Rev. C.H. Griffiths, F.M.S
Truro, Royal Institution	30.15	765.8	30.16	766.1	69	20.6	65	sw.			4		4					d. clouds	W. Newcombe.
Valencia, Observatory	30.10	764.5	30.13	765.3	67.6	19.8	76	sse.	18	8.0			4					d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.76	755.9	29.80	756.9	52	11.1	87	se.	2	0.9			10 n		se.	0.037	0.9	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.73	755.1	29.79	756.7	50	10.0	93	ne.	3	1.3			10 n		ne.	0.28	7.1	light rain	G. A. Blair.
Father Point, Quebec*	29.71	754.6	29.73	755.1	52	11.1	96	n.	5	2.2			10 s		calm	0.04	1.0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	28.93	734.8	29.73	755.1	60	15.6	93	se.	13	5.8		5 cs	5 n	se.	se.	0.32	8.1	cloudy	
Halifax, N. S*	29.65	753.1	29.78	756.4	52	11.1	93	e.	5	2.2			10 n		se.	0	0	cloudy	A. Allison.
Kingston, Ontario*	29.63	752.6	29.96	761.0	58	14.4	72	n.	4	1.8		3 c	0	w.		0.29	7.4	fair	A. P. Knight, M. A.
Montreal, Quebec*	29.71	754.6	29.91	759.7	59	15.0	62	nw.	8	3.6		0	0			0.11	2.8	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.35	745.5	30.03	762.7	56	13.3	74	ne.	18	8.0		2 k	0	nw.		0.03	0.8	fair	Rev. R. Mosley.
Port Dover, Ontario	29.29	744.0	29.96	761.0	62	16.7	77	ne.	6	2.7		0	0			0	0	clear	H. Morgan.
Port Stanley, Ontario	29.32	744.7	29.95	760.7	63	17.2	84	ne.	1	0.4		0	0			0	0	clear	M. Payne.
Quebec, Quebec*	29.49	749.0	29.81	757.2	55	12.8	77	nw.			5	0	2 s		nw.	0.14	3.6	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.60	751.8	30.05	763.3	55	12.8	62	nw.	5	2.2		0	0			0.01	0.3	clear	W. H. McIntyre.
Saugeen, Ontario*	29.29	744.0	29.99	761.7	61	16.1	70	ne.	6	2.7		0	0			0	0	clear	
St. Andrews, N. B	29.69	754.1	29.74	755.4	53	11.7	85	se.	3	1.3			10 n			0.07	1.8	cloudy	
Sydney, C. B*	29.78	756.4	29.84	757.9	51	10.6	86	se.	3	1.3			10 n			0	0	cloudy	T. C. Hill, C. E
Toronto, Ontario*	29.63	752.6	30.00	762.0	61	16.1	62	ne.	4	1.8		2 cs	0	w.		0	0	clear	Magnetic Observatory.
Yarmouth, N. S*	29.64	752.8	29.71	754.6	56	13 3	100	e.	4	1.8		2 k	8 n	w.	se.	0.08	2.0	cloudy	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.58	725.9	30.02	762.5	58.0	14.4	76	ne.				0	0			0	0	clear	Wm. Wylie.
St. Johns, Newfoundland	29.94?	760.5?	30.19?	766.8?	58	14.4	76	w.	1	0.4		5 k	5 s			0	0		John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.21	767.3	30.24	768.1	64.0	17.8	82	w.	10.1	4.5		3 c	0			0.020	0.5	clear	John Duthie.
Cape Town, C. G. H. Obs'y.	30.18	766.6	30.22	767.6	61.5	16.4	84	nw.	4	1.8		1	6			0.550	14.0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
Chinese (*Sub-series*).																			
Hankow	29.69	754.1	29.96	761.0	73.0	22.8	90	ne.			2		10			0.09	2.3		N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.82	757.5	29.85	758.1	69.6	20.9	91	ese.	16.8	7.5		10 ck	0	w.		1.067	27.1	covered	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.88	759.0	29.93	760.2	64.4	18.0	69	calm	0	0			3						Oversergent Fischer.
Fanöe	29.97	761.1	29.98	761.6	61.0	16.1	80	nw.			4		9						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	30.22	767.6	30.26	768.7	52.9	11.6	80	calm			0		5						A. O. Thorlacius.
Thorshavn	30.26	768.6	30.30	769.5	52.5	11.4	79	ne.	9	4			3						Overloerer Bergh.
Vestervig	29.87	758.7	29.96	761.0	62.2	16.8	88	w.			2		10						Loearer Oesterbol.
French.																			
Agen, Normal School	29.49	749.0	30.11	764.9	80.6	27	34					c; ck	0			0	0		M. Labroue, Director.
Alençon, Normal School	29.69	754.0	30.24	768.0	62.6	17	92	e.			1		n			0	0		M. Nicot, Director.
Arras, Engineer School	29.88	759.0	30.13	765.4	66.2	19.0	67	nnw.			3		kn		w.	0.079	2.0		M. Fénéon, Command't.
Avignon, Normal School	29.95	760.8	30.03	762.8	87.8	31	40	nw.			1					0	0		M. Giraud, Director.
Bar-sur-Seine	29.64	752.8	30.17	766.4	71.2	21.8	62	e.			1		8			0	0	very cloudy.	M. Saillard, Director.
Beauvais, Normal School	29.94	760.4	30.20	767.0	67.5	19.7	65	wnw.			1		10		nw.	0	0	covered	M. Frère Eugène Marlé.
Besançon, Normal School	29.27	743.4	30.23	767.8	73.8	23.2	58	nne.			1	c	0	e.		0	0		M. Gobin, Director.
Bordeaux, Observatory	29.87	758.6	30.12	765.0	76.8	24.9	42	nw.			1		8			0	0	very cloudy.	M. Rayet, Director.
Bourges, Normal School	29.69	754.2	30.22	767.6	78.8	26	43	n.			1		kn		n.	0	0		M. Postel, Director.
Brest, Naval Observatory	29.97	761.2	30.21	767.4	63.3	17.4	81	sw.			1		10		sw.	0.008	0.2	raining.	M. de Kermaree, Dir.
Caen, Normal School	30.08	763.9	30.45	765.8	65.1	18.4	73	ssw.			1		10			0.173	4.4	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.84	758.0	30.10	766.0	67.6	19.8	79	w.			1		8			0.008	0.2	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.65	753.1	30.15	765.9	67.3	19.6	65	sw.			1		10			0.04	1.	raining	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.78	730.9	30.08	763.9	76.5	24.7	42	n.			1	5 c; ck	c			0	0	½ covered	M. Alluard, Director.
Cluny, Normal School	29.31	744.5	30.13	765.3	73.8	23.2	48	n.			1		2		n.	0.134	3.4		M. de Villemontée, Dir.
Commercy, Normal School	29.34	745.3	30.20	767.0	62.8	17.1	84	w.			1		kn	w.	w.	0.004	0.1		Dr. Coulet, Director.
Gap, Normal School	27.54	699.5	29.96	760.9	79.5	26.4	21	sw.			1		2 ks		w.	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.95	735.2	30.00	762.1	85.6	29.8	27	sw.			2		1		s.	0	0		M. Kina, Director.
Grenoble, Normal School	29.32	744.8	30.06	763.5	77.2	25.1	47	ese.			1	ck	0			0	0		M. Ablard, Director.
Guéret, Normal School	28.66	727.9	30.21	767.3	73.4	23	48	sw.			1		2		ne.	0	0	slightly cl'dy	M. Rivoire, Director.
Lamballe, Normal School	29.87	758.6	30.14	765.6	68.0	20	81	nw.			1		10		nw.	0	0	covered	M. Ollitrault, Director.
Lescar, Normal School	29.60	751.9	30.15	765.8	72.5	22.5	57	w.			3		5			0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	30.11	764.9	30.22	767.5	65.3	18.5	62	wsw.			1		10			0	0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.10	739.1	30.12	765.0	75.4	24.1	39	nnw.			1	1 c	0	w.		0	0	clear	M. André, Director.
Mans, Normal School	29.94	760.5	30.24	768.2	69.3	20.7	80	s.			1		8		s.	0.004	0.1	very cloudy	M. Piboen, Director.
Marseille, Observatory	29.79	756.6	30.05	763.2	82.2	27.9	43	wsw.			1–2		0			0	0		M. Stephan, Director.
Montlouis	25.03	635.8	29.87	758.8	68.7	20.4	30	w.	7.4	3.3			5		n.	0.756	19.2		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.91	759.6	30.03	762.8	85.6	29.8	40	sw.			2		2			0	0	slightly cl'dy	M. Galzin, Director.
Nancy, Normal School	29.39	746.6	30.16	766.1	68.0	20.0	62	sw.			1		kn		nw.	0.024	0.6		M. Hasse, Director
Nantes, Observatory	30.04	763.1	30.21	767.2	72.7	22.6	73	wsw.			0–2		10 n			0	0		M. Larocque, Director.
Perpignan, Observatory	29.96	760.9	30.06	763.5	85.1	29.5	33	e.	5.6	2.5			3	w.		0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.50	546.1			52.5	11.4		w.			1		10		w.	0.244	6.2	rainy	Gen'l de Nansouty, Dir.
Privas, Normal School	29.08	738.6	30.00	764.3	82.4	28	32	n.			1		5			0	0	cloudy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.36	644.0			55.0	12.8	76	e.			2	ck	2 k			0.004	0.1	¼ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	30.12	765.1	30.15	765.9	73.8	23.2	100	nw.			2		10		sw.			raining	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.99	761.8	30.21	767.2	68.4	20.2	83	wnw.			1		10					light rain	M. Mouillot, Director.
Rodez, Normal School	28.02	711.8	30.07	763.8	78.3	25.7	38	nw.			1		8		s.	0	0		M. Seger, Director.
Rouen, Normal School	30.19	766.7	30.23	767.9	67.3	19.6	64	sw.			1		10	w.		0	0	covered	M. Brotier.
Saint Maur, Observatory	30.03	762.8	30.20	767.0	66.7	19.3	66	nne.			1		10			0.004	0.1		M. Renou, Director.
Toulouse, Observatory	29.45	748.0	30.18	766.5	87.3	30.7	28	nw.			1		2			0	0	slightly cld'y	M. Baillard, Director.
Tours	30.00	762.1	30.18	766.6	69.8	21.0	75	nne.			1		10		sw.	0	0	stormy	M. de Tastes.
Versailles, Observatory	29.71	754.6	30.20	767.1	66.2	19.0	64	n.			1					0.004	0.1		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.92	760.0	30.21	767.4	65.8	18.8	61	w.			1		10		wnw.	inap.	inap.	sprinkling	M. Marié Davy, Director
German.																			
Bamberg	29.28	743.6	30.13	765.4	68.0	20.0	40	calm			0	0	6 s			0	0		Prof. Dr. Hoh.
Berlin	29.94	760.4	30.11	764.8	66.7	19.3	62	nw.			2		8			0.094	2.4		Prof. Dr. Arndt.
Breslau	29.56	750.7	30.09	764.2	62.8	17.1	71	w.			2		10			0.012	0.3		Royal University Obs'y.
Carlsruhe	29.73	755.1	30.16	766.0	65.5	18.6	92	sw.			2		10	sw.		0.031	0.8	raining	Albert Senz.
Cassel	29.34	745.3	30.06	763.4	66.9	19.4	84	s.			2		10	sw.		0.071	1.8		Dr. H. Möhl.
Frankfort-on-the-Main	29.75	755.6	30.11?	764.7	70.2	21.2	69	wsw.			1		10			0	0		Physical Society.
Friedrichshafen	28.72	729.4	30.11	764.7	70.2	21.2	61	sw.			2		8	w.		0	0		Wilhelm, Chief Tel.
Hamburg	29.93	760.1	30.02	762.5	70.0	21.1	55	wnw.			5		2	w.		0.012	0.3		E. Preller.
Kiel	29.97	761.2	29.98	761.6	61.9	16.6	83	w.			1		10			0.563	14.3		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.65	753.1	30.06	763.4	72.0	22.2	55	w.			3		6	wnw.		0.161	4.1		H. Leppig, Asst.
Magdeburg	29.84	757.9	30.02	762.6	72.0	22.2	51	wnw.			3	3 c	0	w.		0.039	1.0		Dr. Assmann.
Memel	29.81	757.1	29.85	758.3	64.2	17.9	77	nw.			4		10 s						Isserman.
Munich	28.34	719.8	30.21	767.4	69.3	20.7	54	nw.			1		6	nw.		0	0		Central Station.
Neufahrwasser	29.90	759.4	29.91	759.8	62.1	16.7	82	w.			4		10			0.524	13.3	raining	A. Lothes.
Neustadt, Palatinate	29.61	752.1	30.14	765.5	64.8	18.2	88	w.			2		10	w.		0.669	17.0		Dicknether.
Stuttgart	29.20	741.6	30.07	763.7	67.1	19.5	72	ne.			1		10			0	0		Prof. Dr. Schoder.
Wustrow	29.97	761.3	30.00	762.0	63.9	17.7	80	wnw.			2	0	0			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.65	753.0			87.4	30.8		ne.			3.0		0			0	0	clear	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.66	753.4	29.71	754.7	87.8	31.0	80	wsw.	25.0	11.2			8			0	0	gloomy	
Deesa	29.16	740.6	29.61	752.2	98.1	36.7	36	wsw.	12.0	5.4			4	wsw.	wsw.	0	0	d. clouds	
Bombay	29.75	755.6	29.79	756.6	84.5	29.2	81	w.	14.0	6.3			7		wnw.	0.26	6.6	d. clouds	
Poona, Yarrowda	27.92	709.0	29.76	756.0	78.8	26.0	69	w.	19.0	8.5			9		w.	0.16	4.1	d. cloudy	
Trichinopoly	29.50	749.3	29.78	756.3	89.2	31.8	45	nw.	2.0	0.9			10			0	0	overcast	
Bellary	28.28	718.4	29.73	755.1	86.2	30.1	50	wnw.	12.9	5.8			10			0	0	gloomy	
Belgaum	27.28	693.0	29.85	758.1	70.0	21.1	91	wsw.	10.0	4.5			8	e.	sw.	0.07	1.8	showery	
Lahore	28.79	731.2	29.49	749.0	105.3	40.7	32	ne.	5.1	2.3			0			0	0		
Roorkee	28.69	728.7	29.57	751.0	88.2	31.2	66	calm	3.7	1.6			3			1.73	43.9		
Agra	29.06	738.2	29.62	752.3	86.7	30.4	72	e.	5.6	2.5			6		e.	0.04	1.0	d. clouds	
Nagpur	28.60	726.5	29.63	752.7	83.2	28.4	76	sw.	3.6	1.6			10		n.	0	0	overcast	
Jubbulpore	28.33	719.5	29.66	753.2	87.6	30.9	59	ene.	2.3	1.0			10		e.	0.10	2.5	overcast	
Lucknow	29.20	743.1	29.63	752.6	80.2	26.8	89	calm	0.9	0.4			10	ssw.		0.78	19.8	overcast	
Allahabad	29.30	744.3	29.61	752.1	87.9	31.1	76	calm	0.4	0.2			10			0	0	overcast	
Patna	29.46	748.2	29.64	752.8	89.8	32.1	72	e.	3.3	1.5			8	e.	e.	0	0	d. clouds	
Hazaribagh	27.68	703.0	29.67	753.7	78.8	26.0	87	calm	6.3	2.8			10	w.	e.	0.17	4.3	thund'r st'm	
Cuttack	29.60	751.8	29.68	753.8	88.1	31.2	61	s.	1.5	0.7			3			0	0	d. clouds	
Calcutta, Alipore	29.63	752.7	29.66	753.2	84.2	29.0	77	sw.	7.0	3.1			9	sw.		0	0	gloomy	
Dhubri	29.54	750.3	29.66	753.2	82.5	28.1	85	calm	1.8	0.8			9			0.02	0.5	d. clouds	
Chittagong	29.62	752.4	29.71	754.7	82.3	27.9	84	sw.	4.1	1.8			3			0	0	blue sky	
Sibsagar	29.33	745.0	29.66	753.4	85.3	29.6	79	ssw.	1.9	0.8			10	w.	w.	0.09	2.3	d. clouds	
Jeypore	28.18	715.6	29.56	750.8	98.8	37.1	37	nw.	3.4	1.5			6		nw.	0.02	0.5	d. clouds	
Zanzibar, Africa	30.08	764.0			81.0	27.2	61	se.	7.8	3.5			7		se.	0	0	d. clouds	
Italian.																			
Udine	29.65	753.2	30.05	763.2	82.8	28.2	48	s.	1.3	0.6			3			0	0		Prof. Giovanni Clodig.
Milan	29.54	750.4	30.04	763.0	83.8	28.8	41	se.	6.3	2.8			2			0	0		Prof. Schiaparelli.
Padua	29.95	760.6	30.05	763.3	81.3	27.4	36	ene.	5.6	2.5			1			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.13	739.9	30.00	762.0	79.9	26.6	52	ese.	4.3	1.9			5	ne.		0.736	18.7		Prof. P. F. Denza.
Genoa	29.88	759.0	30.07	763.7	77.2	25.1	66	sw.	3.1	1.4			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.16	715.2	29.99	761.8	79.0	26.1	58	wnw.			2		2	ese.		0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	29.88	758.9	29.93	760.1	80.1	26.7	54	ne.	3.8	1.7			2			0	0		Prof. Luigi Guidi.
Florence	29.77	756.2	30.02	762.5	86.0	30.0	28	nw.			2		5	s.		0	0		Prof. Costantino Pitter.
Leghorn	29.91	759.7	29.99	761.8	79.2	26.2	62	w.	3.1	1.4			1			0	0		Prof. P. Monte.
Rome	29.87	758.8	30.04	763.1	86.7	30.4	45	sw.	10.5	4.7			7			0	0		Prof. P. S. Ferrari.
Lecce	29.78	756.4	30.02	762.6	90.1	32.3	20	sw.	6.3	2.8			0			0	0		Prof. C. de Giorgi.
Cosenza	29.22	742.2	30.08	763.9	89.6	32.0	74	wsw.	4.3	1.9			0			0	0		Prof. D. Conti.
Cagliari	29.84	757.9	30.03	762.7	77.7	25.4	64	se.			4		6	w.		0	0		Prof. A. Pacinotti.
Palermo	29.84	757.8	30.08	764.0	84.7	29.3	32	ene.	6.9	3.1			1			0	0		Prof. G. Ciaccialore.
Syracuse	29.97	761.3	30.02	762.4	85.3	29.6	70	nne.	3.1	1.4			3	nne.		0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.56	750.7	30.05	763.3	83.3	28.5	39	s.	4.3	1.9			3			0	0		Prof. T. Brioschi.
Stelvio	22.38	568.5			54.0	12.2	54	w.			1		8			0.268	6.8	misty	Prof. P. F. Denza.
Valdobbia	22.42	569.4			51.8	11.0	75	e.			2		9			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.89	759.2	29.92	759.9	63.8	17.7	88	w.	1.9	0.8		0	0			0	0	clear	K. Ogawa.
Hakodate	29.89	759.2	29.90	759.4	61.0	16.1	71	sw.	6.0	2.7			2			0	0	clear	
Hiroshima, I. M. Obs'y	29.85	758.2	29.87	758.7	70.6	21.0	82	ssw.	1.4	0.6		2 ck	0	s.		0	0	clear	I. Sogawa.
Kanazawa	29.80	756.9	29.90	759.4	67.9	19.9	78	sse.	5.9	2.6		ck	10ks;s			0.150	3.8	cloudy	S. Endo.
Kioto	29.76	755.9	29.93	760.2	70.3	21.3	81	ssw.	1.0	0.4		10ck;cs	0			0	0	cloudy	M. Tojima.
Kochi	29.93	760.2	29.95	760.7	67.9	19.9	93	nw.	2.5	1.1		5 cs	3 s	w.	ne.	0	0	fair	K. Kusunose.
Nagasaki, I. M. Obs'y	29.69	754.1	29.89	759.2	68.1	20.1	50	sw.	0.4	0.2		10 cs	0			0	0	cloudy	S. Takehayashi.
Nemuro	29.89	759.2	29.95	760.7	53.0	11.7	93	se.	3.0	1.3		10	0			0	0	cloudy	
Niigata	29.88	758.9	29.91	759.7	65.6	18.7	90		0.4	0.2		7ck;cs	0			0	0	cloudy	M. Morita.
Nobiru	29.91	759.7	29.93	760.2	66.9	19.4	91	se.	9.6	4.3		cs	8 s			0	0	fair	H. Midzushina.
Supporo					58.5	14.7	87	se.	13.8	6.2			8			0.140	3.6	overcast	
Tokei Obs'y, Yeddo	29.89	759.2	29.95	760.7	70.8	21.6	87	s.	6.3	2.8		cs	10 ks		s.	0	0	cloudy	The Staff.
Wakayama	29.87	758.7	29.92	759.9	69.1	20.6	83	ssw.	3.6	1.6		7 ck	0	w.		0	0	fair	Y. Kuwamuea.
MAURITIUS																			
Mauritius Observatory	30.05	763.3	30.24	768.1	69.8	21.0	65	ese.	15.0	6.7		1 cs	5 ks;n		ese.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.68	601.1	29.89	759.1	59.2	15.1	88	ne.	1.1	0.5		1 c	5 k		ne.	0	0	fair	Prof. Vicente Fernandez.
Leon	24.37	619.0	30.00	762.0	60.8	16.0	82	ne.			1	6 c	0	s.		0	0	½ clouded	Prof. M. Leal.
Mazatlan	29.62	752.4	29.88	758.9	80.0	26.7	82	wnw.	5.3	2.3		0	9 n		wnw.	0	0	very cloudy	F. Quijano, C. E.
Mexico, Central Obs'y	23.13	587.6	30.16	766.0	54.9	12.7	93	calm	0	0			10 n			0.264	6.7	raining	The Staff.
Morelia	24.30	617.3	30.38	771.8	60.8	16.0	56	se.			2	1	3	se.	se.	0	0	½ clouded	M. Tena, M. D.
Pabellon, Aguascalientes	23.96	608.5	29.93	760.2	61.3	16.3	89	n.			1	3 c	3 k	sse.	sse.	0	0	½ clouded	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.44	595.3	30.20	767.1	51.8	11.0	89	calm	0	0		0	0			0.343?	0.7?	clear	Prof. P. Spina.
San Luis Potosi	24.26	616.1	30.14	765.6	66.2	19.0	71	se.				2	5	w.	e.	0	0	cloudy	G. Barroeta, M. D.
Zacatecas	22.59	573.7	30.21	767.2	52.0	11.1	92	e.	7.5	3.4			10			0	0	gloomy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.17	766.2	30.17	766.2	64.9	18.3		w.			4					0	0		
Groningen	30.04	763.0	30.10	764.4	67.8	19.9		nnw.			1					0	0		
Helder	30.12	765.0	30.12	765.0	59.7	15.4		w.			1					0	0		
Hellevoetsluis	30.15	765.7	30.15	765.7	68.2	20.1	73	nw.			1					0	0		
Utrecht	30.09	764.2	30.13	765.4	68.2	20.1	72	w.			1		5			0.031	0.8	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.85	758.1	29.91	759.7	64.8	18.2	78	wnw.	4	2			0			0	0		
Brono	30.02	762.4	30.06	763.4	56.1	13.4	64	nne.	18	8			0			0	0		
Christiania	29.88	758.9	30.02	762.5	62.4	16.9	57	sw.	13	6			9			0.004	0.1		
Gjæsvær	30.03	762.7	30.05	763.3	44.1	6.7		wnw.			7		2						
Lodingen	30.08	763.9	30.12	765.1	48.7	9.3	52	ne.			6		9			0	0		
PORTUGUESE.																			
Angra, Azores					73.4	23.0	81	w.	4.3	1.9			2			0	0		
Campo Major	29.12	739.7	30.08	764.0	82.9	28.3	32	wnw.	6.3	2.8			6			0	0		Dr. J. A. Sampaio.
Funchal, Maderia	30.22	767.7	30.31	769.9	70.7	21.5	68	sw.	9.4	4.2			0			0	0		Dr. A. M. R. dos Santos.
Lisbon, Observatory	29.86	758.5	30.22	767.5	71.1	21.7	48	nnw.	21.7	9.7			8			0	0		Capt. D. A. de Cunha.
Ponta Delgada, Azores	30.43	773.0	30.50	774.7	79.9	26.6	60	w.	7.4	3.3			5			0	0		The Staff.
Saint Paul de Loando	29.88	758.9	30.08	764.1	69.8	21.0	86	n.	0.7	0.3			10			0	0		
Serra da Estrella	25.50	647.7	30.08	764.1	66.6	19.2	47	nne.	4.3	1.9			10			0	0		
RUSSIAN.																			
Akmolinski	28.58	726.0	29.61	752.2	69.1	20.6	29	w.	9	4		0	6 k			0	0		
Archangel	29.87	758.8	29.89	759.3	45.1	7.3	62	wnw.	13	6		0	4 ks			0.551	14.0		Major K. Lasarew.
Astrakhan	30.07	763.7	29.98	761.6	87.6	30.9	33	wsw.	10	7		0	4 k			0	0		Capt. Sselliwerstow.
Barnaul	29.18	741.1	29.66	753.4	59.2	15.1	84	wnw.	4	2			9			0.268	6.8		Capt. Wisganow.
Dorpat	29.58	751.4	29.82	757.5	53.2	11.8	78	ne.	11	5			10 n			0.307	7.8		Meteorological Obs'y.
Ekaterinburg	28.71	729.3	29.66	753.4	50.7	10.4	70	nw.	9	4		0	8 n			0.091	2.3		Observatory.
Irkutsk	28.11	714.1	29.69	754.1	65.5	18.6		calm	0	0			10			0.114	2.9	raining	Meteorological Obs'y.
Kasan	29.42	747.3	29.69	754.0	58.6	14.8	75	calm	0	0			10			0.098	2.5		Observatory.
Kertch	30.02	762.5	30.04	763.0	73.0	22.8	83	se.	22	10		0	4 ks			0	0		Lagorio & Sastyrex.
Kieff	29.20	741.0	29.81	757.2	65.3	18.5	61	sw.	34	15			10 n			0.102	2.6	heavy rain	Observatory.
Lugan	29.69	754.1	29.88	759.0	84.6	29.2	36	wsw.	13	6			7			0	0		Meteorological Obs'y
Moscow	29.11	739.3	29.57	751.0	59.9	15.5	90	w.	7.8	3.5			9 ks					raining	Meteorological Obs'y.
Nikolaiev	29.93	760.2	30.00	762.0	82.4	28.0	39	s.	45	20		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.84	757.9	29.93	760.1	54.9	12.7	77	e.	2	1			1			0	0		Lieut. Iwanow.
Pekin, China	29.45	747.9	29.59	751.5	91.4	33.0	26	sw.	13	6		0	5 ks			0	0		Physical Observatory
St. Petersburg	29.88	759.0	29.90	759.4	52.5	11.4	47	ene.	11	5		ck	8 k			0	0		Central Physical Obs'y.
Semipalatinsk	29.06	738.0	29.69	754.0	67.6	19.8	74	sw.	13	6			10			0.197	5.0		Major Lasarew.
Tashkend, Laboratory	28.33	719.5	29.78	756.5	90.1	32.3	28	calm	0	0			0						Teich, A. M.
Tiflis	28.72	729.5	30.08	763.9	81.7	27.6	44	e.	4	2		0	6 k			0	0		Physical Observatory
Vladivostock	29.66	753.4			57.9	14.4	97	se.	34	15			10 n						
Warsaw	29.51	749.5	29.92	759.9	65.8	18.8	67	nw.	13	6			10ks;n					light rain	Astronomical Obs'y
Wilna	29.37	746.1	29.79	756.7	61.5	16.4	88	sw.	7	3			10			0.386	9.8	heavy clouds	Berg, Assistant.
SPANISH.																			
Barcelona, Met. Obs'y	29.97	761.2	30.07	763.8	75.2	24	62	e.	3.4	1.5			0			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	30.17	766.4	30.23	767.9	75.2	24.0	56	nw.	2.2	1.0		3	4	nw.		0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.21	691.2	30.06	763.4	77.0	25.0	42	ne.	5.8	2.6			1			0	0	almost clear	Domingo Martin.
Madrid, Royal Obs'y	27.91	708.8	29.98	761.6	91.2	32.9	38	s.	4.3	1.9		0	6			0.020	0.5	cloudy	The Staff.
Murcia, Met. Obs'y	29.93	760.3	30.08	764.1	88.2	31.2	46	e.	2.9	1.3		0	3			0	0	almost clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.32	744.7	30.21	767.2	66.0	18.9	70	n.	13.0	5.8			10			0	0	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	29.98	761.6	30.05	763.2	80.9	27.2	78	ese.	5.4	2.4		3 c;cs	0	ese.		0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.83	757.7	29.89	759.2	76.9	24.9	90	nw.	2.2	1.0		0	5 n		e.	2.650	67.3	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.05	763.2	30.15	765.7	78.8	26.0	62	w.	5.4	2.4		3	2	sw.	sw.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.01	762.3	30.10	764.6	79.5	26.4	94	calm	0	0		3 cs	2 k	s.	s.	0	0		Manuel Maese.
Tuguegarao, Philippine Id's	29.76	755.9	29.89	759.2	82.2	27.9	86	ne.	1.2	0.5		0	2 k			inap.	inap.	fair	José L. Yrastorza.
SWEDISH.																			
Haparanda	30.03	762.7	30.07	763.7	55.0	12.8	57	sw.			4		5			0	0		
Umea	30.02	762.6	30.08	763.9	58.6	14.8	47	sw.			2		7			0	0		
Hernosand	30.08	763.9	30.13	765.2	59.4	15.2	36	ese.			2		1			0	0		
Stockholm	29.83	757.6	30.00	762.1	55.4	13.0	73	nne.			4		10			0.059	1.5		
Visby	29.89	759.1	29.95	760.6	60.4	15.8	73	nne.			4		5			0.075	1.9		
Sub-series.																			
Upsala	29.91	759.6	29.99	761.8	57.0	13.9	44	nne.	13.6	6.1			7	w.	nne.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.72	729.5	30.10	764.5	72.3	22.4	53	nnw			2					0	0		The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
SCOTTISH.																			
Monach Lt			30.21	767.3	57	13.9	93	n.			3	0	0			0	0		J. Youngclause.
North Unst			30.20	767.1				ne.			4	1	2	ne.				hazy	
TURKISH.																			
Constantinople			30.08	763.9	76.3	24.6	51	ne.	15	6.5			0			0	0		The Observatory.
Valona			30.19	766.8	85.1	29.5		s.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.89	759.3	81.3	27.4	69	wnw.			1	0	0			0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.83	757.7	29.91	759.7	68	20.0	59	n.	5	2.2		9 cs	0	nw.		0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.40	746.7	30.05	763.3	59	15.0	65	ne.	14	6.3		0	0			0	0	clear	Jas. J. Fitzgerald.
Atlanta, Georgia	28.84	732.5	29.99	761.7	76.5	24.7	82	w.	9	4.0		10 k	0	w.		0	0	cloudy	H. Hall.
Atlantic City, New Jersey	29.85	758.2	29.86	758.4	70.3	21.3	66	n.	8	3.6		4 k	0	w.		0	0	fair	Jas. M. Watson.
Augusta, Georgia	29.79	756.7	29.98	761.5	78	25.6	82	nw.	4	1.8		7 cs	0			inap.	inap.	fair	John Healy.
Baltimore, Maryland	29.88	758.9	29.92	760.0	77	25.0	56	n.	6	2.7		5 ck	0	w.		0.10	2.5	fair	Robert Seybolt.
Barnegat, New Jersey	29.84	757.9	29.86	758.4	72.0	22.2	76	n.	13	5.8		0	0			0.11	2.8	clear	Chas. F. Merritt.
Behring Island, Behring Sea	29.75	755.6	29.77	756.1	47.2	8.4		s.	3	1.3		1 cs	1 s			0	0	clear	Dr. L. Steineger.
Bismarck, Dakota	27.88	708.1	29.63	752.6	69	20.6	90	s.	12	5.4			10 s		w.	0.02	0.5	cloudy	Cyrus Cramer.
Boise City, Idaho	27.08	687.8	29.86	758.4	58	14.4	64	nw.	2	0.9		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.66	753.4	29.81	757.2	65.0	18.3	60	nw.	15	6.7		6 c	0	nw.		0	0	fair	O. B. Cole.
Brownsville, Texas	29.91	759.7	29.95	760.7	79.7	26.5	82	se.	4	1.8		0	1 ks		calm	0	0	clear	M. McCarty.
Buffalo, New York	29.25	742.9	29.99	761.7	61.7	16.5	55	ne.	5	2.2		7 ck;cs	0	w.		0	0	fair	Wm. Finn.
Burlington, Vermont	29.63	752.6	29.92	760.0	59.5	15.3	59	n.	11	4.9		0	2 ks		n.	0.13	3.3	clear	G. C. Schaeffer.
Cairo, Illinois	29.55	750.6	29.94	760.5	70.8	24.9	92	w.	7	3.1			10 s		w.	0.36	9.1	cloudy	W. H. Clendenon.
Campo, California	27.31	693.7	29.79	756.7	41.2	5.1	82	w.	2	0.9		0	0			0	0	clear	J. T. Fitzgerald.
Camp Thomas, Arizona	27.16	689.9	29.79	756.7	70.5	21.4	92	s.			1	6 k	3 ks	sw.	sw.	0.42	10.7	cloudy	A. K. Alderson.
Cape Henry, Virginia	29.83	757.7	29.85	758.2	77	25.0	82	nw.	12	5.4		6 ck;c	1 s	w.		0.09	2.3	fair	W. Bolton.
Cape May, New Jersey	29.84	757.9	29.87	758.7	73	22.8	84	ne.	14	6.3		5 ck	0	w.		inap.	inap.	fair	F. W. Mixer.
Cedar Keys, Florida	30.03	762.7	30.05	763.3	83	28.3	67	w.	14	6.3		5 c	hz.			0	0	fair	L. A. Welsh.
Champaign, Illinois	29.10	739.1	29.89	759.2	69.6	20.9	88	ne.	9	4.0			10 s		ne.	0.25	6.3	cloudy	J. H. Smith.
Charleston, S. Carolina	29.87	758.7	29.92	760.0	79	26.1	88	w.	8	3.6		0	8 s		w.	0.18	4.6	cloudy	D. O'Donoghue.
Charlotte, N. Carolina	29.05	737.9	29.88	758.9	77.0	25.0	69	w.	1	0.4		10 cs	hz	w.		0	0	cloudy	B. L. Goulding.
Chattanooga, Tennessee	29.19	741.4	30.00	762.0	78.0	25.6	82	sw.	2	0.9		4 cs	1 k		sw.	0.28	7.1	fair	E. McGovern.
Cheyenne, Wyoming	24.02	610.1	29.76	755.9	57.8	14.3	77	nw.	4	1.8		0	5 s		nw.	0.16	4.1	fair	J. Mitchell.
Chicago, Illinois	29.25	742.9	29.94	760.5	62.0	16.7	87	ne.	6	2.7		1 k	0			0.38	9.7	clear	V. P. Temple.
Chincoteague, Virginia	29.83	757.7	29.85	758.2	73	22.8	90	n.	18	8.0		9 cs	0			0.50	12.7	cloudy	R. B. Watkins.
Cincinnati, Ohio	29.28	743.7	29.92	760.0	76	24.4	85	se.	2	0.9			10 ks		sw.	0.27	6.9	threatening	J. B. Newlin.
Cleveland, Ohio	29.25	742.9	29.98	761.5	67	19.4	68	ne.	4	1.8		4 c	0	w.		0	0	fair	L. Dorman.
Coleman City, Texas	28.20	716.3	29.96	761.0	74	23.3	74	se.	6	2.7		0	0			0	0	clear	D. Cuthbertson.
Columbus, Ohio	29.09	738.9	29.93	760.2	69	20.6	78	ne.	5	2.2			10 s		nw.	0.54	13.7	cloudy	W. W. McConihe.
Concho, Texas	28.07	713.0	29.94	760.5	74	23.3	69	s.	4	1.8		0	0			0	0	clear	R. R. Martin.
Davenport, Iowa	29.29	744.0	29.93	760.2	68	20.0	90	e.	4	1.8			10 s		e.	0.30	7.6	cloudy	H. Clifford.
Dayton, Washington T'y	28.23	717.0	29.97	761.2	52.2	11.2	74	sw.	2	0.9		0	0			0	0	clear	G. W. Scott.
Deadwood, Dakota	25.26	641.6	29.70	754.4	62	16.7	90	n.	2	0.9		10 cs	0	w.		0	0	cloudy	D. J. Carr.
Decatur, Texas					80	26.7	47	se.	6	2.7		4 c	0			0	0	fair	F. O. Pratz.
Delaware Breakwater, Del.	29.84	757.9	29.86	758.4	68	20.0	78	ne.	16	7.2		6 ck	hz.	w.		inap.	inap.	fair	J. McGlone.
Denison, Texas	29.18	741.2	29.96	761.0	76.3	24.6	82	sw.	7	3.1		0	0			0	0	clear	F. M. Neal.
Denver, Colorado	24.69	627.1	29.73	755.1	64.0	17.8	82	s.	7	3.1		0	4 k		sw.	0.12	3.0	fair	F. W. Conrad.
Des Moines, Iowa	28.99	736.3	29.87	758.7	71	21.7	90	sw.	8	3.6			10 n		sw.	0.70	17.8	thnd'r str'm	C. F. R. Wappenhans.
Detroit, Michigan	29.28	743.7	29.98	761.5	66.2	19.0	63	ne.	6	2.7		0	0			0	0	clear	E. A. Thomas.
Dodge City, Kansas	27.24	691.9	29.75	755.6	76	24.4	58	s.	10	4.5		0	8 s		sw.	0	0	cloudy	J. Harvey Smith.
Dubuque, Iowa	29.25	742.9	29.94	760.5	66	18.9	78	e.	4	1.8		7 ck	1 s	nw.	s.	0.18	4.6	cloudy	N. B. Conger.
Duluth, Minnesota	29.28	743.7	29.97	761.2	56	13.3	74	ne.	16	7.2			10 s		ne.	0	0	cloudy	F. Belford.
Eagle Pass, Texas	29.18	741.2	29.97	761.2	77.0	25.0	69	se.	5	2.2		0	0			0	0	clear	J. M. Clifford.
Eagle Rock, Idaho	25.24	641.1	29.83	757.7	55	12.8	55	sw.	6	2.7		0	0			0	0	clear	D. O. Murphy.
Eastport, Maine	29.66	753.4	29.73	755.1	51.0	10.6	86	n.	4	1.8			10s;fg		n.	0.12	3.0	cloudy	J. F. Marshall.
El Paso, Texas	26.25	666.7	29.84	757.9	76	24.4	58	ne.	1	0.4		4 c	0	calm		0.12	3.0	fair	Peter Wood.
Erie, Pennsylvania	29.24	742.7	29.96	761.0	66	18.9	78	calm	0	0		0	0			0	0	clear	C. Dill.
Escanaba, Michigan	29.40	746.7	30.05	763.3	59	15.0	65	n.	3	1.3		0	0			0	0	clear	W. C. Barnes.
Fort Apache, Arizona	25.03	635.8	29.78	756.4	54	12.2	93	e.	4	1.8		0	6 s		calm	1.61	40.9	fair	B. O. Lenoir.
Fort Assinnaboine, Montana	27.04	686.8	29.83	757.7	58	14.4	72	sw.	12	5.4		0	0			0	0	clear	A. Pritchard.
Fort Bennett, Dakota	28.12	714.2	29.66	753.4	70	21.1	97	se.	5	2.2			10 s		calm	0	0	cloudy	G. W. Davis.
Fort Benton, Montana	27.08	687.8	29.84	757.9	59	15.0	84	e.	3	1.3		0	0			inap.	inap.	clear	A. H. Bell.
Fort Buford, Dakota	27.78	705.6	29.74	755.4	62	16.7	78	nw.	1	0.4		5 cs	0	nw.		0.27	6.9	fair	V. Verge.
Fort Custer, Montana	26.75	679.4	29.81	757.2	65	18.3	70	n.	4	1.8		6 k	0	calm		0.35	8.9	fair	J. Williams.
Fort Davis, Texas	25.17	639.3	29.78	756.4	70	21.1	76	calm	0	0		0	0			0.44	11.2	clear	W. J. Cundall.
Fort Elliott, Texas	27.15	689.6	29.82	757.4	71	21.7	59	s.	12	5.4		6 c	0	s.		0	0	fair	Robert C. Lord.
Fort Grant, Arizona	25.22	640.6	29.76	755.9	65.9	18.8	84	calm	0	0		0	9 s			0.32	8.1	cloudy	W. B. Stockman.
Fort Keogh, Montana	27.33	694.2	29.76	755.9	63	17.2	90	sw.	6	2.7		5 cs	0	sw.		0.04	1.0	fair	W. W. Thomas.
Fort Macon, North Carolina	29.86	758.4	29.87	758.7	79	26.1	77	nw.	9	4.0		8 cs	hz.			0	0	cloudy	J. E. Thatcher.
Fort McKavett, Texas	27.79	705.9	29.99	761.7	72	22.2	82	sw.	7	3.1		0	0			0	0	clear	J. H. Jones.
Fort Missoula, Montana	26.71	678.4	29.97	761.2	52	11.1	86	sw.	1	0.4		8 k	0	w.		0	0	cloudy	A. P. Leavitt.
Fort St. Michaels, Alaska	29.58	751.3	29.61	752.1	54	12.2	80	se.	8	3.6		0	5 s		se.	0	0	fair	A. L. Mathews.
Fort Shaw, Montana	26.29	667.8	29.86	758.4	53	11.7	74	nw.	2	0.9		0	0			0.03	0.8	clear	T. Cleary.
Fort Sill, Indian Territory	28.72	729.5	29.92	760.0	73.5	23.1	78	s.	8	3.6		2 c	0			0	0	clear	J. B. Campbell.
Fort Smith, Arkansas	29.49	749.0	29.95	760.7	78.0	25.6	88	e.	2	0.9		0	0			0	0	fair	W. Burrows.
Fort Stevenson, Dakota	27.87	707.9	29.67	753.6	73	22.8	44	se.	3	1.3		6 cs	0			0.04	1.0	light rain	D. Brooks.
Fort Verde, Arizona					67	19.4	90	s.			1		10 n		s.	0.28	7.1	fair	T. M. Ambler.
Fort Washakie, Wyoming	24.44	620.8	29.82	757.4	54.0	12.2	77	sw.	4	1.8		4 k	c			0	0	clear	H. S. Miles.
Fredericksburg, Texas	28.27	718.0	29.95	760.7	72	22.2	84	sw.	10	4.5		0	0			0	0	fair	E. O'C. MacInerney.
Galveston, Texas	29.98	761.5	30.03	762.7	83	28.3	77	s.	10	4.5		0	5 k		s.	0	0	clear	W. A. Reid.
Grand Haven, Michigan	29.33	745.0	29.98	761.5	60.5	19.2	66	ne.	6	2.7		0	0			0	0	cloudy	R. M. Crawford.
Hatteras, North Carolina	29.85	758.2	29.87	758.7	80	26.7	79	nw.	10	4.5		0	9 k		w.	0.10	2.5	clear	S. Wheaton.
Helena, Montana	25.78	654.8	29.90	759.4	55	12.8	64	sw.	2	0.9		0	0			inap.	inap.	clear	J. W. Byram.
Henrietta, Texas	28.98	736.1	29.96	761.0	80.0	26.7	62	s.	7	3.1		2 c	0			0	0	clear	S. W. Glenn.
Huron, Dakota	28.38	720.8	29.72	754.9	67.1	19.5	84	se.	8	3.6			10 s			0.74	18.8	cloudy	O. Schutze
Indianapolis, Indiana	29.11	739.4	29.89	759.2	70	21.1	93	n.	3	1.3			10 s		n.	1.54	39.1	cloudy	I. A. Reed.
Indianola, Texas	29.98	761.5	30.01	762.2	80.1	26.7	88	se.	5	2.2		0	2 ks		s.	0	0	clear	J. P. Sherry.
Jacksboro, Texas	28.82	732.0	29.94	760.5	77	25.0	69	s.	4	1.8		1 c	0			0	0	clear	J. W. Smith.
Jacksonville, Florida	29.97	761.2	30.01	762.2	83	28.3	80	sw.	11	4.9		5ck;cs	0	sw.		0.65	16.5	fair	F. Z. Gosewisch
Keokuk, Iowa	29.24	742.7	29.88	758.9	73.5	23.1	84	ne.	2	0.9			10 s			0.78	19.8	cloudy	R. H. Paxton.
Key West, Florida	30.03	762.7	30.05	763.3	83.0	28.3	72	se.	2	0.9		0	2 k;hz		se.	0	0	clear	E. A. Beals.
Kittyhawk, North Carolina	29.86	758.4	29.88	758.9	77	25.0	76	n.	13	5.8		4 c	0	n.		0.71	18.0	fair	J. A. Cody.
Knoxville, Tennessee	28.97	735.8	29.98	761.5	70.8	21.6	95	sw.	6	2.7			10 s		w.	0.43	10.9	cloudy	S. C. Emery.
La Crosse, Wisconsin	29.19	741.4	29.95	760.7	72	22.2	84	se.	6	2.7		0	3 s			0	0	clear	N. D. Lane.
La Mesilla, New Mexico	26.09	662.7	29.81	757.2	64.8	18.2	90	calm	0	0		2 c	2 k			0.24	6.1	fair	A. W. Browne.
Leavenworth, Kansas	28.99	736.3	29.86	758.4	78	25.6	74	se.	10	4.5		5 cs	0	w.		0	0	fair	W. Bell.
Lewiston, Idaho	29.12	739.6	29.94	760.5	59.0	15.0	60	e.	1	0.4		0	0			0	0	clear	W. U. Simmons.
Little Rock, Arkansas	29.65	753.1	29.96	761.0	80	26.7	82	sw.	3	1.3		0	0			0	0	clear	E. F. Kubel.
Los Angeles, California	29.54	750.3	29.93	760.2	53.0	11.7	86	s.	4	1.8			10 s		s.	0	0	cloudy	H. C. Smyth.
Louisville, Kentucky	29.32	744.7	29.87	757.7	74	23.3	97	se.	1	0.4			10s;fg			0.10	2.5	cloudy	W. R. Bushby.
Lynchburg, Virginia	29.23	742.4	29.90	759.4	76.0	24.4	74	w.	1	0.4		3 ck	6 s		w.	0.01	0.3	cloudy	C. A. Shaw.
Madison, Wisconsin	28.98	736.1	29.97	761.2	62	16.7	78	e.	5	2.2		1 c	0	w.		0	0	clear	J. Gilligan.
Marquette, Michigan	29.37	746.0	30.09	764.3	54	12.2	67	n.	3	1.3		0	0			0	0	clear	D. T. Flannery.
Memphis, Tennessee	29.65	753.1	29.98	761.5	80	26.7	91	se.	4	1.8		0	3 s		se.	0.51	13.0	clear	

