Biloxi, Mississippi, August 6th: the extraordinary continuance of low tides operates greatly to delay the passage over the bar of vessels of deep draft.

Low tides were also reported from the following stations:
Eastport, Maine, 2d.
Indianola, Texas, 2d.

WATER TEMPERATURE.

The following table gives the normal temperature of water at surface; the highest and lowest temperatures of the water at the several stations; the range of water temperature; the mean temperature of the air at the station; and the depth of water at which the observations are taken:

Temperature of water for August, 1884.

Station.	Normal temperature of water at surface.	Temperature at bottom. Max.	Temperature at bottom. Min.	Range.	Average depth, feet and inches. ft.	Average depth, feet and inches. in.	Mean temperature of the air at station.
	°	°	°	°	ft.	in.	°
Atlantic City, New Jersey	71.4	73.9	72.4	3.5	2	9	71.5
Alpena, Michigan	69.9	72.8	63.5	9.3	12	3	62.6
Augusta, Georgia	84.2	86.7	80.0	6.7	6	7	79.1
Baltimore, Maryland	78.0	79.7	76.1	3.6	9	10	75.2
Block Island, Rhode Island	66.9	69.6	63.2	5.8	7	10	67.4
Boston, Massachusetts	64.3	68.5	62.5	6.0	20	10	68.3
Buffalo, New York	71.5	73.6	68.4	5.2	9	7	67.5
Canby, Fort, Washington Territory	‡65.6	67.1	58.5	8.6	15	9	60.7
Cedar Keys, Florida	86.5	87.2	83.4	3.8	10	11	81.2
Charleston, South Carolina	83.4	84.3	78.5	5.8	41	6	78.9
Chicago, Illinois	69.3	73.2	60.4	12.8	8	3	68.8
Chincoteague, Virginia	77.7	83.6	69.0	14.6	4	2	73.3
Cleveland, Ohio	72.8	76.1	69.2	6.9	14	0	68.2
Detroit, Michigan	71.2	75.0	66.6	8.4	23	0	69.4
Delaware Breakwater, Delaware	72.3	76.7	67.4	9.3	9	1	72.6
Duluth, Minnesota	61.9	70.2	53.3	16.9	9	11	63.7
Eastport, Maine	49.9	51.0	48.6	2.4	14	9	61.0
Escanaba, Michigan	65.2	70.2	57.0	13.2	18	3	62.7
Galveston, Texas	84.3	88.0	83.3	4.7	12	1	83.8
Grand Haven, Michigan	71.9	77.2	66.1	11.1	19	0	65.7
Indianola, Texas	86.5	87.6	84.1	3.5	8	11	81.9
Jacksonville, Florida	86.4	87.8	84.0	3.8	18	0	79.8
Key West, Florida	87.3	89.1	85.1	4.0	16	9	83.9
Mackinaw City, Michigan	†64.6	72.6	56.0	10.6	10	0	62.2
Macon, Fort, North Carolina	†79.8	81.5	76.0	5.5	9	0	76.6
Marquette, Michigan	60.3	62.8	51.6	11.2	10	0	63.0
Milwaukee, Wisconsin	64.3	70.8	48.1	22.7	8	0	65.8
Mobile, Alabama	85.1	86.0	80.0	6.0	16	11	78.7
New Haven, Connecticut	73.0	77.0	68.0	9.0	15	6	69.1
New London, Connecticut	71.6	70.3	64.0	6.3	12	10	68.5
New York City	72.8	74.3	70.2	4.1	16	3	71.5
Norfolk, Virginia	80.0	81.8	73.8	7.8	16	7	76.0
Pensacola, Florida	84.9	87.3	80.1	7.2	17	4	80.2
Portland, Maine	60.8	63.6	56.3	7.3	16	7	67.5
Portland, Oregon	68.8	75.2	72.2	3.0	56	11	68.0
Sandusky, Ohio	74.1	77.0	68.0	9.0	10	9	70.4
Sandy Hook, New Jersey	72.1	76.3	68.4	7.9	1	3	71.7
San Francisco, California	60.4	62.0	56.3	5.7	38	7	58.7
Savannah, Georgia	83.7	*85.6	*79.8	5.8	10	6	78.7
Smithville, North Carolina	82.3	83.0	77.0	6.0	10	10	77.1
Toledo, Ohio	74.8	77.1	69.2	7.9	11	8	70.0
Wilmington, North Carolina	81.3	82.3	74.5	7.8	20	8	76.9

* Record for 27 days. ‡ For 1 year only. † Record for 2 years only.

VERIFICATIONS.

INDICATIONS.

The detailed comparison of the tri-daily indications for August, 1884, with the telegraphic reports for the succeeding twenty-four hours, shows the general average percentage of verifications to be 83.40 per cent. The percentages for the four elements are: Weather, 89.12; direction of the wind, 80.22; temperature, 80.61; barometer, 82.47 per cent. By geographical districts, they are: For New England, 84.12; middle Atlantic states, 83.47; south Atlantic states, 85.71; eastern Gulf states, 85.33; western Gulf states, 84.15; lower lake region, 82.76; upper lake region, 82.18; Ohio valley and Tennessee, 82.32; upper Mississippi valley, 85.36; Missouri valley, 76.75; north Pacific coast region, 83.87; middle Pacific coast region, 100.0; south Pacific coast region, 100.0. There were eleven omissions to predict out of 3,191, or 0.34 per cent. Of the 3,180 predictions that have been made, eighty or, 2.51 per cent., are considered to have entirely failed; one hundred and forty-six, or 4.59 per cent., were one-fourth verified; three hundred and sixty-seven, or 11.54 per cent., were one-half verified; six hundred and nineteen, or 19.47 per cent., were three-fourths verified; 1,968, or 61.89 per cent., were fully verified, so far as can be ascertained from the tri-daily reports.

CAUTIONARY SIGNALS.

During August, 1884, fifty-nine cautionary signals were ordered. Of these, twenty-eight, or 47.46 per cent., were justified by winds of twenty-five miles or more per hour at or within one hundred miles of the station. No off-shore signals were ordered. The above number does not include signals ordered at display stations where the velocity of the wind is only estimated.

During the month there were seventy-four occurrences of velocities of twenty-five miles per hour or more without signal displays. Of this number there were five cases in which the signal displays were late and one in which the signal was lowered too soon. The following is a record of these occurrences, giving for each date the stations, direction, velocity and duration of gale when reported:

August 1st: Indianola, 29 miles; Fort Macon, nw., 42, 2⅓ hours.

August 3d: Kitty Hawk, sw., 25, ¼ hour; Detroit, sw., 25, 2 hours, signal order late.

August 4th: Barnegat, sw., 28; Little Egg Harbor, s., high; Sandy Hook, 26; Cape May, s. 26, 10 hours; Delaware Breakwater, sw., 32; Fort Macon, sw., 28, 11 hours; Smithville, sw., 26, squall; New Orleans, nw., 34, squall.

August 5th: Block Island, sw., 26; Kitty Hawk, w. 