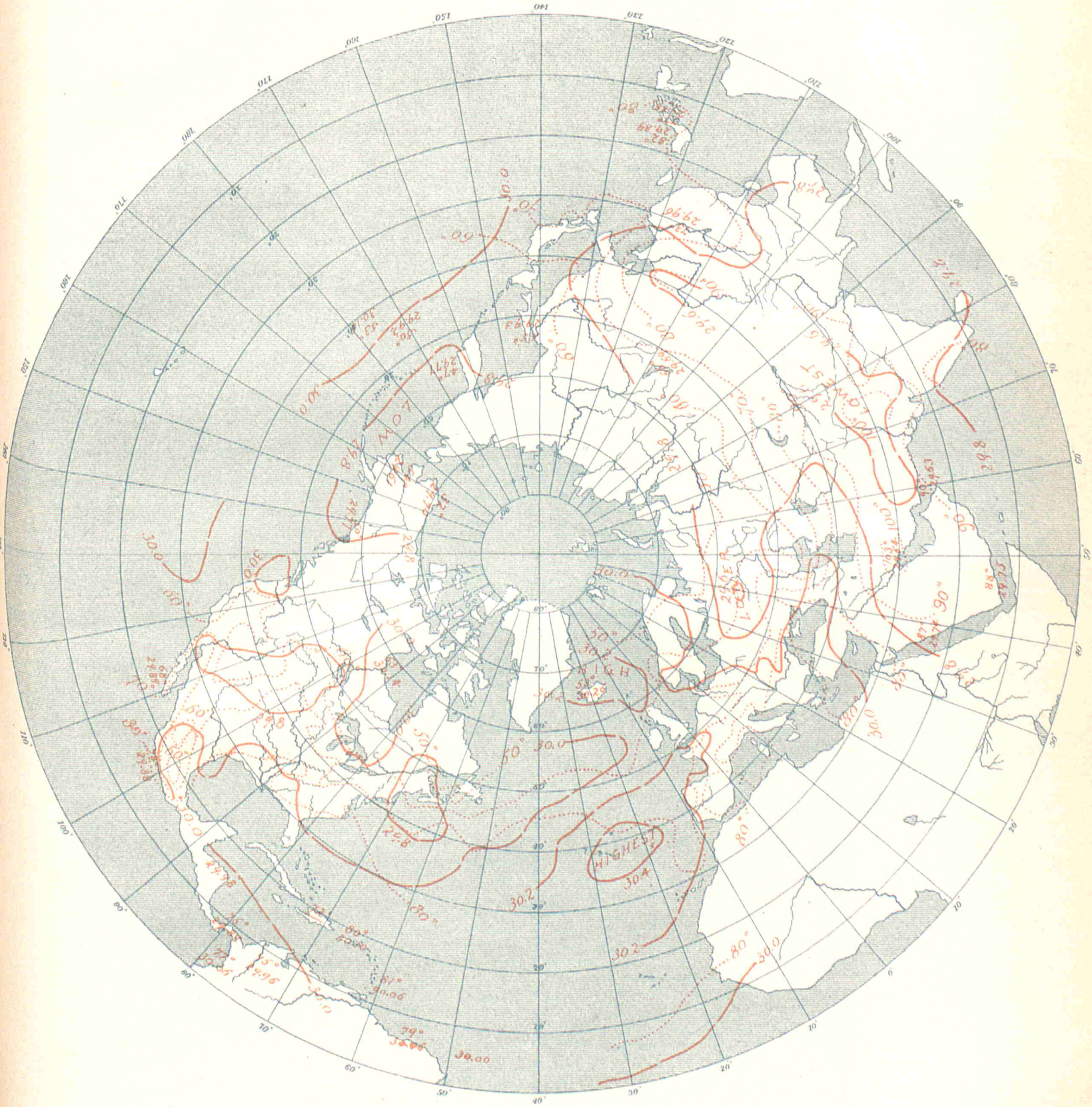
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	29.24	742.7	29.98	761.5	61	16.1	72	n.	7	3.1		2 c	0			0.01	0.3	clear	W. Line.
Mobile, Alabama	30.02	762.5	30.06	763.5	80	26.7	88	w.	4	1.8		8 ck;cs	0	sw.		0.12	3.0	cloudy	J. D. Paxton.
Montgomery, Alabama	29.80	756.9	30.03	762.7	77.8	25.4	86	sw.	5	2.2		2 c	1 ks	nw.	nw.	2.24	56.9	clear	J. B. McLaughlin.
Moorhead, Minnesota	28.85	732.8	29.82	757.4	60	15.6	87	se.	12	5.4		5 c	0	s.		0	0	fair	H. Bessant.
Morgantown, W. Virginia	29.95	735.3	29.95	760.7	69.0	20.6	90	calm	0	0			10 s			0.25	6.3	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.63	600.2	29.75	755.6	34.0	1.1	92	nw.	40	17.9			fg.		nw.	0.14	3.6	dense fog	J. G. Linsley.
Nashville, Tennessee	29.40	746.7	29.92	760.0	85.0	29.4	61	w.	1	0.4		7 cs	0	w.		inap.	inap.	fair	L. A. Jesunofsky.
New Haven, Connecticut	29.76	755.9	29.87	758.7	65	18.3	68	n.	9	4.0		9 cs	hz.	sw.		0	0	cloudy	J. H. Sherman.
New London, Connecticut	29.79	756.7	29.84	757.9	68	20.0	70	nw.	7	3.1		10 k	0			0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.99	761.7	30.04	763.0	82.5	28.1	77	w.	3	1.3		10 c	sk.	w.		0	0	cloudy	L. Dunne.
Newport, Rhode Island	29.78	756.4	29.83	757.7	68.6	20.3	60	nw.	12	5.4		7 c	0	nw.		0	0	fair	W. McGillivray.
New River, N. Carolina					77	25.0	77	nw.			1	2 c	3 s	w.		0	0	fair	C. C. Corbin.
New Shoreham, Rhode I'd.	29.81	757.2	29.84	757.9	66.8	19.3	78	n.	10	4.5		10 cs	0	w.		0	0	cloudy	W. Davis.
New York, New York	29.71	754.6	29.88	758.9	68	20.0	73	n.	8	3.6		4 cs	0	nw.		0	0	fair	J. B. Merrill.
Norfolk, Virginia	29.83	757.7	29.86	758.4	81	27.2	74	n.	4	1.8		5 cs	4 ks	n.	nw.	0	0	cloudy	J. T. Elker.
North Platte, Nebraska	26.89	683.0	29.69	754.1	72.6	22.6	96	ne.	4	1.8			10 s			0	0	cloudy	E. F. Brady.
Olympia, Washington T'y	30.03	762.7	30.07	763.8	48.0	8.9	86	w.	1	0.4		4 c	0	w.		0	0	fair	J. Dascomb.
Omaha, Nebraska	28.67	728.2	29.81	757.2	73.0	22.8	94	se.	16	7.2			10 n			0.87	22.1	thnd'r storm	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	29.68	753.9	29.70	754.4	32.0	0.0	100	nnw.	9	4.0			fg.			0	0	dense fog	P. H. Ray.
Oswego, New York	29.64	752.8	29.96	761.0	60.0	15.6	60	ne.	5	2.2		1 c	0	w.		0.05	1.3	clear	S. W. Beall.
Palestine, Texas	29.49	749.0	30.03	762.7	77.5	25.3	85	s.	4	1.8		3 cs	0			0	0	clear	L. M. Pindell.
Pensacola, Florida	30.02	762.5	30.05	763.3	81.0	27.2	88	nw.	4	1.8			10 s		w.	0	0	threatening	M. McGauran.
Philadelphia, Pa.	29.80	756.9	29.90	759.4	73	22.8	66	n.	13	5.8		0	0			inap.	inap.	clear	T. F. Townsend.
Pike's Peak, Colorado	17.94	455.7	29.76	755.9	34	1.1	100	sw.	14	6.3			9s;fg		sw.	0.06	1.5	threatening	L. M. Dey.
Ploche, Nevada	24.04	610.6	29.84	757.9	51.4	10.8	86	calm	0	0		4 k	0	s.		0.86	21.8	fair	C. N. Kitchel.
Pittsburg, Pennsylvania	29.15	740.4	29.94	760.5	67.7	19.8	71	ne.	3	1.3		4 cs	0	w.		0.06	1.5	fair	J. H. Bryce.
Poplar River, Montana	27.66	702.6						nw.			1	0	0			0.06	1.5	clear	U. D. Maxwell.
Port Eads, Louisiana	30.06	763.5	30.07	763.8	82.0	27.8	77	sw.	12	5.4		0	8 s			0	0	fair	H. G. Christian.
Port Huron, Michigan	29.29	744.0	29.96	761.0	62.0	16.7	75	ne	6	2.7		3 cs	0			0	0	clear	W. O. Bailey.
Portland, Maine	29.73	755.1	29.78	756.4	65.5	18.6	56	n.	12	5.4		0	0			0.09	2.3	clear	W. W. Eichelberger.
Portland, Oregon	29.97	761.2	30.04	763.0	55.0	12.8	80	calm	0	0		4 ck	6 ks	n.	nw.	0	0	cloudy	M. L. Hearne.
Portsmouth, N. Carolina																			F. P. Chaffee.
Prescott, Arizona	24.77	629.1	29.79	756.7	61	16.1	84	s.	1	0.4		0	8 s		s.	inap.	inap.	cloudy	J. Mc N. Wright.
Provincetown, Mass.	29.76	755.9	29.79	756.7	64	17.8	78	nw.	12	5.4		3 cs	2 s	w.	nw.	0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	30.05	763.3	30.06	763.5	83	28.3	67	nw.	5	2.2		1 k	hz.	w.		0	0	clear	W. J. Evans.
Red Bluff, California	29.46	748.3	29.82	757.4	64.4	18.0	57	calm	0	0		0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.74	755.4	29.98	761.5	79	26.1	77	se.	5	2.2		0	0			0	0	clear	P. M. Wilson.
Rochester, New York	29.34	745.2	29.99	761.7	61	16.1	65	ne.	4	1.8		7 c	0	w.		inap.	inap.	fair	E. W. McGann
Roseburg, Oregon	29.48	748.8	30.03	762.7	50	10.0	81	calm	0	0		2 c	0	w.		0	0	clear	J. J. Nunry.
Sacramento, California	29.73	755.1	29.80	756.9	58.8	14.9	75	s.	4	1.8		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.34	745.2	29.93	760.2	73.0	22.8	94	nw.	6	2.7			10 s		w.	0.03	0.8	cloudy	J. H. Webber.
St. Paul, Minnesota	29.02	737.1	29.87	758.7	67.0	19.4	90	se.	15	6.7			10 s		se.	0	0	cloudy	P. F. Lyons
St. Vincent, Minnesota	28.91	734.3	29.76	755.9	60	15.6	93	se.	13	5.8			10 n		se.	0.41	10.4	heavy rain	G. Kingsbury.
Salt Lake City, Utah	25.63	651.0	29.85	758.2	63	17.2	78	se.	4	1.8			10 n			0.03	0.8	light rain	J. Craig.
San Antonio, Texas	29.31	744.5	29.99	761.7	76.5	24.7	90	calm	0	0			9 ks		s.	0	0	cloudy	E. Lane.
San Diego, California	29.82	757.4	29.89	759.2	62.2	16.8	73	w.	3	1.3			10 s		w.	0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.29	744.0	29.96	761.0	67.0	19.4	61	e.	15	6.7		0	0			0	0	clear	M. H. Perry.
Sandy Hook, New Jersey	29.84	757.9	29.88	758.9	67.0	19.4	78	n.	13	5.8		3 c	0	n.		inap.	inap	clear	B. A. Blundon.
San Francisco, California	29.79	756.7	29.86	758.4	53.5	11.9	90	sw.	6	2.7		0	fg.		sw.	0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.28	591.3	29.79	756.7	60	15.6	72	s.	1	0.4		4 k	6 s	s.	s.	0.11	2.8	cloudy	H. U. Jones.
Savannah, Georgia	29.86	758.4	29.95	760.7	81	27.2	72	w.	7	3.1		10 cs	0			inap	inap.	cloudy	H. W. Ford.
Shreveport, Louisiana	29.80	756.9	30.03	762.7	78	25.6	82	s.	4	1.8		0	hz.			0	0	clear	E. N. Meekins.
Silver City, New Mexico	24.30	617.2	29.80	756.9	57	13.9	77	calm	0	0		0	6 ks		calm	0.45	11.4	fair	J. B. Wallace.
Sitka, Alaska	29.71	754.6	29.77	756.1	50	10.0	86	calm	0	0			10 ks		calm	0.33	8.4	cloudy	J. J. McLean.
Smithville, North Carolina	29.86	758.4	29.90	759.4	78	25.6	76	nw.	2	0.9		5 c	0			0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.91	708.9	29.95	760.7	59	15.0	60	sw.	6	2.7		0	0			0	0	clear	D. Moore.
Springfield, Illinois	29.26	743.2	29.93	760.2	71.5	21.9	90	ne.	4	1.8			10 s		ne.	0.70	17.8	cloudy	T. B. Jennings.
Springfield, Massachusetts	29.74	755.4	29.87	758.7	67.6	19.8	61	n.	6	2.7		9 c	0	w.		0	0	cloudy	T. S. Outram.
Springfield, Mo.	28.56	725.4	30.02	762.5	78.5	25.8	77	s.	7	3.1		0	0			0	0	clear	J. B. Marbury.
Starkville, Miss.	29.52	749.8	29.99	761.7	78	25.6	91	sw.	8	3.6		1 c	3 ks		sw.	1.19	30.2	fair	M. J. Wright.
Stockton, Texas	26.98	685.3	29.90	759.4	72.0	22.2	68	s.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Thatcher's Island, Mass.	29.77	756.1	29.82	757.4	64.0	17.8	84	nw.	14	6.3		5 k	0	nw.		0.15	3.8	fair	G. Liebmann.
Toledo, Ohio	29.26	743.2	29.94	760.5	71	21.7	71	ne.	10	4.5		3 c	0	w.		0	0	clear	A. Buell.
Tucson, Arizona	27.49	698.2	29.79	756.7	70	21.1	90	calm	0	0		0	3 ks			0.71	18.0	clear	J. L. Whiteside.
Umatilla, Oregon	29.62	752.3	29.98	761.5	60	15.6	60	ne.	4	1.8		2 c	0	nw.		0	0	clear	J. Daly.
Uvalde, Texas	29.02	737.1	29.96	761.0	74	23.3	85	se.	2	0.9		0	0			0	0	clear	E. C. Imlay.
Vicksburg, Mississippi	29.79	756.7	30.04	763.0	82	27.8	80	sw.	2	0.9		2 c	0			inap.	inap.	clear	H. P. Brisbane.
Visalia, California																			W. L. Seward.
Washington, D. C.	29.80	756.9	29.91	759.7	73.5	23.1	69	n.	3	1.3			10 s		nw.	inap.	inap.	cloudy	B. M. Purssell.
West Las Animas, Colorado	25.93	658.6	29.71	754.6	67.4	19.7	63	w.	8	3.6		1 c	2 s	calm	calm	0	0	clear	F. W. Brandenburg.
Williamsport, Pa.	29.36	745.7	29.96	761.0	65	18.3	73	w.	4	1.8		0	hz.			0	0	clear	B. F. Hough.
Wilmington, N. Carolina	29.84	757.9	29.89	759.2	80	26.7	74	nw.	7	3.1		7 c	0			0	0	fair	A. T. Sherwood.
Winnemucca, Nevada	25.58	649.7	29.84	757.9	61	16.1	42	e.	6	2.7			10 ks		e.	0	0	threatening	J. R. Williams.
Yankton, Dakota	28.48	723.4	29.76	755.9	72	22.2	82	se.	9	4.0			10 ks		se.	0.10	2.5	cloudy	J. H. Atfield.
Yuma, Arizona	29.60	751.8	29.74	755.4	78.7	25.9	66	s.	6	2.7		0	8 k		se.	0	0	cloudy	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.05	560.1			53.5	11.9	73	nw.	2	0.9		2 ck;k	2 s	ne.		0.13	3.3	foggy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.05	763.3	30.06	763.5	81	27.2	95	ne.				5 k	5 ks	e.	e.	1.00	25.4	fair	J. A. Racker.
Buenaventura, U. S. C.	30.03	762.7	30.06	763.5	77	25.0	90	s.	4	1.8			10 ks		s.	1.20	30.5	cloudy	J. I. Plume.
Havana, Cuba, W. I.																			A. Van Caneghem.
Kingston, Jamaica, W. I.	30.03	762.7	30.04	763.0	80.0	26.7	80	calm	0	0		9 c	1 s		e.	0	0		Robert Johnston.
Magua, San Domingo, W. I					72	22.2		calm			0	0	0			0.16	4.1		S. M. Pike.
Paramaribo, S. A.	30.06	763.5	30.06	763.5	79	26.1	87	se.			2	4 c	5 k	e	e.	0.010	0.3	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.40	746.7	29.96	761.0	75	23.9	94	calm			0		10 ks		s.	0.03	0.8	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							98	w.			1		10 n		s.	0.47	11.9	cloudy	Earl Flint.
Santiago de Cuba, W. I.	30.05	763.3	30.07	763.8	79	26.1	74	calm	0	0		0	0			0	0	clear	Robert Mason.
York Factory, B. A.	30.08	764.0	30.14	765.5	63.0	17.2	83	n.	13	5.8		2 c	3 s	n.	n.	0	0	fair	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S. Alert, Simons Bay, Cape Colony, Africa	30.20	767.1	62.8	17.1	84	calm			0		5							d. clouds.
H. M. S. Alexandra, N. 31° 34′, E. 29° 51′	29.99	761.7	73	22.8	88	wnw.			3		0					2	wnw.	blue sky.
H. M. S. Amethyst, Montevideo, Uruguay	30.27	768.8	52	11.1	90	ese.			3		0					2	se.	blue sky.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	30.10	764.5	70	21.1		nnw.			4									blue sky.
H. M. S. Arab, Muscat, Arabia	29.53	750.0	90	32.2	73	se.			3		7							d. clouds.
H. M. S. Bacchante, N. 39° 04′ E 10° 03′	30.05	763.3	75	23.9	85	w.			1-2		9	wsw.						misty.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.19	766.8	63	17.2		calm			0		0							blue sky.
H. M. S. Champion, N. 19° 20′, W. 174° 20′			80	26.7		e.			3		1					3	ne.	blue sky.
H. M. S. Coquette, Port Said, Egypt	29.92	760.0	77	25.0		nw.			1		0							blue sky.
H. M. S. Cruiser, N. 36° 51′, E. 15° 20′	30.05	763.3	79	26.1		s.			1		4	wsw.				3	ssw.	d. clouds.
H. M. S. Diamond, S 9° 08′, E. 160° 00′	29.89	759.2	80	26.7	86	calm			0		9	e.						d. clouds.
H. M. S. Dido, N. 13° 05′, W. 59° 30′	30.08	764.0	79	26.1		ene.			3		4	e.						d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	29.93	760.2	76.5	24.7	93	ssw.			1-2		8	ssw.						raining.
H. M. S. Druid, N. 18° 33′, W. 72° 21′	30.02	762.5	80.5	26.9	93	calm			0		1							blue sky.
H. M. S. Dwarf, S. 30° 19′, W. 59° 30′	30.03	762.7	51.5	10.8	86	ene.			2		0					1-2	ene.	blue sky.
H. M. S. Eclipse, S. 4° 37′, E. 55° 30′	30.00	762.0	79	26.1		ese.			4		1							blue sky.
H. M. S. Emerald, S. 31° 30′, W. 25° 20′	30.17	766.3	62	16.7	100	nnw.			2-4		7	nnw.				1	nnw.	d. clouds.
H. M. S. Fawn, S. 25° 57′, E. 32° 51′	30.23	767.8	69.5	20.8	63	ene.			1		1							blue sky.
H. M. S. Flying Fish, N. 32° 44′, E. 129° 52′	29.87	758.7	74	23.3	95	calm			0		6							d. clouds.
H. M. S. Gannet, S. 23° 06′, W. 70° 29′	30.18	766.6	58	14.4	69	sse.			0-2		10							d. clouds.
H. M. S. Garnet, S. 28° 25′, W. 31° 51′	30.12	765.0	66	18.9	84	nne.			2		2					1	cross	d. clouds.
H. M. S. Griffon, N. 50° 00′, W. 55° 38′	29.92	760.0	48	8.9	70	sw.			2		10							misty.
H. M. S. Inconstant, N. 31° 20′, W. 12° 20′	30.20	767.1	68	20.0	90	nne.			4		8	nne.				4-5	nne.	squally.
H. M. S. Iron Duke, N. 35° 26′ E. 139° 39′	29.93	760.2	72	22.2	90	sw.			1		7	se.						d. clouds.
H. M. S. Kingfisher, N. 22° 26′, W. 109° 20′	29.89	759.2	68	20.0		w.			3-4		3					2	wnw.	squally.
H. M. S. Lark, S. 10° 39′, E. 162° 19′	29.96	761.0	80.3	26.8		ese.			4		7					3	e.	showery.
H. M. S. Magpie, N. 35° 26′, E. 139° 39′	29.94	760 5	73.3	22.9	87	s.			1		8	wsw.						misty.
H. M. S. Minotaur, Malta, Mediterranean	30.10	764.5	80	26.7	55	sw.			1		0							blue sky.
H. M. S. Nelson, S. 36° 50′, E. 174° 49′	30.02	762.5	58	14.4	93	calm			0		5	ne.						d. clouds.
H. M. S. Northampton, Halifax, Nova Scotia	29.74	755.4	53	11.7	90	se.			3		10	se.						d. clouds.
H. M. S. Rambler, S. 15° 49′ W. 1° 50′	30.14	765.5	70	21.1	79	ese.			3		1	ese.				3	sse.	blue sky.
H. M. S. Rocket, N. 49° 30′, W. 126° 00′	29.99	761.7	52	11.1	93	calm			0		10							foggy.
H. M. S. Sappho, S. 24° 45′ W. 126° 00′	30.28	769.1	70.5	21.4		ne.			2-4		3	calm				2	ene.	d. clouds.
H. M. S. Swiftsure, S. 16° 10′ W. 35° 06′	30.09	764.3	77.5	25.3	82	wnw.			2		4	wsw.				3	ssw.	d. clouds.
H. M. S. Sylvia, S. 34° 55′, W. 55° 15′	30.29	769.4	51.7	10.9	88	se.			3									d. clouds.
H. M. S. Tenedos, N. 47° 48′ W. 58° 23′	29.82	757.4	51.5	10.8	90	calm			0		10							overcast.
H. M. S. Triumph, Valparaiso Chili	30.10	764.5	53	11.7	93	ne.			1-2		10	n.						showery.
H. M. S. Tyne, N. 37° 42′, W. 42° 42′	30.15	765.8	75	23.9	95	sw.			5-6		10					4	sw.	showery.
H. M. S. Woodlark, Bassorah, Asiatic, Turkey	29.54	750.3	102.5	39.2	34	nw.			2		0							blue sky.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verd Islands	30.13	765.4	77.0	25.0	100	ese.			2		10					2	ese.	overcast.
Tamega, Macao, China	29.83	757.6	82.2	27.9	87	s.			3		10			4 h'r	4 h'r			showery.
Swedish Naval.																		
Saga, N. 54° 56′, W. 12° 40′	30.16	766.1	57.9	14.4	93	e.			3		5							
United States Naval.																		
Navy Yard, Pensacola, Fla	29.99	761.7	83	28.3	75	wsw.	5	2.2			8		sw.	0.01	0.3			fair.
N. Yard, Portsmouth, N. H.	29.82	757.4	65	18.3	73	n.	7	3.1			0			0	0			clear.
Naval Hospital, Yokohama, Japan*	29.83	757.7	70.5	21.4	92	calm			0		8		sse.	0	0			cloudy.
Adams, Mare Island, Cal	30.12	765 0	55	12.8	100	sw.			2		5		ssw.	0	0			cloudy.?
Alaska, Callao, Peru	30.03	762.7	59	15.0	94	ese.			1		10			0	0	sm'h		cloudy.
Alert, N. 42° 27′, E. 176° 54′*	30.00	762.0	53	11.7	80	wnw.			1		10		calm	0	0	sm'h		cloudy.
Alliance, Boston, Mass	29.83	757.7	67	19.4	69	nnw.			2		2		nnw.	0	0			clear.
Ashuelot, Yokohama, Japan	29.91	759.7	73	22.8	85	ssw.			1		10		s.					cloudy.
Brooklyn, Rio de Janeiro, Brazil	30.08	764.0	63	17.2	100	sw.	5	2.2			5		calm	0	0	sm'h		fair.
Colorado, New York, N. Y.	29.88	758.9	69	20.6	75	n.	8	3.6			8		calm	0	0			cloudy.
Constellation, Chesapeake Bay*	29.85	758.2	76	24.4	86	nne.			3		8		nne.					fair.
Enterprise, Norfolk, Va*	29.84	757.9	78	25.6	86	nnw.			2		8		n.					cloudy.
Essex, Sandy Point, Patagonia	29.70	754.4	48	8.9	78	sse.			1		0?					sm'h		overcast.?
Franklin, Norfolk, Va	29.87	758.7	78	25.6	86	nnw.	8	3.6			8		calm	0	0			fair.
Galena, Alexandria, Egypt	29.99	761.7	76	24.4	100	nnw.			2		2					sm'h		clear.
Independence, Mare Island, Cal	29.91	759.7	56	13.3	87	ssw.			5		8		ssw.	0	0			cloudy.
Iroquois, San Francisco, Cal	30.07	763.8	56	13.3	81	sw.			2		0			0	0			clear.
Kearsarge, Norfolk, Va	29.86	758.4	80	26.7	91	n.			1		10							cloudy.
Lackawana, S. 11° 39′, W. 77° 50′*	30.08	764.0	60	15.6	82	se.			2		10							cloudy.
Lancaster, Alexandria, Egypt*	29.95	760.7	77	25.0	91	nw.			3		0			0	0			misty.
Marion, S. 34° 53′, W. 56° 13′	30.28	769.1	52	11.1	100	e.			2		5		calm			sm'h		fair.
Michigan, Detroit, Mich	29.91	759.7	68	20.0	74	ne.			1		2		ne.					fair.
Minnesota, Newport, R. I.	29.88	758.9	67	19.4	69	n.	7	3.1			8		nw.					
Monocacy, Chusan Archepelago, China	29.87	758.7	70	21.1	85	ssw.			2		2		ssw.					fair.
New Hampshire, Newport, R. I.	29.77	756.1	67	19.4	74	n.			3		8		w.			sm'h		cloudy
Nipsic, Corfu, Ionian Islands	30.03	762.7	79	26.1	70	ne.			2		2					sm'h		clear.
Onward, Callao, Peru†	30.17	766.3	59	15.0	88	se.			1		10					long	w.	misty.
Palos, Kobe, Japan	29.93	760.2	71	21.7	95	wsw.			1		8		wsw.					fair.
Passaic, Washington, D. C.	29.96	761.0	75	23.9	90	n.			1		8							cloudy.
Pensacola, S. 9° 28′ W. 80° 04′	30.05	763.3	63	17.2	67	ese.			4		10		s.			long	s.	cloudy.
Powhatan, N. 29° 46′, W. 80° 42′	30.02	762.5	81	27.2	91	w.			3		5		wsw.			sm'h		fair.
Portsmouth, N. 48° 10′, W. 5° 00′*	30.13	765.3	57	13.9	100	ssw.			3		10					sm'h		raining.
Quinnebaug, N. 34° 29′, E. 22° 50′	30.04	763.0	73	22.8	76	n.			4		0					sm'h		hazy.
Ranger, Mare Island, Cal*	29.83	757.7	58	14.4	82	ssw.			2		5		ssw.	0	0	sm'h		fair.
Richmond, Yokohama, Japan*	29.87	758.7	74	23.3	90	calm			0		8		sw.	0	0			cloudy.
Saratoga, N. 48° 11′ W. 5° 01′	30.13	765.3	57	13.9	94	ssw.			3		10		calm	mod.	mod.	sm'h		overcast.
St. Louis, League Island, Pa	30.22	767.6	71	21.7	95	ne.	18	8.0			2			0	0			clear.
Swatara, Yokohama, Japan*	29.80	756.9	74	23.3	81	s.			1		8		sw.			sm'h		fair.
Tennessee, off New York, N. Y.	29.90	759.4	69	20.6	95	n.	12	5.4			5			0	0			fair.
Vandalia, Portsmouth, N. H*	29.78	756.4	68	20.0	74	wnw.			1		5		w.					fair.
Wabash, Boston, Mass	29.83	757.7	65	18.3	64	nnw.	7	3.1			5		nw.	0	0			fair.
Wachusetts, Juneau City, Alaska	29.90	759.4	50	10.0	93	calm			0		10					sm'h		foggy.
Wyoming, Port Royal, S. C.	29.94	760.5	78	25.6	82	wsw.	16	7.2			10		nw.	0.1	3.			overcast
Yantic, New York, N. Y*	29.83	757.7	69	20.6	75	nne.			3		5							fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind. Upper.	Amount and kind. Lower.	Direction. Upper.	Direction. Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Grecian, Montreal, Canada*	29.87	758.7	62	16.7		n.			2		1		n.	¼ h'r	¼ h'r			clear.
S. S. Nova Scotian, N. 45° 39', W. 58° 14'	29.75	755.6	49	9.4		n.			2		0					slight	sw.	clear.
S. S. Prussian, N 45° 33', W. 42° 47'*	29.79	756.7	67	19.4		wsw.			5		7?		wsw.	2 h'r	2 h'r	mod.	w.	clear.?
S. S. Scandinavian, N. 53° 32', W. 3° 32'*	30.01	762.2	59	15.0		w.			3		1		w.	0	0	sm'h		blue sky.
S. S. Waldensian, N. 42° 54', W. 52° 20'*	29.98	761.5	62	16.7		var.			1		8		ssw.	0	0	mod.	cross	cloudy.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, Philadelphia, Pa.	29.84	757.9	79	26.1	95	sw.			2		8		sw.					very fine.
S. S. Indiana, N. 40° 02', W. 51° 33'†	30.10	764.5	69	20.6	95	wsw.							w.			r'gh	w.	fine.
S. S. Lord Clive, N. 39° 18', W. 70° 12'*†	29.82	757.4				nw.			1		0			0	0			fine.
ANCHOR LINE.																		
S. S. Bolivia, N. 46° 12', W. 39° 36'†	29.80	756.9	67	19.4		sw.			4		10?		sw.	1 h'r	1 h'r	r'gh	sw.	clear?
S. S. Ethiopia, N. 42° 13', W. 46° 13'	30.00	762.0	71	21.7	80	nnw.			3		3		nw.	0	0	slight	w.	clear.
S. S. Utopia, N. 41° 18' W. 34° 03'†	30.40	772.1	74	23.3	72	sw.			6		5?		sw.	0	0	h'vy	sw.	cloudy.?
ATLAS LINE.																		
S. S. Ailsa, Colon, U. S. C.†	29.94	760.5	79	26.1	86	se.			1		8		se.	12 h'r	12 h'r			dull.
S. S. Alvena, Savannah la Mar, Jamaica, W. I.†	29.91	759.7				ese.			1		2		e.	0	0	sm'h	ese.	fine.
S. S. Alvo, N. 35° 22', W. 73° 58'	29.85	758.2				sw.			4		4?		sw.	0	0	sm'h		cloudy.?
S. S. Antillas, San Juan, Porto Rico, W. I.						e.			2		5		e.	0	0	light	e.	fine.
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, Charlottetown, Canada†	29.91	759.7	60	15.6		e.			3		10							light rain.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S 23° 17', E. 81° 09'	30.12	765.0	64.5	18.1	84	s.			4		8							d. clouds.
S. Baroda, S. 16° 33', E. 65° 50'	30.09	764.3	74.3	23.5	76	sse.			6		8							d. clouds.
British Merchant, N. 43° 57', W. 23° 03'	30.32	770.1	66	18.9	97	sw.			2-3		7							misty.
H. S. Glencairn, N. 6° 10', W. 28° 11'	30.07	763.8	80	26.7	87	sse.			4		5							d. clouds.
S. S. Gordon Castle, N. 22° 24', E. 37° 17'	29.74	755.4	87	30.6	78	nw.			4-5		0							blue sky.
May Hulse, S. 30° 47', W. 29° 02'	30.12	765.0	65.6	18.7	78	nnw.			3		6							d. clouds.
S. S. Minho, N. 45° 25'. W. 5° 42'	30.24	768.1	64.8	18.2	97	wsw.			2		10							overcast.
Oamarn, S. 19° 00', E. 63° 20'	30.18	766.6	73	22.8	92	se.			6		4							d. clouds.
Pole Star, N. 0° 36' W. 30° 07'	30.10	764.5	77.9	25.5	93	ese.			4		3							blue sky.
CROMWELL LINE.																		
S. S. Hudson, N. 26° 50', W. 86° 45'†	30.13	765.3	80	26.7		calm			0		1		s.	0	0	mod.	se.	fair.
CUNARD LINE																		
S. S. Marathon, Off Mine Head, Ireland	30.17	766.3	63	17.2		se.			1		8		se.	0	0	sm'h		cloudy.
S. S. Scythia, N. 40° 31', W. 70° 14'	29.80	756.9	65.5	18.6	81	nne.			2		5		ne.	0	0	sm'h		fine.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Ville de Marseilles, Marseilles, France*†	30.10	764.5	81.7	27.6		w.			1		0			0	0			clear.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 44° 21', W. 42° 37'*†	30.04	763.0				wsw.			4		1			2 h'r	2 h'r	long	w.	
S. S. Cimbria, N. 49° 33', W. 18° 22'	30.07	763.8	59	15.0		sw.			3		10		w.	4 h'r	4 h'r	mod.	sw.	covered.
S. S. Herder, N. 43° 59', W. 39° 40*†	30.04	763.0	74	23.3		w.			5		3?		wsw.	4 h'r	4 h'r	mod.	wsw.	covered?
S. S. Lessing, New York, N. Y.	29.95	760.8	69	20.6		wnw.			4		8		wnw.	0	0			cloudy.
S. S. Wieland, N. 47° 30', W. 29° 42'	30.14	765.5	64	17.8		wsw.			2		10		wsw.	0	0	3	sw.	hazy.
JOHNSTON LINE.																		
S. S. Thanemore, N. 41° 09' W. 54° 22'	29.94	760.5				ssw.			3		8		w.	sh'rs	sh'rs	sli't	w.	fair.
MALLORY LINE.																		
S. S. Colorado, New York, N. Y †.	29.88	758.9	69	20.6		nw.			2		0			0	0			clear.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, Rio de Janeiro, Brazil	29.64	752.8				s.			7				s.	0	0	mod.	s.	clear.
S. S. Glenapp, N. 5° 06', W. 49° 20'*†	30.00	762.0				ene.			3		4		ne.	0	0			fine.
NATIONAL LINE.																		
S. S. Canada, N. 47° 07', W. 27° 42'†	30.07	763.8	63	17.2		ssw.			1		8		wsw.	0	0	sm'h	w.	fine.
S. S. Denmark, London, Eng	30.16	766.1	59	15.0		ne.			3		8		ne.	0	0			cloudy.
S. S. Greece, N. 40° 23' W 70° 37'	29.78	756.4				nnw.			2		5			0	0	sm'h		fine.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, Cienfuegos, Cuba, W. I.†	30.07	763.8	79	26.1		nne.			1		5		e.	0	0			fine.
S. S. Saratoga, N. 25° 20'. W. 79° 50'†	30.32	770.1	87	30.6	75	calm			0		0			0	0	sm'h		clear.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, Progreso Roads, Mexico*†	30.11	764.8	81	27.2	82	ese.			3		4		e.	0	0	small	ene.	fair.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N. 41° 04', W. 55° 57'*†	30.07	763.8	73	22.8		ssw.			3								wsw.	rainy.
S. S. Maas, N. 49° 43', W. 24° 50'.*†	30.01	762.2	65	18.3		sw.			1								w.	foggy.
NORTH GERMAN LLOYD																		
S. S. America, N. 44° 35', W. 37° 28'*	30.09	764.3	69.8	21.0		sse.			4		8		s.	0	0	long	sw.	cloudy.
S. S. Elbe, N. 49° 26', W. 9° 16'	30.17	766.3	60.8	16.0	95	se.			2-3		10			0	0	sm'h	se.	misty.
S. S. Habsburg, N. 51° 40', E. 2° 15'	30.16	766.1	59.9	15.5		ssw.			3		8		ssw.	0	0	sm'h		fair.
S. S. Hermann, N. 52° 30', E. 2° 22'†	30.02	762.5	64.4	18.0		w.			1		3		w.	0	0	mod.	w.	fair.
S. S. Oder, N. 41° 15', W. 58° 30'	29.87	758.7	73.4	23.0		ssw.			3		3		w.	0	0	sm'h	wsw.	fair.
S. S. Ohio, Bremerhaven, Germany						nw.			4		0			0	0			clear.
S. S. Salier, N. 43° 06', W. 39° 11'	30.11	764.8	60.8	16.0		sw.			3		5?		sw.	6 h'r	6 h'r	cross	w.	cloudy?
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic N. 38° 41', W. 128° 24'†	29.89	759.2	56	13.3	80	w.			4		8		nw.	0	0	mod.	n.	cloudy.
S. S. Coptic, N. 45° 53', E. 172° 36'	29.99	761.7	43.5	6.4		wsw.			1		10		wsw.	3 h'r	3 h'r	2	w.	foggy.
S. S. Gaelic, N. 46° 54', E. 170° 37'†	30.02	762.5	50	10.0	64	sse.			4		5?		w.			sm'h		clear.?
S. S. Oceanic, N. 31° 00', E. 130° 50'*	29.86	758.4	68	20.0	90	ne.			2		9		wsw.			sm'h		cloudy.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y.†	29.87	758.7				n.			4		3		nw.	0	0			clear.
S. S. City of Columbus, N. 37° 44', W. 74° 38'†	29.94	760.5				nnw.			1		9		n.			sm'h	sw.	cloudy.
S. S. Seminole, Savannah, Ga.†	30.12	765.0	86	30.0	76	sw.			1		5?		w.	1 h'r	1 h'r			clear.?
OREGON IMPROVEMENT COMPANY.																		
S. S. Willametta, N. 41° 48', W. 124° 36'†	29.94	760.5	51	10.6	79	n.			6		5		n.	0	0	r'gh	n.	fine.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Columbia, Columbia River, Oregon†	30.05	763.3	58	14.4	82	wnw.			4		9		wnw.					cloudy.
S. S. Oregon, N. 42° 39' W. 123° 38'.†	30.11	764.8	57	13.9	94	n.			3		10					light	nnw.	threatening.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Pedro Bay, Cal.†	29.86	758.4	60	15.6	88	n.			1		10		nw.			sm'h		cloudy.
S. S. Dakota, Seattle, Wash. Ter.*†	30.05	763.3	62	16.7	88	calm			0		0							clear.
S. S. Idaho, San Francisco, Cal.†	29.84	757.9	53	11.7	93	nw.			2		1		n.			mod.	nw.	misty.
S. S. State of California, San Francisco, Cal.†	29.85	758.2	50	10.0	100	w.			2		5		wsw.					fair.
S. S. Victoria, N. 49° 07', W. 123° 12'†	29.94	760.5	55	12.8	100	e.			2		5					sm'h		fair.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, S. 33° 39', E. 157° 12'	30.25	768.3	61	16.1	94	sw.			3		5?		sw.	0	0	sm'h		clear?
S. S. City of Pekin, N. 26° 27', E. 122° 51'†	29.88	758.9	85	29.4	79	ssw.			2		2		e.	0	0	sm'h		clear.
S. S. City of Rio de Janeiro, N. 33° 46', W. 120° 10'*†	30.07	763.8	57	13.9	81	nw.			4		9		nw.	0	0	mod.	nw.	clearing.
S. S. City of Sydney, Sydney, N. S. W.†	30.02	762.5	48	8.9	70	sw.			5		5?		sw.	0	0			cloudy?
S. S. Colima, N. 18° 00', W. 103° 00'†	29.88	758.9	78	25.6	82	ese.			6		9		ese.	0	0	h'vy	ese.	cloudy.
S. S. Granada, Panama, Panama†	29.89	759.2	76	24.4	?	nw.			1		8		nw.					rainy.
S. S. South Carolina, Panama, Panama†	29.99	761.7	82	27.8	87	nw.			1		5		nne.	0	0	sm'h		
S. S. Zelandia, N. 5° 00', W. 164° 05'.	29.96	761.0	81	27.2	91	n.			1		8		n.			h'vy	ne.	cloudy.
QUEBEC STEAMSHIP COMPANY.																		
S. S. Muriel, off St. Martin, W. I.	29.96	761.0	82	27.8		e.			4		10			0	0	mod.	e.	overcast.
S. S. Bermuda, N. 39° 04', W. 73° 47'†	29.70	754.4	74	23.3		n.			2		6		n.					cloudy.
RED STAR LINE.																		
S. S. Nederland, N. 40° 32', W. 59° 59'†	29.69	754.1	73	22.8		wsw.			2		8		wsw.	0	0	mod.	sw.	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
RED STAR LINE.																		
S. S. Pennland, N. 47° 20′, W. 28° 46′*	29.97	761.2	60	15.6	.....	wsw.	.....	.....	4	.....	8	.....	sw.	0	0	long	w.	dense fog.
S. S. Rhynland, Antwerp, Belgium	30.18	766.6	74	23.3	81	ssw	.....	.....	2	.....	10	.....	ssw.	0	0	.....	.....	cloudy.
S. S. Switzerland, N. 38° 50′, W. 71° 24′†	29.86	758.4	.....	.....	.....	wnw.	.....	.....	1	.....	2	.....	nw.	0	0	sm'h	.....	fair.
S. S. Vaderland, N. 40° 50′, W. 45° 46′	29.89	759.2	75	23.9	77	sw.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	wsw.	clear.
ROTTERDAM LINE.																		
S. S. Schiedam, N. 40° 20′, W. 70° 54′*	29.82	757.4	68.7	20.4	81	nw.	.....	.....	2	.....	2	.....	nw.	.....	.....	.....	.....	clear.
STATE LINE.																		
S. S. State of Florida, New York. N. Y.	29.71	754.6	72	22.2	.....	n.	.....	.....	3	.....	4	.....	n.	0	0	.....	.....	fair.
S. S. State of Georgia, N. 40° 29′ W. 72° 40′†	29.93	760.2	65	18.3	.....	nnw.	.....	.....	2	.....	hz.	.....	.....	0	0	sm'h	.....	hazy.
S. S State of Indiana, N. 48° 25′, W. 36° 39′†	30.14	765.5	64	17.8	.....	w.	.....	.....	4	.....	4	.....	wsw.	2 h'r	2 h'r	mod.	wsw.	clear.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 41° 59′, W. 49° 10′†	30.17	766.3	68.0	20.0	72	se.	.....	.....	2	.....	6	.....	se.	½h'r	½h'r	mod.	se.	covered.
WARREN LINE.																		
S. S. Iowa, N. 42° 20′, W. 67° 29′*†	29.88	758.9	60	15.6	.....	w.	.....	.....	2	.....	2	.....	w.	0	0	sm'h	.....	clear.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 49° 06′, W. 10° 29′	30.12	765.0	.....	.....	.....	.....	.....	.....	.....	.....	8	.....	.....	9 h'r	9 h'r	sm'h	.....	
WHITE STAR LINE.																		
S. S. Celtic, N. 41° 15′, W. 64° 15′†	29.79	756.7	65	18.3	84	sw.	.....	.....	3	.....	8	.....	sw.	shr's	shr's	sm'h	.....	heavy rain.
S. S. Germanic, N. 45° 48′, W. 38° 33′†	30.07	763.8	65	18.3	.....	sw.	.....	.....	5	.....	7	.....	w.	.....	.....	light	sw.	d. clouds.
WILSON LINE.																		
S. S. Otranto, N. 41° 28′, W. 63° 35′†	29.93	760.2	64	17.8	.....	sw.	.....	.....	2	.....	8	.....	sw.	.....	.....	cross	wsw.	cloudy.
MISCELLANEOUS.																		
Schr. Addie Fuller, Bath, Me†	29.85	758.2	65	18.3	68	nw.	.....	.....	.....	0	0	.....	.....	0	0	.....	.....	clear.
Schr. Ajax, N. 28° 20′, W. 96° 21′†	30.06	763.5	.....	.....	.....	se.	.....	.....	1	.....	4	.....	sse.	0	0	sm'h	sse.	fair.
Schr Annie Lewis, N. 29° 16′, W. 88° 02′†	30.23	767.8	84	28.9	.....	wsw.	.....	.....	2	.....	8	.....	wsw.	0	0	sm'h	.....	cloudy.
Bk. Anna Thormann, S. 30° 54′ W. 24° 29′	30.25	768.4	63.7	17.6	95	e.	.....	.....	2	.....	10 n	.....	ese.	5 h'r	5 h'r	mod	sw.	rainy.
S. S. Antonio Lopez, Barcelona, Spain	30.12	765.0	73	22.8	63	ssw.	.....	.....	2	.....	2 k	.....	.....	0	0	.....	.....	clear.
Schr. Asa Eldridge, Sand Key Light, Fla†	30.06	763.5	.....	.....	.....	se.	.....	.....	3	.....	2	.....	se.	0	0	.....	se.	hazy.
Bk. Aureola, S. 23° 01′, W. 43° 00′*†	30.25	768.3	74	23.3	.....	nw.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
Bk. Cato, N. 38° 30′, W. 57° 10′*†	30.28	769.1	.....	.....	.....	w.	.....	.....	2	.....	1	.....	wnw.	0	0	sm'h	wnw.	fair.
Schr. C. R. Flint, N. 29° 04′, W. 83° 05′	30.27	768.8	80	26.7	.....	wsw.	.....	.....	2	.....	2	.....	sse.	0	0	.....	.....	clear.
Schr. Edith R. Seward, N. 26° 28′, W. 65° 37′*†	30.16	766.1	83	28.3	.....	ssw.	.....	.....	1	.....	4	.....	sw.	0	0	mod.	se.	fair.
S. E. J. Spicer, N. 43° 40′, W. 58° 08′†	29.95	760.7	.....	.....	.....	s.	.....	.....	2	.....	5	.....	w.	0	0	mod.	wsw.	
Bk. Essex, S. 19° 06′ W. 31° 50′*†	30.07	763.8	72	22.2	.....	ese.	.....	.....	4	.....	9	.....	ese.	3 h'r	3 h'r	sm'h	s.	raining.
Bk. Freya, N. 42° 01′ W. 54° 19′	.....	.....	63	17.2	.....	w.	.....	.....	1	.....	0	.....	.....	0	0	mod.	w.	fair.
S. Grecian, Hong Kong, China*†	29.85	758.2	84	28.9	.....	se.	.....	.....	6	.....	8	.....	se.	2 h'r	2 h'r	.....	.....	fair.
Bk. Hattie G. McFarland, Portland, Me*†	29.84	757.9	72	22.2	.....	nw.	.....	.....	1	.....	.....	.....	.....	0	0	.....	.....	clear.
S. Hedwig, N. 37° 36′, W. 12° 51′	30.34	770.5	65.8	18.8	92	n.	.....	.....	6	.....	5	.....	nne.	6 h'r	6 h'r	short	n.	fine.
S. Ismir, S. 44° 15′, W. 1° 30′†	29.82	757 4	.....	.....	.....	ssw.	.....	.....	6	.....	8	.....	ssw.	.....	.....	h'vy	wsw.	fine.
S. Ivy, N. 32° 18′, W. 126° 55′†	30.29	769.4	55	12.8	.....	nnw.	.....	.....	3	.....	5	.....	nne.	.....	.....	sm'h	nne.	fair.
Schr. Jennie N. Huddell, N. 40° 03′ W. 73° 00′†	30.02	762.5	72	22.2	90	nnw.	.....	.....	1	.....	.....	.....	.....	0	0	sm'h	.....	clear.
Schr. John L. Thomas, Vivorilla Cays, C. A*†	30.08	764.0	.....	.....	.....	ese.	.....	.....	4	.....	2	.....	ese.	1 h'r	1 h'r	.....	.....	clear.
S. S. Lamperts, N. 12° 50, E. 46° 13′*	29.75	755.6	87.8	31.0	72	sw.	.....	.....	6	.....	4 k	.....	.....	.....	.....	1	.....	misty.
Light House Tender, Laurel, Carysport Reef, Fla†	30.11	764.8	85	29.4	.....	calm	.....	.....	0	.....	2	.....	calm	0	0	.....	.....	clear.
S. S. Malabar, N. 35° 18′, E. 148° 23′*†	29.92	760.0	.....	.....	.....	nne.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
S. M. P. Grace, S. 0° 19′, W. 28° 23′*	30.05	763.3	76	24.4	.....	ese.	.....	.....	4	.....	.....	.....	se.	0	0	sm'h	ese	clear.
S. S. Nebo, N. 54° 45′, W. 18° 20′*†	29.90	759.4	.....	.....	.....	e.	.....	.....	2	.....	10	.....	e.	0	0	sm'h	se.	light fog.
Bk. Orpheus, N. 43° 32′, W. 32° 10′	30.16	766.1	74	23.3	.....	ssw.	.....	.....	6	.....	10	.....	.....	.....	.....	mod.	wsw.	hazy.
S. Paramita, S. 41° 20′ W. 98° 03′†	29.74	755.4	53	11.7	.....	var.	.....	.....	5	.....	6	.....	wsw.	sq'ls	sq'ls	long	wsw.	
Bk. Peppina, Newport, England†	30.12	765.0	72	22.2	63	ssw.	.....	.....	2	.....	2	.....	se.	0	0	.....	.....	clear.
S. S. Ponca, S. 2° 00′, W. 41° 20′†	30.00	762.0	86	30.0	.....	se.	.....	.....	2	.....	7	.....	ssw.	0	0	light	e.	cloudy.
Bk. Rosebud, S. 33° 53′, E. 3° 21*†	30.25	768.3	62	16.7	83	nw.	.....	.....	3	.....	0	.....	.....	0	0	sm'h	.....	fine.
S. S. Sunbeam, N. 36° 41′, E. 0° 28′	30.15	765.8	74.5	23.6	76	e.	.....	.....	1	.....	4	.....	e.	.....	.....	.....	.....	misty.
Bg. Teneriffe, Cardenas, Cuba, W. I.	30.08	764.0	.....	.....	.....	e.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	fine.
Bk. Truro, N. 50° 20′, W. 16° 05′*†	30.07	763.8	.....	.....	.....	wsw.	.....	.....	1	.....	10	.....	.....	mist	mist	sm'h	.....	foggy.
U.S.F.C.S.S. Fish Hawk, St. Jerome Creek, Md†.	30.09	764.2	77	25.0	95	se.	.....	.....	3	.....	9	.....	calm	0	0	.....	.....	cloudy.
S. S. Victoria J. Peed, Salamanca Id, U. S. C.	.....	.....	.....	.....	.....	ne.	.....	.....	1	.....	3	.....	.....	.....	.....	.....	.....	
Bk. Vincenzo Accame N. 38° 30′, W. 13° 40′†	30.59	777.0	73.4	23.0	.....	nne.	.....	.....	5	.....	.....	.....	.....	.....	.....	.....	.....	
Schr Viola Reppard, N. 31° 47′, W 79° 11′†	29.91	759.7	83	28.3	.....	sw.	.....	.....	2	.....	6	.....	nw.	0	0	sm'h	.....	fair.
Bkt. Wandering Jew, Boston, Mass†*	29.88	758.9	67	19.4	.....	nw.	.....	.....	4	.....	2	.....	nw.	0	0	.....	.....	clear.
Bk. Warden Law, Gravesend, Eng*	30.12	765.0	.....	.....	.....	calm	.....	.....	0	.....	8	.....	.....	0	0	.....	.....	fair.
Bg. Wanburn, N. 25° 45′, W. 63° 30′*†	30.30	769.6	82	27.8	.....	sw.	.....	.....	3	.....	3	.....	se.	0	0	chop	ne.	
Bk. Wm. Wilcox, S. 14° 10′ W. 35° 07′*†	30.26	768.6	79	26.1	.....	ene.	.....	.....	2	.....	5	.....	n.	0	0	mod.	nne.	fair.
S. Wm. Woodbury, N. 39° 17′ W. 43° 11′*	30.02	762.5	77	25.0	95	wsw.	.....	.....	2	.....	6	.....	sw.	.....	.....	long	sw.	cloudy.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 30, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Clouds. Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.04	763.0	76.8	24.9	83	e.			4		1			0	0	very fair	Moiroud.
Algiers			30.07	763.7	76.6	24.8	68	wnw.			1		3			inap.	inap.	pretty fair	Nicolas.
La Calle			30.04	763.1	80.2	26.8	72	ene.			2		3			0.020	0.5	pretty fair	Fonfrède.
Tunis			30.06	763.5															Jacques.
Saida			30.12	765.0	86.4	30.2	43	ne.			2		6			0	0	cloudy	Perés.
Tebessa			30.10	764.6	81.0	27.2	31	w.			1		4			0	0	cloudy	Derché.
Geriville					89.6	32.0	8	s.			6		3			0.008	0.2	pretty fair	Lonchamp.
Laghouat			30.14	765.5	94.6	34.8	39	ne.			2		4			0.102	2.6	cloudy	Abraham.
Biskra			30.11	764.8	88.5	31.4	23	calm			0		10			0	0	covered	Malau.
Australian.																			
Melbourne, Victoria	30.05	763.3	30.14	765.5	41.1	5.1	85	nw.	4	1.8			2			0.41	10.4	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.37	746.0	29.89	759.3	77.5	25.2	57	sw.			3		2			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.20	741.6	29.95	760.8	62.2	16.8	90	nw.	4.3	1.9			10			0.504	12.8		Dr. Wierzbiski.
Eperies	29.05	737.8	29.89	759.1	75.2	24.0	50	s.			3		9 ks			0.039	1.0		Julius Mikolik.
Gratz	28.74	730.0	29.95	760.8	67.3	19.6	82	sw.			1		10			0.319	8.1	thunder	Andreas Rospini.
Hermannstadt	28.53	724.6	29.86	758.4	85.3	29.6	50	nw.			3		3			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.61	726.8	29.89	759.3	74.5	23.6	57	calm			0		7			0.004	0.1		The Staff.
Lemberg	28.97	735.9	29.92	760.0	71.4	21.9	51	nw			2		6			0.016	0.4		Dr. T. Stanecki.
Pola	29.80	756.8	29.90	759.5	80.2	26.8	63	ssw.			1		5			0	0		I. R. Hydrographic Office.
Szathmar	29.49	749.0	29.93	760.3	82.4	28.0	45	s.			3		6			0	0		Joseph Midlinszky, S. J.
Szegedin	29.64	752.8	29.90	759.5	83.3	28.5		s.			2		2			0	0		Karl Stancel.
Trieste	29.82	757.4	29.92	760.0	82.0	27.8	53	w.			1		7			0	0		Royal Academy.
Vienna	29.25	742.9	29.94	760.4	73.8	23.2	56	sse.			1		10			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.08	764.0	30.18	766.6	61.0	16.1	64	n.	11	4.9			0			0	0	blue sky	W. Boswell
Armagh, Observatory																			S. Call.
Bidston, Liverpool Obs'y			30.15	765.8	63.3	17.4	78	w.	12	5.4			0					blue sky	John Hartnup.
Bolton, Sharples	29.57	751.1	30.10	764.5	67.8	19.9	64	nnw.	3	1.3			7					d. clouds	Thomas Mackereth, A.S.
Bradford, Yorkshire	29.72	754.9	30.12	765.0	65.6	18.7	53	nw.			2		1			0	0	blue sky	J. McLandsborough, F. R
Bridgetown, Barbadoes																			Corpl. J. Surgenor, A. H. C.
Cardington			30.12	765.0	58.4	14.7	87	n.			0.4		10					overcast	John McLaren.
Chatham, School M. E.	30.01	762.2	30.14	765.5	59.0	15.0	88	ne.			1		10					gloomy	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.91	759.7	30.14	765.5	65.9	18.8	68	nw.			3		6					misty	The Staff.
Fort Napier, Natal	27.78	705.6	30.00	762.0	73.2	22.9	34	calm			0		0					blue sky	Pvt. Lane, A. H. C
Free Town, Sierra Leone	29.63	752.6	29.86	758.4	88.0	31.1	59	nw.			1		6					raining	Sergt. John Robinson.
Gibraltar, Mediterranean	29.96	761.0	30.01	762.2	80.4	26.9	74	e.			1		0					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.95	760.7	30.16	766.1	66.5	19.2	70	ene.			2		2 k					misty	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.95	760.7	30.12	765.0	58.9	14.9	87	ne.			1		10					overcast	The Staff.
Guernsey	29.89	759.2	30.12	765.0	65.0	18.3	80	wnw.			1		0					blue sky	A. Collenette, F. M. S.
Kew, Observatory	30.09	764.3	30.13	765.3	62.2	16.8	79	ne.	12	5.4			10					threatening.	The Staff.
Leicester, Museum	29.88	758.9	30.13	765.3	61.6	16.4	74	ne.			1		4					d. clouds	J. C. Smith.
Malta, Mediterranean	29.95	760.7	30.02	762.5	87.4	30.8	65	sw.			2		0					blue sky	I. H. Whysall.
Nassau, Bahamas	30.09	764.3	30.14	765.5	85.5	29.7	66	sw.			1		8					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.62	752.3	30.14	765.5	62.3	16.8	77	nne.			1		5					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.91	759.7	30.14	765.5	58.5	14.7	87	ne.			1		10					misty	The Staff.
Plymouth	30.05	763.3	30.12	765.0	67.0	19.4	75	nne.			1		10					overcast	John Merrifield.
Sandwick Manse, Orkneys			30.22	767.6	59.7	15.4	70	ne.	8	3.6			0					blue sky	Rev. C. Clouston, L. L. D
Scutari Cemetery, Turkey	29.87	758.7	29.94	760.5	87.2	30.7	40	ne.			2		0					blue sky	W. H. Lyne.
Sheffield	29.85	758.2	30.12	765.0	66.9	19.4	77	ne.			1		2			0	0	d. clouds	W. F. Cooper.
Silloth Rectory	30.11	764.8	30.14	765.5	70.9	21.6	61	e.			1		0			0	0	blue sky	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.15	765.8	69.2	20.7	75	wsw.	8	3.6			6			blank	blank	d clouds	J. New.
Stratfield Turgiss	29.90	759.4	30.11	764.8	70.2	21.2	71	e.			1		7					d. clouds	Rev. C. H. Griffiths, F. M. S
Truro, Royal Institution	30.14	765.5	30.15	765.8	69	20.6	65	nw.			4		5					d. clouds	W. Newcombe.
Valencia, Observatory	30.18	766.6	30.20	767.1	60.8	16.0	82	wsw.	10	4.5			5					d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.68	753.9	29.72	754.9	54	12.2	97	ne.	2	0.9			10 n		calm	0.343	8.7	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.71	754.6	29.77	756.1	51	10.6	93	nw.	11	4.9			10 n		nw.	0.80	20.3	light rain	G. A. Blair.
Father Point, Quebec*	29.89	759.2	29.92	760.0	50	10.0	93	ne.	23	10.3			fg.			0.04	1.0	light fog	J. McWilliams.
Fort Garry, Manitoba*	28.84	732.5	29.63	752.6	58	14.4	96	n.	3	1.3			10 s		n.	0.10	2.5	cloudy	
Halifax, N. S*	29.59	751.6	29.71	754.6	53	11.7	96	nw.	6	2.7			10 n		nw.	0.120	3.0	cloudy	A. Allison.
Kingston, Ontario*	29.69	754.1	30.02	762.5	55	12.8	69	n.	4	1.8			10 k		w.	0	0	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.80	756.9	30.00	762.0	56	13.3	64	nw.	4	1.8		3 cs	0			0.01	0.3	fair	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.27	743.4	29.95	760.7	54	12.2	61	s.	15	6.7			10 n		se.			light rain	Rev. R. Mosley.
Port Dover, Ontario	29.24	742.7	29.91	759.7	61	16.1	94	ne.	4	1.8			10 ks		w.	inap.	inap.	threatening.	H. Morgan.
Port Stanley, Ontario	29.25	742.9	29.87	758.7	63	17.2	81	s.	12	5.4			10 n		w.	0	0	cloudy	M. Payne.
Quebec, Quebec*	29.65	753.1	29.96	761.0	54	12.2	86	n.			5	0	2 s		n.	0	0	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.55	750.6	30.01	762.2	46	7.8	86	e.	2	0.9			10 s		w.	0	0	cloudy	W. H. McIntyre.
Saugeen, Ontario*	29.14	740.1	29.84	757.9	57	13.9	72	se.	23	10.3			10 ks			0	c	threatening.	
St. Andrews, N. B.	29.74	755.4	29.79	756.7	54	12.2	80	n.	7	3.1		2 k	2 ks		ne.	0	0	fair	
Sydney, C. B*	29.68	753.9	29.74	755.4	50	10.0	100	e.	12	5.4			10 n			0.16	4.1	cloudy	T. C. Hill, C. E
Toronto, Ontario*	29.60	751.8	29.98	761.5	56	13.3	72	e.	15	6.7			10 s		w.	0	0	cloudy	Magnetic Observatory.
Yarmouth, N. S*	29.74	755.4	29.81	757.2	51	10.6	90	n.	6	2.7		3 ck	2 k		nw.	n.	0	0	fair	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.55	725.2	30.00	762.0	54.0	12.2	74	sse.				10 c;n	0			0.100	2.5	cloudy	Wm. Wylie.
St. Johns, Newfoundland	30.01	762.2	30.26	768.6	48	8.9	100	ne.	0	0			10 n			0	0	foggy	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.05	763.3	30.08	764.0	63.0	17.2	79	w.	8.0	3.6			10 n			0	0	threatening.	John Duthie.
Cape Town, C. G. H. Obs'y	30.10	764.5	30.14	765.5	59.5	15.3	100	w.	4	1.8		10	10			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Chinese (*Sub-series*).																			
Hankow	29.73	755.1	30.00	762.0	72.1	22.3	88	nnw.			2		10			0	0	overcast	N. Titoushkin.
Zi-Ka-Wei, near Shanghai.	29.72	755.0	29.75	755.6	73.0	22.8	95	nw.	7.8	3.5			10 n			0.122	3.1	raining	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.93	760.1	29.97	761.3	57.6	14.2	80	se.	23.5	10.5			10						Oversergent Fischer.
Fanöe	29.93	760.2	29.95	760.7	61.7	16.5	81	w.			2		10						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	30.02	762.4	30.06	763.5	52.9	11.6	84	calm			0		8						A. O. Thorlacius.
Thorshavn	30.26	768.6	30.30	769.5	57.2	14.0	77	calm	0	0			7						Overloerer Bergh.
Vestervig	29.90	759.5	29.99	761.8	64.4	18.0	68	ene.			6		4						Loearer Oesterbol.
French.																			
Agen, Normal School	29.43	747.4	30.06	763.5	71.6	22	59	nnw.			1		kn			0	0		M. Labroue, Director.
Alençon, Normal School	29.57	751.1	30.12	765.1	67.3	19.6	91	n.			2		kn	e.	e.	0.79	20.		M. Nicot, Director.
Arras, Engineer School	29.81	757.2	30.06	763.6	65.5	18.6	75	nw.			2		kn			0	0		M. Fénéon, Command't.
Avignon, Normal School	29.93	760.3	30.01	762.3	75.2	24	60	n.			1		8		n.	0	0	very cloudy	M. Giraud, Director.
Bar-sur-Seine	29.49	749.0	30.03	762.7	70.3	21.3	62	n.			1		8		nw.	0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.83	757.6	30.09	764.2	68.9	20.5	67	nne.			1		8		ne.	0.059	1.5	very cloudy.	M. Frère Eugène Marié.
Besançon, Normal School	29.11	739.4	30.07	763.8	63.3	17.4	88	nne.			1		10 n		ne.	0.31	8.0	raining	M. Gobin, Director.
Bordeaux, Observatory	29.84	758.0	30.10	764.5	73.4	23.0	40	nw.			1		8			0.604	0.1	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.52	749.8	30.06	763.5	65.1	18.4	86	n.			1		n		n.	0	0		M. Postel, Director.
Brest, Naval Observatory	29.91	759.8	30.16	766.0	68.0	20.0	72	n.			1		5		n.	0.047	1.2		M. de Kermaree, Dir.
Caen, Normal School	30.03	762.7	30.10	764.5	67.6	19.8	71	n.			1		5		n.	0.012	0.3	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.69	754.2	30.01	762.2	74.8	23.8	54	nw.			1		5		n.	0	0	cloudy	M. Jadot, Director.
Charleville, Normal School.	29.52	749.9	30.02	762.4	73.8	23.2	53	wnw.			1		8			0.08	2.	¾ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.71	729.3	30.03	762.8	68.0	20.0	62	nw.			1		8			0.469	11.9	¾ covered	M. Alluard, Director.
Cluny, Normal School	29.23	742.5	30.06	763.5	64.9	18.3	78	nw.			1		6			0.067	1.7		M. de Villemontée, Dir.
Commercy, Normal School.	29.19	741.4	30.03	762.8	69.4	20.8	67	nnw.			1		kn	nnw.	nnw.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.56	700.1	30.05	763.2	64.4	18	68	sw.			1		4 n		sw.	0.16	4.		M. Jeangirard, Director.
Gréasque, du Rhone	28.90	734.0	29.97	761.3	79.2	26.2	33	nw.			2		5		w.	0	0		M. Kina, Director.
Grenoble, Normal School	29.26	743.3	30.02	762.5	63.0	17.2	90	nw.			2		10 kn					raining	M. Ablard, Director.
Guéret, Normal School	28.58	725.9	30.12	765.0	64.4	18	71	w.			1		5		e.	0.08	2.	cloudy	M. Rivoire, Director.
Lamballe, Normal School	29.84	757.9	30.11	764.9	66.2	19	81	nw.			2		5		nw.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.58	751.4	30.13	765.3	71.2	21.8	51	sw.			1		2			0.091	2.3	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	30.04	763.0	30.14	765.6	68.4	20.2	72	w.			1		8	ne.	w.	0.012	0.3	¾ covered	Lt. T. Carre, Director.
Lyon, St. Genis-Laval	29.02	737.2	30.06	763.6	62.6	17.0	70	n.			1		10		wnw.	0.035	0.9	covered	M. André, Director.
Mans, Normal School	29.80	756.9	30.10	764.6	65.3	18.5	77	ne.			1		8		ne.	0.59	15.	very cloudy.	M. Piboen, Director.
Marseille, Observatory	29.73	755.2	30.00	761.9	76.6	24.8	61	wnw.			1		7		wsw.	inap.	inap.		M. Stephan, Director.
Montlouis	24.93	633.1	29.77	756.1	54.5	12.5	81	sw.	5.6	2.5			7	nw.		0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.87	758.6	29.99	761.7	79.5	26.4	56	nw.			2		2		w.	0.16	4.	slightly cl'dy	M. Galzin, Director.
Nancy, Normal School	29.25	743.0	30.02	762.4	69.4	20.8	64	wnw.			1		kn			0	0		M. Hasse, Director
Nantes. Observatory	29.98	761.5	30.14	765.6	71.2	21.8	61	wnw.			1–2		9 k; kn			0.016	0.4		M. Larocque, Director.
Perpignan, Observatory	29.97	761.2	30.07	763.8	68.4	20.2	82	nw.	5.6	2.5			10			0.067	1.7		Dr. Fines, Director.
Pic-du-Midi, Summit.	21.37	542.7			40.3	4.6		sw.			1		10		sw.	0.315	8.0	covered	Gen'l de Nansouty, Dir.
Privas, Normal School	29.05	737.8	30.10	764.4	66.6	19.2	79	nw.			1		5			0	0	cloudy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.22	640.6			47.7	8.7	100	wnw.			4		10			0.177	4.5	foggy	M. Alluard, Director.
Rochefort, Naval Obs'y	30.09	764.2	30.12	765.0	74.7	23.7	87	w			1		10		w.	0	0	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.93	760.2	30.14	765.5	68.4	20.2	72	nw.			1		5		nw.	0.016	0.4	cloudy	M. Mouilliot, Director.
Rodez, Normal School	27.98	710.6	30.06	763.4	71.6	22.0	61	calm			0		kn		se.	0.118	3.0		M. Seger, Director.
Rouen, Normal School	30.06	763.4	30.10	764.6	70.9	21.6	80	e.			1		5	sw.		0.134	3.4	cloudy	M. Brotier.
Saint Maur, Observatory	29.91	759.6	30.07	763.8	68.2	20.1	70	n.			1		10		n.	0.020	0.5		M. Renou, Director.
Toulouse, Observatory	29.43	747.5	30.16	766.0	69.4	20.8	76	wsw.			2		8	nw.		0.819	20.8	very cloudy.	M. Baillaud, Director.
Tours	29.89	759.2	30.07	763.7	68.4	20.2	71	n.			1		8	sw.	ssw.	0.004	0.1	very cloudy	M. de Tastes.
Versailles, Observatory	29.58	751.4	30.08	763.9	67.3	19.6	70	ne.			2					0.106	2.7		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.80	756.8	30.09	764.2	66.0	18.9	75	nnw.			1		8		wnw.	0.039	1.0		M. Marié Davy, Director
German.																			
Bamberg	29.16	740.6	30.01	762.3	77.5	25.3	37	w.			2	0	5 ks			0	0		Prof. Dr. Hoh.
Berlin	29.85	758.3	30.03	762.7	70.2	21.2	49	nw.			3		3			0	0		Prof. Dr. Arndt.
Breslau	29.44	747.8	29.97	761.3	71.2	21.8	53	wsw.			2		6			0.004	0.1		Royal University Obs'y.
Carlsruhe	29.56	750.9	29.99	761.7	73.0	22.8	53	ne.			1		10	sw.		0.693	17.6		Albert Senz.
Cassel	29.26	743.3	29.98	761.4	74.8	23.8	44	n.			2		3	sw.		0.102	2.6		Dr. H. Möhl.
Frankfort-on-the-Main	29.64	752.8	29.99	761.8	71.4	21.9	53	n.			1		5			0	0		Physical Society.
Friedrichshafen	28.56	725.3	29.94	760.5	70.5	21.4	59	nw.			4		8	ne.		1.606	40.8		Wilhelm, Chief Tel.
Hamburg	29.89	759.1	29.98	761.5	65.3	18.5	64	w.			4		6	w.		0	0		E. Preller.
Kiel	29.94	760.5	29.96	760.9	59.5	15.3	76	w.			2		10			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.57	751.1	29.98	761.4	72.0	22.2	44	nnw.			3		6	nw.		0.157	4.0		H. Leppig, Asst.
Magdeburg	29.78	756.3	29.97	761.1	61.9	16.6	60	nw.			3	0	1 k		wnw.	0	0		Dr. Assmann.
Memel	29.96	760.9	30.00	762.1	59.9	15.5	53	nnw.			3		10 ks						Isermann.
Munich	28.19	716.1	30.06	763.4	71.4	21.9	53	nw.			1		6	e.		0	0		Central Station.
Neufahrwasser	29.95	760.7	29.97	761.1	54.7	12.6	89	ene.			2		10			0.217	5.5	raining	A. Lothes.
Neustadt, Palatinate	29.47	748.5	30.00	761.9	70.2	21.2	67	nne.			1		9	n.		0	0		Dicknether.
Stuttgart	29.04	737.6	29.90	759.4	71.6	22.0	56	ne.			1		9	e.		0.335	8.5		Prof. Dr. Schoder.
Wustrow	29.96	761.0	29.98	761.6	57.2	14.0	77	nw.			4		10			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.58	751.2			91.9	33.3		ne.			1.5		0			0	0	clear	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.63	752.6	29.68	753.9	88.4	31.3	68	wsw.	30.0	13.4			7		w.	0	0	d. clouds	
Deesa	29.12	739.7	29.58	751.3	97.4	36.3	38	ssw.	11.9	5.3			6	ssw.	ssw.	0	0	d. clouds	
Bombay	29.73	755.0	29.76	756.0	82.5	28.1	81	wnw.	21.0	9.4			10		w.	0.06	1.5	overcast	
Poona, Yarrowda	27.90	708.6	29.74	755.4	81.3	27.4	60	wsw.	24.0	10.7			8	wsw.	wsw.	0	0	d. clouds	
Trichinopoly	29.51	749.5	29.78	756.5	88.3	31.3	47	w	4.0	1.8			10			0	0	overcast	
Bellary	28.23	717.0	29.66	753.2	92.0	33.3	44	w.	10.5	4.7			8	w.		0	0	gloomy	
Belgaum	27.27	692.6	29.81	757.2	74.0	23.3	76	wsw.	9.0	4.0			6	e.	sw.	0.05	1.3	showery	
Lahore	28.71	729.2	29.40	746.8	107.3	41.8	25	w.	2.9	1.3			0			0	0	blue sky	
Roorkee	28.62	727.1	29.49	749.1	91.2	32.9	62	calm	2.9	1.3			2			0	0		
Agra	28.95	735.3	29.49	749.1	96.1	35.6	50	e.	4.6	2.1			8		e.	0.13	3.3	d. clouds	
Nagpur	28.59	726.2	29.63	752.6	80.1	26.7	87	calm	2.9	1.3			9		nw.	0.45	11.4	gloomy	
Jubbulpore	28.31	719.0	29.65	753.2	80.5	26.9	85	s.	2.9	1.3			10		s.	0.29	7.4	overcast	
Lucknow	29.16	740.7	29.53	750.0	92.7	33.7	58	calm	0.2	0.1			8		sse.	0	0	d. clouds	
Allahabad	29.24	742.8	29.55	750.4	93.4	34.1	64	calm	1.3	0.6			5			0.06	1.5	d. clouds	
Patna	29.42	747.3	29.60	752.0	88.4	31.3	79	ese.	2.3	1.0			10	ese.	ese.	0	0	overcast	
Hazaribagh	27.62	701.6	29.62	752.2	78.6	25.9	84	s.	4.9	2.2			10	s.	n.	0.50	12.7	showery	
Cuttack	29.52	749.9	29.60	751.9	90.9	32.7	55	sse.	1.5	0.7			0			0	0	blue sky	
Calcutta, Alipore	29.59	751.6	29.61	752.2	88.3	31.3	62	ssw.	5.0	2.2			2	sw.		0	0	d. clouds	
Dhubri	29.51	749.5	29.63	752.5	79.1	26.2	93	calm	1.5	0.7			8			8.38	212.8	d. clouds	
Chittagong	29.58	751.3	29.67	753.6	83.7	28.7	82	sw.	3.3	1.5			8			0	0	blue sky	
Sibsagar	29.32	744.7	29.65	753.2	82.1	27.8	87	sw.	1.1	0.5			8	w.	w.	1.34	31.5	d. clouds	
Jeypore	28.15	715.0	29.55	750.5	92.7	33.7	49	w.	7.7	3.4			10	e.	w.	0.01	0.3	overcast	
Zanzibar, Africa	30.08	764.0			81.4	27.4	58	s.	5.7	2.5			8		se.	0.02	0.5	d. clouds	
Italian.																			
Udine	29.55	750.6	29.95	760.6	77.4	25.2	63	ne.	1.8	0.8			3			0.961	24.4		Prof. Giovanni Clodig.
Milan	29.44	747.8	29.94	760.4	79.9	26.6	49	s.	4.3	1.9			9	w.		0.020	0.5		Prof. Schiaparelli.
Padua	29.82	757.4	29.93	760.1	79.5	26.4	44	s.	0.7	0.3			4	sw.		0.102	2.6		Prof. Dott. Lorenzoni.
Moncalieri	29.00	736.7	29.87	758.8	72.3	22.4	64	wnw.	1.3	0.6			7	nw.		0	0		Prof. P. F. Denza.
Genoa	29.80	756.8	29.98	761.5	75.2	24.0	70	sw.	4.9	2.2			8	se.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.06	712.8	29.90	759.4	71.8	22.1	62	w.			4		9			0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
ITALIAN.—Continued.																			
Pesaro	29.88	758.9	29.93	760.1	80.1	26.7	54	ne.	3.8	1.7			2			0	0		Prof. Luigi Guidi.
Florence	29.71	754.7	29.96	761.0	83.1	28.4	41	sw.			2		3			0	0		Prof. Costantino Pitter
Leghorn	29.84	757.9	29.92	760.0	78.8	26.0	62	w.	2.5	1.1			4			0	0		Prof. P. Monte.
Rome	29.82	757.4	29.99	761.7	84.6	29.2	49	sw.	6.9	3.1			3			0	0		Prof. P. S. Ferrari.
Lecce	29.71	754.7	29.96	760.9	88.9	31.6	22	wsw.	11.9	5.3			3			0	0		Prof. C. de Giorgi.
Cosenza	29.12	739.7	29.98	761.4	86.7	30.4	73	ssw.	3.8	1.7			0			0	0		Prof. D. Conti.
Cagliari	29.76	755.9	29.95	760.7	78.3	25.7	66	sse.			4					0	0		Prof. A. Pacinotti.
Palermo	29.78	756.4	30.02	762.6	78.4	25.8	71	ne	5.6	2.5			0			0	0		Prof. G. Ciacciatore.
Syracuse	29.92	759.9	29.96	761.0	84.0	28.9	38	ne.	0.7	0.3			5	sw.		0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.48	748.7	29.98	761.5	80.1	26.7	67	e.	4.3	1.9			3	w.		0	0		Prof. T. Brioschi.
Stelvio	22.24	565.0			48.7	9.3	66	s.			2		10			0.839	21.3	covered	Prof. P. F. Denza.
Valdobbia	22.28	565.8			47.8	8.8	82	n.			1		10			0.157	4.0	covered	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.78	756.4	29.82	757.4	65.0	18.3	80	w.	0.6	0.3		ck;cs	7 s			0	0	fair	K. Ogawa.
Hakodate	29.80	756.9	29.81	757.2	58.0	14.4	90	e.	6.0	2.7			7			0	0	cloudy	
Hiroshima, I. M. Obs'y	29.78	756.4	29.80	756.9	71.2	21.8	85	w.	2.2	1.0		10 ck	0			0.030	0.8	covered	I. Sogawa.
Kanazawa	29.79	756.6	29.89	759.2	73.0	22.8	75	n.	1.8	0.8		ck	10 ks			0	0	cloudy	S. Endo.
Kioto	29.69	754.1	29.86	758.4	71.7	22.1	74	e.	1.5	0.7		10 cs	0			0	0		M. Tojima.
Kochi	29.86	758.4	29.88	758.9	71.4	21.9	85	wnw.	1.7	0.8		ck	10 s		sw.	0	0	cloudy	K. Kusunose.
Nagasaki, I. M. Obs'y	29.64	752.8	29.84	757.9	68.7	20.4	93	n.	1.6	0.7			10 s			0.100	2.5	overcast	S. Takehayashi.
Nemuro	29.91	759.7	29.98	761.5	50.5	10.3	93	ese.	2.4	1.1		10	0			0	0	cloudy	
Niigata	29.80	756.9	29.83	757.7	68.8	20.4	83		0.4	0.2		9ck;cs	1 s			0	0	cloudy	M. Morita.
Nobiru	29.84	757.9	29.85	758.2	67.6	19.8	93	sse.	9.5	4.2		ck	3 ks		sse.	0	0	fair	H. Midzushina.
Supporo					60.0	15.6	93	calm	0	0			8			0	0	overcast	
Tokei Obs'y, Yeddo	29.82	757.4	29.89	759.2	68.0	20.0	88	sw.	7.1	3.2		3 c;cs	0			0	0	fair	The Staff.
Wakayama	29.81	757.2	29.86	758.4	72.4	22.4	82	sw.	4.9	2.2		6ck;cs	4 ks		w.	0	0	cloudy	Y. Kuwamuea.
MAURITIUS																			
Mauritius Observatory	30.09	764.3	30.28	769.1	70.5	21.4	71	ese.	18.0	8.0		0	4 ks;n		ese.	0.16	4.1	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.66	600.9	29.88	758.9	61.2	16.2	85	ene.					10 kn		ne.	0.099	2.5	cloudy	Prof. Vicente Fernandez.
Leon	24.37	619.0	30.04	763.0	59.4	15.2	85	nne.			2	7 c	1 k	e.		0.193	4.9	very cloudy	Prof. M. Leal.
Mazatlan	29.62	752.3	29.87	758.8	79.0	26.1	86	nnw.	5.3	2.3			10 n		w.	inap.	inap.	covered	F. Quijano, C. E.
Mexico, Central Obs'y	23.08	586.3	30.07	763.8	57.6	14.2	88	calm	0	0		4 ck	4 kn	e.		0.315	8.0	cloudy	The Staff.
Morelia	24.17	614.0	30.22	767.7	61.3	16.3	42	se.			3	4	4		e.	0.138	3.5	cloudy	M. Tena, M. D.
Pabellon, Aguascalientes	23.92	607.6	29.83	757.6	63.0	17.2	86	n.			1	2 c	5 k	ese.	se.	0	0	cloudy	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.44	595.4	30.20	767.0	54.1	12.3	92	calm	0	0		0	0			0.193	4.9	clear	Prof. P. Spina.
San Luis Potosi	24.28	616.8	30.23	767.8	62.6	17.0	75	e.					10		e.	0	0	covered	G. Barroeta, M. D.
Zacatecas	22.58	573.6	30.16	766.2	53.0?	12.3?	89	e.	8.7	3.9			10			0	0	gloomy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.11	764.9	30.11	764.9	62.1	16.7		nnw.			2					0	0		
Groningen	29.98	761.4	30.03	762.8	63.0	17.2		n.			1					0	0		
Helder	30.07	763.7	30.07	763.7	56.1	13.4		wnw.			2					0	0		
Hellevoetsluis	30.10	764.4	30.10	764.4	64.0	17.8	71	nnw.			1					0	0		
Utrecht	30.02	762.5	30.07	763.7	70.2	21.2	76	wsw.			1		5			0	0	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.98	761.5	30.04	763.1	64.0	17.8	70	w.	11	5			7			0	0		
Brono	30.11	764.7	30.15	765.7	53.2	11.8	63	n.	9	4			7			0	0		
Christiania	29.94	760.4	30.08	764.1	60.1	15.6	62	e.	11	5			4			0	0		
Gjæsvær	29.78	756.3	29.80	756.9	43.3	6.3		wnw.			7		10					raining	
Lodingen	29.98	761.5	30.03	762.7	52.0	11.1	72	sw.			4–6		4			0	0		
PORTUGUESE.																			
Angra, Azores					72.7	22.6	69	w.	4.9	2.2			3			0	0		
Campo Major	28.98	736.2	29.93	760.2	87.8	31.0	22	nne.	6.9	3.1			1			0	0		Dr. J. A. Sampaio.
Funchal, Maderia	30.17	766.2	30.25	768.4	71.8	22.1	72	sw.	4.9	2.2			3			0	0		Dr. A. M. R. dos Santos.
Lisbon, Observatory	29.71	754.6	30.06	763.5	73.4	23.0	53	n.	24.2	10.8			1			0	0		Capt. D. A. de Cunha.
Ponta Delgada, Azores	30.47	774.0	30.54	775.7	77.7	25.4	56	ne.	6.3	2.8			5			0	0		The Staff.
Saint Paul de Loando	29.87	758.8	30.08	764.0	69.6	20.9	91	nnw.	0.7	0.3			0			0	0		
Serra da Estrella	25.42	645.7	30.03	762.7	62.6	17.0	48	ene.	14.3	6.4			0			0	0		
RUSSIAN.																			
Akmolinski	28.63	727.2	29.65	753.0	77.9	25.5	34	sw.	18	8		5 cs	0			0	0		
Archangel	29.58	751.4	29.60	751.9	43.7	6.5	87	wnw.	13	6			10			0.591	15.0	raining	Major K. Lasarew.
Astrakhan	29.95	760.8	29.87	758.7	86.6	30.4	44	ssw.	22	10		0	3 k			0	0		Capt. Sselliwerstow.
Barnaul	29.37	746.1	29.86	758.4	64.0	17.8	46	wsw.	4	2			9			0.020	0.5		Capt. Wieganow.
Dorpat	29.73	755.2	29.97	761.3	58.3	14.6	46	wnw.	4	2			9 k			0	0		Meteorological Obs'y.
Ekaterinburg	28.72	729.5	29.66	753.3	58.3	14.6	46	e.	9	4		ck	7 ks			0	0		Observatory.
Irkutsk	28.09	713.4	29.68	753.9	58.5	14.7		nw.					10			0.701	17.8	raining	Meteorological Obs'y.
Kasan	29.07	738.4	29.34	745.1	55.8	13.2	90	ne.	2	1			10 n			0.988	25.1	raining	Observatory.
Kertch	29.93	760.1	29.95	760.6	76.1	24.5	73	sse.	9	4		0	3 k			0	0		Lagorio & Sastyrez.
Kieff	29.24	742.6	29.84	758.0	71.1	21.7	58	w.	9	4		ck	9 ks			0	0		Observatory.
Lugan	29.63	752.5	29.82	757.5	76.5	24.7	37	wsw.	34	15			7			0	0		Meteorological Obs'y
Moscow	29.18	741.1	29.65	753.0	52.7	11.5	72	n.	10.1	4.5			8 ks						Meteorological Obs'y.
Nikolaiev	29.92	759.9	29.99	761.7	81.3	27.4	42	w.	9	4		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.78	756.4	29.87	758.6	58.8	14.9	71	calm	0	0			0			0	0		Lieut. Iwanow.
Pekin, China	29.52	749.8	29.66	753.4	90.7	32.6	36	calm	0	0		0	1 ks			0	0		Physical Observatory
St. Petersburg	29.84	758.0	29.86	758.4	53.2	11.8	55	w.	13	6			9 n			0	0		Central Physical Obs'y.
Semipalatinsk	29.21	741.8	29.82	757.5	79.5	26.4	32	sw	9	4		0	6			0	0		Major Lasarew.
Tashkend, Laboratory	28.31	719.1	29.78	756.3	86.9	30.5	38	calm	0	0			0						Teich, A. M.
Tiflis	28.59	726.2	29.93	760.1	88.3	31.3	37	calm	0	0		0	4 k			0	0		Physical Observatory
Vladivostock	29.68	753.9			59.2	15.1	93	calm	0	0		0	8 k						
Warsaw	29.47	748.6	29.88	759.0	69.4	20.8	65	w.	2	1			10 ks			blank	blank		Astronomical Obs'y
Wilna	29.53	750.1	29.94	760.5	62.6	17.0	53	w.	4	2			8			0.039	1.0		Berg, Assistant.
SPANISH.																			
Barcelona, Met. Obs'y	29.91	759.7	30.01	762.3	74.3	23.5	65	e.	2.5	1.1			10			0.079	2.0		Antonio Rave, Director.
Bilbao, Met. Obs'y	30.10	764.6	30.16	766.1	76.6	24.8	54	nw.	3.1	1.4		3	5	nw.		inap.	inap.	almost cov.	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.19	690.6	30.07	763.7	69.4	20.8	58	ne.	9.8	4.4			1			0	0	almost clear	Domingo Martin.
Madrid, Royal Obs'y	27.81	706.3	29.90	759.4	86.9	30.5	37	n.	5.4	2.4		0	3			inap.	inap.	cloudy	The Staff.
Murcia, Met. Obs'y	29.88	758.9	30.02	762.4	78.6	25.9	78	ese.	2.2	1.0		5	5			inap.	inap.	covered	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.24	742.6	30.11	764.9	70.5	21.4	72	e.	2.5	1.1			8			0	0	almost cov'd	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	30.00	762.0	30.07	763.6	78.8	26.0	82	ese.	6.3	2.8		c	0			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.84	757.9	29.89	759.3	82.4	28.0	85	s.	9.9	4.4		1 c	5 ck		se.	0.602	15.3	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.93	760.1	30.02	762.5	76.6	24.8	63	w.	2.4	1.1		0	1		w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.02	762.6	30.11	764.9	82.4	28.0	92	se.	6.9	3.1		4 cs	3 k	se.	se.	0	0	d. clouds	Manuel Maese.
Tuguegarao, Philippine Id's	29.76	755.9	29.89	759.2	83.8	28.8	82	ene.	2.2	1.0		0	7 k		ese.	0	0	cloudy	José L. Yrastorza.
SWEDISH																			
Haparanda	29.81	757.1	29.85	758.1	62.6	17.0	74	nw.			4		8			0	0		
Umea	29.93	760.1	29.98	761.4	63.7	17.6	74	sw.			4		3			0	0		
Hernosand	29.90	759.5	29.95	760.8	66.2	19.0	43	s.			2		2			0	0		
Stockholm	29.89	759.1	30.06	763.6	60.1	15.6	35	sw.			2		2			0.012	0.3		
Wisby	29.94	760.4	30.00	761.9	56.8	13.8	57	nne.			4		3			0	0		
Sub-series.																			
Upsala	29.98	761.6	30.07	763.8	62.8	17.1	30	ene.	8.1	3.6			5		n.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.63	727.1	30.03	762.8	61.5	16.4	92	ne.			1					0.488	12.4	raining	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
SCOTTISH.																			
Monach Lt			30.15	765.8	58	14.4	93	calm			0	0	0			0	0		J. Youngclause.
North Unst			30.22	767.6				ne.			4	3	4	ne.					
TURKISH.																			
Constantinople			29.99	761.8	77.9	25.5	49	ne.	10.1	4.5			0			0	0		The Observatory.
Valona			30.09	764.3	90.1	32.3		s.			1		2			0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.86	758.5	84.0	28.9	63	sw.			3	0	1 s		sw.	0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.95	760.7	30.03	762.7	65	18.3	54	n.	5	2.2		6 c	0	nw.		0	0	fair	J. O. Barnes.
Alpena, Michigan	29.13	739.9	29.78	756.4	53	11.7	93	e.	32	14.3			10 n		s.	0.43	10.9	light rain	Jas. J. Fitzgerald.
Atlanta, Georgia	28.83	732.3	29.98	761.5	79.5	26.4	74	w.	9	4.0		9 k	0			0.02	0.5	cloudy	H. Hall.
Atlantic City, New Jersey	29.99	761.7	30.00	762.0	66	18.9	73	e.	9	4.0		0	0			0	0	clear	Jas. M. Watson.
Augusta, Georgia	29.77	756.1	29.96	761.0	78	25.6	79	sw.	2	0.9			10 s			0	0	cloudy	John Healy.
Baltimore, Maryland	29.96	761.0	30.01	762.2	71	21.7	53	se.	12	5.4		2 cs	hz.	w.		0	0	clear	Robert Seyboth.
Barnegat, New Jersey	29.99	761.7	30.01	762.2	67.2	19.6	60	e.	13	5.8		0	4 k		n.	0	0	fair	Chas. F. Merritt.
Behring Island, Behring Sea	29.72	754.9	29.74	755.4	44.0	6.7		s.	9	4.0			fg			0	0	dense fog	Dr. L. Steineger.
Bismarck, Dakota	27.97	710.4	29.72	754.9	65	18.3	90	nw.	5	2.2		0	0			0	0	clear	Cyrus Cramer.
Boise City, Idaho	27.14	689.3	29.92	760.0	57	13.9	60	calm	0	0		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.82	757.4	29.97	761.2	58.0	14.4	61	nw.	11	4.9		4 c	0	nw.		0	0	fair	O. B. Cole.
Brownsville, Texas	29.90	759.4	29.94	760.5	79.7	26.5	82	se.	6	2.7		0	0			0	0	clear	M. McCarty.
Buffalo, New York	29.21	741.9	29.95	760.7	57.8	14.3	70	ne.	6	2.7			10 s		w.	0	0	cloudy	Wm. Finn.
Burlington, Vermont	29.71	754.6	30.00	762.0	56.5	13.6	71	ne.	5	2.2		3 ck	0	w.		0.05	1.3	clear	G. C. Schaeffer.
Cairo, Illinois	29.52	749.8	29.90	759.4	80.8	27.1	80	sw.	8	3.6		1 ck	7 s	w.	w.	inap.	inap.	cloudy	W. H. Ray.
Campo, California	27.30	693.4	29.78	756.4	47	8.3	77	w.	2	0.9		0	0			0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.16	689.9	29.79	756.7	70	21.1	93	calm			0	1 cs	0			inap.	inap.	clear	J. T. Fitzgerald.
Cape Henry, Virginia	29.98	761.5	30.00	762.0	67	19.4	90	se.	14	6.3		0	10 n			0.06	1.5	light rain	A. K. Alderson.
Cape May, New Jersey	29.95	760.7	29.98	761.5	68	20.0	73	e.	13	5.8		3 c	0	w.		0	0	clear	W. Bolton.
Cedar Keys, Florida	30.01	762.2	30.03	762.7	80	26.7	88	w.	9	4.0		4 c	3 k		w.	0.14	3.6	clearing	F. W. Mixer.
Champaign, Illinois	28.95	735.3	29.74	755.4	74.8	23.8	85	sw.	7	3.1			10 s		sw.	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	29.87	758.7	29.92	760.0	80	26.7	79	w.	6	2.7		5 ck	0	nw.		0.75	19.0	fair	J. H. Smith.
Charlotte, N. Carolina	29.07	738.4	29.90	759.4	76.0	24.4	76	ne.	7	3.1			10 s		ne.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.17	740.9	29.98	761.5	75.0	23.9	88	sw.	4	1.8		0	4ks;fg		w.	0.74	18.8	fair	B. L. Goulding.
Cheyenne, Wyoming	24.08	611.6	29.82	757.4	55.4	13.0	77	nw.	4	1.8		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	28.97	735.8	29.66	753.4	70.3	21.3	96	sw.	6	2.7			10 k		w.	1.38	35.1	cloudy	J. Mitchell.
Chincoteague, Virginia	29.96	761.0	29.98	761.5	72	22.2	84	e.	8	3.6		0	0			0	0	clear	V. P. Temple.
Cincinnati, Ohio	29.23	742.4	29.88	758.9	73	22.8	82	se.	5	2.2		7 k;c	0	s;sw		0.05	1.3	fair	R. B. Watkins.
Cleveland, Ohio	29.16	740.7	29.89	759.2	61.6	16.4	66	se.	12	5.4			10 n			inap.	inap.	light rain	J. B. Newlin.
Coleman City, Texas	28.16	715.3	29.91	759.7	75	23.9	74	s.	10	4.5		0	0			0	0	clear	L. Dorman.
Columbus, Ohio	29.04	737.6	29.88	758.9	68	20.0	70	se.	3	1.3		6 k	4 ks	w.	sw.	0	0	cloudy	D. Cuthbertson.
Concho, Texas	28.02	711.7	29.89	759.2	75	23.9	69	s.	8	3.6		0	0			0	0	clear	W. W. McConihe.
Davenport, Iowa	29.04	737.6	29.68	753.9	73	22.8	97	w.	4	1.8			10 n		calm	0.34	8.6	lightrain	R. R. Martin.
Dayton, Washington T'y	28.24	717.3	29.98	761.5	52	11.1	83	s.	1	0.4		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.34	643.6	29.76	755.9	60	15.6	84	s.	4	1.8		5ck;cs	0	w.		0	0	fair	G. W. Scott.
Decatur, Texas					84	28.9	67	s.	10	4.5		0	3 s			0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	29.97	761.2	29.99	761.7	64	17.8	90	se.	12	5.4		2 c	0			0	0	clear	F. C. Pratz.
Denison, Texas	29.12	739.6	29.90	759.4	77.6	25.3	74	s.	10	4.5		0	0			0	0	clear	J. McGlone.
Denver, Colorado	24.75	628.6	29.79	756.7	64.0	17.8	81	s.	3	1.3		4 c	0	s.		0.02	0.5	fair	F. M. Neal.
Des Moines, Iowa	28.79	731.3	29.67	753.6	74	23.3	84	sw.	4	1.8		7 ck	3 s	sw.	sw	0.82	20.8	cloudy	F. W. Conrad.
Detroit, Michigan	29.13	739.9	29.82	757.4	69.2	20.7	70	se.	12	5.4			10 n		s.	0.01	0.3	light rain	C. F. R. Wappenhans.
Dodge City, Kansas	27.25	692.1	29.76	755.9	72	22.2	84	n.	5	2.2		0	0			0.05	1.3	clear	E. A. Thomas.
Dubuque, Iowa	28.93	734.8	29.62	752.3	73.7	23.2	85	sw.	5	2.2		8cs;ck	2 k	w.	sw.	0.84	21.3	cloudy	J. Harvey Smith.
Duluth, Minnesota	28.95	735.3	29.64	752.8	51	10.6	93	e.	2	0.9			10n;fog		calm	1.01	25.7	light rain	N. B. Conger.
Eagle Pass, Texas	29.14	740.1	29.93	760.2	78.0	25.6	69	se.	9	4.0		1 cs	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.28	642.1	29.37	758.7	55	12.8	55	s.	8	3.6		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.75	755.6	29.82	757.4	55.0	12.8	74	nw.	9	4.0			10 s		nw.	0.13	3.3	cloudy	D. C. Murphy.
El Paso, Texas	26.24	666.5	29.83	757.7	72	22.2	59	nw.	4	1.8		4 cs	0	calm		0	0	fair	J. F. Marshall.
Erie, Pennsylvania	29.19	741.4	29.91	759.7	63	17.2	63	s.	15	6.7		10 cs	0	sw.		0	0	cloudy	Peter Wood.
Escanaba, Michigan	28.99	736.3	29.64	752.8	54	12.2	93	e.	10	4.5			10 s		e.	0.92	23.4	cloudy	C. Dill.
Fort Apache, Arizona	25.03	635.8	29.78	756.4	62	16.7	90	e.	1	0.4		0	6 s		calm	0.18	4.6	fair	W. C. Barnes.
Fort Assinnaboine, Montana	27.09	688.1	29.88	758.9	59	15.0	60	sw.	9	4.0		0	0			0	0	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.21	716.5	29.75	755.6	65	18.3	93	nw.	1	0.4		4 k	2 s	nw.	nw.	0	0	fair	A. Pritchard.
Fort Benton, Montana	27.12	688.8	29.89	759.2	59	15.0	72	w.	2	0.9		0	1 k			0	0	clear	G. W. Davis.
Fort Buford, Dakota	27.82	706.6	29.78	756.4	60	15.6	78	ne.	2	0.9		2 ck	fg.	calm	calm	0	0	fair	A. H. Bell.
Fort Custer, Montana	26.75	679.4	29.81	757.2	63	17.2	90	w.	2	0.9		0	0			0	0	clear	V. Verge.
Fort Davis, Texas	25.15	638.8	29.76	755.9	71	21.7	46	calm	0	0		0	0			0	0	clear	J. Williams.
Fort Elliott, Texas	27.12	688.8	29.79	756.7	72	22.2	48	s.	20	8.9		0	0			0	0	clear	W. J. Cundall.
Fort Grant, Arizona	25.21	640.3	29.75	755.6	63.4	17.4	78	ne.	5	2.2		1 cs	0			0	0	clear	Robert C. Lord.
Fort Keogh, Montana	27.34	694.4	29.77	756.1	60	15.6	87	calm	0	0		0	0			0	0	clear	W. B. Stockman.
Fort Macon, North Carolina	29.89	759.2	29.90	759.4	81	27.2	91	se.	7	3.1			10 ks		sw.	0	0	cloudy	W. W. Thomas.
Fort McKavett, Texas	27.78	706.6	29.98	761.5	72	22.2	71	s.	7	3.1		0	0			0	0	clear	J. E. Thatcher.
Fort Missoula, Montana	26.73	678.9	29.99	761.7	56	13.3	69	se.	1	0.4		0	0			0	0	clear	J. H. Jones.
Fort St. Michaels, Alaska	29.74	755.4	29.77	756.1	53	11.7	73	sw.	8	3.6		0	5 ks		sw.	0	0	fair	A. P. Leavitt.
Fort Shaw, Montana	26.35	669.3	29.92	760.0	54	12.2	69	w.	5	2.2		0	0			0	0	clear	A. L. Mathews.
Fort Sill, Indian Territory	28.65	727.7	29.85	758.2	76.5	24.7	70	s.	7	3.1		0	0			0	0	clear	T. Cleary.
Fort Smith, Arkansas	29.42	747.3	29.88	758.9	75.5	24.2	85	calm	0	0		6 cs	0	w.		0	0	fair	J. B. Campbell.
Fort Stevenson, Dakota	27.95	709.9	29.75	755.6	65	18.3	84	nw.	2	0.9		0	0			0	0	clear	W. Burrows
Fort Verde, Arizona					70.2	21.2	71	sw.			1	0	0			0.21	5.3	clear	D. Brooks.
Fort Washakie, Wyoming	24.50	622.3	29.88	758.9	56.2	13.4	60	sw.	5	2.2		0	0			0	0	clear	T. M. Ambler.
Fredericksburg, Texas	28.25	717.5	29.93	760.2	72	22.2	90	sw.	6	2.7		0	0			0	0	clear	H. S. Miles.
Galveston, Texas	29.95	760.7	30.00	762.0	83	28.3	77	sw.	16	7.2		0	7 k		sw.	0	0	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.00	736.6	29.65	753.1	66.5	19.2	92	se.	6	2.7			10 n		se.	0.46	11.7	heavy rain	W. A. Reid.
Hatteras, North Carolina	29.89	759.2	29.91	759.7	79	26.1	91	se.	14	6.3		9 k	0	sw.		0	0	cloudy	R. M. Crawford.
Helena, Montana	25.78	654.8	29.90	759.4	60	15.6	52	sw.	7	3.1		0	0			0	0	clear	S. Wheaton.
Henrietta, Texas	28.92	734.6	29.90	759.4	83.0	28.3	63	s.	6	2.7		0	0			0	0	clear	J. W. Byram.
Huron, Dakota	28.36	720.3	29.70	754.4	66.7	19.3	90	nw.	8	3.6		1 cs	0	nw.		0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.02	737.1	29.80	756.9	75	23.9	79	s.	6	2.7			10 s		s.	inap.	inap.	cloudy	O. Schutze
Indianola, Texas	29.95	760.7	29.98	761.5	80.0	26.7	82	s.	7	3.1		3 cs	2 ks	se.	s.	inap.	inap.	fair	I. A. Reed.
Jacksboro, Texas	28.77	730.7	29.89	759.2	80	26.7	67	s.	10	4.5		0	0			0	0	clear	J. P. Sherry.
Jacksonville, Florida	29.95	760.7	29.99	761.7	83	28.3	72	sw.	3	1.3		2 cs	0			0	0	clear	J. W. Smith.
Keokuk, Iowa	29.07	738.4	29.71	754.6	78.0	25.6	88	w.	2	0.9			10 s		w.	0	0	cloudy	F. Z. Gosewisch
Key West, Florida	30.05	763.3	30.07	763.8	85.0	29.4	65	se.	7	3.1		0	hz.			0	0	clear	R. H. Paxton.
Kittyhawk, North Carolina	29.96	761.0	29.98	761.5	71	21.7	94	e.	14	6.3		0	8 n;ks		e.	0.40	10.2	light rain	E. A. Beals.
Knoxville, Tennessee	28.96	735.6	29.97	761.2	70.3	21.3	100	calm	0	0			10s;fg			0.46	11.7	cloudy	J. A. Cody.
La Crosse, Wisconsin	28.83	732.3	29.59	751.6	70	21.1	78	sw.	4	1.8		2 cs	5 s	w.		1.14	29.0	fair	S. C. Emery.
La Mesilla, New Mexico	26.06	661.9	29.78	756.4	66.5	19.2	77	calm	0	0		5 c	3 s	sw.		0	0	cloudy	N. D. Lane.
Leavenworth, Kansas	28.87	733.3	29.74	755.4	78	25.6	76	s.	3	1.3		3 k	4 ks	w		0.25	6.3	fair	A. W. Browne.
Lewiston, Idaho	29.13	739.9	29.95	760.7	62.5	16.9	56	e.	1	0.4		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.58	751.3	29.89	759.2	79	26.1	77	sw.	3	1.3		0	9 s			0	0	cloudy	W. U. Simmons.
Los Angeles, California	29.55	750.6	29.94	760.5	57.1	13.9	80	sw.	4	1.8			10 s		calm	0	0	cloudy	E. F. Kubel.
Louisville, Kentucky	29.28	743.7	29.83	757.7	74	23.3	97	se.	7	3.1			fg.			0.15	3.8	dense fog	H. C. Smyth.
Lynchburg, Virginia	29.29	744.0	29.96	761.0	70.5	21.4	84	w.	1	0.4			10 s		ne.	0.56	14.2	cloudy	W. R. Bushby.
Madison, Wisconsin	28.64	727.4	29.64	752.8	68	20.0	93	sw.	16	7.2			10 s		se.	2.19	55.6	cloudy	C. A. Shaw.
Marquette, Michigan	28.94	735.1	29.66	753.4	54	12.2	86	se.	12	5.4			10 s		s.	0.69	17.5	cloudy	J. Gilligan.
Memphis, Tennessee	29.59	751.6	29.92	760.0	83	28.3	80	calm	0	0		4 cs	0			0	0	fair	D. T. Flannery.

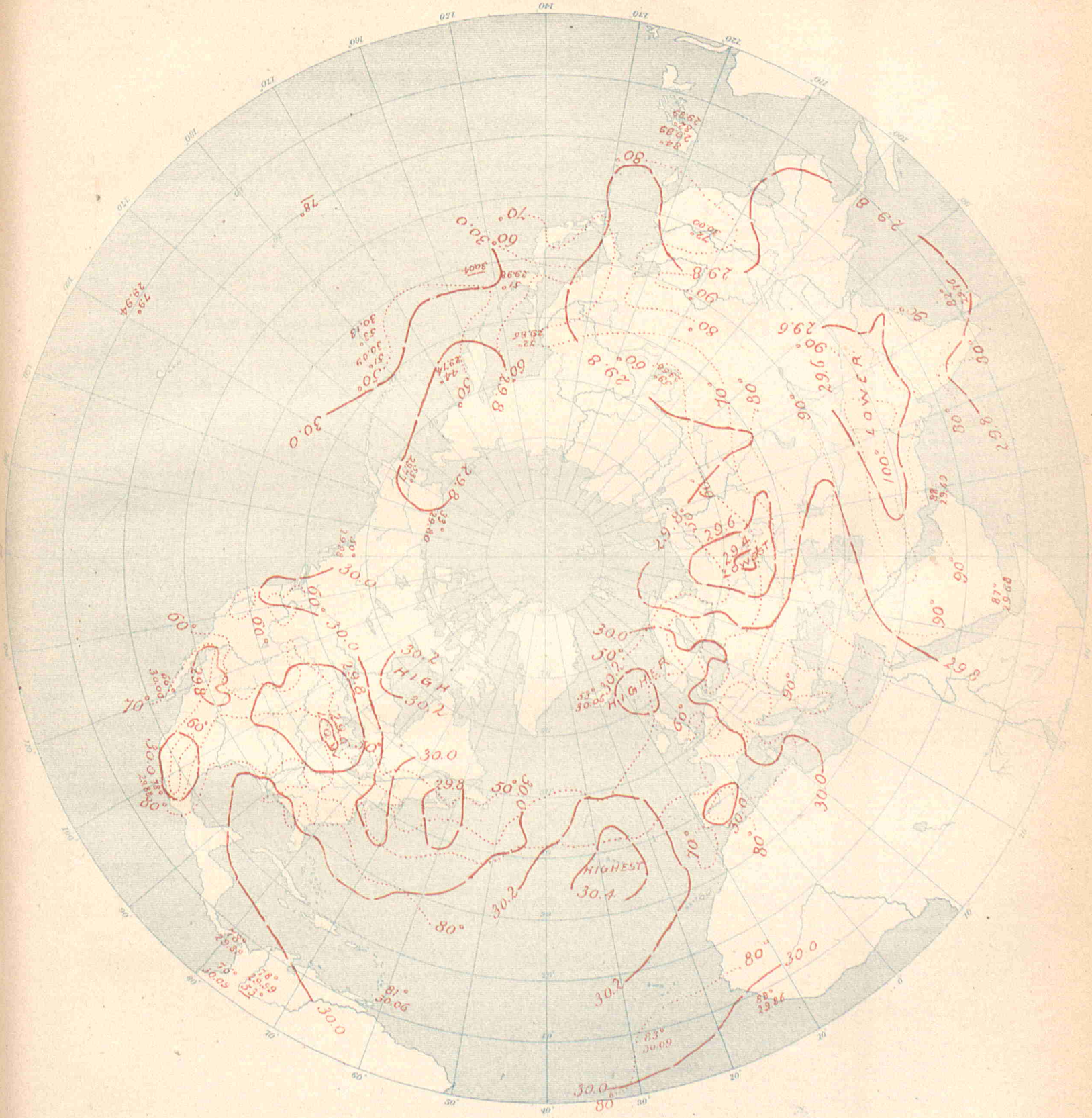
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	28.86	733.0	29.60	751.8	66	18.9	100	se.	11	4.9			10 n		w.	0.48	12.2	light rain	W. Line.
Mobile, Alabama	29.99	761.7	30.03	762.7	79	26.1	91	w.	4	1.8		9ck;cs	0	sw.		1.18	30.0	cloudy	J. D. Paxton.
Montgomery, Alabama	29.77	756.1	30.00	762.0	77	25.0	82	sw.	4	1.8		1 ck	3 ks			0	0	fair	J. B. McLaughlin.
Moorhead, Minnesota	28.72	729.5	29.69	754.1	63	17.2	93	nw.	8	3.6			10 s		nw.	0	0	cloudy	H. Bessant.
Morgantown, W. Virginia	28.92	734.6	29.92	760.0	67.0	19.4	81	calm	0	0		8 k	fg.	w.		0	0	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.70	602.0	29.82	757.4	30.0	— 1.1	92	nw.	46	20.6			fg.		nw.	0.05	1.3	dense fog	J. G. Linsley.
Nashville, Tennessee	29.38	746.2	29.90	759.4	81.0	27.2	79	w.	1	0.4		3 cs	0	w.		0.15	3.8	clear	L. A. Jesunofsky.
New Haven, Connecticut	29.90	759.4	30.01	762.2	58	14.4	64	n.	5	2.2		8 c	0	nw.		0	0	cloudy	J. H. Sherman.
New London, Connecticut	29.93	760.2	29.98	761.5	64	17.8	58	nw.	3	1.3		2 c	4 k	sw.		0	0	fair	J. G. Lynch.
New Orleans, Louisiana	29.98	761.5	30.03	762.7	81.8	27.7	75	s.	3	1.3		8 c	sk.	nw.		0.05	1.3	cloudy	L. Dunne.
Newport, Rhode Island	29.93	760.2	29.98	761.5	63.2	17.3	56	n.	9	4.0		1 c	0	nw.		0	0	clear	W. McGillivray.
New River, N. Carolina					83	28.3	81	calm			0	3 ck	3 ks	w.		0	0	fair	C. C. Corbin.
New Shoreham, Rhode I'd.	29.96	761.0	30.00	762.0	61.5	16.4	50	n.	10	4.5		3 cs	0	ne.		0	0	clear	W. Davis.
New York, New York	29.87	758.7	30.04	763.0	64	17.8	43	ne.	11	4.9		4 cs	0	w.		0	0	fair	J. B. Merrill.
Norfolk, Virginia	29.96	761.0	29.99	761.7	68	20.0	90	se.	9	4.0			10 s			0.21	5.3	cloudy	J. T. Elker.
North Platte, Nebraska	26.97	685.0	29.77	756.1	67.1	19.5	87	w.	5	2.2		0	2 s			0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.01	762.2	30.05	763.3	58.0	14.4	86	nw.	1	0.4		10 k	0	n.		0	0	cloudy	J. Dascomb.
Omaha, Nebraska	28.55	725.2	29.69	754.1	74.2	23.4	97	nw.	5	2.2			10n;fg			0.02	0.5	light rain	A. Pollak.
Ooglanmie, Pt. Barrow, Alas.	29.78	756.4	29.80	756.9	33.0	0.6	100	ene.	6	2.7			fg.			0	0	dense fog	P. H. Ray.
Oswego, New York	29.68	753.9	30.00	762.0	61.0	16.1	60	se.	3	1.3		8 cs	0	nw.		0	0	cloudy	S. W. Beall.
Palestine, Texas	29.45	748 0	29.99	761.7	77.5	25.3	82	sw.	6	2.7		6 k	0	sw.		0	0	fair	L. M. Pindell.
Pensacola, Florida	30.00	762.0	30.03	762.7	80.8	27.1	91	sw.	2	0.9			10 s		w.	0.12	3.0	cloudy	M. McGauran.
Philadelphia, Pa.	29.93	760.2	30.03	762 7	68	20.0	61	ne.	6	2.7		0	0			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.99	456.9	29.81	757.2	33.5	0.8	92	ne.	19	8.5			9 s		ne.	0.46	11.7	cloudy	L. M. Dey.
Pioche, Nevada	24.10	612.1	29.90	759.4	56.2	13.4	83	sw.	1	0.4		10 k	0	s.		0.05	1.3	cloudy	C. N. Kitchel.
Pittsburg, Pennsylvania	29.11	739.4	29.90	759 4	64.9	18.3	68	ne.	4	1.8		10 ck	0	w.		0	0	cloudy	J. H. Bryce.
Poplar River, Montana	27.67	702.8						nw.			1	0	0			0	0	clear	U. D. Maxwell.
Port Eads, Louisiana	30.07	763.8	30.08	764.0	80.0	26.7	82	sw.	12	5.4		0	0			0	0	clear	H. G. Christian.
Port Huron, Michigan	29.13	739.9	29.80	756.9	64.8	18.2	75	s.	14	6.3			10 s			0	0	cloudy	W. O. Bailey.
Portland, Maine	29.87	758.7	29.92	760.0	61.0	16.1	53	n.	11	4.9		4 c	0	n.		0	0	fair	W. W. Eichelberger.
Portland, Oregon	29.96	761.0	30.03	762.7	62.0	16.7	84	n.	5	2.2			10 s		n.	0	0	cloudy	M. L. Hearne.
Portsmouth, N. Carolina																			F. P. Chaffee.
Prescott, Arizona	24.82	630.4	29.84	757.9	60	15.6	90	s.	2	0.9			10 s		s.	0.02	0.5	cloudy	J. McN. Wright.
Provincetown, Mass.	29.92	760.0	29.95	760.7	61	16.1	65	nw.	9	4.0		2 cs	0	nw.		0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.04	763.0	30.05	763.3	84	28.9	63	sw.	6	2.7		3 c	0	calm		0	0	clear	W. J. Evans.
Red Bluff, California	29.45	748.0	29.81	757.2	69.9	21.1	55	w.	1	0.4		0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.72	754.9	29.95	760.7	80	26.7	74	se.	7	3.1		0	0			0	0	clear	P. M. Wilson.
Rochester, New York	29.34	745.2	29.99	761.7	57	13.9	75	e	4	1.8			10s;fg			0	0	cloudy	E. W. McGann.
Roseburg, Oregon	29.46	748.3	30.01	762.2	56.7	13.7	81	calm	0	0		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	29.71	754 6	29.78	756.4	63.7	17.6	68	s.	6	2.7		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.22	742.2	29.81	757.2	79.0	26.1	82	s.	9	4.0			10 s		w.	0	0	cloudy	J. H. Webber.
St. Paul, Minnesota	28.74	730.0	29.59	751.6	71.0	21.7	90	sw.	5	2.2		0	1 s			0.09	2.3	clear	P. F. Lyons
St. Vincent, Minnesota	28.82	732.0	29.67	753.6	60	15.6	87	nw.	7	3.1			10 s		nw.	1.14	29 0	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.66	651.8	29.88	758.9	64	17.8	54	calm	0	0		0	0			inap.	inap.	clear	J. Craig.
San Antonio, Texas	29.27	743.4	29.95	760 7	77	25.0	85	calm	0	0			9 ks		se.	0	0	cloudy	E. Lane.
San Diego, California	29.81	757.2	29.88	758.9	62.4	16.9	77	sw.	3	1.3			10 s			0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.16	740.7	29.83	757.7	68	20.0	66	se.	12	5.4			10 s			0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.00	762.0	30.04	763.0	61.0	16.1	84	ne.	7	3.1		5 ck	0	ne.		0	0	fair	B. A. Blundon.
San Francisco, California	29.80	756.9	29.86	758.4	54	12.2	93	sw.	9	4.0			fg.		sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.31	592.1	29.82	757.4	54	12.2	74	ne.	1	0.4		6 ck	0	s.		0	0	fair	H. U. Jones.
Savannah, Georgia	29.87	758.7	29.96	761.0	80	26.7	77	w.	9	4.0		6 ck	0	w.		1.64	41.7	fair	H. W. Ford.
Shreveport, Louisiana	29.74	755.4	29.97	761.2	78	25.6	88	s.	3	1.3		2 c	0			0	0	clear	E. N. Meekins.
Silver City, New Mexico	24.31	617.5	29.81	757.2	61	16.1	70	s.	2	0.9		5 cs	0	calm		0.04	1.0	fair	J. B. Wallace.
Sitka, Alaska	29.92	760.0	29.98	761.5	49.6	9.8	84	ne.	3	1.3			10 ks		sw.	0.09	2.3	threatening	J. J. McLean.
Smithville, North Carolina	29.87	758.7	29.91	759.7	80	26.7	82	w.	4	1.8		7 cs	0	w.		0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.92	709.2	29.96	761.0	60	15.6	72	w.	5	2.2		0	0			0	0	clear	D. Moore.
Springfield, Illinois	29.09	738.9	29.76	755.9	78.5	25.8	81	sw.	8	3.6		4 cs	6 s	w.	w.	0	0	cloudy	T. B. Jennings.
Springfield, Massachusetts	29.88	758 9	30.01	762.2	63.8	17.7	68	n.	1	0.4		4 c	0	w.		inap.	inap.	fair	T. S. Outram.
Springfield, Mo.	28.48	723.4	29.94	760.5	77	25.0	82	s.	2	0.9		8 cs	0			0	0	cloudy	J. B. Marbury.
Starkville, Miss.	29.50	749.3	29.98	761.5	81.2	27.3	79	sw.	10	4.5		2 c	0			0.03	0.8	clear	M. J. Wright.
Stockton, Texas	26.94	684.3	29.86	758.4	72.0	22.2	90	se.	12	5.4		0	0			0	0	clear	J. O'Dowd.
Thatcher's Island, Mass.	29.91	759 7	29.96	761.0	61.0	16.1	78	nw.	14	6.3		2 c	0	nw.		0	0	clear	G. Liebmann.
Toledo, Ohio	29.14	740.1	29.82	757.4	67	19.4	68	se.	4	1.8			10 n		sw.	inap.	inap.	light rain	A. Buell.
Tucson, Arizona	27.47	697.7	29.77	756.1	70	21.1	90	calm	0	0		1 c	0			0.02	0.5	clear	J. L. Whiteside.
Umatilla, Oregon	29.61	752.1	29.97	761.2	62	16.7	72	e.	3	1.3		0	0			0	0	clear	J. Daly.
Uvalde, Texas	29.00	736.6	29.94	760.5	75	23.9	82	calm	0	0			10 s		s.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.76	755.9	30.01	762.2	81	27.2	79	sw	2	0.9		3 c	0			0	0	fair	H. P. Brisbane.
Visalia, California																			W. L. Seward.
Washington, D. C.	29.88	758.9	29.99	761.7	69.5	20.8	92	e.	4	1.8			10 s		e.	0	0	cloudy	B. M. Purssell.
West Las Animas, Colorado	26.01	660.6	29.79	756.7	63.9	17.7	90	nw.	4	1.8		0	1 s		calm	0.08	2.0	clear	F. W. Brandenburg.
Williamsport, Pa.	29.43	747.5	30.03	762.7	60.5	15.8	71	e.	1	0.4			10 ks		w.	0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	29.84	757.9	29.89	759.2	80	26.7	79	calm	0	0		9 cs	0			0	0	cloudy	A. T. Sherwood.
Winnemucca, Nevada	25.61	650.5	29.87	758.7	58	14.4	44	ne.	8	3.6		0	0			0	0	clear	J. R. Williams.
Yankton, Dakota	28.44	722.4	29.72	754.9	72	22.2	82	nw.	10	4.5		0	0			0	0	clear	J. H. Atfield.
Yuma, Arizona	29.60	751.8	29.74	755.4	79.7	26.5	61	e.	2	0.9			1 ks			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.05	560.1			52.5	11.4	82	calm	0	0			10ks;s			0.01	0.3	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.05	763.3	30.06	763.5	81	27.2	91	e.				5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	30.06	763.5	30.09	764.3	76	24.4	95	s.	4	1.8			10 n		s.	1.70	43.2	raining	J. I. Plume.
Havana, Cuba, W. I.																			A. Van Caneghem.
Kingston, Jamaica, W. I.	30.01	762.2	30.02	762.5	81.8	27.7	85	e.	2	0.9			10 s		e.	0.24	6.1		Robert Johnston.
Magua, San Domingo, W. I.					70	21.1		calm			0	0	0			0	0		S. M. Pike.
Paramaribo, S. A.	30.06	763.5	30.07	763.8	79	26.1	87	e.			1	5 ck	5 k	e.		0.300	7.6		Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.43	747.5	29.99	761.7	78	25.6	95	calm			0		10 ks		calm	0.23	5.8	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							95	ne.			1		10 n		w.	0.04	1.0	fair	Earl Flint.
Santiago de Cuba, W. I.	30.05	763.3	30.07	763.8	79	26.1	74	calm	0	0		1 c	0			0	0	clear	Robert Mason.
York Factory, B. A.	30.15	765.8	30.21	767.3	61.0	16.1	82	ne.	13	5.8		3 k	3 s	ne.	ne.	0.10	2.5	fair	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S. Alert, S. 34° 24′, E. 18° 30′	30.11	764.8	60.5	15.8	88	wsw.			2–3		8							misty.
H. M. S. Alexandra, Alexandria, Egypt	29.96	761.0	78.5	25.8	76	w.			3		2					1	wnw.	misty.
H. M. S. Amethyst, Montevideo, Uruguay	30.22	767.6	51.5	10.8	86	se.			3		1							blue sky.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	30.02	762.5	70	21.1		nnw.			4		4	nnw.						d. clouds.
H. M. S. Arab, Muscat Arabia	29.59	751.6	88	31.1	80	se.			2		4							misty.
H. M. S. Bacchante, Cagliari, Sardinia	30.01	762.2	76	24.4	81	sse.			3		2	wsw.						d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.13	765.3	63	17.2		calm			0		0							blue sky.
H. M. S. Champion, N 19° 30′ E. 172° 02′			78	25.6		e.			3		10					3	e.	d. clouds.
H. M. S. Coquette, Port Said, Egypt	29.91	759.7	78	25.6		nw.			2		0							blue sky.
H. M. S. Cruiser, N. 35° 58′, E. 14° 35′	30.03	762.7	79	26.1		sw.			2		3	sw.				2	sw.	d. clouds.
H. M. S. Diamond, S. 9° 08′, E. 160° 00′	29.91	759.7	79	26.1	82	calm			0		8	ne.						d. clouds.
H. M. S. Dido, N. 13′, 05° W. 59° 30′	30.07	763.8	79	26.1		ene.			3		4	e.						d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	29.95	760.7	78	25.6	93	sw.			2–3		6	sw.						d. clouds.
H. M. S. Druid, N. 18° 42′, W. 74° 33′	30.07	763.8	81.5	27.5	93	e.			3–4		1					2	e.	blue sky.
H. M. S. Dwarf, S. 30° 19′, W. 59° 30′	30.04	763.0	49.5	9.7	93	e.			1		7					1	e.	d. clouds.
H. M. S. Eclipse, S. 4° 34′, E. 55° 03′	30.00	762.0	79	26.1		ese.			3		7					5	ese.	d. clouds.
H. M. S. Emerald, S. 29° 50′ W. 24° 00′	30.11	764.8	67	19.4	100	ne.			3		10	ne.				2	nne.	drizzling.
H. M. S. Euryalus, Trincomalee, Ceylon, India	29.76	755.9	82	27.8	87	sw.			2		7	calm						d. clouds.
H. M. S. Espiegle, S. 17° 35′ E. 168° 16′	30.02	762.5	72	22.2	100	e.			1		3							d. clouds.
H. M. S. Fawn, S. 25° 57′, E. 32° 51′	30.23	767.8	71.5	21.9	67	ne.			2		1							blue sky.
H. M. S. Flying Fish, N. 32° 44′, E. 129° 52′	29.79	756.7	72.5	22.5	88	e.			1		7							drizzling.
H. M. S. Gannet, S. 23° 06′, W. 70° 29′	30.13	765.3	53	11.7	79	s.			2–3		6							d. clouds.
H. M. S. Garnet, S. 27° 00′, W. 30° 00′	30.09	764.3	70	21.1	84	n.			2		4					2	cross	d. clouds.
H. M. S. Griffon, N. 49° 54′, W. 55° 53′	30.08	764.0	45	7.2	92	calm			0		10					6	nnw.	drizzling.
H. M. S. Inconstant, N. 33° 00′ W. 10° 20′	30.06	763.5	69	20.6	84	nne.			4–5		5	n.				4	n.	squally.
H. M. S. Iron Duke, N. 35° 26′, E. 139° 39′	29.87	758.7	70	21.1	90	ssw.			1		3	sw.						d. clouds.
H. M. S. Kingfisher, N. 23° 26′ W. 110° 50′	30.00	762.0	66	18.9		nw.			2–3		1					2	s.	blue sky.
H. M. S. Lark, S. 10° 40′, E. 162° 22′	29.95	760.7	81.3	27.4		ese.			2		8					2	e.	d. clouds.
H. M. S. Magpie, N. 35° 00′, E. 139° 43′	29.88	758.9	71.5	21.9	80	sse.			1		6	sw.				2	*s.	d. clouds.
H. M. S. Minotaur, Malta, Mediterranean	30.07	763.8	79	26.1	65	w.			1		1	wsw.						blue sky.
H. M. S. Nelson, S. 36° 50′, E. 174° 49	30.04	763.0	58	14.4	100	calm			0		2	ne.						d. clouds.
H. M. S. Northampton, Halifax, Nova Scotia	29.70	754.4	53.5	11.9	93	nnw.			3		10	nnw.						misty.
H. M. S. Rambler, S. 16° 00′, W. 4° 08′	30.15	765.8	68	20.0	90	ese.			3		8	ese.				2	sse.	d. clouds.
H. M. S. Rocket, N. 48° 50′, W. 125° 30′	30.00	762.0	54	12.2	93	wsw.			3		2							d. clouds.
H. M. S. Sappho, S. 24° 58′, W. 128° 00′	30.29	769.4	70.5	21.4		nnw.			3–4		2	calm				2	nw.	d. clouds.
H. M. S. Swiftsure, S. 18° 20′, W. 36° 25′	30.10	764.5	77.5	25.3	86	ese.			2		3	sse				2	sse.	d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	30.27	768.8	50.5	10.3	86	se.			4		2	se.						d. clouds.
H. M. S. Tenedos, N. 47° 48′ W. 58° 23′	29.88	758.9	54	12.2	93	e.			3		10							misty.
H. M. S. Triumph, Valparaiso, Chili	30.11	764.8	53	11.7	93	nw.			1		8	ne.						d. clouds.
H. M. S. Tyne, N. 38° 43′, W. 47° 00′	30.10	764.5	75	23.9	95	sw.			4		8	sw.				4	sw.	showery.
H. M. S. Woodlark, Bassorah, Asiatic, Turkey	29.55	750.6	102.5	39.5	34	nw.			2–3		0							misty.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verde Islands	30.14	765.6	78.8	26.0	95	sw.			2		2					2		d. clouds.
Tamega, Macao, China	29.86	758.4	84.2	29.0	85	ssw.			3*		5			4 h'r	4 h'r			d. clouds.
Swedish Naval.																		
Saga, N. 56° 10′, W. 11° 31′	30.16	766.0	58.8	14.9	83	se.			2		5							
United States Naval.																		
Navy Yard, Pensacola, Fla	29.99	761.7	82	27.8	87	wsw.	3	1.3			8		sw.	0	0			misty.
Navy Yard, Portsmouth, N. H.	29.95	760.7	60	15.6	60	nw.	6	2.7			3		nw.	0	0			fair.
Naval Hospital, Yokohama, Japan*	29.77	756.1	70	21.1	87	s.			1		5		w.	0	0			fair.
Adams, Mare Island, Cal	29.97	761.2	59	15.0	94	sw.			2		5			0	0			fair.
Alaska, Callao, Peru	30.03	762.7	59	15.0	94	calm			0		10			0	0	sm'h		cloudy.
Alert, N. 42° 43′, E. 177° 14′*	29.98	761.5	53	11.7	93	e.			2		10		sw.	0	0	sm'h		hazy.
Alliance, Boston, Mass	29.98	761.5	60	15.6	71	nnw.			1		2			0	0			clear.
Ashuelot, Yokohama, Japan	29.85	758.2	72	22.2	90	sw.			1		8		wnw.					cloudy.
Brooklyn, Rio de Janeiro, Brazil	29.93	760.2	68	20.0	95	ne.	2	0.9			8		calm	0	0	sm'h		fair.
Colorado, New York, N. Y	30.02	762.5	62	16.7	72	ne.	2	0.9			8		nw.	0	0			cloudy.
Constellation, N. 37° 01′, W. 75° 45′*	29.98	761.5	71	21.7	75	ene.			3		10		ene.					cloudy.
Enterprise, Norfolk, Va*	29.97	761.2	69	20.6	95	se.			2		10		se.					drizzling.
Essex, Sandy Point, Patagonia	29.49	749.0	46	7.8	84	nnw.			1		10		nnw.			sm'h	nw.	overcast.
Franklin, Norfolk, Va	30.01	762.2	68	20.9	95	se.	6	2.7			10		se.	0.12	3.0			rainy.
Galena, Alexandria, Egypt	29.97	761.2	76	24.4	95	nnw.			2		0					sm'h		clear.
Independence, Navy Yard, Mare Island, Cal	29.92	760.0	56	13.3	87	sw.			3		8		sw.	0	0			cloudy.
Iroquois, San Francisco, Cal	29.95	760.7	54	12.2	93	sw.			2		10			0	0			overcast.
Kearsarge, Norfolk, Va	30.00	762.0	69	20.6	90	e.			2		10							cloudy.
Lackawanna, S. 11° 39′, W. 77° 50′*	30.06	763.5	61	16.1	82	e.			1		10							cloudy.
Lancaster, Alexandria, Egypt*	29.95	760.7	77	25.0	82	wnw.			2		0			0	0			clear.
Marion, S. 34° 54′, W. 56° 13′	30.21	767.3	52	11.1	100	se.			4		0			0	0	mod.	se.	clear.
Michigan, Detroit, Mich	29.80	756.9	65	18.3	84	e.			1		10		e.					raining.
Minnesota, Newport, R. I	30.05	763.3	62	16.7	66	n.	5	2.2			2							clear.
Monocacy, Chusan, Archepelago, China	29.81	757.2	70	21.1	75	nnw.			1		8		nnw.					fair.
New Hampshire, Newport, R. I	29.90	759.4	62	16.7	94	nw.			2		2					sm'h		fair.
Nipsic, Corfu, Ionian Islands	30.00	762.0	80	26.7	78	e.			2		2					sm'n		clear.
Onward, Callao, Peru†	30.17	766.3	59	15.0	94	sse.			1		10					long	v	cloudy.
Palos, Kobe, Japan	29.86	758.4	72	22.2	90	calm			0		10		calm					cloudy.
Passaic, Washington, D. C	29.99	761.7	73	22.8	95	ne.			2		5		sw.					fair.
Pensacola, S. 8° 03′ W. 81° 08′	30.05	763.3	63	17.2	83	ese.			5		8		ese.	0	0	long	s.	cloudy.
Powhatan, N. 28° 07′, W. 80° 10′	30.04	763.0	81	27.2	87	wsw.			1		8		sw.			sm'h		fair.
Portsmouth, N. 47° 44′ W. 5° 42′*	30.09	764.3	63	17.2	89	ne.			2		8		ne.			sm'h		
Quinnebaug, N. 33° 00′, E. 26° 06′	29.98	761.5	77	25.0	73	wnw.			2		0					sm'h		clear.
Ranger, Mare Island, Cal*	29.83	757.7	58	14.4	88	s.			3		5		s.	0	0	sm'h		fair.
Richmond, Yokohama, Japan*	29.83	757.7	74	23.3	86	s.			1		5		w.	0	0			fair.
Saratoga, N. 47° 46′ W. 5° 57′	30.09	764.3	61	16.1	94	ne.			2		8		ne.	0	0	sm'h		cloudy
St. Louis, League Island, Pa	30.23	767.8	65	18.3	100	ne.	5	2.2			2			0	0			clear.
Swatara, Yokoama, Japan*	29.74	755.4	72	22.2	80	s.			1		2		sw.			sm'h		fair.
Tennessee, Off New York, N. Y	30.07	763.8	65	18.3	94	ne.	6	2.7			5			0	0			fair.
Vandalia, Portsmouth, N. H*	29.92	760.0	64	17.8	83	nnw.			2		0							clear.
Wabash, Boston, Mass	29.96	761.0	62	16.7	66	nw.	4	1.8			2		nw.	0	0			clear.
Wachusetts, Juneau City, Alaska	29.86	758.4	48	8.9	92	w.			1		10			0	0	sm'h		cloudy.
Wyoming, Port Royal, S. C	29.93	760.2	79	26.1	78	w.	12	5.4			8		w.	0	0			cloudy.
Yantic, N. 41° 05′, W. 71° 30′*	29.96	761.0	60	15.6	71	n.			3		0					sm'h		clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Grecian, Montreal, Canada*	29.98	761.5	62	16.7	.....	nw.	.....	.....	2	.....	6	.....	wnw.	½ h'r	½ h'r	.....	.....	cloudy.
S. S. Nova Scotian, Halifax, N S.	29.61	752.1	51	10.6	.....	w.	.....	.....	3	.....	5	.....	nw.	.....	.....	.....	.....	fair.
S. S. Prussian, N. 43° 33′ W. 47° 41′*	29.85	758.2	62	16.7	.....	ssw.	.....	.....	2	.....	4	.....	sw.	5 h'r	5 h'r	long.	w.	foggy.
S. S. Scandinavian, N. 51° 27′ W. 9° 11′*	30.09	764.3	60	15.6	.....	w.	.....	.....	3	.....	5	.....	w.	o	o	sm'h	wsw.	d clouds.
S. S. Waldensian, N. 43° 08′, W. 49° 20′*	29.99	761.7	54	12.2	.....	s.	.....	.....	1	.....	fg	.....	s.	4 h'r	4 h'r	light	s.	foggy.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, N. 39° 05′, W. 71° 12′	29.95	760.7	66	18.9	94	ne.	.....	.....	3	.....	2	.....	ne.	.....	.....	.....	.....	very fine.
S. S. Indiana, N. 39° 43′ W. 57° 04′†	29.96	761.0	69	20.6	95	sw.	.....	.....	4	.....	10	.....	w.	.....	.....	mod.	sw.	heavy rain.
S. S. Lord Clive, N. 39° 45′ W. 63° 46′*†	29.88	758.9	.....	.....	.....	nw.	.....	.....	4	.....	1	.....	nw.	o	o	.....	.....	fine.
ANCHOR LINE.																		
S. S. Bolivia, N. 43° 20′, W. 43° 50′†	29.88	758.9	69	20.6	.....	wsw.	.....	.....	3	.....	8	.....	sw.	o	o	sm'h	sw.	cloudy.
S. S. Ethiopa, N. 45° 06′, W. 41° 20′	30.11	764.8	67	19.4	95	s.	.....	.....	3	.....	10	.....	s.	o	o	sm'h	.....	overcast.
S. S. Utopia, N. 41° 41′, W. 38° 17′†	30.43	772.9	74	23.3	68	s.	.....	.....	6	.....	10	.....	sw.	1 h'r	1 h'r	hv'y	sw.	light haze.
ATLAS LINE.																		
S. S. Ailsa, N. 10° 31′, W. 79° 00′.†	30.00	762.0	79	26.1	91	ne.	.....	.....	4	.....	2	.....	ne.	4 h'r	4 h'r	.....	.....	squally.
S. S. Alvena, St. Ann's Bay, Jamaica, W. I.†	29.91	759.7	.....	.....	.....	calm	.....	.....	0	.....	0	.....	.....	1 h'r	1 h'r	sm'h	ese.	fine.
S. S. Alvo, N. 31° 30′, W. 74° 07′	30.01	762.2	.....	.....	.....	ssw.	.....	.....	3	.....	3	.....	ssw.	1 h'r	1 h'r	sm'h	.....	fair.
S. S. Antillas, Aguadilla, Porto Rico, W. I*†	30.20	767.1	85	29.4	.....	e.	.....	.....	.....	.....	.....	.....	e.	o	o	.....	.....	fair.
BOSTON AND HALIFAX.																		
S. S. Carroll, Canso Light, N. S. †	29.86	758.4	61	16.1	.....	se.	.....	.....	4	.....	10	.....	.....	hv'y	hv'y	.....	.....	heavy rain.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 21° 00′, E. 81° 11′	30.14	765.5	70.5	21.4	80	s.	.....	.....	6	.....	9	.....	.....	.....	.....	.....	.....	d. clouds.
S. Baroda, S. 18° 30′, E. 61° 32′	30.20	767.1	72.7	22.6	72	s.	.....	.....	5	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
British Merchant, N 45° 04′ W 19° 56′	30.29	769.4	65	18.3	97	nnw.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	.....	misty.
S. S. Glencairn, N. 8° 36′, W. 28° 09′	30.09	764.3	82.7	28.2	81	se.	.....	.....	5	.....	2	.....	.....	.....	.....	.....	.....	blue sky.
S. S Gordon Castle, N. 25° 51′, E. 35° 11′	29.71	754.6	86.5	30.3	66	nw.	.....	.....	5	.....	0	.....	.....	.....	.....	.....	.....	blue sky
May Hulse, S. 30° 04′, W. 28° 38′	30.07	763.8	67.5	19.7	90	ene.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	showery.
S. S Minho, N. 49° 31′, W. 3° 48′.	30.13	765.3	65	18.3	86	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	misty.
S. S. Oamaru, S. 21° 05′, E. 59° 10′	30.28	769.1	77.5	25.3	82	ese.	.....	.....	6	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Pole Star, N. 3° 00′, W. 30° 19′	30.10	764.5	79.2	26.2	86	ese.	.....	.....	5	.....	3	.....	.....	.....	.....	.....	.....	blue sky.
CROMWELL LINE.																		
S. S. Hudson, N. 24° 30′, W. 81° 37′†	30.12	765.0	80	26.7	.....	e.	.....	.....	3	.....	1	.....	e.	o	o	mod.	e.	clear.
CUNARD LINE.																		
S. S. Marathon, N. 51° 14′, W. 13° 03′	30.15	765.8	64	17 8	.....	s.	.....	.....	1	.....	10	.....	s.	4 h'r	4 h'r	sm'h	wnw.	cloudy.
S. S. Scythia, N. 40° 42′, W. 63° 16′	29.81	757.2	65	18.3	100	wnw.	.....	.....	4	.....	1	.....	wnw.	o	o	sl't	wnw.	clear.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Ville de Marseilles, Marseilles, France*†	30.00	762.0	72	22.2	.....	w.	.....	.....	4	.....	5?	.....	w.	o	o	.....	.....	cloudy.?
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 46° 20°, W. 35° 30′ *†	30.22	767.6	.....	.....	.....	ssw.	.....	.....	4	.....	3	.....	sw.	o	o	sm'h	wnw.	misty.
S. S. Cimbria, N. 48° 58′, W. 25° 13′	30.28	769.1	58	14.4	.....	sw.	.....	.....	3	.....	10	.....	.....	o	o	mod.	sw.	foggy.
S. S. Herder, N. 41° 45′. W. 45° 35′*†	30.00	762.0	80	26.7	.....	wsw.	.....	.....	2	.....	1?	.....	wnw.	o	o	high	w.	cloudy.?
S. S. Lessing, New York, N. Y.	30.02	762.5	66	18.9	.....	ne.	.....	.....	1	.....	5?	.....	ne.	o	o	.....	.....	cloudy.?
S. S. Wieland, N. 49° 02′, W. 22° 37′	30.30	769.6	60.5	15.8	.....	w.	.....	.....	2	.....	10	.....	.....	o	o	2	wsw.	foggy.
JOHNSTON LINE.																		
S. S. Thanemore, N. 40° 57′ W. 59° 23′	29.61	752.1	.....	.....	.....	wsw.	.....	.....	4	.....	8	.....	w.	h'vy	h'vy	sl'gt	sw.	fair.
MALLORY LINE.																		
S. S. Colorado, New York, N. Y.†	29.98	761.5	62	16.7	.....	ne.	.....	.....	2	.....	0	.....	.....	o	o	.....	.....	clear.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, Rio de Janeiro, Brazil	.....	.....	.....	.....	.....	sw.	.....	.....	7	.....	.....	.....	sw.	o	o	.....	.....	clear.
S. S. Glenapp, N. 7° 58′, W. 51° 05′	.....	.....	.....	.....	.....	ene.	.....	.....	4	.....	7	.....	ne.	4 h'r	4 h'r	sm'h	.....	rainy.
NATIONAL LINE.																		
S. S. Canada, N. 46° 02′, W. 32° 50′.†	30.23	767.8	61	16.1	.....	var.	.....	.....	3	.....	9	.....	sw.	h'vy	hv'y	mod	s.	fine.
S. S. Denmark, London, Eng	30.14	765.5	58	14.4	.....	n.	.....	.....	2	.....	10	.....	nne.	1 h'r	1 h'r	.....	.....	gloomy.
S. S. Greece, N. 40° 37′, W. 64° 22′	29.81	757.2	.....	.....	.....	nw.	.....	.....	3	.....	2	.....	.....	o	o	sm'h	.....	clear.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, Cienfuegos, Cuba, W. I †	30.20	767.1	86	30.0	.....	calm	.....	.....	0	.....	1	.....	.....	o	o	.....	.....	fine.
S. S. Saratoga, N. 32° 00′, W. 78° 28′†	30.19	766.8	84	28.9	83	w.	.....	.....	4	.....	0	.....	.....	o	o	sm'h	.....	clear.
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, Campeche Roads, C. A.*†	30.01	762.2	79	26.1	86	se.	.....	.....	5	.....	8	.....	se.	o	o	small	se.	misty.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N. 40° 56′, W. 61° 37′*†	29.90	759.4	68	20.0	.....	wnw.	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	showery.
S. S. Maas, N. 49° 07′, W. 30° 36′*†	30.22	767.6	65	15.3	.....	wsw.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	w.	fine.
NORTH GERMAN LLOYD.																		
S. S. America, N. 46° 36′, W 31° 19′*	30.30	769.6	60.8	16.0	.....	sse.	.....	.....	2	.....	10	.....	sse.	4 h'r	4 h'r	mod.	s.	raining.
S. S. Elbe, N. 50° 41′, E. 0° 07′	30.12	765.1	62.6	17.0	90	sw.	.....	.....	1-2	.....	8	.....	.....	o	o	sm'h	...	foggy.
S. S. Habsburg, N. 49° 59′, W. 4° 48′	30.15	765.8	62.6	17.0	.....	n.	.....	.....	1-2	.....	2	.....	n.	o	o	long	wsw.	fair.
S. S. Hermann, N. 50° 08′, W. 4° 22′†	30.02	762.5	67.1	19.5	.....	w.	.....	.....	1	.....	2	.....	w.	o	o	high	w.	fair.
S. S. Oder, N. 41° 15′ W. 64° 55′	29.83	757.7	59.0	15.0	.....	w.	.....	.....	4	.....	4	.....	w.	o	o	sm'h	wnw.	fair.
S. S. Ohio, Bremerhaven, Germany	.....	.....	.....	.....	.....	nw.	.....	.....	5	.....	10	.....	nw.	o	o	.....	.....	covered.
S. S. Salier, N. 41° 03′, W. 44° 52′	30.11	764.8	64.4	18.0	.....	s.	.....	.....	4	.....	10	.....	ssw.	½ h'r	½ h'r	rg'h	sw.	raining.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Coptic, N 43° 59′ E. 166° 58′	29.99	761.7	43.0	6.1	.....	wsw.	.....	.....	1	.....	9	.....	wsw.	3 h'r	3 h'r	2	w.	heavy rain.
S. S. Gaelic, N. 47° 23′, E. 176° 50′†	30.09	764.3	51	10.6	45	e.	.....	.....	3	.....	10	.....	w.	.....	.....	sm'h	.....	overcast.
S. S. Oceanic, N. 29° 25′, E. 126° 49′*	29.71	754.6	79	26.1	90	ssw.	.....	.....	4	.....	8	.....	wsw.	.....	.....	2	sw.	showery.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y †	30.01	762.2	.....	.....	.....	nne.	.....	.....	1	.....	3	.....	.....	o	o	.....	.....	clear.
S. S. City of Columbus, N 33° 50′, W. 77° 22′†	29.95	760.7	.....	.....	.....	s.	.....	.....	2	.....	4	.....	sw.	.....	.....	light	sw.	hazy.
S. S. Seminole, N. 32° 45′, W. 79° 10′.†	30.02	762.5	86	30.0	76	sw.	.....	.....	1	.....	5	.....	w.	o	o	sm'h	wsw.	fair.
OREGON IMPROVEMENT COMPANY.																		
S. S. Willametta, N. 45° 16′ W 124° 40′†	30.11	764.8	56	13.3	94	n.	.....	.....	5	.....	10	.....	n.	o	o	mod.	n.	cloudy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Columbia, N. 42° 30′. W 124° 45′†	29.95	761.0	56	13.3	87	n.	.....	.....	4	.....	10	.....	nnw.	.....	.....	mod.	nw.	foggy.
S. S. Oregon, Columbia River, Oregon†	30.00	762.0	56	13.3	87	nnw.	.....	.....	2	.....	5	.....	nnw.	.....	.....	.....	.....	fair.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N 34° 29′, W. 120° 33′†	29.82	757.4	54	12.2	93	wnw.	.....	.....	3	.....	10	.....	nw.	.....	.....	sm'h	.....	cloudy.
S. S. Dakota, Esquaimault, Vancouver's I'd.*†	30.03	762.7	61	16.1	100	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. Idaho, San Francisco, Cal.†	29.86	758.4	54	12.2	87	nw.	.....	.....	3	.....	10?	.....	n.	.....	.....	mod.	nw.	clear?
S. S. State of California, San Francisco, Cal.†	29.85	758.2	52	11.1	93	wsw.	.....	.....	1	.....	5	.....	wsw.	.....	.....	.....	.....	fair.
S. S. Victoria, Nanaimo, Vancouver's Island†	29.96	761.0	60	15.6	88	calm	.....	.....	0	.....	5	.....	.....	.....	.....	sm'h	.....	fair.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, S. 33° 50′. E. 151° 18′	30.22	767.6	62	16.7	94	sw.	.....	.....	3	.....	5?	.....	sw.	o	o	sm'h	.....	clear?
S. S. City of Pekin, N. 28° 20′, E. 127° 45′†	29.83	757.7	79	26.1	95	sw.	.....	.....	6	.....	10	.....	sw.	mod.	mod.	mod.	sw.	rainy.
S. S. City of Rio de Janeiro, N. 37° 24′. W. 122° 39′*†	30.10	764.5	56	13.3	81	nw.	.....	.....	1	.....	9	.....	nw.	o	o	mod.	nw.	foggy.
S. S. City of Sydney, Sydney N. S. W.†	29.95	760.7	54	12.2	61	sw.	.....	.....	6	.....	5?	.....	sw.	o	o	sm'h	.....	cloudy ?
S. S. Colima, Acapulco, Mexico*	29.88	758.9	78	25.6	95	calm	.....	.....	0	.....	9	.....	se.	0.60	15.2	sm'h	.....	cloudy.
S. S. Grenada, Panama, Panama†	29.89	759.2	78	25.6	100	nw.	.....	.....	1	.....	10	.....	nw.	2 h'r	2 h'r	.....	.....	cloudy.
S. S. South Carolina, Panama, Panama†	30.01	762.2	90	32.2	84	calm	.....	.....	0	.....	10	.....	.....	sh'rs	sh'rs	sm'h	.....	raining.
S. S. Zelandia, N. 9° 54′, W. 162° 34′	29.94	760.5	79	26.1	91	ne.	.....	.....	3	.....	5?	.....	ne.	.....	.....	hv'y	ne.	cloudy.
QUEBEC S. S. COMPANY.																		
S. S. Muriel, St. Kitts, W. I.	29.96	761.0	82	27.8	.....	e.	.....	.....	4	.....	10	.....	.....	o	o	sm'h	.....	overcast.
S. S. Bermuda, New York, N. Y.†	29.95	760.7	71	21.7	.....	ne.	.....	.....	3	.....	3	.....	n.	o	o	.....	.....	fine.
RED STAR LINE.																		
S. S. Nederland, N. 40° 34′, W. 65° 37′†	29.72	754.9	57.5	14.2	.....	wnw.	.....	.....	2	.....	2	.....	w.	1 h'r	1 h'r	sm'h	w.	fair.
S. S. Rhynland, Antwerp, Belgium	30.15	765.8	62	16.7	77	w.	.....	.....	3	.....	10	.....	w.	o	o	.....	.....	cloudy.
S. S. Switzerland, N. 39° 02′, W. 65° 57′†	29.93	760.2	.....	.....	.....	nw.	.....	.....	3	.....	5	.....	nw.	o	o	mod.	nw.	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
RED STAR LINE—Continued.																		
S. S. Vaderland, N. 42° 37′, W. 40° 25′	29.90	759.4	69	20.6	95	e.			2		fg.			0	0	mod.	sw.	rain & fog.
ROTTERDAM LINE.																		
S. S. Schiedam, N. 40° 20′ W 65° 53′*	29.92	760.0	60.8	16.0	88	n.			3		3		ne.					clear.
STATE LINE.																		
S. S. State of Florida, N. 40° 17′, W. 70° 08′	25.76	755.9	76	24.4		n.			4		0			0	0	sm'h		clear.
S. S. Indiana, N. 45° 40′, W. 41° 20′†	30.44	773.2	67	19.4		w.			5		5		w.	3 h'r	3 h'r	cross	sw;n w.	hazy.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 44° 14′, W. 45° 18′†	30.32	770.1	67.1	19.5	69	ese.			2		fg.		ese.	0	0	mod.	ese.	foggy.
WARREN LINE.																		
S. S. Iowa, N. 41° 52′ W. 61° 31′*†	29.80	756.9	52	11.1		wnw.			4		10		wnw.	16 h'r	16 h'r	sm'h		cloudy.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 49° 58′ W. 4° 55′	30.12	765.0									3		nw.	0	0	sm'h		
WHITE STAR LINE.																		
S. S. Celtic, N. 40° 40′, W. 71° 37 †	30.01	762.2	62	16.7	83	n.			4		0			0	0	sm'h		fine.
S. S. Germanic, N. 48° 09′, W. 30° 33′†	30.33	770.4	61	16.1		sw.			3		8		s.			mod.	ssw.	d. clouds.
S. S. Republic, N. 40° 21′, W. 70° 06′†	30.10	764.5	64	17.8	100	nnw.			3		0			0	0	sm'h		blue sky.
WILSON LINE.																		
S. S. Otranto, N. 40° 54′ W. 68° 18′†	30.07	763.8	58	14.4		wnw.			2		2		wsw.			short	wnw.	clear.
MISCELLANEOUS.																		
Schr. Addie Fuller, Bath, Me†	29.98	761.5	60	15.6	59	nw.					0			0	0			clear.
Schr. Ajax, Indianola, Texas†	30.07	763.8				se.			1		7		se.	0	0			cloudy.
Schr. Annie Lewis, N. 28° 40′, W. 88° 47′†	30.16	766.1	83	28.3		s.			2		0			0	0	sm'h		clear.
Bk. Anna Thormann, S. 32° 02′, W. 23° 12′	30.15	765.9	66.2	19.0	95	wnw.			2		8 k		nw.	10 h'r	10 h'r	mod.	s.	misty.
S. S. Antonio Lopez, Barcelona, Spain	30.03	762.7	71.5	21.9	69	calm			0		10			0	0			cloudy.
Schr. Asa Eldridge, Key West, Fla†	30.13	765.3				se.			3		0			0	0			hazy.
Bk. Aureola, S. 23° 36′, W. 41° 45′*†	30.10	764.5	78	25.6		nne.			6		3		n.	0	0	short	ne.	clear.
Bk. Cato, N. 38° 58′, W. 53° 30′*†	30.29	769.4				s.			4		5		s.	0	0	mod.	s.	cloudy.
Schr. C. R. Flint, Cedar Keys, Florida†	30.23	767.8	79	26.1		sw.			3		5		wsw.	0	0			fair.
Schr. Edith R. Seward, N. 25° 28′, W. 64° 15′*†	30.23	767.8	84	28.9		s.			1		2		sse.	½ h'r	½ h'r	mod.	sse.	clear.
S. E. J. Spicer, N. 43° 08′, W. 60° 50′†	29.77	756.1				nw.			4		10		nw.	0	0	mod	wsw.	
Bk. Essex, S. 21° 04′. W. 30° 45′*†	30.08	764.0	74	23.3		e.			4		6?		ese.	6 h'r	6 h'r	high	e.	clear ?
S. Exporter, N. 5° 40′, E. 84° 20′*†	30.00	762.0				w.			6		6		w.	3 h'r	3 h'r	cross		cloudy.
Bk. Freya, N. 42° 02′, W. 56° 00′			66	18.9		s.			6		8		wsw.	4 h'r	4 h'r	mod.	wsw.	squally.
S. Grecian, Hong Kong, China*†	29.90	759.4	84	28.9		calm			0		3		e.	0	0			clear.
Bk. Hattie G. McFarland, Portland. Me*†	29.96	761.0	62	16.7		wnw.			1		4		nw.	0	0			fair.
S. Hedwig, N. 36° 30′, W. 8° 47′	30.02	762.6	64.4	18.0	96	nnw.			6		0			0	0	long	nw.	fine.
S. Ismir, S. 44° 00′, E. 3° 30′†	30.12	765.0				w.			5		6		w.			hv'y	wsw.	snow sq'lls
S. Ivy, N. 30° 10′, W. 126° 40′†	30.19	766.8	56	13.3		n.			1		8		n.			mod.	n.	drizzling
Schr. Jennie N. Huddell, N. 39° 00′, W. 74° 47′†	30.15	765.8	70	21.1	90	e.			1					0	0			clear.
Schr. John L. Thomas, Vivorilla Cay, Mosquito Coast*†	30.08	764.0				e.			3		3		ese.	0	0			clear.
Bg. John Wesley, N. 37° 05′ W. 76° 00′†	29.70	754.4				sw.			5		2			0	0	sm'h		hazy.
S. S. Lamperts, N. 12° 45′, E. 45° 04′*	29.68	753.9	87.0	30.6	72	sw.			5		7 k							misty.
S. S. Laurel, Jupiter Inlet, Fla†	30.10	764.5	82	27.8		s.			1		1		s.	0	0			clear.
S. S. Malabar, N. 40° 55′, E. 151° 45′*†	29.94	760.5				ne.					5?		ne.	0	0			cloudy.?
S. M. P. Grace, S. 4° 02′, W. 28° 34′*	30.04	763.0	80	26.7		ese.			4				ese.	0	0	sm'h	ese.	clear
S. S. Nebo, N. 55° 37′ W. 12° 16′†*	30.14	765.5				e.			2		5?		e.	0	0	sm'h	ese.	clear.?
Bk Orpheus, N. 44° 00′, W. 28° 15′	30.39	771.9	68	20.0		wsw.			3		10					sm'h	wsw.	foggy.
S. Paramita, S. 38° 12′ W. 98° 30′†	29.85	758.2	56	13.3		w.			5		4		wsw.	sqll's	sqll's	long	w.	
Bk. Peppina, Newport, Eng†	30.09	764.3	71	21.7	57	ene.			2		2		e.	0	0			fair.
S. S. Ponca, Maranham, Brazil†	29.97	761.2	87	30.6		ene.			2		2		ene.	0	0			clear.
Bk. Rosebud, S. 33° 47′ E. 5° 32′*†	30.22	767.6	58	14.4	100	wnw.			3		5			4 h'r	4 h'r	sm'h		fine.
S. S. Sunbeam, N. 37° 05′, E. 4° 46′	30.05	763.3	73	22.8	85	wnw.			1		9		nw.					misty.
Bg. Teneriffe, Cardenas, Cuba, W. I.	30.08	764.0				e.			1		0			0	0			fine.
Bk. Truro, N. 50° 18′, W. 160° 20′*†	30.10	764.5				calm			0		10			0	0	sm'h		foggy.
U. S. F. C. S. S. Fish Hawk, Lower Cedar Point, Md†	30.17	766.3	77	25.0	95	se.			3		8		calm	0	0			cloudy.
S. S. Victoria J Peed, Barranquilla, U. S. C.						se.			1		10							
Bk. Vincenzo Accame, N. 38° 30′, W. 9° 50′†	30.32	770.0	71.6	22.0		nne.			5									
Schr. Viola Reppard, N. 33° 11′ W. 77° 22′†	29.88	758.9	84	28.9		nw.			3		4		nw.	0	0	sm'h		fair.
Bkt. Wandering Jew, Boston, Mass†*	29.96	761.0	66	18.9		nw.			4		2		nw.	0	0			clear.
Bk. Warden Law, London, Eng*	30.08	764.0				ne.			3		4		nw.	0	0			fair.
Bg. Wauburn, N. 25° 05′. W. 62° 40′*†	30.30	769.6	82	27.8		sw.			2		2		se.	0	0	sm'h		clear.
Bk. Wm. Wilcox, S. 15° 15′, W. 35° 05′*†	30.28	769.1	82	27.8		ene.			2		2		e.	0	0	mod.	nne.	fair.
S. Wm. Woodbury, N. 40° 19′. W. 40° 22′*	30.22	767.6	76	24.4	72	sw.			7		8		sw.			long	sw	cloudy.

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



UNITED STATES OF AMERICA.

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

SUMMARY AND REVIEW

OF

INTERNATIONAL METEOROLOGICAL OBSERVATIONS,

JUNE, 1882.

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea. Feet.	Altitude of Barometer above sea. Met'rs	Result of Simultaneous Observations for June, 1882. Mean Barometer. Actual. Inch.	Mean Barometer. Actual. Mill.	Mean Barometer. Reduced. Inch.	Mean Barometer. Reduced. Mill.	Mean Temperature. Fah.	Mean Temperature. Cent.	Mean Rel. Humidity.	Wind. Directions. N	NW	W	SW	S	SE	E	NE	C	Wind. Total Movement. Miles	Wind. Total Movement. Kil.	Average Cloudiness. 0-10	Total Precipitation. Inch.	Total Precipitation. Mill.
ALGERIAN.	° ′	° ′																								
Nemours	N. 35 06	W. 1 50	0.00 m.	13	4	.....	.....	30.02	762.4	75.6	24.2	72.1	4	1	.....	4	10	4	6	1	.....	.....	.....	2	0.16	4.0
Algiers	N. 36 47	E. 3 04	0.20 p.m.	72	22	.....	.....	30.04	763.1	75.6	24.2	63.9	6	4	10	.....	.....	.....	.....	10	.....	.....	.....	2	0.42	10.8
La Calle	N. 36 54	E. 8 26	0.42 p.m.	36	11	.....	.....	30.04	763.1	78.8	26.0	66.4	9	5	1	.....	.....	.....	7	8	.....	.....	.....	2	0.02	0.5
Tunis	N. 36 42	E. 10 13	0.49 p.m.	46	14	.....	.....	30.06	763.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Saida	N. 34 51	E. 0 10	0.09 p.m.	2844	867	.....	.....	30.12	765.1	85.6	29.8	36.1	2	2	2	3	2	9	5	5	.....	.....	.....	2	0.14	3.5
Tebessa	N. 35 24	E. 8 06	0.40 p.m.	2890	881	.....	.....	30.13	765.3	83.1	28.4	26.3	5	4	7	5	2	4	1	2	.....	.....	.....	2	1.54	39.2
Geriville	N. 33 45	E. 1 10	0.13 p.m.	4285	1306	.....	.....	.....	.....	88.3	31.3	19.2	3	5	6	1	8	3	1	3	.....	.....	.....	2	0.48	12.1
Laghouat	N. 33 48	E. 2 53	0.20 p.m.	2559	780	.....	.....	30.13	765.2	92.1	33.4	33.1	5	1	6	.....	2	1	11	4	.....	.....	.....	1	0.62	15.7
Biskra	N. 34 51	E. 5 41	0.31 p.m.	410	125	.....	.....	30.11	764.9	94.5	34.7	23.1	.....	5	2	1	.....	18	.....	2	2	.....	.....	3	1.10	28.0
AUSTRALIAN.																										
Melbourne	S. 37 50	E. 144 58	9.47 p.m.	91	28	29.96	760.9	30.05	763.2	47.0	8.3	86	5	3	6	4	7	1	1	2	1	.....	.....	5	1.38	35.0
AUSTRO-HUNGARIAN.																										
Agram	N. 45 48	E. 15 53	1.12 p.m.	536	163	29.42	747.3	29.96	760.9	70.7	21.5	52.3	.....	.....	2	12	2	3	4	7	.....	.....	.....	4	4.06	103.1
Cracow	N. 50 04	E. 20 00	1.28 p.m.	722	220	29.18	741.1	29.97	761.2	64.8	18.2	58.1	.....	7	5	7	1	.....	6	4	.....	.....	.....	7	2.39	60.6
Eperies	N. 48 58	E. 21 15	1.33 p.m.	820	250	29.06	738.0	29.89	759.3	61.2	16.2	72.4	9	3	1	.....	8	2	1	.....	6	.....	.....	6	2.32	58.8
Gratz	N. 47 04	E. 15 28	1.10 p.m.	1171	357	28.73	729.7	29.95	760.6	66.7	19.3	74.8	.....	9	6	7	4	1	1	2	.....	.....	.....	4	3.74	94.9
Hermannstadt	N. 45 47	E. 24 13	1.45 p.m.	1352	412	28.53	724.6	29.91	759.6	70.3	21.3	56.	5	14	1	.....	2	6	2	.....	.....	.....	.....	7	5.07	128.7
Kremsmünster	N. 48 03	E. 14 08	1.04 p.m.	1260	384	28.64	727.5	29.96	760.9	63.7	17.6	66.2	.....	9	6	5	.....	.....	.....	7	3	.....	.....	6	4.18	106.1
Lemberg	N. 49 50	E. 24 00	1.44 p.m.	978	298	28.94	735.0	29.89	759.3	66.9	19.4	53.3	.....	10	.....	7	4	3	.....	6	.....	.....	.....	7	2.94	74.6
Pola	N. 44 52	E. 13 51	1.04 p.m.	105	32	29.87	758.6	29.98	761.4	74.7	23.7	63.5	.....	.....	4	1	6	14	5	.....	.....	.....	.....	5	2.19	55.7
Szathmar	N. 47 46	E. 22 53	1.39 p.m.	430	131	29.46	748.2	29.91	759.6	71.8	22.1	45	2	4	3	8	4	3	1	5	.....	.....	.....	6	3.09	78.4
Szegedin c	N. 46 15	E. 20 10	1.29 p.m.	256	78	29.67	753.7	29.94a	760.4a	69.6a	20.9a	53.3c	5	3	1	4	10	1	.....	6	.....	.....	.....	6	1.72	43.8
Trieste	N. 45 39	E. 13 46	1.04 p.m.	85	26	29.89	759.2	29.99	761.8	85.6	29.8	49.6	.....	.....	3	7	2	2	1	6	9	.....	.....	5	2.82	71.5
Vienna	N. 48 12	E. 16 22	1.14 p.m.	663	202	29.20	743.3	29.97	761.2	66.9	19.4	51.5	1	5	14	1	.....	8	.....	1	.....	.....	.....	5	1.15	29.2
BRITISH.																										
Aberdeen	N. 57 10	W. 2 06	0.00 m.	89	27	29.71	754.6	29.81	757.2	55.0	12.8	74.1	3	4	3	1	6	7	3	3	.....	.....	.....	6	2.45	62.2
Armagh	N. 54 21	W. 6 39	11.42 a.m.	207	63	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bidston	N. 53 24	W. 3 04	11.56 a.m.	197	60	.....	.....	29.86	758.4	58.1	14.5	72.2	1	2	13	4	3	3	3	1	.....	.....	.....	7	.....	.....
Bolton	N. 53 35	W. 2 28	11.58 a.m.	500	152	29.32	744.7	29.85	758.2	57.8	14.3	73.9	.....	7	7	6	5	2	3	.....	.....	.....	.....	8	.....	.....
Bradford d	N. 53 48	W. 1 47	9.01 p.m.	366	111	29.45	748.0	29.85	758.2	59.5	15.3	63.7	.....	7	3	7	.....	6	.....	3	.....	.....	.....	7	3.93	99.8
Bridgetown	N. 13 04	W. 59 37	8.10 a.m.	28	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cardington	N. 52 08	W. 0 27	0.06 p.m.	109	33	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8	.....	.....
Chatham	N. 51 25	E. 0 33	0.10 p.m.	120	37	29.80	756.9	29.94	760.5	60.7	15.9	69.7	1	4	3	7	6	.....	1	3	5	.....	.....	6	.....	.....
Falmouth	N. 50 09	W. 5 04	11.48 a.m.	211	64	29.75	755.6	29.97	761.2	58.9	14.9	73.5	.....	4	9	5	5	5	1	1	.....	.....	.....	1	.....	.....
Fort Napier	S. 30 00	E. 31 00	2.12 p.m.	2200	671	27.72	704.1	30.04	763.0	71.0	21.7	33.3	1	1	.....	.....	3	4	8	2	11	.....	.....	4	.....	.....
Free Town	N. 8 30	W. 13 14	11.15 a.m.	224	68	29.67	753.6	29.91	759.7	84.5	29.2	75.7	.....	12	14	4	.....	.....	.....	.....	.....	.....	.....	2	.....	.....
Gibraltar	N. 36 09	W. 5 21	11.47 a.m.	50	15	30.02	762.5	30.07	763.8	77.2	25.1	75.4	.....	3	7	5	.....	.....	10	5	.....	.....	.....	7a	.....	.....
Glasgow	N. 55 53	W. 4 17	11.51 a.m.	184	56	29.60	751.8	29.80	756.9	58.8	14.9	63.9	.....	2	8	9	3	2	1	5	.....	.....	.....	8	.....	.....
Greenwich	N. 51 29	0 00	0.08 p.m.	159	48	29.74	755.4	29.91	759.7	61.3	16.3	68.7	1	4	4	7	10	.....	1	3	.....	.....	.....	6	.....	.....
Guernsey	N. 49 27	W. 2 41	11.58 a.m.	275	84	29.70	754.4	30.00	762.0	59.4	15.2	80.7	2	6	9	5	5	2	.....	1	.....	.....	.....	8	.....	.....
Kew	N. 51 28	W. 0 19	0.07 p.m.	34	10	29.89	759.2	29.93	760.2	61.1	16.2	62.0	2	1	12	9	2	.....	1	3	.....	.....	.....	8	.....	.....
Leicester	N. 52 39	W. 1 08	0.04 p.m.	245	75	29.62	752.3	29.87	758.7	60.6	15.9	64.2	.....	9	.....	15	1	2	.....	3	.....	.....	.....	2	.....	.....
Malta	N. 36 00	E. 14 30	1.06 p.m.	70	21	29.94	760.5	30.02	762.5	78.8	26.0	61.6	1	5	2	2	1	5	4	10	.....	.....	.....	6	.....	.....
Nassau	N. 25 04	W. 77 22	6.58 a.m.	44	13	30.10	764.5	30.14	765.5	83.1	28.4	75.7	1	.....	1	5	6	12	3	2	.....	.....	.....	8	.....	.....
Oscott	N. 52 28	W. 1 55	0.00 m.	483	147	29.37	746.0	29.88	758.9	58.7	14.8	69.5	3	4	3	5	9	1	2	3	.....	.....	.....	9	.....	.....
Oxford	N. 51 46	W. 1 17	0.03 p.m.	210	64	29.68	753.9	29.91	759.7	59.5	15.3	67.0	.....	4	7	6	6	3	.....	4	.....	.....	.....	8	.....	.....
Plymouth	N. 50 22	W. 4 10	11.51 a.m.	69	21	29.88	758.9	29.95	760.7	60.8	16.0	73.3	1	3	9	8	4	3	2	.....	.....	.....	.....	6	.....	.....
Sandwick Manse	N. 59 05	W. 3 20	11.54 a.m.	94	29	.....	.....	29.81	757.2	53.1	11.7	82.6	2	6	4	4	.....	4	8	2	.....	.....	.....	3	.....	.....
Scutari Cemet'y a	N. 41 00	E. 29 03	2.04 p.m.	60	18.	29.86	758.4	29.93	760.2	75.8	24.3	56.0	5	1	.....	8	6	1	.....	9	.....	.....	.....	8	3.08	78.2
Sheffield	N. 53 23	W. 1 28	0.02 p.m.	260	79	29.58	751.3	29.86	758.4	62.4	16.9	77.2a	1	5	1	11	3	1	3	5	.....	.....	.....	6	3.04	77.2
Silloth Rectory	N. 54 52	W. 3 22	11.54 a.m.	28	9	29.79	756.7	29.80	756.9	60.8	16.0	69.0	1	6	7	10	.....	1	5	.....	.....	.....	.....	8	.....	.....
Stonyhurst	N. 53 51	W. 2 28	11.58 a.m.	361	110	.....	.....	29.87	758.7	58.0	14.4	70.4	.....	5	12	5	4	1	3	.....	.....	.....	.....	7	.....	.....
Stratfield Turgiss	N. 51 17	W. 0 53	0.04 p.m.	197	60	29.71	754.6	29.93	760.2	61.9	16.6	66.2	.....	8	7	9	1	1	4	.....	.....	.....	.....	7	.....	.....
Truro	N. 50 16	W. 5 04	11.53 a.m.	43	13	29.94	760.5	29.95	760.7	63.0	17.2	71.9	.....	10	5	7	5	1	2	.....	.....	.....	.....	7	.....	.....
Valencia	N. 51 55	W. 10 18	11.27 a.m.	23	7	29.88	758.9	29.91	759.7	57.5	14.2	77.1	.....	5	5	10	3	5	2	.....	.....	.....	.....	7	.....	.....
CANADIAN.																										
Bathurst	N. 47 39	W. 65 43	7.45 a.m.	80	24	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Charlottetown	N. 46 14	W. 63 10	7.55 a.m.	38	12	29.76	755.9	29.80	756.9	56.0	13.3	81.1	2	2	4	7	8	3	.....	2	2	3553	5718	8	3.27	83.1
Chatham	N. 47 03	W. 65 29	7.45 a.m.	56	17	29.73	755.1	29.79	756.7	55.4	13.0	83.4	1	4	1	9	5	2	1	5	2	3777	6078	7	6.77	172.0
Father Point	N. 48 31	W. 68 28	7.34 a.m.	20	6	29.72	754.9	29.74	755.4	51.3	10.7	87.7	1	4	14	1	1	.....	.....	7	2	11660	18765	7	3.66	93.0
Fort Garry k	N. 49 51	W. 97 07	5.39 a.m.	754	230	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Halifax	N. 44 39	W. 63 36	7.53 a.m.	122	37	29.72	754.9	29.85	758.2	57.3	14.1	81.0d	1	6	2	7	5	4	5	.....	.....	.....	.....	4	5.51	140.0
Kingston	N. 44 14	W. 76 30	7.02 a.m.	307	94	29.55	750.6	29.86	758.4	58.5	14.7	80.1	4	10	7	1	1	.....	2	3	2	4975	8006	7	3.67	93.2
Montreal	N. 45 31	W. 73 33	7.13 a.m.	187	57	29.61	752.1	29.81	757.2	60.6	15.9	71.8	.....	6	7	8	6	1	.....	.....	2	.....	.....	5	4.73	120.1
Parry Sound	N. 45 19	W. 80 01	6.48 a.m.	635	194	29.22	742.2	29.86	758.4	55.7	13.2	80.3b	1	3	6	1	6	4	7	2	.....	5685	9149	5	3.51	89.2
Port Dover	N. 42 47	W. 80 13	6.47 a.m.	635	194	29.21	741.9	29.89	759.2	58.4	14.7	82.7	2	4	5	6	.....	.....	.....	4	9	4485	7218	6	3.30	83.8
Port Stanley	N. 42 40	W. 81 13	6.43 a.m.	592	180	29.26	743.2	29.89	759.2	55.4	13.0	83.5	4	4	8	1	1	2	7	2	1	.....	.....	5	4.73	120.1
Quebec	N. 46 48	W. 71 12	7.23 a.m.	293	89	29.48	748.8	29.80	756.9	54.8	12.7	85.2	6	1	13	1	.....	.....	2	3	4	.....	.....	5	4.99	126.7
Rockliffe	N. 46 10	W. 77 48	6.57 a.m.	418	127	29.36	746.2	29.83	757.7	53.7	12.1	81.0	1	8	7	.....	.....	1	5	.....	8	.....	.....	6	4.28	108.7
Saugeen	N. 44 30	W. 81 21	6.42 a.m.	656	200	29.19	741.4	29.86	758.4	55.0	12.8	85.4	1	3	5	7	5	5	2	1	1	5948	9572	5	2.33	59.2
St. Andrews	N. 43 04	W. 81 06	6.34 a.m.	47	14	29.76	755.9	29.81	757.2	54.2	12.3	78.9	4	8	3	3	4	5	.....	1	2	.....	.....	3	4.31	109.5
Sydney	N. 46 08	W. 60 10	8.07 a.m.	37	11	29.77	756.1	29.83	757.7	54.8	12.7	79.9	5	2	5	11	3	1	2	.....	1	7021	11299	6	6.17	156.7
Toronto	N. 43 39	W. 79 23	6.50 a.m.	350	107	29.52	749.8	29.89	759.2	58.7	14.8	74.8	5	4	4	5	2	.....	3	2	5	6730	10831	6	2.69	68.3
Windsor	N. 44 59	W. 63 58	7.53 a.m.	87	26	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Woodstock	N. 43 08	W. 80 47	6.48 a.m.	980	299	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Yarmouth	N. 43 50	W. 66 02	7.44 a.m.	61	19	29.78	756.4	29.85	758.2	53.6	12.0	86.5	2	7	1	7	6	1	2	.....	4	4038	6498	4	3.31	84.1
Sub-Series.																										
St. Johns, N. F.	N. 47 34	W. 52 42	8.37 a.m.	230	70	29.97	761.2	30.22	767.6	55.1	12.8	85.7	.....	.....	7	9	6	3	.....	5	.....	.....	.....	6	6.19	157.2
CAPE COLONY																										
Cape St. Francis	S. 34 10	E. 24 50	1.47 p.m.	25	7	30.16	766.1	30.19	766.8	65.3	18.5	75.6	.....	3	8	10	.....	2	1	5	1	.....	.....	4	1.04	26.4
Cape Town	S. 34 02	E. 18 29	1.22 p.m.	27	8	30.14	765.5	30.18	766.6	62.0	16.7	77.9	.....	17	5	3	2	2	.....	.....	1	.....	.....	5	3.30	83.8

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea. Feet.	Met'rs	Result of Simultaneous Observations for June, 1882. Mean Barometer. Actual. Inch.	Mill.	Reduced. Inch.	Mill.	Mean Temperature. Fah.	Cent	Mean Rel. Humidity.	Wind. Directions. N	NW	W	SW	S	SE	E	NE	C	Total Movement. Miles	Kil.	Average Cloudiness. 0–10	Total Precipitation. Inch.	Mill.
CHINESE.	° ′	° ′																								
Sub Series.																										
Hankow *f*	N. 30 34	E. 114 20	7.45 p.m.	260	79	29.65	753.1	29.86	758.4	75.6	24.2	88	2	1	.....	2	1	8	2	4	4	.....	.....	8	4.45	113.0
Zi-Ka-Wei	N. 31 12	E. 121 26	8.14 p.m.	23	7	29.75	755.7	29.78	756.3	70.7	21.5	88	1	1	.....	1	2	8	11	5	1	.....	.....	8	8.69	220.8
DANISH.																										
Copenhagen	N. 55 41	E. 12 36	0.58 p.m.	43	13	29.80	756.9	29.85	758.1	61.9	16.6	66	3	1	4	6	4	9	2	.....	1	.....	.....	6	.....	.....
Fanöe	N. 55 27	E. 8 24	0.42 p.m.	20	6	29.81	757.1	29.83	757.6	61.9	16.6	77	.....	5	10	4	3	4	4	.....	.....	.....	.....	7	.....	.....
Godthaab *k*	N. 64 11	W. 51 46	8.41 a.m.	36	11	29.77	756.2	29.82	757.3	37.8	3.2	89.1	4	.....	.....	1	5	.....	.....	5	4	.....	.....	8	1.57	40.0
Stykkisholm	N. 65 05	W. 22 46	10.37 a.m.	36	11	29.89	759.1	29.93	760.2	43.9	6.6	82	.....	2	1	.....	1	9	10	5	2	.....	.....	6	.....	.....
Thorshavn	N. 62 02	W. 6 44	11.41 a.m.	29	9	29.85	758.3	29.89	759.2	50.4	10.2	80	5	.....	.....	3	1	1	2	13	5	.....	.....	8	.....	.....
Vestervig	N. 56 47	E. 8 20	0.41 p.m.	82	25	29.72	755.0	29.82	757.3	60.6	15.9	74	.....	6	3	6	2	2	5	3	3	.....	.....	5	.....	.....
FRENCH.																										
Agen	N. 44 12	E. 0 38	0.11 p.m.	604	184	29.45	747.9	30.08	764.0	68.7	20.4	64.6	2	3	7	3	.....	1	.....	.....	14	.....	.....	.....	2.21	56.2
Alençon	N. 48 26	E. 0 05	0.09 p.m.	476	145	29.49	749.1	30.04	763.1	63.1	17.3	82.9	1	2	3	15	4	1	2	2	.....	.....	.....	.....	2.65	67.4
Arras	N. 50 18	E. 2 46	0.19 p.m.	239	73	29.76	755.9	30.01	762.3	62.1	16.7	68.6	1*b*	10	5	3	3	2	1	3	.....	.....	.....	.....	2.67	67.8
Avignon	N. 43 57	E. 4 48	0.27 p.m.	65	20	29.93	760.2	30.01	762.2	77.7	25.4	47.1	13	8	.....	4	3	.....	.....	2	.....	.....	.....	4	0.10	2.5
Bar-sur-Seine	N. 48 07	E. 4 22	0.25 p.m.	518	158	29.47	748.6	30.02	762.5	65.5	18.6	60	3	3	4	6	8	4	2	.....	.....	.....	.....	8	4.19	106.4
Beauvais	N. 49 26	E. 2 05	0.16 p.m.	246	75	29.73	755.1	29.98	761.6	65.8	18.8	56.1	1	2	12	5	3	3	3	1	.....	.....	.....	5	2.34	59.3
Besançon	N. 47 14	E. 6 01	0.32 p.m.	846	258	29.10	739.0	30.02	762.5	67.5	19.7	66.1	2	.....	2	8	12	1	.....	5	.....	.....	.....	.....	6.11	155.2
Bordeaux	N. 44 50	E. 0 32	0.06 p.m.	243	74	29.82	757.3	30.07	763.8	67.3	19.6	57.5	2	6	10	5	2	.....	3	2	.....	.....	.....	8	1.51	38.4
Bourges	N. 47 10	E. 2 26	0.17 p.m.	510	156	29.50	749.4	30.05	763.2	66.6	19.2	55.9	5	3	9	5	5	1	1	1	.....	.....	.....	.....	2.52	63.9
Brest	N. 48 24	W. 4 30	11.50 a.m.	210	64	29.80	750.8	30.04	763.0	63.5	17.5	73.0	2	5	7	10	1	1	.....	3	1	.....	.....	8	6.33	160.8
Caen	N. 49 11	W. 0 21	0.07 p.m.	69	21	29.90	759.5	29.98	761.4	63.9	17.7	65.9	2	6	4	5	9	1	.....	3	.....	.....	.....	6	4.16	105.8
Châloas-sur-Marne	N. 48 57	E. 4 21	0.25 p.m.	294	90	29.05	753.1	29.97	761.2	64.4	18.0	62.5	.....	1	8	4	11	2	2	.....	2	.....	.....	6	3.02	76.7
Charleville	N. 49 46	E. 4 49	0.27 p.m.	476	145	29.46	748.2	29.96	760.9	64.6	18.1	57.0	.....	4	4	11	8	2	1	.....	.....	.....	.....	8	4.32	109.7
Clermont-Fd	N. 45 46	E. 3 05	0.20 p.m.	1273	388	28.70	728.9	30.02	762.4	68.2	20.1	54.1	7	5	6	4	.....	1	2	5	.....	.....	.....	7	2.75	69.8
Cluny	N. 46 26	E. 4 39	0.27 p.m.	787	240	29.22	742.2	30.06	763.4	66.9	19.4	60.8	2	7	6	6	1	2	2	4	.....	.....	.....	7	3.55	90.2
Commercy	N. 48 46	E. 5 35	0.30 p.m.	797	243	29.15	740.5	30.00	762.0	64.6	18.1	63.6	.....	4	14	7	1	.....	2	2	.....	.....	.....	.....	6.06	153.9
Gap	N. 44 33	E. 6 05	0.32 p.m.	2424	739	27.53	699.3	29.97	761.3	73.9	23.3	39.5	.3	.4	5	8	4	1	.....	4	1	.....	.....	.....	0.43	10.9
Gréasque	N. 43 25	E. 5 37	0.31 p.m.	1056	322	28.90	734.0	29.98	761.4	77.7	25.4	30.4	.....	.....	.....	.....	.....	21	4	5	.....	.....	.....	6	0	0
Grenoble	N. 45 12	E. 5 43	0.31 p.m.	715	218	29.24	742.8	29.99	761.7	68.7	20.4	63.4	3	14	7	2	.....	1	3	.....	.....	.....	.....	.....	2.32	58.9
Guéret	N. 46 10	E. 1 52	0.16 p.m.	1486	453	28.50	723.9	30.06	763.4	62.8	17.1	67.1	1	3	6	16	1	1	1	1	.....	.....	.....	6	3.27	83.0
Lamballe	N. 48 28	W. 2 31	11.58 a.m.	252	77	29.76	755.8	30.03	762.8	62.4	16.9	70.1	2	8	6	5	4	3	1	1	.....	.....	.....	6	2.64	67.0
Lescar	N. 43 20	W. 0 26	0.06 p.m.	525	160	29.52	749.9	30.08	764.0	68.9	20.5	61.5	2	6	8	6	5	2	1	.....	.....	.....	.....	4	2.57	65.3
Lorient	N. 47 45	W. 3 21	11.55 a.m.	86	26	29.95	700.8	30.06	763.4	63.7	17.6	68.4	1	3	8	11	5	1	.....	1	.....	.....	.....	8	2.85	72.5
Lyon	N. 45 41	E. 2 30	0.25 p.m.	981	299	29.01	736.8	30.04	763.1	68.5	20.3	53.6	8	6	1	.....	7	3	3	2	.....	.....	.....	.....	3.46	87.9
Mans	N. 48 01	E. 0 12	0.09 p.m.	285	87	29.73	755.1	30.03	762.8	63.5	17.5	66.5	.....	10	6	6	2	3	1	2	.....	.....	.....	5	4.44	112.8
Marseille	N. 43 18	E. 5 23	0.29 p.m.	246	75	29.74	755.4	30.00	762.0	75.6	24.2	45.9	.....	8	9	4	5	4	.....	.....	.....	.....	.....	.....	0.01	0.2
Mont-Louis	N. 42 30	E. 2 07	0.16 p.m.	5203	1586	24.93	633.3	29.76	756.0	61.5	16.4	46.9	1	1	4	7	2	5	8	2	.....	.....	.....	4	2.30	58.3
Montpellier	N. 43 37	E. 3 53	0.24 p.m.	118	36	29.89	759.1	30.01	762.2	75.7	24.3	52.5	3	.....	.....	.....	.....	14	10	2	1	.....	.....	3	0.16	4.
Nancy	N. 48 42	E. 6 11	0.33 p.m.	725	221	29.22	742.3	29.99	761.8	64.9	18.3	63.8	3	2	3	9	12	.....	.....	1	.....	.....	.....	.....	3.91	99.4
Nantes	N. 47 13	W. 1 33	0.02 p.m.	134	41	29.91	759.7	30.07	763.8	65.7	18.7	64.5	2	1	10	14	1	.....	1	1	.....	.....	.....	9	3.66	93.0
Perpignan	N. 42 42	E. 2 53	0.19 p.m.	105	32	29.94	700.5	30.04	763.1	74.1	23.4	47.7	1	7	1	2	2	12	3	2	.....	.....	.....	5	0.14	3.6
Pic du Midi (Sum-	N. 42 56	W. 0 08	0.08 p.m.	9380	2859	21.36	542.6	.....	.....	43.2	6.2	.....	.....	2	3	18	3	1	1	2	.....	.....	.....	5	2.65	67.3
Privas ..... [mit.)	N. 44 45	E. 4 36	0.26 p.m.	997	304	28.99	736.3	30.02	762.5	72.9	22.7	43.8	12	3	1	1	7	2	.....	.....	4	.....	.....	6	1.15	29.2
Puy de Dome	N. 45 46	E. 2 58	0.20 p.m.	4813	1467	25.21	640.4	.....	.....	47.1	8.4	86.7	1	.....	17	3	3	1	4	1	.....	.....	.....	7	5.92	150.4
Rochefort	N. 45 56	W. 0 58	0.04 p.m.	29	9	30.04	763.1	30.08	763.9	68.4	20.2	95.4	.....	2	14	8	3	.....	2	1	.....	.....	.....	7	6.61	168.
Roche-sur-Yon	N. 46 40	W. 1 26	0.02 p.m.	198	60	29.84	758.0	30.05	763.3	64.4	18.0	72.5	1	2	5	14	3	1	2	2	.....	.....	.....	6	3.38	85.8
Rodez	N. 44 21	E. 2 34	0.18 p.m.	2050	625	27.99	710.9	30.10	764.4	65.3	18.5	60.1	.....	8	4	5	.....	4	4	2	3	.....	.....	.....	1.82	46.3
Rouen	N. 49 26	E. 1 05	0.12 p.m.	39	12	29.94	760.4	29.98	761.6	64.0	17.8	65.5	.....	2	4	14	7	.....	2	1	.....	.....	.....	7	3.32	84.2
Saint Maur	N. 48 48	E. 2 21	0.17 p.m.	162	49	29.84	757.9	30.00	762.1	64.8	18.2	61.4	2	4	4	9	5	2	2	1	1	.....	.....	8	1.84	46.6
Toulouse	N. 43 37	E. 1 27	0.14 p.m.	636	194	29.41	747.0	30.13	765.4	71.4	21.9	57.4	5	7	7	2	2	5	.....	2	.....	.....	.....	5	2.00	50.9
Tours	N. 47 24	E. 0 41	0.11 p.m.	164	50	29.86	758.4	30.04	762.9	66.9	19.4	62.7	4	2	7	15	.....	1	1	.....	.....	.....	.....	.....	2.94	74.6
Versailles	N. 48 48	E. 2 07	0.16 p.m.	445	136	29.51	749.6	30.00	762.1	64.0	17.8	58.8	4	2	12	6	2	2	1	1	.....	.....	.....	8	1.90	48.2
Sub-Series.																										
Paris, Montsouris	N. 48 50	E. 2 20	0.17 p.m.	256	78	29.72	755.0	30.01	762.3	64.4	18.0	60.8	.....	5	8	7	5	1	2	2	.....	.....	.....	8	1.28	32.6
GERMAN.																										
Bamberg	N. 49 54	E. 10 54	0.51 p.m.	796	242	29.13	739.8	29.98	761.4	65.8	18.8	57.8	.....	4	8	6	1	4	3	1	3	.....	.....	5	2.74	69.5
Berlin	N. 52 30	E. 13 23	1.02 p.m.	164	50	29.82	757.4	29.99	761.8	66.0	18.9	54.1	2	5	4	5	2	10	1	1	.....	.....	.....	7	3.51	89.2
Breslau	N. 51 07	E. 17 02	1.17 p.m.	482	147	29.45	747.9	29.98	761.4	64.8	18.2	51.6	2	4	8	5	2	4	4	1	.....	.....	.....	7	3.27	83.1
Carlsruhe	N. 49 01	E. 8 25	0.42 p.m.	404	123	29.55	750.0	29.98	761.4	66.9	19.4	61.2	.....	.....	2	17	.....	1	3	7	.....	.....	.....	7	5.70	144.7
Cassel	N. 51 19	E. 9 28	0.46 p.m.	669	204	29.19	741.4	29.90	759.5	67.5	19.7	57.6	3	2	7	8	6	2	1	1	.....	.....	.....	7	5.92	150.4
Frankfort on M.	N. 50 08	E. 8 41	0.43 p.m.	338	103	29.59	751.5	29.95	760.6	67.8	19.9	55.4	2	3	7	8	6	4	.....	.....	.....	.....	.....	6	3.08	78.2
Friedrichshafen	N. 47 39	E. 9 29	0.46 p.m.	1355	413	28.59	726.1	29.99	761.7	64.9	18.3	66.5	.....	1	4	15	7	1	.....	2	.....	.....	.....	6	8.58	217.9
Hamburg	N. 53 33	E. 9 58	0.48 p.m.	85	26	29.79	756.7	29.89	759.1	64.0	17.8	60.8	.....	2	8	9	1	4	5	1	.....	.....	.....	7	3.51	89.2
Kiel	N. 54 19	E. 10 04	0.48 p.m.	13	4	29.83	757.7	29.85	758.1	63.0	17.2	63.3	3	2	9	6	1	5	2	1	1	.....	.....	7	3.08	78.3
Leipsic	N. 51 20	E. 12 24	0.58 p.m.	390	119	29.52	749.7	29.93	760.2	66.4	19.1	54.7	2	3	3	8	6	5	3	.....	.....	.....	.....	7	4.43	112.6
Magdeburg	N. 52 09	E. 11 37	0.54 p.m.	177	54	29.71	754.7	29.90	759.4	66.0	18.9	54.3	1	2	10	4	5	4	2	2	.....	.....	.....	6	2.72	69.1
Memel	N. 55 43	E. 21 07	1.32 p.m.	39	12	29.89	759.2	29.93	760.3	65.1	18.4	60.0	1	8	3	7	6	1	3	1	.....	.....	.....	6	.....	.....
Munich	N. 48 09	E. 11 34	0.54 p.m.	1732	528	28.20	710.2	30.06	763.6	63.9	17.7	52.4	2	16	2	.....	.....	.....	2	4	4	.....	.....	6	4.41	112.0
Neufahrwasser	N. 54 24	E. 18 40	1.25 p.m.	16	5	29.90	759.5	29.92	759.9	63.5	17.5	63.6	6	3	4	5	2	4	1	5	.....	.....	.....	7	2.08	52.7
Neustadt *a*	N. 49 21	E. 8 08	0.41 p.m.	479	146	29.43	747.0	29.95	760.8	66.7	19.3	59.8	2	.....	13	1	6	.....	3	3	1	.....	.....	7 *d*	2.72	69.0
Stuttgart	N. 48 47	E. 9 11	0.45 p.m.	833	254	29.04	737.5	29.90	759.5	67.1	19.5	54.0	1	3	9	4	1	4	5	3	.....	.....	.....	6	3.56	90.5
Wustrow	N. 54 21	E. 12 24	0.58 p.m.	23	7	29.87	758.0	29.89	759.2	63.7	17.6	81.6	1	4	4	6	4	7	2	2	.....	.....	.....	8	2.96	75.3
GREEK.																										
Athens	N. 37 58	E. 23 44	1.43 p.m.	360	110	29.58	751.3	.....	.....	80.8	27.1	.....	.....	.....	.....	17	6	.....	.....	7	.....	.....	.....	2	0.18	4.6
ITALIAN.																										
Udine	N. 46 04	E. 13 14	1.01 p.m.	381	116	29.69	754.2	29.98	761.6	72.5	22.5	65	3	2	4	6	6	4	.....	2	3	.....	.....	6	5.38	136.7
Milan	N. 45 28	E. 9 11	0.45 p.m.	482	147	29.46	748.3	29.96	760.9	76.5	24.7	41	.....	5	1	5	2	10	2	5	.....	.....	.....	5	2.18	55.3
Padua	N. 45 24	E. 11 53	0.56 p.m.	102	31	29.86	758.4	29.97	761.1	74.8	23.8	44	1	.....	3	3	4	7	8	4	.....	.....	.....	5	1.87	47.6
Moncalieri	N. 45 00	E. 7 42	0.39 p.m.	853	260	29.06	738.0	29.93	760.2	75.2	24.0	41	6	3	2	.....	4	9	6	.....	.....	.....	.....	5	1.38	35.0
Genoa	N. 44 25	E. 8 55	0.44 p.m.	157	48	29.80	756.8	29.99	761.7	72.0	22.2	60	3	.....	.....	19	.....	7	1	.....	.....	.....	.....	4	0.48	12.1
Mondovi	N. 44 22	E. 7 48	0.39 p.m.	1824	556	28.07	713.0	29.91	759.8	73.4	23.0	47	3	6	12	1	.....	2	3	3	.....	.....	.....	3	0.37	9.4
Pesaro	N. 43 55	E. 12 53	1.00 p.m.	46	14	29.92	759.9	29.97	761.1	73.4	23.0	57	3	1	3	2	.....	6	9	6	.....	.....	.....	4	0.34	8.7
Florence	N. 43 46	E. 11 14	0.53 p.m.	240	73	29.72	754.8	29.97	761.2	78.3	25.7	41	1	11	6	5	1	.....	1	5	.....	.....	.....	4	0.56	14.3
Leghorn	N. 43 32	E. 10 18	0.49 p.m.	79	24	29.84	758.0	29.93	760.2	74.5	23.6	60	.....	2	16	7	5	.....	.....	.....	.....	.....	.....	6	0.49	12.4
Rome	N. 41 54	E. 12 29	0.58 p.m.	164	50	29.82	757.5	29.99	761.8	80.4	26.9	40	1	3	5	19	2	.....	.....	.....	.....	.....	.....	4	0.90	22.8
Lecce	N. 40 21	E. 18 12	1.21 p.m.	236	72	29.75	755.6	29.99	761.8	79.9	26.6	37	6	5	.....	7	5	.....	1	6	.....	.....	.....	2	0.48	12.3
Cosenza	N. 39 13	E. 16 15	1.13 p.m.	840	256	29.13	740.0	29.99	761.7	81.7	27.6	73	.....	.....	6	15	4	4	1	.....	.....	.....	.....	3	0.24	6.2
Cagliari	N. 39 13	E. 9 10	0.45 p.m.	180	55	29.77	756.2	29.97	761.3	77.7	25.4	47	.....	9	1	.....	4	15	.....	.....	1	.....	.....	2	0.30	7.0
Palermo	N. 38 07	E. 13 22	1.02 p.m.	236	72	29.80	756.8	30.04	763.1	77.2	25.1	52	.....	3	1	.....	.....	.....	12	14	.....	.....	.....	2	0.63	16.1
Syracuse	N. 37 03	E. 15 18	1.09 p.m.	43	13	29.96	760.9	30.00	761.9	78.6	25.9	62	3	1	.....	.....	13	3	4	6	.....	.....	.....	4	0.03	0.8
Sub-Series.																										
Naples	N. 40 52	E. 14 18	1.05 p.m.	489	149	29.49	749.0	30.00	761.9	76.3	24.6	56.2	1	1	4	14	3	2	5	.....	.....	.....	.....	3	0.71	18.0
Stelvio	N. 46 32	E. 10 26	0.50 p.m.	8343	2543	22.23	564.5	.....	.....	44.6	7.0	58.7	1	.....	8	8	3	4	2	4	.....	.....	.....	2	6.12	155.7
Valdobbia	N. 45 47	E. 7 54	0.40 p.m.	8360	2548	22.27	565.6	.....	.....	45.9	7.7	68.2	14	1	.....	.....	.....	.....	9	6	.....	.....	.....	8	1.50	38.1
INDIAN.																										
Kurachee	N. 24 47	E. 67 04	4.36 p.m.	49	15	29.51	749.6	29.56	750.9	88.5	31.4	77	.....	.....	13	17	.....	.....	.....	.....	.....	.....	.....	5	0	0
Deesa	N. 24 16	E. 72 14	4.57 p.m.	465	142	29.02	737.2	29.48	748.8	98.3	36.8	41	.....	.....	7	20	2	.....	.....	1	.....	.....	.....	5	1.21	30.7
Bombay	N. 18 54	E. 72 49	5.00 p.m.	37	11	29.63	752.6	29.67	753.6	82.6	28.1	84	.....	1	17	8	4	.....	.....	.....	.....	.....	.....	9	27.54	699.5
Poona	N. 18 28	E. 74 10	5.05 p.m.	1849	564	27.82	706.6	29.66	753.4	78.8	26.0	68	.....	.....	13	15	1	1	.....	.....	.....	.....	.....	8	9.31	236.5
Trichinopoly	N. 10 50	E. 78 44	5.23 p.m.	275	84	29.47	748.5	29.74	755.5	88.8	31.6	49	1	16	10	1	2	.....	.....	.....	.....	.....	.....	9	0	0
Bellary	N. 15 09	E. 76 57	5.16 p.m.	1455	444	28.21	716.6	29.65	753.2	86.9	30.5	49	.....	3	21	6	.....	.....	.....	.....	.....	.....	.....	.....	0.02	0.5
Belgaum	N. 15 52	E. 74 42	5.07 p.m.	2550	777	27.20	691.1	29.75	755.6	71.8	22.1	86	.....	.....	14	16	.....	.....	.....	.....	.....	.....	.....	8	16.95	430.5
Lahore	N. 31 34	E. 74 20	5.05 p.m.	732	223	28.65	727.6	29.34	745.3	104.8	40.4	26	3	3	9	3	1	2	2	2	5	.....	.....	2	0.47	11.9
Roorkee	N. 29 52	E. 77 56	5.20 p.m.	887	270	28.54	724.9	29.40	746.7	95.5	35.3	46	.....	7	3	2	1	4	5	2	6	.....	.....	4	5.37	136.4
Agra	N. 27 10	E. 78 05	5.20 p.m.	555	169	28.88	733.6	29.46	748.3	95.6	35.3	48	2	6	1	2	4	3	7	5	.....	.....	.....	4	2.06	52.3

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea. Feet.	Altitude of Barometer above sea. Met'rs	Mean Barometer. Actual. Inch.	Mean Barometer. Actual. Mill.	Mean Barometer. Reduced. Inch.	Mean Barometer. Reduced. Mill.	Mean Temperature. Fah.	Mean Temperature. Cent.	Mean Rel. Humidity.	Wind. Directions. N	NW	W	SW	S	SE	E	NE	C	Wind. Total Movement. Miles	Kil.	Average Cloudiness. 0-10	Total Precipitation. Inch.	Mill.
INDIAN.—Cont'd.	° ′	° ′																								
Nagpur	N. 21 09	E. 79 11	5.24 p.m.	1025	312	28.50	723.8	29.52	749.7	86.2	30.1	62	1	6	5	10	1	1	1	.....	5	.....	.....	9	8.92	226.6
Jubulpore	N. 23 09	E. 79 59	5.28 p.m.	1351	412	28.22	716.6	29.55	750.5	84.3	29.1	65	.....	5	8	2	4	2	4	1	4	.....	.....	8	23.93	607.8
Lucknow	N. 26 50	E. 81 00	5.32 p.m.	369	112	29.07	738.4	29.44	747.6	93.1	33.9	56	2	1	4	5	.....	2	3	2	11	.....	.....	4	4.67	118.6
Alahabad	N. 25 26	E. 81 52	5.35 p.m.	307	94	29.12	739.7	29.42	747.4	92.0	33.3	59	.....	2	1	4	1	3	8	3	8	.....	.....	6	11.11	282.2
Patna	N. 25 37	E. 85 08	5.49 p.m.	183	56	29.31	744.4	29.49	749.0	88.2	31.2	71	.....	2	2	2	1	6	9	8	.....	.....	.....	6	7.77	197.4
Hazaribagh	N. 24 00	E. 85 24	5.50 p.m.	2007	612	27.51	698.8	29.48	748.9	82.3	27.9	60	4	6	3	1	5	4	6	.....	1	.....	.....	8	10.10	256.5
Cuttack	N. 20 29	E. 85 54	5.52 p.m.	80	24	29.44	747.7	29.52	749.7	87.7	30.9	67	1	.....	1	8	9	5	1	2	3	.....	.....	6	6.46	164.1
Calcutta	N. 22 33	E. 88 21	6.01 p.m.	21	7	29.48	748.8	29.50	749.4	84.0	28.9	83	.....	2	1	13	10	3	.....	1	.....	.....	.....	8	9.99	253.8
Dhubri	N. 26 07	E. 89 50	6.08 p.m.	118	36	29.38	746.2	29.50	749.2	82.3	27.9	83	.....	.....	.....	3	3	1	5	3	15	.....	.....	6	29.28	743.7
Chittagong	N. 22 21	E. 91 50	6.15 p.m.	87	26	29.51	749.8	29.60	751.8	81.5	27.5	86	.....	1	1	3	13	6	2	.....	4	.....	.....	7	1.49	37.8
Sibsagar	N. 26 59	E. 94 40	6.27 p.m.	333	102	29.23	742.4	29.56	750.8	84.8	29.3	79	.....	.....	.....	15	1	1	1	12	.....	.....	.....	7	9.29	236.0
Jeypore	N. 26 55	E. 75 50	5.05 p.m.	1431	436	28.05	712.4	29.58	751.4	96.5	35.8	41	.....	8	7	2	3	2	5	3	.....	.....	.....	6	1.08	27.4
Zanzibar	S. 6 10	E. 39 11	2.45 p.m.	23	7	30.03	762.7	.....	.....	82.5	28.1	59	.....	.....	.....	2	13	13	.....	.....	2	.....	.....	6	0.49	12.4
JAPANESE.																										
Aomori	N. 40 51	E. 140 45	9.31 p.m.	32	10	29.76	755.9	29.79	756.7	59.9	15.5	84.3	6	2	9	3	1	.....	3	2	4	3658	5887	7	2.51	63.7
Hakodate	N. 41 47	E. 140 44	9.31 p.m.	10	3	29.77	756.3	29.78	756.5	56.0	13.4	89	1	.....	7	3	2	1	9	.....	7	5185	8344	6	1.78	45.2
Hiroshima	N. 34 20	E. 132 27	8.58 p.m.	14	4	29.75	755.5	29.76	755.9	68.1	20.1	85.4	9	1	8	7	4	.....	1	.....	.....	2933	4720	7	7.10	180.4
Kanazawa	N. 36 33	E. 136 40	9.14 p.m.	95	29	29.80	756.9	29.90	759.5	64.7	18.2	87.2	9	1	5	.....	4	4	5	2	.....	4155	6687	9	6.36	161.7
Kioto	N. 35 01	E. 135 46	9.11 p.m.	162	49	29.62	752.6	29.80	756.9	67.8	19.9	80.0	5	2	4	3	8	1	4	2	1	1786	2874	8	5.99	152.2
Kochi	N. 33 33	E. 133 34	9.02 p.m.	20	6	29.80	756.8	29.82	757.4	69.4	20.8	88.5	3	8	3	.....	7	1	6	2	.....	4319	6951	10	24.31	617.6
Nagasaki	N. 32 44	E. 129 52	8.47 p.m.	189	58	29.61	752.1	29.81	757.1	67.8	19.9	87.4	5	.....	3	9	5	1	2	3	2	3476	5594	8	20.96	532.4
Nemuro	N. 43 20	E. 145 35	9.50 p.m.	58	18	29.76	756.0	29.82	757.5	49.8	9.9	90.7	3	1	1	.....	1	5	1	2	16	.....	.....	9	5.55	141.0
Niigata	N. 37 55	E. 139 03	9.24 p.m.	32	10	29.76	755.8	29.79	756.7	63.5	17.5	89.4	12	.....	5	4	.....	....	4	4	1	3814	6138	8	3.02	76.6
Nobiru	N. 38 23	E. 141 12	9.32 p.m.	15	5	29.77	756.2	29.79	756.6	62.4	16.9	89.1	10	2	.....	2	8	2	3	3	.....	6249	10056	8	5.56	137.5
Supporo	N. 43 04	E. 141 23	9.33 p.m.	60	18	.....	.....	.....	.....	56.6	13.7	88	6	4	.....	.....	1	7	2	.....	10	4784	7699	7	1.78	45.3
Tokei	N. 35 40	E. 139 45	9.27 p.m.	63	19	29.73	755.1	29.80	756.8	67.0	19.4	88.8	5	1	1	2	14	.....	5	1	1	3635	5850	7	7.55	191.8
Wakayama	N. 34 14	E. 135 09	9.09 p.m.	48	15	29.75	755.6	29.80	756.9	68.9	20.5	82.1	2	.....	2	4	6	.....	6	4	6	2483	3996	8	10.77	273.6
MAURITIUS.																										
Mauritius	S. 20 06	E. 57 33	3.58 p.m.	181	55	29.95	760.7	30.14	765.5	73.2	22.9	65.3	.....	2	2	2	3	10	11	.....	.....	.....	.....	5	2.86	72.6
MEXICAN.																										
Guanajuato	N. 21 01	W. 100 48	5.24 a.m.	6762	2061	23.70	602.0	29.92	760.0	60.8	16.0	86	1	.....	1	2	.....	.....	3	9	14	.....	.....	6	9.25	235.0
Leon	N. 21 07	W. 101 35	5.22 a.m.	5902	1799	24.33	618.0	29.96	760.9	61.3	16.3	85	4	15	1	3	.....	1	.....	5	1	.....	.....	7	4.78	121.4
Mazatlan	N. 23 11	W. 106 17	5.03 a.m.	249	76	29.67	753.7	29.93	760.2	76.4	24.7	88	2	6	.....	1	.....	6	5	10	.....	.....	.....	5	0.81	20.5
Mexico	N. 19 26	W. 99 00	5.32 a.m.	7490	2283	23.12	587.3	30.14	765.5	56.1	13.4	80	1	9	2	.....	.....	.....	.....	.....	18	.....	.....	8	4.98	126.4
Morelia	N. 19 42	W. 101 06	5.22 a.m.	6247	1940	24.20	614.7	30.16?	768.7?	60.8	16.0	61	6	.....	.....	.....	1	8	1	14	.....	.....	.....	4	4.99?	126.0?
Pabellon *a*	N. 22 04	W. 102 04	5.20 a.m.	6312	1924	23.94	608.0	29.88	758.9	62.8	17.1	88	4	.....	3	1	3	5	1	1	11	.....	.....	.....	5.78	146.6
Puebla	N. 19 02	W. 98 03	5.36 a.m.	7113	2168	23.43	595.1	30.16	766.1	55.3	12.9	89	.....	.....	.....	.....	.....	.....	.....	2	28	.....	.....	3	11.33?	261.8?
San Luis Potosi	N. 22 10	W. 100 51	5.25 a.m.	6211	1893	24.25	615.8	30.15	765.8	62.6	17.0	69	.....	1	1	1	1	7	16	3	.....	.....	.....	7	2.56	65.0
Zacatecas	N. 22 44	W. 102 26	5.18 a.m.	8100	2469	22.59	553.8	30.18	766.3	56.3	13.5	83	2	.....	3	1	.....	2	9	5	8	.....	.....	4	3.56	90.4
NETHERLANDS.																										
Flushing	N. 51 24	F. 3 35	0.22 p.m.	0	0	29.94	760.5	29.94	760.5	62.4	16.9	.....	.....	3	12	7	1	3	2	2	.....	.....	.....	.....	3.02	76.6
Groningen	N. 53 12	E. 6 34	0.34 p.m.	?	?	29.82	757.4	29.87	758.8	62.4	16.9	.....	6	6	3	6	7	1	1	.....	.....	.....	.....	.....	5.04	127.9
Helder	N. 52 58	E. 4 45	0.27 p.m.	0	0	29.87	758.8	29.87	758.8	58.6	14.8	.....	1	3	8	10	3	1	3	1	.....	.....	.....	.....	4.76	121.0
Hellevoetsluis	N. 51 49	E. 4 08	0.25 p.m.	0	0	29.92	759.9	29.92	759.9	62.2	16.8	70.3	.....	7	8	8	.....	1	1	3	2	.....	.....	.....	4.74	120.3
Utrecht	N. 52 05	E. 5 07	0.29 p.m.	43	13	29.87	758.6	29.91	759.8	64.0	17.8	67.4	1	.....	8	13	4	3	.....	1	.....	.....	.....	6	5.75	146.1
NORWEGIAN.																										
Bergen	N. 60 24	E. 5 20	0.29 p.m.	56	17	29.72	755.0	29.79	756.6	62.1	16.7	60.3	3	9	5	.....	7	4	2	.....	.....	.....	.....	6	4.54	115.2
Brono	N. 65 28	E. 12 14	0.57 p.m.	34	10	29.81	757.2	29.85	758.2	58.6	13.8	60.2	9	4	2	2	.....	4	2	6	1	.....	.....	5	1.80	45.6
Christiania	N. 59 55	E. 10 45	0.51 p.m.	134	41	29.67	753.6	29.81	757.2	64.2	17.9	57.1	3	2	1	8	6	2	6	2	.....	.....	.....	7	3.18	80.7
Gjæsvær	N. 71 07	E. 25 22	1.49 p.m.	23	7	29.93	760.1	29.95	760.7	45.1	7.3	.....	3	3	7	2	.....	2	2	6	5	.....	.....	7	.....	.....
Lodingen	N. 68 24	E. 16 01	1.12 p.m.	43	13	29.87	758.6	29.91	759.8	53.2	11.8	54.6	3	2	1	3	2	.....	5	9	5	.....	.....	5	1.28	32.4
PORTUGUESE.																										
Angra	N. 38 39	W. 27 14	10.19 a.m.	144	44	.....	.....	.....	.....	66.6	19.2	78.6	2	3	10	2	1	9	2	1	.....	.....	.....	3	0.14	3.5
Campo Major	N. 39 02	W. 6 59	11.40 a.m.	945	288	29.07	738.4	30.04	762.9	77.7	25.4	34.4	5	3	7	7	3	2	3	.....	.....	.....	.....	2	0.11	2.8
Funchal	N. 32 38	W. 16 55	11.00 a.m.	82	25	30.13	765.3	30.22	767.5	69.3	20.7	64.8	*a*	.....	.....	26	2	.....	.....	.....	1	.....	.....	6	0.97	24.6
Lisbon	N. 38 42	W. 9 08	11.31 a.m.	335	102	29.78	756.3	30.13	765.3	69.6	20.9	52.0	10	8	2	5	3	.....	1	1	.....	.....	.....	2	0.35	9.0
Ponta Delgada	N. 37 45	W. 25 41	10.25 a.m.	66	20	30.26	768.7	30.34	770.5	71.4	21.9	62.9	3	1	5	5	1	4	.....	4	7	.....	.....	4	0.60	15.3
St. Paul de Loanda	S. 8 49	E. 13 07	1.00 p.m.	193	59	29.81	757.2	30.02	762.4	73.4	23.0	88.6	11	4	10	3	1	1	.....	.....	.....	.....	.....	4	0	0
Serra da Estrella	N. 40 25	W. 7 35	11.37 a.m.	4728	1441	25.39	645.0	30.05	763.2	57.9	14.4	49.8	2	6	7	.....	.....	7	5	3	.....	.....	.....	3	1.94	49.4
RUSSIAN.																										
Akmolinski	N. 51 12	E. 71 23	4.54 p.m.	843?	306?	28.65	727.7	29.67	753.7	73.4	23.0	36.9	2	5	6	9	1	5	1	.....	1	.....	.....	4	0.56	14.1
Archangel	N. 64 33	E. 40 32	2.50 p.m.	16	5	29.84	757.9	29.86	758.4	53.2	11.8	67.9	4	8	7	2	1	1	3	.....	4	.....	.....	7	2.79	70.8
Astrakhan	N. 46 21	E. 48 02	3.20 p.m.	‖68	‖21	29.89	759.1	29.80	757.0	80.6	27.0	45.9	4	2	7	4	3	6	2	.....	2	.....	.....	4	1.66	42.3
Barnaul	N. 53 20	E. 83 47	5.43 p.m.	459?	140?	29.25	742.9	29.73	755.1	66.2	19.0	53.8	3	3	5	4	3	.....	.....	5	7	.....	.....	6	2.20	56.0
Dorpat	N. 58 23	E. 26 43	1.55 p.m.	223	68	29.65	753.1	29.89	759.1	66.4	19.1	55.7	5	2	6	3	1	1	5	7	.....	.....	.....	7	1.63	41.4
Ekaterinburg	N. 56 49	E. 60 38	4.10 p.m.	894?	272?	28.80	731.4	29.72	755.0	64.4	18.0	57.0	1	4	10	2	2	1	3	5	2	.....	.....	8	3.63	92.1
Kasan	N. 55 47	E. 49 08	3.24 p.m.	249	76	29.46	748.2	29.72	754.8	69.6	20.9	55.8	4	4	3	5	5	1	1	5	2	.....	.....	9	3.52	89.4
Kertch	N. 45 21	E. 36 29	2.34 p.m.	18?	6?	29.82	757.4	29.84	757.9	71.2	21.8	66.9	2	6	2	2	7	6	1	1	3	.....	.....	4	1.88	47.7
Kieff	N. 50 27	E. 30 30	2.10 p.m.	600	183	29.20	741.6	29.81	757.2	68.0	20.0	53.7	6	8	5	5	2	2	.....	2	.....	.....	.....	7	4.04	102.6
Lugan	N. 48 35	E. 39 20	2.45 p.m.	188?	57?	29.55	750.6	29.75	755.6	75.2	24.0	49.3	3	6	8	4	4	3	1	1	.....	.....	.....	7	3.01	76.5
Moscow	N. 55 46	E. 37 40	2.39 p.m.	448	136	29.27	743.4	29.72	754.9	68.0	20.0	52.8	14	.....	2	4	6	.....	2	1	1	.....	.....	6	.....	.....
Nikolaiev	N. 46 58	E. 31 58	2.16 p.m.	62	19	29.82	757.3	29.89	759.1	76.1	24.5	52.3	7	3	1	7	6	.....	.....	3	3	.....	.....	4	2.73	69.4
Nikolaievsk	N. 53 08	E. 140 45	9.31 p.m.	75?	23?	29.67	753.7	29.76	755.9	54.9	12.7	80.2	3	.....	.....	.....	.....	7	4	2	14	.....	.....	7	2.03	51.6
Pekin	N. 39 57	E. 116 28	7.54 p.m.	123?	38?	29.51	749.5	29.65	753.1	80.4	26.9	48.6	.....	1	.....	4	2	3	.....	1	19	.....	.....	4	2.72	69.2
St. Petersburg	N. 59 56	E. 30 16	2.09 p.m.	15	5	29.85	758.2	29.87	758.6	63.7	17.6	50.3	3	10	4	1	2	.....	3	7	.....	.....	.....	5	1.16	29.4
Semipalatinsk	N. 50 24	E. 80 13	5.29 p.m.	607?	185?	29.12	739.7	29.74	755.5	75.7	24.3	36.7	6	7	3	3	.....	.....	.....	3	8	.....	.....	4	1.53	38.8
Tashkend	N. 41 19	E. 69 16	4.45 p.m.	1493?	455?	28.21	716.6	29.07	753.7	86.4	30.2	40.8	3	1	1	.....	.....	.....	.....	1	24	.....	.....	3	0	0
Tiflis	N. 41 43	E. 44 47	3.07 p.m.	1343	409	28.46	723.0	29.81	757.2	80.4	26.9	43.1	2	7	2	.....	8	4	3	.....	4	.....	.....	4	1.21	30.8
Vladivostock	N. 43 09	E. 132 00	8.56 p.m.	59?	18?	29.67	753.6	29.74	755.3	55.8	13.2	92.5	.....	.....	.....	.....	.....	22	1	.....	7	.....	.....	7	.....	.....
Warsaw	N. 52 13	E. 21 02	1.32 p.m.	392	119	29.49	749.1	29.90	759.5	66.6	19.2	54.0	2	10	3	3	4	2	4	2	.....	.....	.....	9	.....	.....
Wilna	N. 54 41	E. 25 18	1.49 p.m.	388	118	29.48	748.8	29.89	759.1	67.6	19.8	49.6	3	5	7	6	1	1	1	5	1	.....	.....	6	2.32	59.0
SCOTTISH.																										
Monach Light H.	N. 57 31	W. 7 42	11.37 a.m.	150	46	29.72	754.9	29.80	756.9	56.1	13.4	93.0	6	4	3	4	3	5	3	.....	2	.....	.....	6	3.6	91.4
SPANISH.																										
Barcelona	N. 41 23	E. 2 11	0.16 p.m.	98	30	29.91	759.7	30.01	762.3	72.7	22.6	66	.....	.....	.....	3	7	7	12	1	.....	1584	2549	3	0.27	6.9
Bilbao	N. 43 15	W. 2 59	11.56 a.m.	52	16	30.06	763.5	30.12	765.0	72.7	22.6	58	1	21	3	.....	1	1	2	1	.....	1838	2958	6	1.02	25.9
Burgos	N. 42 20	W. 3 46	11.53 a.m.	2821	860	27.16	689.8	30.04	763.0	69.1	20.6	54	.....	.....	2	4	1	3	.....	20	.....	4463	7183	3	0.26	6.5
Madrid	N. 40 25	W. 3 42	11.53 a.m.	2152	656	27.85	707.3	29.98	761.4	78.6	25.9	37.7	3	5	3	8	5	1	2	3	.....	740	1191	2	0.30	7.7
Murcia	N. 37 59	W. 1 10	0.03 p.m.	141	43	29.91	759.7	30.07	763.8	73.9	23.3	56.0	.....	3	.....	.....	2	9	9	7	.....	1945	3130	3	0	0
Santiago	N. 42 53	W. 8 28	11.34 a.m.	863	263	29.19	741.4	30.07	763.8	65.1	18.4	71	6	3	.....	9	1	.....	1	3	7	5923	9532	7	2.09	53.0
Sub-Series.																										
Havana	N. 23 08	W. 82 28	7.39 a.m.	62	19	29.99	761.8	30.06	763.5	80.2	26.8	80	1	.....	.....	1	.....	8	11	.....	9	.....	.....	3	3.29	83.6
Manilla	N. 14 35	E. 120 56	8.12 p.m.	54	16	29.81	757.1	29.86	758.5	82.4	28.0	79.7	2	4	.....	7	4	5	7	1	.....	.....	.....	7	8.43	214.1
San Fernando	N. 36 28	W. 6 13	11.43 a.m.	95	29	29.99	761.8	30.09	764.2	75.3	24.1	57	.....	3	12	3	3	1	6	.....	2	.....	.....	2	inap.	inap.
San Juan de Porto Rico	N. 18 30	W. 66 10	7.44 a.m.	82	25	30.01	762.3	30.10	764.6	82.4	28.0	83	.....	.....	.....	2	1	9	13	.....	5	.....	.....	3	1.28	32.5
Tuguegarao	N. 17 37	E. 121 30	8.15 p.m.	125	38	29.73	755.1	29.87	758.7	81.3	27.4	82.8	2	13	3	1	5	1	.....	5	.....	.....	.....	4	1.79	45.5
SWEDISH.																										
Haparanda	N. 65 47	E. 24 03	1.44 p.m.	29	9	29.87	758.6	29.91	759.6	55.9	13.3	65	3	2	.....	6	8	1	.....	9	1	.....	.....	6	2.26	57.5
Umea	N. 63 50	E. 20 17	1.29 p.m.	39	12	29.85	758.3	29.91	759.6	60.4	15.8	54	1	3	.....	10	6	3	4	3	.....	.....	.....	5	1.19	30.2
Hernosand	N. 62 32	E. 17 57	1.20 p.m.	46	14	29.84	757.9	29.89	759.2	58.8	14.9	60	1	1	3	1	10	2	6	6	.....	.....	.....	5	0.88	22.3
Stockholm	N. 59 20	E. 18 04	1.20 p.m.	144	44	29.71	754.5	29.88	759.0	63.7	17.6	49	2	2	5	4	2	7	4	4	.....	.....	.....	5	1.31	33.3
Wisby	N. 57 39	E. 18 19	1.20 p.m.	52	16	29.79	756.6	29.85	758.1	62.6	17.0	61	7	3	3	6	2	5	3	1	.....	.....	.....	4	1.12	28.5
Sub-Series.																										
Upsala	N. 59 51	E. 17 37	1.19 p.m.	79	24	29.77	756.1	29.85	758.3	63.3	17.4	55.6	5	2	.....	6	3	4	4	6	.....	.....	.....	6	1.49	37.8
SWISS.																										
Geneva	N. 46 12	E. 6 08	0.33 p.m.	1338	408	28.64	727.5	30.03	762.7	66.6	19.2	56.7	9	4	1	5	8	2	.....	1	.....	.....	.....	.....	4.08	103.6

‖ Below sea level.

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea. Feet.	Met'rs	Result of Simultaneous Observations for June, 1882. Mean Barometer. Actual. Inch.	Mill.	Reduced. Inch.	Mill.	Mean Temperature. Fah.	Cent.	Mean Rel. Humidity.	Wind. Directions. N	NW	W	SW	S	SE	E	NE	C	Total Movement. Miles	Kil.	Average Cloudiness. 0-10	Total Precipitation. Inch.	Mill.
TURKISH.	° ′	° ′																								
Constantinople	N 41 00	E. 28 59	2.04 p.m.	230	70	.....	.....	29.98	761.4	73.6	23.1	.....	8	4	.....	7	5	.....	.....	6	.....	.....	.....	4	0.82	20.9
Valona	N. 40 27	E. 19 27	1.25 p.m.	105	32	.....	.....	30.11	764.8	78.8	26.0	.....	.....	1	1	1	1	9	4	13	.....	.....	.....	3	0	0
Sub-Series.																										
Beirut	N. 33 54	E. 35 28	2.30 p.m.	111	34	.....	.....	29.72	755.0	79.0	26.1	62.9	4	5	10	9	.....	.....	.....	2	.....	.....	.....	1	0.06	1.5
UNITED STATES.																										
Albany	N. 42 40	W. 73 45	7.13 a.m.	75	23	29.81	757.2	29.89	759.2	66.6	19.2	65.6	7	2	5	4	11	.....	.....	.....	1	4217	6786	5	3.98	101.1
Alpena	N. 45 05	W. 83 28	6.34 a.m.	609	185	29.23	742.4	29.88	758.9	55.7	13.2	75.0	1	10	7	1	1	3	4	2	1	6562	10560	5	6.65	169.2
Atlanta	N. 33 45	W. 84 23	6.31 a.m.	1131	345	28.89	733.8	30.04	763.3	71.3	21.8	79.1	2	10	8	1	1	.....	7	1	.....	5089	8190	6	3.22	81.8
Atlantic City	N. 39 22	W. 74 25	7.11 a.m.	13	4	29.91	759.7	29.92	760.0	65.1	18.4	77.4	5	4	3	5	7	1	1	4	.....	6246	10052	4	1.72	43.7
Augusta	N. 33 28	W. 81 54	6.41 a.m.	183	56	29.87	758.7	30.06	763.5	73.6	23.1	81.3	.....	4	3	6	3	2	2	1	9	2636	4242	6	4.12	104.6
Baltimore	N. 39 18	W. 76 38	7.02 a.m.	45	14	29.91	759.7	29.96	761.0	69.9	21.1	67.3	5	7	5	5	4	2	.....	2	.....	4723	7601	5	2.30	58.4
Barnegat	N. 39 48	W. 74 09	7.12 a.m.	20	6	29.90	759.4	29.92	760.0	66.0	18.9	74.7	6	6	3	6	8	.....	1	.....	.....	7473	12026	5	3.26	82.8
Behring Id	N. 55 12	E. 165 55	11.12 p.m.	20	6	29.75	755.6	29.77	756.1	40.6	4.8	.....	2	1	.....	5	6	4	4	7	1	8960	14420	9	2.03	51.6
Bismarck	N. 46 48	W. 100 38	5.26 a.m.	1694	516	28.09	713.5	29.84	757.9	56.5	13.6	81.4	1	5	1	.....	2	6	6	4	5	5977	9619	5	3.88	98.6
Block Id	N. 41 10	W. 71 37	7.22 a.m.	27	8	29.88	758.9	29.91	759.7	61.8	16.6	78.2	5	5	4	10	.....	2	3	1	.....	8957	14415	4	2.86	72.6
Boise City	N. 43 46	W. 116 06	4.24 a.m.	2750	838	27.10	688.3	29.88	758.9	52.6	11.4	65.3	4	6	10	2	.....	1	1	2	4	3507	5644	3	0.29	7.4
Boston	N. 42 21	W. 71 04	7.23 a.m.	142	43	29.73	755.1	29.88	758.9	62.5	16.9	70.4	1	3	12	6	2	2	1	2	1	5586	8990	5	1.03	26.2
Brownsville	N. 26 00	W. 97 30	5.38 a.m	43	13	29.89	759.2	29.93	760.2	78.0	25.6	88.9	2	.....	.....	1	9	9	1	1	7	5335	8586	3	1.69	42.9
Buffalo *a*	N. 42 53	W. 78 55	6.52 a.m.	696	212	29.17	740.9	29.91	759.7	59.9	15.5	72 9	.....	1	2	8	4	2	3	3	6	6192	9965	6	2.96	75.2
Burlington	N. 44 29	W. 73 13	7.15 a.m.	268	82	29.55	750.6	29.84	757.9	62.2	16.8	70.1	3	2	.....	3	15	.....	.....	3	4	4846	7799	5	3.17	80.5
Cairo	N. 37 00	W. 89 12	6.11 a.m.	377	115	29.61	752.1	30.00	762.0	72.4	22.4	79.9	2	4	3	10	2	3	.....	2	4	4581	7372	5	3.34	84.8
Campc	N. 32 22	W. 116 08	4.22 a.m.	2500	762	27.36	694.9	29.84	757.9	41.7	5.4	80.3	.....	1	11	2	13	2	.....	.....	1	3863	6217	2	0.26	6.6
Camp Thomas	N. 33 04	W. 110 06	4.49 a.m.	2710	826	27.16	689.9	29.79	756.7	62.1	16.7	59.2	.....	1	3	2	7	8	2	1	6	.....	.....	3	1.26	32.0
Cape Henry	N. 36 56	W. 76 00	7.04 a.m.	16	5	29.96	761.0	29.98	761.5	70.5	21.4	74.7	1	4	4	12	5	2	.....	2	.....	8749	14080	4	2.87	72.9
Cape May *b*	N. 38 56	W. 74 58	7.08 a.m.	27	8	29.90	759.4	29.93	760.2	65.9	18.8	79.4	.....	3	6	6	6	2	1	4	.....	8788	14143	5	2.62	66.5
Cedar Keys	N. 29 12	W. 83 02	6.36 a.m.	22	7	30.05	763.3	30.07	763.8	78.2	25.7	79.2	2	.....	10	6	4	.....	4	3	1	6249	10057	6	9.56	242.8
Champaign	N. 40 07	W. 88 14	6.15 a.m.	767	234	29.11	739.4	29.90	759.4	64.7	18.2	76.9	1	3	5	8	4	1	4	4	.....	8415	13542	7	9.93	252.2
Charleston	N. 32 45	W. 79 55	6.49 a.m.	52	16	29.97	761.2	30.02	762.5	76.8	24.9	79.0	3	2	12	8	.....	1	1	3	.....	6160	9913	5	9.12	231.6
Charlotte	N. 35 13	W. 80 51	6.45 a.m.	808	246	29.14	740.1	29.98	761.5	73.5	23.1	68.6	.....	4	6	9	4	.....	3	4	.....	3382	5444	5	1.98	50.3
Chattanooga	N. 35 04	W. 85 15	6.27 a.m.	783	239	29.24	742.7	30.05	763.3	70.9	21.6	80.4	.....	2	7	8	3	.....	1	4	5	3598	5790	5	4.97	126.2
Cheyenne	N. 41 12	W. 104 42	5.09 a.m.	6089	1856	24.05	610.9	29.79	756.7	51.3	10.7	75.5	1	14	5	4	5	.....	.....	1	.....	6261	10076	5	1.85	47.0
Chicago	N. 41 52	W. 87 35	6.18 a.m.	661	201	29.19	741.4	29.88	758.9	61.2	16.2	82.2	5	1	7	6	2	.....	4	5	.....	5916	9521	6	5.71	145.0
Chincoteague	N. 37 55	W. 75 20	7.06 a.m.	18	5	29.93	760.2	29.95	760.7	68.7	20.4	83.0	4	5	3	2	9	.....	3	3	1	6342	10206	4	2.06	52.3
Cincinnati	N. 39 06	W. 84 26	5.30 a.m.	620	189	29.32	744.7	29.97	761.2	68.6	20.3	75.7	1	3	6	6	5	5	2	2	.....	4291	6906	5	4.34	110.2
Cleveland	N. 41 30	W. 81 47	6.42 a.m.	690	210	29.21	741.9	29.94	760.5	62.5	16.9	70.8	1	2	3	6	6	7	1	4	.....	6483	10433	5	4.22	107.2
Coleman City	N. 31 55	W. 99 10	5.32 a.m.	1709	521	28.18	715.8	29.93	760.2	70.4	21.3	81.1	.....	1	1	5	8	9	2	2	2	7411	11927	4	2.11	53.6
Columbus	N. 39 57	W. 83 03	6.36 a.m.	805	245	29.10	739.1	29.94	760.5	64.6	18.1	76.7	1	3	5	8	6	2	1	4	.....	5554	8938	7	6.01	152.7
Concho	N. 31 22	W. 100 20	5.26 a.m.	1900	579	28.04	712.2	29.92	760.0	71.4	21.9	81.4	.....	.....	1	2	13	2	1	5	6	9339	15029	4	2.86	72.6
Davenport	N. 41 32	W. 90 30	6.06 a.m.	615	187	29.26	743.2	29.90	759.4	63.6	17.6	82.8	2	1	7	7	1	2	6	3	1	6348	10216	7	8.43	214.1
Dayton	N. 46 23	W. 117 50	4.16 a.m.	1660	506	28.21	716.5	29.95	760.7	51.6	10.9	78.9	5	1	.....	14	3	.....	1	.....	6	3395	5319	4	0.77	19.6
Deadwood	N. 44 22	W. 103 34	5.14 a.m.	4600	1402	25.33	643.4	29.76	755.9	52.5	11.4	83.7	6	.....	3	14	3	.....	1	.....	3	3582	5764	6	5.78	156.8
Decatur *f*	N. 33 10	W. 97 30	5.38 a.m.	1129	344	.....	.....	.....	.....	74.0	23.3	55.3	2	1	.....	1	6	13	1	.....	.....	5738	9234	3	2.91	73.9
Del. Breakwater	N. 38 48	W. 75 05	7.08 a.m.	20	6	29.92	760.0	29.94	760.5	66.2	19.0	83.8	2	3	5	11	1	3	.....	5	.....	9303	14971	5	1.13	28.7
Denison	N. 33 50	W. 96 40	5.41 a.m.	767	234	29.17	740.9	29.95	760.7	71.7	22.1	82.3	1	2	.....	4	16	2	.....	2	3	5561	8949	3	1.80	47.2
Denver	N. 39 45	W. 105 04	5.08 a.m.	5294	1614	24.73	628.1	29.77	756.1	57.1	13.9	72.4	3	3	.....	3	15	3	1	2	.....	5259	8463	4	4.96	126.0
Des Moines	N. 41 35	W. 93 40	5.53 a.m.	849	259	29.02	737.1	29.90	759.4	62.0	16.7	81.5	3	1	5	5	4	2	4	4	2	5262	8468	7	12.16	308.8
Detroit *a*	N. 42 21	W. 83 07	6.36 a.m.	661	201	29.20	741.7	29.88	758.9	63.0	17.2	71.6	5	4	1	5	1	4	4	5	.....	7006	11270	6	3.70	94.0
Dodge City	N. 37 39	W. 100 08	5.27 a.m.	2512	766	27.32	693.9	29.83	757.7	64.4	18.0	82.0	4	2	1	2	15	2	2	2	.....	8249	13275	4	1.51	38.4
Dubuque	N. 42 30	W. 90 44	6.05 a.m.	665	203	29.19	741.4	29.88	758.9	61.6	16.4	76.1	3	4	5	4	3	5	4	2	.....	3990	6421	6	6.29	159.8
Duluth	N. 46 48	W. 92 08	6.00 a.m.	644	184	29.22	742.2	29.91	759.7	54.2	12.3	72.5	.....	10	4	1	.....	1	1	9	4	4671	7517	5	6.72	170.7
Eagle Pass	N. 28 40	W. 100 15	5.26 a.m.	780	238	29.17	740.9	29.96	761.0	75.2	24.0	82.8	.....	.....	.....	.....	.....	25	....	1	4	5318	8558	4	1.02	25.9
Eagle Rock	N. 43 30	W. 112 04	4.40 a.m.	4650	1415	25.24	641.1	29.83	757.7	40.9	8.3	61.2	8	.....	3	3	12	.....	.....	.....	4	7482	12041	2	0.52	13.2
Eastport	N. 44 55	W. 66 54	7.40 a.m.	61	18	29.76	755 9	29.83	757.7	55.0	12.8	73.8	4	8	2	4	10	.....	.....	1	1	5062	8146	5	6.53	165.9
El Paso	N. 31 46	W. 106 32	5.02 a.m.	3760	1146	26.23	666.2	29.82	757.4	65.8	18.8	52.3	.....	13	1	.....	.....	1	4	7	4	4323	6957	3	0.43	10.9
Erie	N. 42 07	W. 80 10	6.47 a.m.	681	208	29.20	741.7	29.92	760.0	63.2	17.3	73.0	1	2	1	9	7	2	1	1	6	5567	8959	4	3.43	87.1
Escanaba	N. 45 46	W. 87 14	6.20 a.m.	612	186	29.23	742.4	29.88	758.9	56.0	13.3	76.0	10	6	1	.....	2	1	2	1	7	5486	8829	5	6.15	156.2
Fort Apache	N. 33 47	W. 109 58	4.49 a.m.	5050	1539	25.02	635.5	29.76	755.9	48.5	9.2	58.8	.....	.....	.....	.....	.....	1	14	15	.....	5045	8119	4	3.27	83.1
Fort Assinnaboine	N. 48 37	W. 109 43	4.49 a.m.	2710	826	27.10	688.3	29.89	759.2	53.5	11.9	73.2	1	1	2	16	2	.....	1	6	1	6107	9828	4	1.00	20.9
Fort Bennett	N. 44 42	W. 100 38	5.26 a.m.	1510	457	28.27	718.0	29.81	757.2	58.0	14.4	87.9	6	8	1	.....	1	13	1	.....	.....	5763	9274	6	4.06	103.1
Fort Benton *j*	N. 47 51	W. 110 40	4.45 a.m.	2700	823	27.13	689.1	29.90	759.4	53.3	11.8	80.2	1	.....	10	1	1	1	1	.....	5	3272	5266	4	0.13	3.3
Fort Buford	N. 48 03	W. 103 58	5.12 a.m.	1900	579	27.94	709.7	29.90	759.4	53.0	11.7	74.8	2	2	3	1	3	.....	10	6	3	5029	8093	4	1.87	47.5
Fort Custer	N. 45 48	W. 107 38	4.58 a.m.	3040	927	26.78	680.2	29.84	757.9	55.6	13.1	87.2	5	4	5	4	2	3	5	1	1	4697	7559	6	2.43	61.7
Fort Davis	N. 30 30	W. 103 45	5.13 a.m.	4940	1506	25.22	640.6	29.83	757.7	66.6	19.2	62.7	2	1	.....	8	5	1	1	.....	12	4084	6572	3	3.19	81.0
Fort Elliott	N. 35 31	W. 100 27	5.28 a.m.	2650	808	27.17	690.1	29.84	757.9	63.2	17.3	69.1	.....	2	1	3	4	13	.....	5	2	8749	14080	4	1.54	39.1
Fort Grant	N. 32 25	W. 109 56	4.49 a.m.	4860	1481	25.22	640.6	29.76	755.9	63.5	17.5	42.9	8	5	.....	2	.....	4	5	5	1	5316	8555	4	1.47	37.3
Fort Keogh	N. 46 17	W. 105 55	5.05 a.m.	2372	723	27.40	695.9	29.83	757.7	55.4	13.0	77.8	.....	3	1	7	2	7	4	5	1	5704	9180	5	1.76	44.7
Fort Macon	N. 34 42	W. 76 40	7.01 a.m.	11	3	29.99	761.7	30.00	762.0	73.2	22.9	82.5	3	4	3	8	2	5	.....	5	.....	9610	15466	6	1.52	38.6
Fort McKavett	N. 30 48	W. 99 58	5.28 a.m.	2240	683	27.76	705.1	29.96	761.0	70.5	21.4	74.8	.....	.....	.....	8	12	5	2	1	2	7008	11278	3	1.90	48.3
Fort Missoula	N. 46 50	W. 114 01	4.32 a.m.	3140	957	26.68	677.7	29.94	760.5	52.5	11.4	77.0	2	3	1	12	4	4	.....	4	.....	2733	4398	5	1.51	38.4
Fort St. Michael	N. 63 48	W. 162 00	1.20 a.m.	30	9	29.85	758.2	29.88	758.9	46.0	7.8	90.1	2	3	2	6	1	4	2	7	3	5031	8096	7	0.25	6.3
Fort Shaw	N. 47 29	W. 111 46	4.41 a.m.	3550	1082	26.32	668.5	29.89	759.2	49.4	9.7	78.4	1	1	25	2	.....	.....	.....	.....	1	5147	8283	4	1.69	42.9
Fort Sill	N. 34 40	W. 98 30	5.34 a.m.	1200	366	28.72	729.5	29.92	760.0	69.9	21.1	81.4	3	.....	.....	1	18	2	3	.....	3	8670	13953	4	3.25	82.5
Fort Smith	N. 35 22	W. 94 24	5.50 a.m.	449	137	29.51	749.5	29.97	761.2	70.8	21.6	85.6	1	1	1	1	.....	5	11	1	9	2965	4772	4	2.10	53.3
Fort Stevenson	N. 47 36	W. 101 23	5.22 a.m.	1750	534	28.06	712.7	29.86	758.4	55.3	12.9	86.1	1	4	2	4	.....	7	5	6	1	5062	8146	5	5.61	142.5
Fort Verde	N. 34 24	W. 111 53	4.38 a.m.	?	?	.....	.....	.....	.....	61.9	16.6	48.1	.....	9	4	8	6	3	.....	.....	.....	.....	.....	2	1.35	34.3
Fort Washakie	N. 42 59	W. 108 43	4.50 a.m.	5580	1702	24.46	621.3	29.84	757.9	47.4	8.6	79.9	.....	6	10	7	.....	.....	1	2	4	4343	6989	6	1.51	38.4
Fredericksburg	N. 30 20	W. 98 40	5.33 a.m.	1700	518	28.25	717.5	29.93	760.2	70.2	21.2	87.1	1	.....	.....	18	4	.....	1	1	5	5744	9245	3	0.30	7.6
Galveston	N. 29 18	W. 94 50	5.49 a.m.	48	15	29.94	760.5	29.99	761.7	78.7	25.9	83.4	1	.....	2	10	11	1	1	4	.....	9329	15013	4	6.16	156.5
Grand Haven	N. 43 05	W. 86 18	6.23 a.m.	620	189	29.23	742.4	29.88	758.9	60.7	15.9	75.2	.....	2	4	3	5	4	6	6	.....	7094	11416	5	6.05	153.7
Hatteras	N. 35 14	W. 75 30	7.06 a.m.	19	6	29.98	761.5	30.00	762.0	73.1	22.8	80.2	1	5	2	8	4	3	1	6	.....	12409	19970	4	0.63	16.0
Helena	N. 46 33	W. 112 02	4.40 a.m.	4100	1250	25.76	654.3	29.88	758.9	53.6	12.0	66.3	.....	2	12	11	1	.....	.....	.....	4	4625	7443	5	1.18	30.0
Henrietta *a*	N. 33 42	W. 98 00	5.36 a.m.	980	300	28.99	736.3	29.97	761.2	74.2	23.4	74.6	2	1	1	....	18	2	1	1	3	7323	11785	4	2.13	54.1
Huron	N. 44 21	W. 98 17	5.35 a.m.	1305	398	28.51	724.1	29.85	758.2	57.5	14.2	84.3	1	8	1	.....	5	5	6	4	.....	6646	10696	5	5.80	148.8
Indianapolis	N. 39 47	W. 86 00	6.24 a.m.	753	229	29.15	740.4	29.93	760.2	67.6	19.8	74.7	1	5	4	8	4	2	2	2	2	3787	6094	6	9.35	237.5
Indianola	N. 28 32	W. 96 38	5.42 a.m.	26	8	29.95	760.7	29.98	761.5	77.8	25.4	87.6	2	.....	.....	1	12	11	.....	4	.....	9351	15049	4	1.79	45.5
Jacksboro	N. 33 10	W. 98 00	5.35 a.m.	1120	341	28.81	731.8	29.93	760.2	72.4	22.4	78.1	2	.....	.....	6	12	4	4	1	1	6677	10745	3	2.08	52.8
Jacksonville	N. 30 24	W. 81 40	6.41 a.m.	43	13	30.02	762.5	30.06	763.5	79.2	26.2	75.5	1	.....	1	14	6	2	.....	2	4	3775	6075	6	5.14	130.6
Keokuk	N. 40 23	W. 91 25	6.02 a.m.	618	188	29.25	742.9	29.89	759.2	66.7	19.3	80.2	3	2	6	6	2	3	4	2	2	5100	8207	6	9.45	240.0
Key West	N. 24 32	W. 81 48	6.41 a.m.	20	6	30.03	762.7	30.05	763.3	83.3	28.5	70.9	.....	.....	.....	.....	3	3	15	6	1	4949	7964	4	3.48	88.4
KittyHawk	N. 36 00	W. 75 23	7.05 a.m.	22	7	29.99	761.7	30.01	762.2	70.4	21.3	79.3	3	2	6	7	3	2	4	3	.....	9969	16043	3	4.99	126.7
Knoxville	N. 35 56	W. 83 58	6.32 a.m.	980	299	29.03	737.3	30.04	763.0	67.5	19.7	86.4	4	.....	3	12	1	4	.....	5	1	3925	6316	5	3.56	90.4
La Crosse *a*	N. 43 48	W. 91 23	6.03 a.m.	725	221	29.12	739.6	29.88	758.9	63.1	17.3	66.6	6	.....	2	4	8	6	1	1	1	4842	7792	5	4.78	121.4
La Mesilla	N. 32 17	W. 106 48	5.48 a.m.	3900	1189	26.08	662.4	29.80	756.9	60.7	15.9	61.0	2	1	.....	1	1	4	.....	.....	21	1967	3166	4	0.72	18.3
Leavenworth	N. 39 19	W. 94 57	5.10 a.m.	842	256	29.04	737.6	29.91	759.7	67.2	19.6	76.8	.....	5	.....	1	10	4	2	1	7	4254	6846	5	5.06	128.5
Lewiston	N. 46 25	W. 116 59	4.20 a.m.	780	238	29.10	739.1	29.92	760.0	58.8	14.9	63.4	.....	1	5	1	2	4	9	1	7	2598	4181	4	0.36	9.1
Little Rock	N. 34 40	W. 92 12	5.59 a.m.	298	91	29.67	753.6	29.98	761.5	72.5	22.5	87.8	1	4	1	5	5	2	1	.....	11	3470	5584	4	1.96	49.8
Los Angeles	N. 34 03	W. 118 16	4.15 a.m.	371	113	29.58	751.3	29.98	761.5	56.3	13.5	81.8	3	2	3	6	6	2	5	3	.....	4125	6638	4	inap.	inap.
Louisville	N. 38 18	W. 85 52	6.25 a.m.	530	162	29.39	746.5	29.94	760.5	69.3	20.7	78.1	2	2	1	8	9	4	.....	2	2	5568	8961	6	5.23	132.8
Lynchburg	N. 37 30	W. 79 02	6.52 a.m.	652	199	29.30	744.2	29.97	761.2	72.0	22.2	67.5	1	1	4	12	3	.....	3	3	3	2447	3938	6	4.00	103.1
Madison	N. 43 03	W. 89 30	6.10 a.m.	949	289	28.90	734.0	29.89	759.2	59.0	15.0	81.8	3	3	7	4	2	3	6	2	.....	6400	10300	6	7.76	197.1
Marquette	N. 46 33	W. 87 36	6.19 a.m.	673	205	29.19	741.4	29.91	759.7	56.2	13.4	64.7	6	5	5	2	3	3	1	2	3	4908	7898	4	2.09	68.3
Memphis	N. 35 07	W. 90 07	6.08 a.m.	321	98	29.67	753.6	30.00	762.0	74.6	23.7	78.6	.....	3	2	3	11	8	2	.....	1	3703	5959	4	4.15	105.4
Milwaukee	N. 43 03	W. 87 54	6.17 a.m.	697	212	29.15	740.4	29.89	759.2	58.5	14.7	78.7	8	3	8	3	1	3	2	2	.....	8178	13161	6	3.77	95.8
Mobile	N. 30 42	W. 87 59	6.16 a.m.	41	12	30.01	762.2	30.05	763.3	76.4	24.7	83.7	5	2	11	2	.....	1	4	5	.....	3943	6346	5	2.40	61.0
Montgomery	N. 32 22	W. 86 23	6.23 a.m.	219	66	29.82	757.4	30.05	763.3	74.2	23.4	82.1	.....	4	5	12	2	4	1	1	1	3516	5658	5	3.98	101.1
Moorhead	N. 46 52	W. 96 40	5.41 a.m.	923	281	28.91	734.3	29.88	758.9	55.5	13.1	81.9	5	1	1	1	2	8	.....	5	7	6848	11021	5	5.43	137.9

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea Feet.	Altitude of Barometer above sea Met'rs	Result of Simultaneous Observations for June, 1882. Mean Barometer. Actual. Inch.	Actual. Mill.	Reduced. Inch.	Reduced. Mill.	Mean Temperature. Fah.	Mean Temperature. Cent.	Mean Rel. Humidity.	Wind. Directions. N	NW	W	SW	S	SE	E	NE	C	Total Movement. Miles	Total Movement. Kil.	Average Cloudiness. 0-10	Total Precipitation. Inch.	Total Precipitation. Mill.
U. S.—Continued.	° ′	° ′																								
Morgantown	N. 39 36	W. 79 52	6.48 a.m.	963	293	28.97	735.8	29.97	761.2	65.9	18.8	79.7	1	1	.....	9	1	.....	1	2	15	3280	5279	6	3.39	86.1
Mt. Washington	N. 44 16	W. 71 16	7.22 a.m.	6279	1914	23.69	601.7	29.81	757.2	39.6	4.2	83.5	1	22	2	2	1	.....	.....	.....	2	28235	45439	4	11.40	289.6
Nashville	N. 36 11	W. 86 53	6.21 a.m.	507	154	29.48	748.8	30.00	762.0	72.1	22.3	77.0	.....	3	11	8	4	2	1	.....	1	2634	4239	5	2.51	63.8
New Haven	N. 41 17	W. 72 57	7.16 a.m.	107	32	29.79	756.7	29.90	759.4	62.7	17.1	73.8	9	3	2	5	6	2	.....	2	1	4682	7535	5	2.74	69.6
New London	N. 41 22	W. 72 09	7.19 a.m.	47	14	29.86	758.4	29.91	759.7	64.7	18.2	77.9	1	4	6	4	6	1	2	2	4	4474	7200	4	4.85	123.2
New Orleans	N. 29 58	W. 90 07	6.08 a.m.	52	16	29.97	761.2	30.02	762.5	78.2	25.7	79.1	2	.....	2	8	7	1	5	2	3	4497	7237	5	2.71	68.8
Newport	N. 41 29	W. 71 19	7.23 a.m.	44	13	29.86	758.4	29.91	759.7	63.5	17.5	72.1	1	7	2	10	3	1	2	4	.....	5536	8909	4	2.99	75.9
New River *d*	N. 34 30	W. 77 23	6.58 a.m.	.....	.....	.....	.....	.....	.....	73.8	23.2	78.5	.....	4	5	5	1	2	.....	5	4	.....	.....	4	6.27	159.3
New York *a*	N. 40 43	W. 74 00	7.12 a.m.	164	50	29.75	755.6	29.92	760.0	64.3	17.9	74.6	2	3	3	9	3	4	1	4	.....	5220	8401	4	2.82	71.6
Norfolk	N. 36 51	W. 76 19	7.03 a.m.	30	9	29.95	760.7	29.98	761.5	72.3	22.4	73.5	4	1	7	9	3	2	3	1	.....	5281	8499	5	3.12	79.2
North Platte	N. 41 08	W. 100 53	5.24 a.m.	2841	866	27.01	686.0	29.81	757.2	60.9	16.1	83.2	5	2	2	1	2	3	6	5	4	7109	11441	5	4.84	122.9
Olympia	N. 47 02	W. 122 56	3.56 a.m.	36	11	29.99	761.7	30.03	762.7	51.3	10.7	87.1	2	4	2	1	8	.....	.....	4	9	2775	4466	6	1.00	25.4
Omaha	N. 41 16	W. 96 00	5.45 a.m.	1113	339	28.76	730.5	29.90	759.4	65.4	18.6	78.7	1	5	.....	4	3	5	3	5	4	6747	10858	6	12.05	306.1
Ooglaamie	N. 71 17	W. 156 40	1.41 a.m.	17	5	29.86	758.4	29.88	758.9	31.6	—0.2	98.5c	6	5	2	2	.....	1	8	6	.....	7426	11951	5	0.63	16.0
Oswego	N. 43 29	W. 76 35	7.01 a.m.	304	93	29.55	750.6	29.87	758.7	60.6	15.9	75.5	1	1	11	3	8	3	.....	3	.....	5539	8914	4	3.72	94.5
Palestine	N. 31 45	W. 95 40	5.45 a.m.	523	162	29.48	748.8	30.02	762.5	73.1	22.8	84.1	2	.....	1	9	11	1	4	2	.....	6715	10806	4	0.83	21.1
Pensacola	N. 30 25	W. 87 12	6.19 a.m.	30	9	30.01	762.2	30.04	763.0	77.1	25.1	85.2	4	2	3	8	4	1	5	1	2	5957	9587	5	3.95	100.3
Philadelphia	N. 39 57	W. 75 10	7.07 a.m.	92	28	29.84	757.9	29.94	760.5	68.6	20.3	69.3	2	6	3	8	8	.....	.....	3	.....	4900	7982	4	1.90	48.3
Pike's Peak	N. 38 50	W. 105 02	5.08 a.m.	14134	4308	17.88	454.1	29.70	754.4	26.8	—2.9	83.1	2	6	14	4	2	.....	.....	1	1	15023	24177	4	3.10	78.7
Pioche	N. 37 57	W. 114 26	4.30 a.m.	6110	1862	24.00	609.6	29.80	756.9	51.7	10.9	53.9	1	4	3	3	14	1	1	.....	3	5752	9257	4	3.23	82.0
Pittsburg	N. 40 32	W. 80 02	6.48 a.m.	762	232	29.14	740.1	29.93	760.2	64.0	17.8	76.2	5	2	5	4	5	.....	1	5	3	3870	6228	5	4.14	105.2
Poplar River *a*	N. 48 08	W. 105 10	5.07 a.m.	2030	619	27.78	705.6	.....	.....	.....	.....	.....	.....	3	.....	6	3	14	.....	3	.....	.....	.....	3	0.74	18.8
Port Eads	N. 29 00	W. 89 15	6.11 a.m.	7	2	30.04	763.0	30.05	763.3	77.3	25.2	89.1	.....	3	3	10	8	2	3	.....	1	6134	9872	4	3.70	94.0
Port Huron	N. 42 58	W. 82 29	6.38 a.m.	633	193	29.22	742.2	29.89	759.2	59.0	15.0	79.7	5	1	2	5	4	2	1	7	3	5237	8428	6	6.34	161.0
Portland, Maine	N. 43 40	W. 70 16	7.27 a.m.	45	14	29.80	756.9	29.85	758.2	61.8	16.6	67.1	4	4	6	3	5	1	1	4	2	5820	9366	5	3.20	81.3
Portland, Oregon	N. 45 30	W. 122 28	3.57 a.m.	67	20	29.95	760.7	30.02	762.5	55.0	12.8	83.6	1	8	1	1	7	1	.....	.....	11	3722	5990	6	1.91	48.5
Portsmouth	N. 35 02	W. 76 04	7.04 a.m.	40	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Prescott	N. 34 29	W. 112 13	4.38 a.m.	5340	1628	24.75	628.6	29.77	756.1	52.1	11.2	52.2	.....	.....	.....	7	23	.....	.....	.....	.....	6263	10079	2	0.47	11.9
Provincetown	N. 42 03	W. 70 11	7.27 a.m.	26	8	29.85	758.2	29.88	758.9	61.6	16.4	77.3	.....	10	2	8	4	3	1	2	.....	6296	10132	4	2.73	69.3
Punta Rassa	N. 26 36	W. 82 10	6.40 a.m.	13	4	30.04	763.0	30.05	763.3	79.4	26.3	77.3	2	1	.....	5	4	3	11	4	.....	6352	10212	5	8.46	214.9
Red Bluff	N. 40 10	W. 122 16	3.59 a.m.	350	106	29.53	750.0	29.89	759.2	62.9	17.2	61.2	8	5	1	1	8	3	.....	.....	4	4244	6830	2	0.15	3.8
Rio Grande City	N. 26 22	W. 98 45	5.33 a.m.	230	70	29.73	755.1	29.96	761.0	78.6	25.9	80.1	.....	2	.....	.....	4	18	4	1	1	6962	11204	3	0.46	11.7
Rochester	N. 43 08	W. 77 51	6.58 a.m.	621	189	29.23	742.4	29.88	758.9	60.2	15.7	76.9	.....	2	11	11	1	.....	2	2	1	7703	12396	5	2.50	63.5
Roseburg	N. 43 10	W. 123 16	3.55 a.m.	511	156	29.49	749.0	30.04	763.0	53.0	11.7	80.9	2	5	.....	.....	.....	.....	1	2	20	2591	4170	5	0.61	15.5
Sacramento	N. 38 35	W. 121 31	4.02 a.m.	65	20	29.81	757.2	29.88	758.9	57.9	14.4	76.7	.....	.....	.....	1	13	13	.....	1	2	5529	8898	2	0.10	2.5
Saint Louis	N. 38 37	W. 90 15	6.07 a.m.	568	173	29.37	746.0	29.96	761.0	66.8	19.3	92.3	2	3	3	3	10	4	2	3	.....	7207	11602	6	4.53	115.1
Saint Paul	N. 44 53	W. 93 05	5.56 a.m.	811	247	29.02	737.1	29.87	758.7	60.0	15.6	77.2	2	4	2	6	1	5	5	4	1	6280	10106	5	2.68	68.1
Saint Vincent	N. 48 58	W. 97 03	5.40 a.m.	804	245	29.04	737.6	29.89	759.2	52.2	11.2	82.4	4	7	3	2	4	5	3	2	.....	6323	10176	4	3.35	85.1
Salt Lake City	N. 40 46	W. 111 54	4.40 a.m.	4348	1325	25.57	649.5	29.79	756.7	58.1	14.5	49.1	2	1	.....	1	2	7	5	2	10	4713	7585	5	2.24	56.9
San Antonio	N. 29 28	W. 98 22	5.34 a.m.	673	205	29.28	743.7	29.96	761.0	73.8	23.2	87.9	2	.....	.....	1	1	10	.....	5	11	4549	7321	5	0.11	2.8
San Diego	N. 32 32	W. 117 08	4.20 a.m.	67	20	29.87	758.7	29.94	760.5	60.8	16.0	79.1	3	6	4	4	4	1	1	6	1	4559	7337	6	0.07	1.8
Sandusky	N. 41 27	W. 82 43	6.37 a.m.	639	195	29.24	742.7	29.91	759.7	64.0	17.8	73.8	1	3	2	9	3	4	5	3	.....	9342	15034	6	3.71	94.2
Sandy Hook	N. 40 28	W. 74 01	7.12 a.m.	28	8	29.89	759.2	29.93	760.2	65.3	18.5	78.8	1	8	4	10	.....	2	1	4	.....	8044	12945	4	2.60	66.0
San Francisco	N. 37 48	W. 122 26	3.58 a.m.	60	18	29.88	758.9	29.95	760.7	53.7	12.1	87.2	.....	2	7	17	4	.....	.....	.....	.....	9739	15673	5	0.04	1.0
Santa Fé	N. 35 41	W. 106 10	5.04 a.m.	7106	2166	23.27	591.0	29.78	756.4	54.3	12.4	51.5	2	.....	.....	1	3	4	11	7	2	6925	11144	4	1.36	34.5
Savannah	N. 32 05	W. 81 08	6.44 a.m.	87	26	29.95	760.7	30.04	763.0	77.7	25.4	74.5	5	1	9	12	1	.....	2	.....	.....	5147	8283	6	7.95	201.9
Shreveport	N. 32 30	W. 93 45	5.54 a.m.	227	69	29.78	756.4	30.01	762.2	72.9	22.7	84.4	1	1	3	1	15	.....	4	2	3	3744	6025	4	0.65	16.5
Silver City	N. 32 48	W. 108 15	4.55 a.m.	5890	1795	24.29	617.0	29.79	756.7	53.7	12.1	57.4	.....	12	5	5	2	.....	.....	.....	6	2360	3798	3	1.92	48.8
Sitka *b*	N. 57 03	W. 135 19	3.07 a.m.	63	19	29.88	758.9	29.94	760.5	48.9	9.4	79.1	.....	2	.....	3	1	3	5	5	9	4771	7678	8	3.71	94.2
Smithville	N. 33 55	W. 78 01	6.56 a.m.	34	10	29.98	761.5	30.02	762.5	74.5	23.6	78.5	1	9	8	4	1	2	4	1	.....	7942	12781	4	2.76	70.1
Spokane Falls	N. 47 39	W. 117 24	4.18 a.m.	1910?	582?	27.91	708.9	29.95	760.7	54.3	12.4	78.0	.....	1	3	10	2	2	3	2	7	4296	6914	5	1.17	29.7
Springfield, Ill.	N. 39 48	W. 89 48	6.10 a.m.	644	196	29.26	743.2	29.93	760.2	66.8	19.3	80.0	1	1	5	6	7	4	1	4	1	4963	7987	6	12.71	322.8
Springfield, Mass.	N. 42 06	W. 72 36	7.18 a.m.	120	37	29.77	756.1	29.90	759.4	65.1	18.4	71.6	5	1	6	2	14	.....	.....	2	.....	3700	5954	6	4.44	112.8
Springfield, Mo.	N. 37 12	W. 93 18	5.55 a.m.	1351	412	28.55	725.2	30.01	762.2	68.6	20.3	82.9	.....	3	1	1	18	3	.....	2	2	6003	9661	5	2.70	68.6
Starkville	N. 33 35	W. 88 49	6.13 a.m.	455	138	29.57	751.1	30.04	763.0	75.2	24.0	81.3	.....	3	1	10	5	7	1	.....	3	5116	8233	4	2.65	67.3
Stockton	N. 30 50	W. 102 50	5.16 a.m.	3010	917	26.95	684.5	29.87	758.7	67.0	19.4	82.0	3	.....	3	6	10	5	.....	.....	3	8910	14339	3	3.59	91.2
Thatcher's Island	N. 42 36	W. 70 34	7.26 a.m.	48	15	29.83	757.7	29.88	758.9	59.5	15.3	82.5	3	7	12	1	3	2	.....	1	1	7098	11423	4	1.33	33.8
Toledo	N. 41 40	W. 83 32	6.34 a.m.	651	198	29.22	742.2	29.90	759.4	64.7	18.2	71.0	2	2	5	7	1	3	6	3	1	6856	11034	6	4.51	114.6
Tucson	N. 32 14	W. 110 56	4.44 a.m.	2369	722	27.49	698.2	29.79	756.7	66.6	19.2	50.3	.....	1	1	.....	13	6	4	.....	5	2791	4492	3	0.99	25.1
Umatilla	N. 45 55	W. 119 21	4.11 a.m.	340	103	29.61	752.1	29.97	761.2	58.0	14.4	62.1	2	1	5	10	.....	4	3	2	3	4062a	6537a	5	0.36	9.1
Uvalde	N. 29 13	W. 99 40	5.29 a.m.	930	283	29.00	736.6	29.94	760.5	73.5	23.1	86.1	.....	.....	.....	1	4	15	4	2	4	1895	3050	4	0.40	10.2
Vicksburg	N. 32 23	W. 90 54	6.04 a.m.	244	74	29.78	756.4	30.03	762.7	74.4	23.6	82.1	1	1	.....	4	6	7	3	.....	8	2619	4215	2	0.02	0.5
Visalia *b*	N. 36 20	W. 119 16	4.11 a.m.	348	106	29.52	749.8	29.89	759.2	60.8	16.0	63.3	1	14	1	3	1	3	1	.....	4	3303	5316	5	8.33	59.2
Washington, D. C.	N. 38 54	W. 77 02	7.00 a.m.	106	32	29.85	758.2	29.96	761.0	69.3	20.7	74.6	3	4	3	4	6	1	2	1	6	7045	11338	4	2.49	63.2
W. Las Animas	N. 38 04	W. 103 07	5.16 a.m.	3905	1190	26.01	660.6	29.79	756.7	59.5	15.3	74.7	2	5	5	2	1	4	3	1	7	3495	5624	6	3.25	82.5
Williamsport	N. 41 15	W. 77 03	7.00 a.m.	561	171	29.33	745.0	29.93	760.2	62.9	17.2	72.9	2	1	13	2	.....	.....	2	2	8	4962	7985	5	2.96	75.2
Wilmington	N. 34 11	W. 78 10	6.56 a.m.	52	16	29.96	761.0	30.01	762.2	73.6	23.1	77.5	1	6	7	5	.....	2	3	3	3	3715	9197	4	1.17	29.7
Winnemucca	N. 41 00	W. 117 43	4.17 a.m.	4327	1319	25.57	649.5	29.83	757.7	51.6	10.9	60.9	1	1	.....	6	2	2	2	14	2	6127	9860	5	4.87	123.7
Yankton	N. 42 45	W. 97 30	5.38 a.m.	1228	374	28.61	726.7	29.89	759.2	61.4	16.3	77.1	1	3	5	2	3	6	2	6	2	4210	6775	2	0.05	1.3
Yuma	N. 32 44	W. 114 36	4.30 a.m.	141	43	29.63	752.6	29.77	756.1	69.0	20.6	58.0	1	2	3	1	2	5	1	1	14	13458	21658	7	3.17	80.5
Sub-Series.																										
Bogota	N. 4 36	W. 74 14	7.11 a.m.	8655	2638	22.05	560.1	.....	.....	53.5	11.9	76	1	1	5	2	2	1	1	8	9	.....	.....	10	12.31	312.7
Bridgetown	N. 13 12	W. 59 35	8.10 a.m.	?	?	30.06	763.5	30.07	763.8	81.5	27.5	93.1	.....	.....	.....	.....	.....	.....	19	.....	11	.....	.....	5	24.77	629.2
Buenaventura	N. 3 50	W. 76 55	7.00 a.m.	18	5	29.99	761.7	30.02	762.5	77.1	25.1	90.5	1	.....	.....	.....	9	1	.....	.....	19	.....	.....	4	2.45	62.2
Havana *i*	N. 23 09	W. 82 22	6.39 a.m.	50	15	30.01	762.2	30.06	763.5	82.5	28.1	79.0	.....	.....	.....	.....	.....	5	1	.....	15	1360j	2189j	5	0.76	19.3
Kingston	N. 18 58	W. 76 48	7.01 a.m.	10	3	30.04	763.0	30.05	763.3	81.7	27.6	73.4	8	.....	.....	.....	.....	1	7	.....	14	5453	8776	2	0.77	19.6
Magua	N. 19 17?	W. 71 08?	7.24 a.m.	1000?	305?	.....	.....	.....	.....	73.2	22.9	.....	1	.....	.....	.....	1	1	11	.....	15	.....	.....	9	12.26	311.4
Paramaribo	N. 5 50	W. 55 13	8.27 a.m.	6	2	30.07	763.8	30.07	763.8	78.1	25.6	87.2	.....	.....	.....	.....	.....	8	22	.....	.....	.....	.....	8	8.24	209.3
Puerto Berrio	N. 6 22	W. 74 28	7.10 a.m.	542	165	29.48	748.8	29.96	761.0	79.3	26.3	85.5	1	.....	.....	.....	8	2	1	.....	18	.....	.....	4	8.80	223.5
Rivas	N. 11 26	W. 85 47	6.25 a.m.	150	46	.....	.....	.....	.....	.....	.....	96.7	.....	.....	1	.....	2	6	4	17	.....	.....	.....	3	0.48	12.2
Santiago de Cuba	N. 19 55	W. 75 50	7.04 a.m.	21	6	30.03	762.7	30.05	763.3	80.3	26.8	74.2	7	.....	.....	.....	.....	.....	.....	.....	23	.....	.....	4	4.15	105.4
York Factory	N. 57 02	W. 92 26	5.58 a.m.	55	17	29.99	761.7	30.05	763.3	45.0	7.2	91.5	7	2	.....	3	5	2	1	10	.....	.....	.....			

Ocean Square Data for June, 1882.

Location of Centre of each Square.		No. of days.	No. of ob's.	Barometer.		Temperature.		Wind Frequency.										Wind force 0–10.
				Inch.	Mill.	Fah.	Cent.	N.	NW.	W.	SW.	S.	SE.	E.	NE.	Calm.	Blank.	
N. 7.5°	W. 22.5°	2	2															
7.5	27.5	14	21															
7.5	32.5	4	4															
12.5	22.5	1	1	30.07	763.8	79.5	26.4				2		1	1	26			1.5
12.5	27.5	6	6	30.14	765.5	78.3	25.7					1	1		16		12	1.7
12.5	32.5	5	5															
12.5	37.5	1	1															
12.5	42.5	2	2															
12.5	47.5	3	4															
12.5	52.5	1	1															
12.5	57.5	9	9															
17.5	22.5	5	5	30.11	764.8	77.9	25.5	1						2	24		3	1.7
17.5	27.5	2	2	30.14	765.5	77.3	25.2	1						2	18		9	1.7
17.5	32.5	3	3															
17.5	37.5	5	5															
17.5	42.5	1	1															
17.5	47.5	1	1															
17.5	52.5	2	2															
17.5	57.5	3	3	30.12	765.0	81.5	27.5							16	3		11	1.5
22.5	22.5	6	6	30.17	766.3	75.7	24.3					1		1	24		4	1.9
22.5	27.5	1	1	30.20	767.1	75.5	24.2						2	7	13		8	2.0
22.5	32.5			30.22	767.6	76.3	24.6					1		12	6		11	2.6
22.5	37.5	4	5	30.23	767.8	76.6	24.8						7	7	4		12	1.9
22.5	42.5	2	3	30.23	767.8	77.0	25.0					1	8	9			12	2.3
22.5	47.5	4	4															
22.5	52.5	1	1															
22.5	57.5	5	5	30.15	765.8	79.6	26.4				1	5	6	5	1		12	2.0
22.5	62.5	3	3	30.13	765.3	81.0	27.2				2	1	5	13	3		6	1.6
22.5	67.5	8	9	30.12	765.0	81.5	27.5			2	2	3	6	12	3		2	1.3
22.5	72.5			30.11	764.8	81.9	27.7		2		2	1	15	5	2	3		2.0
27.5	22.5	1	1	30.23	767.8	73.2	22.9	2					2	2	21		3	1.9
27.5	27.5			30.27	768.8	73.9	23.3	1					2	6	12		9	1.9
27.5	32.5			30.26	768.6	74.0	23.3	1	1		1	1	2	9	3		12	2.0
27.5	37.5	4	4															
27.5	42.5	3	3															
27.5	47.5	5	5															
27.5	57.5	3	3	30.14	765.5	77.6	25.3		1	1	6	5	3	1	2		11	1.6
27.5	62.5	4	5	30.12	765.0	78.4	25.8	1	2	2	7	5	2	3	2	5	1	1.5
27.5	67.5	16	19	30.10	764.5	79.2	26.2	2	2	2	5	9	4		3		3	1.4
27.5	72.5	13	18	30.11	764.8	80.1	26.7	4	3	1	4	5	7	5	1			1.8
27.5	77.5	13	16	30.11	764.8	80.7	27.1	4	2		7	8	7	2				1.3
32.5	12.5	7	7	30.17	766.3	70.7	21.5	6	1		2				21			2.1
32.5	17.5	8	10	30.22	767.6	70.1	21.2	5	1		3	1			20			1.5
32.5	22.5			30.28	769.1	71.3	21.8	3	2	1			3		16		5	2.0
32.5	27.5			30.31	769.9	72.0	22.2	1	2	2		2	3	6	7		7	1.3
32.5	32.5			30.29	769.4	72.4	22.4		3		3	3	9	2	3		7	1.3
32.5	37.5	6	7	30.27	768.8	72.5	22.5	1		1	6	7	4	3			8	1.7
32.5	42.5	3	4	30.28	769.1	73.0	22.8				6	4	6	2			12	1.9
32.5	47.5	3	3	30.19	766.8	73.2	22.9			1	6	6	6				11	2.0
32.5	52.5	3	3	30.18	766.6	75.2	24.0	1	1	2	7	10	1		2		6	2.0
32.5	57.5	1	1	30.10	764.5	74.9	23.8	1	1	1	11	9			2		5	1.7
32.5	62.5	4	4	30.08	764.0	75.0	23.9	3		2	14	9	1		1			1.3
32.5	67.5	10	11	30.05	763.3	74.6	23.7	5	8	1	10	5			1			1.7
32.5	72.5	19	29	30.05	763.3	75.5	24.2	3	4		8	11	1		3			2.5
32.5	77.5	23	48	30.04	763.0	76.2	24.6	1	8		10	4	3		4			2.3
37.5	12.5	8	9	30.17	766.3	68.4	20.2	12	6	4	3				5			2.4
37.5	17.5	7	12	30.23	767.8	67.8	19.9	13	7	4	1	1			4			2.2
37.5	22.5	5	5	30.29	769.4	69.0	20.6	9	8	1	2		2	2	6			2.0
37.5	27.5	8	9	30.31	769.9	69.4	20.8	3	7	2	4	5	4	4	1			1.7
37.5	32.5	9	10	30.28	769.1	69.7	20.9		3	1	11	6	2		3		4	2.1
37.5	37.5	5	5	30.23	767.8	70.0	21.1		2		13	6	4	1	1		3	2.3
37.5	42.5	2	3	30.17	766.3	70.0	21.1		2	1	11	7	3	2			4	2.8
37.5	47.5	6	6	30.13	765.3	69.7	20.9	1	3		11	11	1		1		2	2.8
37.5	52.5	12	14	30.08	764.0	70.7	21.5	1	4	1	7	14	2	1				2.5
37.5	57.5	21	26	30.03	762.7	70.9	21.6	3	5	2	7	10	3					2.5
37.5	62.5	13	19	29.97	761.2	69.9	21.1	2	6	1	10	9	1		1			2.8
37.5	67.5	14	22	29.96	761.0	68.2	20.1	1	12		11	2	2		2			2.7
37.5	72.5	28	97	29.93	760.2	67.3	19.6	2	7	4	7	4	3		3			2.5
42.5	12.5	2	2	30.13	765.3	65.8	18.8	4	18	1	4	1		1	1			2.7
42.5	17.5	1	1	30.16	766.1	64.8	18.2	4	13	7	3				3			2.8
42.5	22.5	9	12	30.20	767.1	65.3	18.5	3	12	5	5				2		3	2.5
42.5	27.5	12	16	30.23	767.8	65.2	18.4	2	7	6	12				2		1	2.6
42.5	32.5	16	23	30.22	767.6	65.7	18.7	3	4	2	15	3			1		2	3.0
42.5	37.5	24	49	30.15	765.8	65.9	18.8		3		13	9	1	2	2			2.8
42.5	42.5	28	86	30.13	765.3	65.7	18.7		4	1	13	10	1	1				2.8
42.5	47.5	30	87	30.08	764.0	64.4	18.0	2	2	2	10	12		1	1			2.5
42.5	52.5	27	83	30.00	762.0	64.7	18.2	1	3	1	11	12	2					2.7
42.5	57.5	27	72	29.93	760.2	65.7	18.7		5	3	9	11	1		1			3.1
42.5	62.5	27	76	29.89	759.2	63.5	17.5		8	1	7	8	2		4			2.8
42.5	67.5	29	89	29.88	758.9	61.2	16.2	2	7	3	11	3	2		2			3.0
47.5	12.5	23	42	30.02	762.5	61.2	16.2	1	10	8	7	2		1	1			3.8
47.5	17.5	24	56	30.02	762.5	60.2	15.7	4	9	7	8	1		1				3.9
47.5	22.5	29	62	30.06	763.5	59.4	15.2	1	10	8	7	1	1		2			3.6
47.5	27.5	27	64	30.08	764.0	59.0	15.0	2	13	3	7	2	1		2			3.2
47.5	32.5	25	61	30.08	764.0	59.0	15.0	2	9	3	10	5		1				2.9
47.5	37.5	26	53	30.07	763.8	58.7	14.8		8	5	12	4	1					2.9
47.5	42.5	13	16	30.01	762.2	57.7	14.3	1	6	1	14	7				1		2.6
47.5	47.5	8	11	29.91	759.7	54.5	12.5	1		3	17	7	2					2.2
52.5	12.5	23	40	29.91	759.7	58.3	14.6		11	8	4	4	3					3.8
52.5	17.5	18	27	29.90	759.4	56.9	13.8	3	11	5	2	3	2		3		1	3.4
52.5	22.5	21	28	29.94	760.5	56.1	13.4	3	10	5	6		1	1	3		1	3.7
52.5	27.5	14	17	29.96	761.0	55.4	13.0	1	11	5	6		3	1	2		1	2.9
52.5	32.5	6	6	29.97	761.2	53.3	11.8	2	3	4	10	2	2		2		5	2.5
52.5	37.5	5	7	29.96	761.0	52.5	11.4	1	8	4	6	2	2		2		5	2.3
52.5	42.5	3	4	29.95	760.7	51.1	10.6		4	1	7	4	2		1		11	1.8
52.5	47.5			29.90	759.4	49.5	9.7		3		4	4	8				11	2.0
57.5	12.5	9	10	29.84	757.9	53.3	11.8	8	3	2	2	3	7	1	4			3.2
57.5	17.5	1	1	29.83	757.7	52.0	11.1	8	5		3	2	2	4	5		1	2.7
57.5	22.5	1	1	29.88	758.9	50.1	10.1	3	8	2	2	1	3	2	8		1	2.5
57.5	27.5			29.91	759.7	49.1	9.5	8	7	2	3	3	1	2	3		1	2.1
57.5	32.5			29.91	759.7	47.8	8.8	3	5	1	4	1	1	1	2		12	2.3

NOTE.—See General Remarks.

REVIEW.

INTERNATIONAL METEOROLOGY.

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

With this REVIEW is issued chart iii., which exhibits the tracks of the more important atmospheric depressions that have appeared in the northern hemisphere during the month of July, 1881. This chart continues the series of international charts begun in November, 1877.

The following description relates to chart ii. (formerly iv.), for the month of August, 1881, (which chart was issued with the SUMMARY for that month). It continues the series of international charts begun in January, 1877, and exhibits the mean pressure, mean temperature, and the prevailing direction of the wind, in the northern hemisphere, as determined from one observation taken simultaneously each day at 7 a. m., Washington, or 0 h. 8 m. p. m., Greenwich mean time.

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

For the month of August, 1881, two areas of barometric minima are shown on the chart; these are both enclosed by the isobarometric line of 29.6 (751.8), and are situated, the one in the Scandinavian peninsula, where the mean pressure ranges from 29.57 (751.1) to 29.6 (751.8); the other in British India, where the pressure ranges from 29.49 (749.0) at Lahore, to 29.59 (751.6) at Nagpur. In southern Scandinavia, northern Russia, and northern Siberia the mean atmospheric pressure was below 29.7 (754.4). In North America the isobar of 29.8 (756.9) occupies the Hudson's Bay region, while that of 29.9 (759.4) is shown over the northwestern part of the United States and British America; elsewhere in the United States the pressure ranges from 29.9 (759.4) to 30.08 (764.0).

The most marked area of barometric maxima is that indicated by the isobar of 30.2 (767.1), which occupies the Azores. In Europe the region of greatest pressures occupies western and southwestern France and the eastern part of the Bay of Biscay; within that region the barometric means range from 30.0 (762.0) to 30.08 (764.0). In Algeria the mean pressure is above 30.0 (762.0).

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

Countries.	Mean pressure.			Mean temperature.		
	Aug., 1877, 1878, 1879, 1880.	Aug., 1881.	Departure.	Aug., 1877, 1878, 1879, 1880.	Aug., 1881.	Departure.
Algeria	30.00	30.03	normal	89.4°	92.0°	+2.6°
Austria	29.89	29.89	normal	74.2	76.3	+2.1
British Isles	29.84	29.82	—0.02	63.4	61.4	—2.0
Denmark	29.84	29.71	—0.13	65.4	60.4	—5.0
France	29.94	29.98	+0.04	74.7	72.4	—2.3
Germany	29.92	29.87	—0.05	70.2	68.1	—2.1
India	29.62	29.59	—0.03	82.7	82.3	—0.4
Italy	29.94	29.93	—0.01	81.9	82.3	+0.4
Norway	29.83	29.57	—0.26	64.2	59.0	—5.2
Portugal	30.00	30.03	+0.03	80.1	85.4	+5.3
Russia	29.85	29.77	—0.08	71.4	71.4	normal
Spain*	29.94	29.98	+0.04	81.1	82.9	+1.8
Sweden	29.85	29.62	—0.23	65.1	59.2	—5.9

* Means for 3 years only.

Compared with the preceding month, (July, 1881,) there has been an increase of pressure in the United States east of the one-hundredth meridian, except in Florida and on the shores of the Gulf of Mexico; from the hundredth meridian westward to the Pacific coast there has been a slight decrease of pressure. In Europe the pressure has decreased throughout the continent, the decrease being most marked in the British Isles, Denmark, and the Scandinavian peninsula, and least in Russia. In Algeria there has been a slight decrease of pressure; in China, Japan, and in British India there has been a slight increase.

Compared with the corresponding month of previous years the mean atmospheric pressure is generally normal or slightly below over the entire country, except in the middle Pacific coast region and in the upper lake region, where it is slightly above the normal. In Canada it was generally above the normal.

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

Stations.	Mean pressure.			Mean temperature.		
	Aug., 1877, '78, '79, '80.	Aug., 1881.	Departure.	Aug., 1877, '78, '79, '80.	Aug., 1881.	Departure.
Gibraltar	29.96	30.03	+ 0.07	79.4°	83.7°	+ 4.3°
Malta, Mediterranean Sea	29.94	.....	.....	84.2	84.6	+ 0.4
Sandwick Manse, Orkney Islands	29.83	29.71	— 0.12	57.8	53.2	— 4.6
Bridgetown, Barbadoes	29.98	30.01	+ 0.03	83.4	84.6	+ 1.2
Cape Town, Cape Good Hope	30.17	30.24	+ 0.07	60.9	63.3	+ 2.4
Fort Napier, Natal, South Africa	29.99	29.99	normal	70.1	68.3	— 1.8
Free Town, Sierra Leone	29.99	29.93	— 0.06	80.8	83.0	+ 2.2
Mauritius, Indian Ocean	30.18	30.21	+ 0.03	71.6	71.8	+ 0.2
Melbourne, New South Wales	30.08	30.12	+ 0.04	50.3	48.8	— 1.5
Nassau, Bahamas	30.01	29.99	— 0.02	83.8	84.3	+ 0.5
Godthaab, Greenland	29.79	29.78	— 0.01	*45.7	41.7	— 4.0
Stykkisholm, Iceland	29.82	29.80	— 0.02	52.8	48.9	— 3.9
Thorshavn, Färöe Islands	29.86	29.68	— 0.18	53.4	52.5	— 0.9
Zi-Ka-Wei, China	29.79	29.76	— 0.03	76.5	78.6	+ 2.1
Athens, Greece	29.88	29.88	normal	87.5	90.1	+ 2.6
Cagliari, Sardinia, Italy	29.93	29.96	+ 0.03	84.4	84.6	normal
Tokei, Japan	29.84	29.91	+ 0.07	75.8	77.9	+ 2.1
Angra, Azores	30.14	30.20	+ 0.06	73.0	72.9	— 0.1
Funchal, Madeira Islands	30.10	30.09	— 0.01	76.1	76.1	normal
Ponta Delgado, Azores	30.15	30.22	+ 0.07	75.8	73.9	— 1.9
Archangel, Russia	29.80	29.66	— 0.14	60.3	64.0	+ 3.7
Tiflis, Russia	29.78	29.82	+ 0.04	84.8	87.3	+ 2.5
Astrakhan, Russia	29.86	29.86	normal	80.8	83.7	+ 2.9
Ekaterinburg, Russia	29.75	29.71	— 0.04	66.4	69.1	+ 2.7
Tashkend, Toorkistan, Asia	29.76	29.69	— 0.07	81.8	84.2	+ 2.4
Barnaul, Siberia, Asia	29.74	29.76	+ 0.02	67.4	69.6	+ 2.2
Yeniseisk, Siberia, Asia	29.77	.....	.....	64.2	.....	.....
Pekin, China	29.76	29.77	+ 0.01	76.1	76.1	normal
Nikolaevsk on the Amoor, Asia*	.....	.....	.....	58.9	59.9	+ 1.0
San Juan de Puerto Rico, W. I	30.00	30.07	+ 0.07	81.7	82.0	+ 0.3
Beirut, Turkey in Asia	29.78	29.74	— 0.04	88.9	89.4	+ 0.5
Mexico, Mexico*	30.08	30.12	+ 0.04	56.7	56.2	— 0.5
Havana, Cuba, W. I	30.00	30.00	normal	81.5	80.8	— 0.7
Paramaribo, D. Guiana, S. A	30.01	30.04	+ 0.03	81.1	78.9	— 2.2
York Factory, B. A	29.92	29.78	— 0.14	46.8	47.3	+ 0.5

* Mean for three years only.

In the United States, the mean temperature of the air was from 0°.5 to 3°.0 above the normal in all districts east of the hundredth meridian, except in Florida, where it was normal. West of the above-mentioned meridian, the mean temperature was from 3°.1 to 5°.1 below the normal, except in the south Pacific coast region, where it remained normal. In Europe, the temperature was generally below the normal, except in the southern peninsulas and in Austria, where it was slightly above. In British India, the highest mean temperature reported was 88°.6 Fahr. (31°.4 Cent.) at Lahore, and the lowest was 71°.5 Fahr. (21°.9 Cent.) at Belgaum.

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

Highest.	Fahr.	Cent.	Lowest.	Fahr.	Cent.
Athens, Greece	90.1°	32.3°	Godthaab, Greenland	41.7°	5.4°
Beirut, Turkey in Asia	89.4	31.9	York Factory, B. A	47.3	8.5
Tiflis, Caucasia, Russia	87.6	30.7	Stykkisholm, Iceland	48.9	9.4
Bridgetown, Barbadoes	84.6	29.2	Thorshavn, Faroe Islands	52.5	11.4

In the United States, the prevailing winds were southerly and southeasterly over the country between W. 90° and 100°, and from the Gulf of Mexico northward to Manitoba. In the lake region, they were generally northerly; on the Atlantic coast and in Florida, they were northeasterly and easterly; elsewhere the winds were variable. In Canada, the prevailing winds were mostly westerly and southwesterly. Over the north Atlantic ocean, the winds were as follows: from the seventieth meridian eastward to W. 35°, southerly and southwesterly; near the Azores, northeasterly; north of the Azores, from W.

35°, eastward to the European coasts, it was generally westerly. At Zi-Ka-Wei, China, the wind was easterly, and in Japan it was southerly.

In the United States, the rainfall of the month was very much below the average, causing a severe drought in nearly all parts of the country, except in Florida, the east Gulf, and in Minnesota, where the rainfall was in excess of the average. In Europe, the rainfall was everywhere above the average.

Chart iii. (formerly v.) exhibits the tracks of barometric minima for the month of July, 1881, which have been traced from the daily international charts. This chart also exhibits the tracks of three typhoons that occurred in the China sea during the month.

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

Twenty-eight depressions have been traced in the northern hemisphere for the month of July, 1881. They were distributed as follows: Seven appeared in the United States and Canada, four of these originated in the northwest and moved in an east-southeasterly direction across the country; the remaining depressions prevailed in the lake region and in eastern Canada. Two storms have been traced from the Maritime Provinces northeastward to northern Europe, and thence into Siberia, and six have moved from southwest to northeast over the British Isles. Two depressions moving northeastward are traced in northwestern Europe, while two have prevailed in the southern part of the continent. Two depressions, in addition to those mentioned above, originated off the Norwegian coast and moved northeastward over the peninsula. Of the depressions shown in Asia, three are continuations of storms which appeared first in Europe and moved into Siberia; three are traced in eastern Asia, and one in Japan.

The following are descriptions of the depressions shown on the chart:

I.—This was probably a continuation of low-area vii. of the June chart. At the close of June the disturbance was central near Newfoundland; by July 1st it had moved northeastward to about N. 53°, W. 50°, in which region the pressure was below 29.6 (751.8). On the 1st there was a destructive easterly gale in the Straits of Belle Isle; nearly all the small craft in the various harbors were destroyed, and several large vessels were driven ashore and totally wrecked. On the 2d the disturbance was central to the southeastward of Greenland; on the 3d it was between Iceland and the Faröe Islands. During the day it moved eastward, and on the 4th the centre was shown in Scandinavia. This disturbance is hereafter described as low-area ix.

II.—This depression appeared in the Saskatchewan valley on the 3d, and on the 4th, was central in Manitoba. Moving in an easterly track north of the lakes the centre of disturbance reached eastern Ontario on the 5th, where it was accompanied by higher temperatures, but with slight precipitation. On the 6th the disturbance passed off the coast into the Atlantic, and ceased to exist as a distinct area of low pressure. No high winds occurred during the passage of this depression.

III.—This depression developed over the Maritime Provinces, where, on the 4th, the pressure was below 29.8 (756.9). On the 5th, the centre of disturbance was off the southeast coast of Nova Scotia, having caused heavy rains in that province during the 4th. By the morning of the 6th, the storm-centre had moved to the northeastward of Newfoundland, and on the 7th, it was near N. 58°, W. 38°. During the day, the disturbance moved slowly northeastward, and, on the morning of the 8th, it was to the southwestward of Iceland. During the 9th, 10th, and 11th, the depression hovered near Iceland, and the winds increased somewhat in force in the southern and eastern quadrants; on the last-mentioned date, a decided decrease of pressure occurred, the barometer at the centre of disturbance, which was then in Iceland, reading 29.08 (738.6). On the 12th, the depression passed to the northward of Iceland, with constantly diminishing pressure at the centre, which was now indicated by the isobar of 29.0 (736.6); on the 13th, the disturbance moved slowly eastward with slightly increased pressure, and by the 14th, it was off the extreme northern coast of Norway, the lowest barometric readings being inclosed by the isobarometric line of 29.4 (746.7). During the progress of this disturbance over the ocean no violent winds were reported. This disturbance in its course over the land-areas, is hereafter described as xiii.

IV.—This depression appeared in British America, north of Dakota, on the 7th; it moved eastward and on the 8th was central northeast of Fort Garry, Manitoba, attended by brisk to high winds in the western quadrants. During the day, the depression disappeared and was immediately followed by an area of barometric maxima.

V.—During the 11th, the atmospheric pressure began to decrease in Manitoba, and in the northwestern part of the United States, and by the 12th, the isobar of 29.8 (756.9) included within its limits the Lake Superior region. On the 13th, the region of least pressure was in the Saint Lawrence valley, where it was attended by westerly and southwesterly winds and a decided rise in temperature. During the day, the depression moved eastward, followed by cooler weather and northerly winds, and on the 14th, it was central over the Gulf of Saint Lawrence; during the day, showery weather prevailed in the Maritime Provinces, while the wind reached the force of a moderate gale over the Gulf. On the 15th, the depression passed to the eastward of Newfoundland, causing moderate gales to the eastward. During the 16th and 17th, vessels between 50° and 30° west longitude reported moderate to strong southwest to northwest gales, but the data are not sufficient to warrant a further tracing of this disturbance.

VI.—On the 17th, the pressure fell below 29.6 (751.8) in the Maritime Provinces and eastern Quebec, and showery weather prevailed throughout those provinces. The disturbance remained nearly stationary until the 19th, and during this time, the area of disturbance extended southward to the New England states, and the rainy weather, accompanied by moderate winds, continued. On the 20th, the depression dissipated over the Gulf, but on the following day, the increase of pressure was checked by the advance of low-area vi *a*.

VI *a*.—This depression appeared in Ontario on the 20th, causing light rains there; it moved east-southeastward into Quebec, where it was central on the 21st. On the 22d and 23d, it remained central off the coast of Nova Scotia, and on the 24th, it disappeared to the northeastward of Newfoundland, having caused during its passage heavy rains in the Maritime Provinces, and moderate gales in the Gulf of Saint Lawrence.

VII.—This depression appeared in Dakota on the 19th, and moving southeastward, became central in the southeastern part of that state on the 20th, on which date, cloudy or rainy weather prevailed at stations east of the centre. On the 21st, the disturbance was central, with slightly increased pressure, in Iowa; on the 22d, it occupied the country north of N. 35° from Illinois eastward to the Atlantic, the lowest barometric readings being in southern Indiana, while the rain-area extended to the south Atlantic states.

VIII.—This depression appeared in the lower lake region on the morning of the 25th, causing showery weather and thunderstorms in western Canada. On the 26th, the depression was in Ontario; on the following day it remained over the Saint Lawrence valley, but the pressure had begun to increase, and during the day the depression filled up.

The following descriptions refer to the depressions that appeared in Europe:

IX.—This was a continuation of low-area i. described above; on the 3d the disturbance was central north of the British Isles, causing strong southerly winds in Scandinavia and rainy weather with westerly winds in Scotland. On the 4th the centre of disturbance passed over Scandinavia to the western shore of the Gulf of Bothnia; rain continued in Scandinavia, in northern Scotland, and at stations on the shores of the

Baltic, and the winds were fresh to strong in force. On this day a small depression, 29.6 (751.8), was shown near Iceland, but it filled up during the day without exhibiting any special energy. On the 5th the area of low pressures (ix.) extended from Finland eastward to the Ural mountains, the region of least pressure being between Saint Petersburg and Archangel; moderate to strong westerly and northwesterly winds and rainy weather with lower temperature prevailed at stations west of the centre. On the 6th the position of the storm-centre remained unchanged, but the pressure had decreased about .2 inch, and the northwesterly winds increased to strong gales over the Baltic and the Gulf of Bothnia, while rainy weather continued at stations in central and eastern Russia.

X.—This was an extensive depression which on the 6th occupied the whole of Scotland and England, except the southwestern part of the latter country. Strong northerly and northwesterly winds occurred at stations west of the centre and over the English Channel. During the day the disturbance moved slowly northeastward with decreasing pressure, and on the 7th it was central near the west coast of southern Norway. The pressure having increased rapidly over western Europe the barometric gradient became somewhat steep, and strong westerly winds, increasing to moderate gales, prevailed over the North Sea and at stations in Denmark and northern Germany. On the 8th the depression moved northward and disappeared off the Norwegian coast.

XI.—This was a slight disturbance that appeared in the Saint George's Channel on the 8th; it moved northeastward, causing showery weather, but was unaccompanied by high winds. On the 9th the disturbance was central over the Skager Rack, where it apparently dissipated during the day.

XII.—This disturbance appeared in west Russia on the 10th, and caused rainy weather in that region; during the 11th and 12th, it moved slowly northeastward, and on the latter date, the region of least pressure was in central Russia. Fresh northerly winds prevailed in the northwestern part of the country; in the southern quadrants of the depression, the winds were between west and south, and were moderate to fresh in force. On the 13th, the pressure began to increase, and by the 14th, the depression had disappeared.

XIII.—This was a continuation of low-area iii. before described. On the 14th, the disturbance was central in northern Scandinavia, the region of least pressure being enclosed by the isobar of 29.4 (746.7). Rain fell at stations in Scandinavia, and strong westerly breezes to fresh gales occurred at the northern stations. By the 15th, the depression having moved by a course slightly south of east, was central in the neighborhood of the White sea, and on the 16th, it was in eastern Russia, where it ceased to exist as a distinct low-area.

XIV.—This depression appeared over the ocean to the west of Norway on the 15th, on which date moderate to fresh westerly and southwesterly breezes prevailed in Scotland and in southern Scandinavia, and a slight but general rise occurred in temperature. During the 15th, the disturbance moved eastward, with decreasing pressure, over Scandinavia, and by the morning of the 16th, it was shown as a large depression extending from the White sea southeastward to the Caspian sea. Fresh to strong northerly and northwesterly gales occurred at Swedish stations, on the shores of the Gulf of Bothnia, and cooler northwest winds prevailed over the greater part of the British Isles. On the 17th, the depression was central over the White sea, the barometer at Archangel reading 29.16 (740.7), wind southwest, while the strong northwesterly winds continued over the Gulf of Bothnia and in Sweden. During the 18th and 19th, the disturbance remained in northern Russia, finally disappearing in the Arctic regions on the last mentioned date.

XV.—This disturbance appeared in the Bay of Biscay on the 19th; it advanced northeastward through France and Germany, causing unsettled and showery weather in the British Isles and northwestern Europe, but was not attended by high winds. On the 20th, the disturbance probably united, when over the North sea, with depression xvi. then advancing toward the Norwegian coast.

XVI.—This depression appeared between the Shetland and Faröe Islands on the 20th; it moved eastward and on the 21st, was shown in Scandinavia; the region of least pressure enclosed by the isobar of 29.4 (746.7). Rain fell at stations in southern Scandinavia, and moderate to fresh westerly and northwesterly breezes prevailed west of the centre of depression. On the 22d, the disturbance was in Lapland where it disappeared, being replaced on the following day by an area of relatively high pressures.

XVII.—This disturbance appeared in southern France on the 20th; moving eastward during the day, it passed into northern Italy where it was central on the 21st. It then moved to Austro-Hungary, and disappeared in the Black sea region on the 23d.

XVIII.—This disturbance developed apparently off the northwest coast of Scotland; it moved eastward and was central in the northern part of that country on the 22d, attended by moderate to fresh southerly and southwesterly winds and rainy weather. On the 23d, the disturbance having moved over the North sea, was central in southern Norway; on that date, the barometric pressure was high over the Gulf of Bothnia and Sweden, and during the day, the depression appears to have filled up in Norway.

XIX.—On the 24th, the circulation of the winds in the British Isles indicated the presence of a depression to the westward of Scotland and north of Ireland; during the day rain fell at stations in the British Isles, and on the eastern shores of the North sea, but the winds remained moderate. On the 25th, the disturbance, which had moved northeastward with decreased pressure, was central over the North sea, where it exhibited increased energy. Fresh to strong easterly and southeasterly gales prevailed in Denmark and in southern Scandinavia, while in Scotland, the wind blew strongly from west and northwest. The storm-centre moved northward along the Norwegian coast, with constantly decreasing pressure, the centre being enlosed by the isobar of 29.4 (746.7) on the 26th, and fresh to strong southerly winds and rainy weather prevailed at the Swedish stations and on the Baltic. On the 27th, the disturbance disappeared in northern Scandinavia, but the increase of pressure which occurred after the passage of the centre was checked by the immediate advance of low-area xx.

XX.—This depression advanced from the English Channel northeastward through France to Belgium, where it was central on the 26th. On this date, general rains occurred in France and Belgium, and at a few stations in England, and the winds remained light or moderate, except in the southern quadrants, where they blew with the force of a moderate gale. On the 27th, the storm-centre was in southern Sweden, where the barometric readings were below 29.25 (742.9). On the 28th, the depression was central in Sweden, attended by general rains and causing moderate westerly gales in the southern, and easterly gales in the northern quadrants. On the 29th, the disturbance passed off the northwestern coast of Norway into the Arctic ocean.

XXI.—This depression appeared over the western part of the Mediterranean on the 26th, and moved with slowly decreasing pressure to northern Italy, where it was central on the 27th. The course then changed to southeastward and the disturbance gradually dissipated over the Adriatic on the 28th.

XXII.—On the 28th, the wind in Ireland shifted to south and blew strongly, accompanied by rain, and the pressure began to diminish somewhat rapidly, indicating the advance of a depression from the westward. During the day, the disturbance moved northeastward along the Irish and Scottish coasts, and on the 29th, it was central near the Shetlands, where it probably combined with low-area xx., then off the Norwegian coast, the two forming an extensive area of low pressures over the ocean north of the sixtieth parallel of latitude.

XXIII.—On the 30th, there was a general decrease of press-

ure over the British Isles and western Europe. On the 31st, the decrease became more marked, the region of least pressure occupying Great Britain, the Irish sea, and the northwestern part of Ireland. Within this area, the lowest barometric readings were 29.22 (742.2) at Liverpool, and 29.27 (743.4) at Sheffield. Heavy rains occurred in the British Isles, except in the extreme northern part of Scotland, and strong southwesterly winds prevailed over the English Channel and at stations on the northwest coast of France.

XXIV.—On the 1st, a barometric depression occupied eastern Russia, and extended beyond the Ural mountains into Asia. Moving east-southeastward, the region of least pressure, 29.37 (746.0), was shown near Akmolinski, western Siberia, on the 2d. During the 3d and 4th, the disturbance moved slowly northeastward through Siberia, where the barometer remained low for several days.

The following descriptions refer to the depressions traced in Asia:

XXV.—This disturbance was apparently central near the Gulf of Pe-Chi-Li, on the 2d. It moved eastward over the sea of Japan and on the 3d, it was central in the island of Niphon; during the 4th and 5th, the pressure gradually increased and the disturbance disappeared in the sea of Japan. This depression was probably closely connected with the typhoon traced on chart iii. for June, 1881.

XXVI.—This disturbance moved from central China on the 10th; on the 11th, the centre of depression was south of Pekin, where the barometric pressure was 29.56 (750.8). Moving eastward, the storm-centre reached the Gulf of Pe-Chi-Li, on the 12th, causing a southerly gale at Cheefoo. On the 13th, the disturbance disappeared to the north of Corea. This disturbance occasioned very high temperatures in northern China during its passage.

XXVII.—This depression probably developed from the remains of the typhoon traced as ii. (July 10th-17th). On the 18th, the disturbance was central over the southern part of the sea of Japan; during the 19th and 20th, it hovered near the islands of Japan, attended by gradually increasing pressure, and without exhibiting any storm-energy. On the 21st, it disappeared, moving probably into the Pacific.

XXVIII.—This depression appeared to the north of Pekin on the 28th; it moved by a southeasterly course over the Gulf of Pe-Chi-Li, and on the 29th, it was central over the Yellow sea, and at the close of the month, it was apparently in the peninsula of Corea.

The following notes on the three typhoons that occurred in the China sea during July, 1881, are taken from Mr. Marc Dechevren's "Typhoons of the Chinese Sea, 1881:"

I.—(July 6th to 11th.) This typhoon appears to have formed to the west of Mindanao, Philippine Islands, on the 5th or 6th. On the 7th, it was near N. 12°, E. 120°. On the 8th, the s. s. "Plainmeller" encountered the typhoon in N. 15° 21′, E. 116° 33′, wind w. The bark "Fabius" reported calms on Macclesfield Bank for four days, followed by the typhoon in N. 18° 40′, E. 113° 28′, barometer 29.48 (748.8), wind blowing with hurricane force; the vessel was hove to until the morning of the 9th, when the wind veered to nnw. On the 10th, the s. s. "Consolation" encountered the typhoon at the entrance to the Gulf of Tonquin. The lowest barometric reading observed on board H. M. S. "Magpie," anchored in Manin Bay, Island of Hainan, was 29.41, at 1 p. m. of the 10th. The typhoon appears to have vanished before reaching the western shores of the Gulf of Tonquin, although the barometer remained low over Hainan and over the gulf.

II.—(July 10th to 17th.) This typhoon developed in the Philippine archipelago almost simultaneously with, and under the same conditions as, typhoon i. That disturbance originated to the westward of Mindanao between the 4th and 6th, while typhoon ii. sprang up to the eastward of Mindanao between the 6th and 9th. To the southeast and southwest of that island, from the 6th to 12th, the wind blew from west and southwest with varying force (5–9) and with heavy rain all the time, while to the north of the archipelago the wind was from east and southeast. At Manila, Luzon, the barometer gave no indication of the approach of the typhoon until the evening of the 11th. The centre moved northwestward at some distance from the eastern coast of Luzon, and, by the 14th, it was off the northeast point of the island. At Manila the general direction of the wind was from west to east, with little variation; it first blew from northwest to southeast when the centre was to the southeast, then from west to east, when it reached the latitude of Manila, and, lastly, from southwest to northeast, when it passed the straits that separate Luzon and Formosa. The centre passed much nearer to Tuguegarao than to Manila; the barometric minimum, 29.58 (751.3), occurred at Manila at about 4 p. m. of the 14th. At Tuguegarao the barometer reached its lowest point, 29.45 (748.0), at 6 a. m. of the 14th. An effect of the mountain chain that runs along the eastern coast of Luzon must be noticed; the strong northwest, west, or southwest winds that blew at Tuguegarao struck directly against the western slope of the mountains and rain fell abundantly on that side. During the 15th, the typhoon traversed the island of Formosa from south to north and caused some damage in that island. At Tai-wan-foo (N. 22° 58′, E. 120° 13′) the lowest barometric reading was 29.29 (744.0) at 4 a. m. of the 15th, wind blowing half a gale from nnw. At Tamsui, Formosa, (N. 25° 10′, E. 121° 25′,) the barometric minimum occurred at 7 a. m. of the 15th, wind n., 10–11 (Beaufort scale). At 7.40 a. m. it became quite calm, the sun being visible for ten minutes. At 9.30 the wind came with great violence and very suddenly from the west, gradually changing to southwest. At Keelung, twenty miles east of Tamsui, the calm lasted from 7 to 7.30 a. m., and the barometer fell to 28.6 (726.4); wind ne., force 8, at 5 a. m.; ene., force 9, at 7 a. m.; s., force 4, at 8 a. m., sw., force 9, at 9 a. m.; sw., force 10, at 10 a. m.; sw., force 11, at noon; sw.-force 8, at 2 p. m.; sw., force 6, at 4 p. m. At Twatutia, eight miles south, east of Tamsui, the calm lasted from 7 to 8 a. m. The barometric minimum seems to have occurred at 8 o'clock, after the period of calm. The wind went through the same variations as at Keelung—e. and ne. before the calm, and sw. after. After leaving Formosa, the typhoon moved northward to the coast of China, and on the 16th it was near Shanghai. The s. s. "Keelung," from Cheefoo for Swatow, first noted indications of the typhoon on the morning of the 15th in N. 27° 53′, E. 121° 42′, barometer 29.54 (750.3), wind se., force 5, dense showers of rain, heavy cross-sea from ne. and se. At 3 p. m. of the 15th, in N. 26° 58′, E. 121° 00′, the barometer reached its lowest point, 28.78 (731.0), wind nnw., force 10 (Beaufort scale). At 4 p. m., the wind gradually shifted to wsw., with furious squalls of hurricane force and very heavy rain. The heaviest gusts of wind were from sw. by w. The brig "Emily" appears to have passed near the centre of the typhoon on the 15th, in N. 27° 00′, E. 121° 30′, 3.45 p. m. barometer (aneroid) fell to 28.84 (732.5). At 4.30 p. m., after a period of calm, the wind veered from e. to se., s., and ssw. Another vessel, the brig "Peter," passed close to the same position at about 3 p. m. She reported the same brief calm, winds from e. to se. and sw., barometer 28.85 (732.8). Towards evening of the 15th, the rainfall became heavy and the wind increased at Shanghai. By 2 a. m. of the 16th, the rain had ceased, wind blowing in violent squalls between e. and se. At 2.30 a. m. the wind shifted to ne. and rain began to fall abundantly. At 3.30 the wind again went back to ese. Between 4 and 5 a. m. the barometric minimum, 29.13 (739.9), occurred, wind sse., 45 miles; the velocity of the squalls may have reached fifty-five or sixty miles an hour; several trees were uprooted at Zi-Ka-Wei. The wind veered from east to west, through south, consequently the typhoon passed to the westward of Zi-Ka-Wei. Much damage was done to junks and other vessels on the river, and some loss of life occurred. The typhoon continued its northerly course and crossed the Yang-tsi-Kiang river to the east of Ching-Kiang, one hundred and ten miles northwest of Shanghai, and forty-seven miles east of Nanking. The lowest barometric reading, 29.2 (741.7), was observed at 9 a. m. of the 16th, wind nne., force 9–12. The worst of the gale was between 9. a. m. and 3 p. m. from nne. and nnw. At 4 p. m. it began to abate. On the 17th, the typhoon reached Cheefoo. Its course then appears to have been influenced by the high promontory of Shan-Tung, as reports indicate that it did not cross the thirty-seventh parallel of latitude between Corea and China. After the 17th, the disturbance cannot be traced as a typhoon, but the depression shown in Japan as low-area xxvii. was evidently the remains of this typhoon, which had now lost the greater part of its storm-energy. During the passage of this typhoon two shipwrecks occurred in the China sea. The bark "Aberdonian" was wrecked on one of the islands of the Chusan archipelago on the night of the 16th, and the brigantine "Annie J. Hall" was lost on the same night. After encountering the typhoon the vessel was so damaged as to be unmanageable, and was abandoned off Fung-me island, one of the Taichow group.

III.—(July 26th to August 2d.) The first indications of this typhoon were noticed at Manila on the 24th, when the barometer began to fall. It attained its minimum, 29.72 (754.9) on the 26th, the centre of disturbance remaining apparently to the northeast of Luzon. On the island of Formosa, both at Tai-wan-foo, in the south, and at Tamsui, in the north, the barometer remained low during the 28th, 29th, and 30th, the absolute minimum, 29.55 (750.6), being observed on the evening of the 28th. The typhoon moved slowly northeastward at a great distance from the coasts of China, and by August 1st it was south of Japan. At Siwomisaki light-house (N. 32° 26′, E. 135° 45′) the wind attained hurricane force, being the only station at which violent winds occurred. The barometric reading was 29.05 (737.9) at 9 a. m. of the 1st. On that day five inches of rain fell, making a total of eight inches from July 30th. Severe local floods occurred in the southern provinces of Japan. The typhoon then moved in a northeasterly direction at some distance from the coast of Japan. The barometric minimum, 29.42 (747.3), occurred between 2 and 3 p. m. of the 2d at Omaisaki light-house (N. 34° 36′, E. 138° 13′). The typhoon passed at considerable distance from the capital of Japan, as no heavy weather was experienced there or in the the Gulf of Yedo. The lowest barometric reading at Tokei was observed at 1 a. m. of the 3d, when it was 29.55 (750.6), and the wind did not exceed ten miles an hour. The typhoon then passed east-northeastward into the Pacific.

GENERAL REMARKS.

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

INTERNATIONAL CHARTS ACCOMPANYING THE DAILY BULLETIN AND MONTHLY SUMMARY.

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

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

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

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

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

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

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

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

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

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

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

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

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

simultaneous observation. At Hankow the originals give the barometer in inches, temperature in Fahrenheit, and force on a scale of 0 to 10.

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

FRENCH SERIES (furnished by co-operation of the Central Meteorological Office of France, Professor E. Mascart, Director, and respective observers).—The originals give the barometer in millimetres reduced to sea-level and the temperature in Centigrade. The movement of the air is indicated by force on a scale of 0 to 6, except in metres per second for Mont Louis and Perpignan. In general the rainfall is measured at 9 a. m., local time. The direction of upper and lower clouds is given, but no distinction is made as to kind. The degree of cloudiness is given on a scale of 0 to 4 at Clermont-Ferrand and Puy de Dome, while at other stations the scale of 0 to 10 is employed, or general weather terms, from which the amount of cloudiness is inferred. The weather is given in general terms, except occasionally by the Vienna symbols at Mont Louis and Perpignan. At Guéret the observations are taken at 12 m., instead of 12.16 p. m. The original at Besancon for June, 1882, states that observations for this month are taken at midday instead of 0.32 p. m.

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

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

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

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

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

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

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

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

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

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

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

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

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

of 0 to 10. The rainfall at San Juan is measured at 4 p. m., local time, and at San Fernando at midnight. The weather is iven in gen eral (Spanish) terms.

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

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

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

UNITED STATES SERIES (by authority of the Secretary of War—furnished by co-operation of W. B. Hazen, Brigadier and Brevet Major General, Chief Signal Office, U. S. Army). On June 1st, 1882, elevation of barometer cistern at Sacramento, California, changes from 70 to 65 feet.

UNITED STATES SUB-SERIES (furnished by co-operation of the respective observers).—The originals generally give the barometer reduced to sea-level and the temperature in Fahrenheit. At Bogota and Navassa the barometer is corrected for temperature only; at Puerto Berrio is given as read off, and at Rivas is omitted. The movement of the air is generally indicated by velocity in miles per hour, except on a scale of 0 to 10 for Bogota, Paramaribo, and Rivas, and 0 to 12 for Puerto Berrio. The wind direction is generally given to 16 points, except 8 points for Bogota and 32 points for Rivas. At Rivas the humidity is obtained by readings from Saussure's hygrometer. On June 1st, 1882, the elevation of barometer cistern at York Factory, B. A., changes from 51 to 55 feet, and on June 25th, at Puerto Berrio, U. S. C., from 454 to 542 feet.

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

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

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

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

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

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

ERRATA.

Monthly Summary, October, 1880, page 2, Cape Colony series, Cape Town, temperature 80°.2 Fahr., 26°.8 Cent., should read 73°.7 Fahr., 23°.2 cent.

Monthly Summary, May, 1882, page 5, United States sub-series, elevation of barometer cistern at Puerto Berrio, 542 feet, 165 meters, should read 454 feet, 138 meters.

Daily Bulletin, June 13th, 1882, page 4, United States, Buffalo, actual barometer 28.53 inches, should read 28.43 inches.

14th, page 7, North German Lloyd, s. s. Elbe, longitude E., should be W.

19th, page 6, British naval, H. M. S. Dido, longitude N. 50′ 10°, should read N. 10° 50′.

21st, page 7, Merchants S. S. Co., s. s. Glenfyne, longitude E., should be W.

24th, page 2, Indian, Deesa, actual barometer 30.08 inches, should read 29.08 inches.

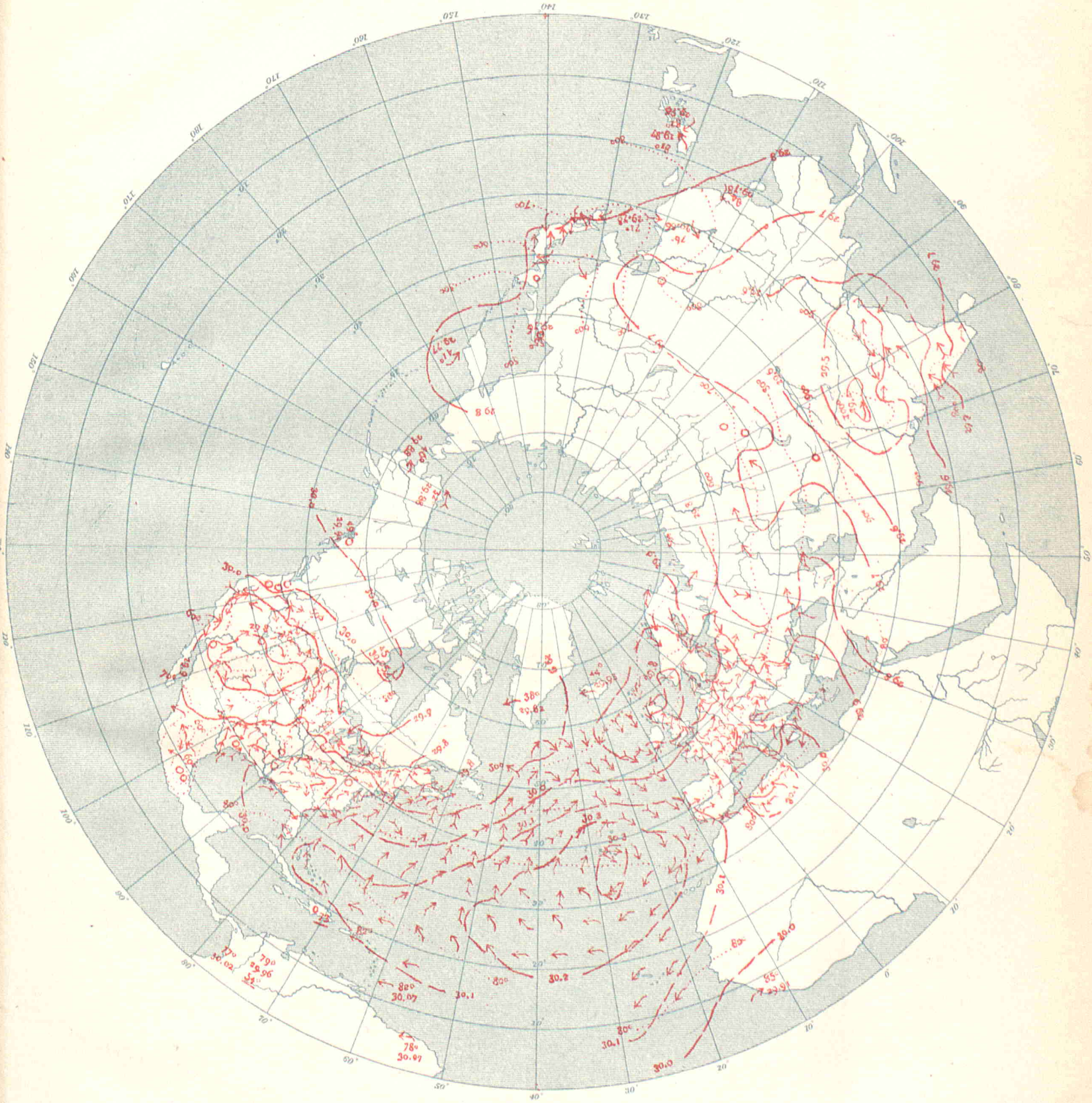
25th, page 1, Austro-Hungarian, Agram, actual barometer 29.65 inches, should read 29.55 inches; page 7, North German Lloyd, s. s. Hohenzollern, longitude E., should read W.

29th, page 5, United States, Morgantown, actual barometer 29.95 inches, should read 28.95 inches.

PUBLISHED BY ORDER OF THE SECRETARY OF WAR.

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

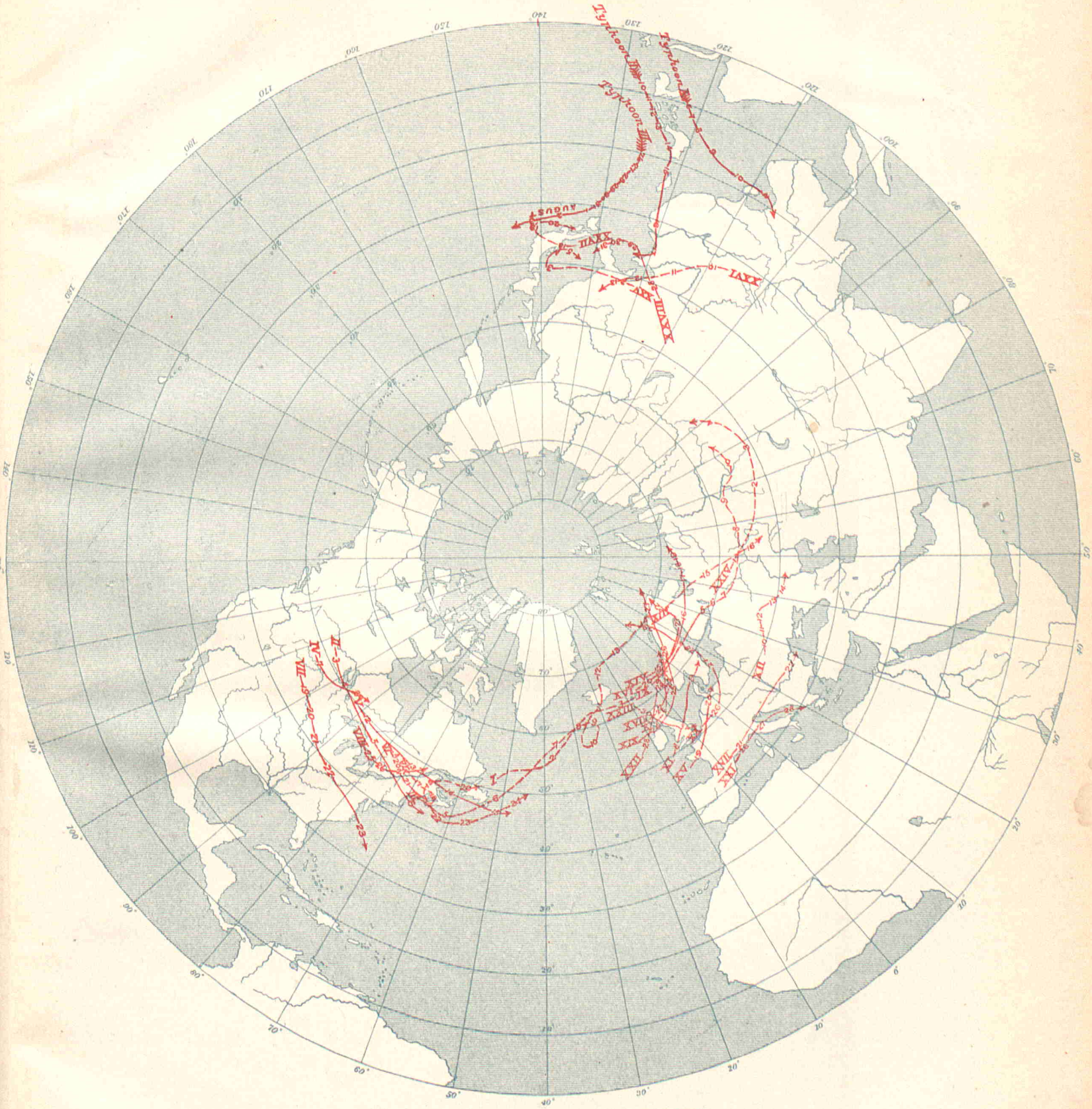
International Chart II. June, 1882. Isobars, Isotherms, and Winds.



UNITED STATES OF AMERICA.

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

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



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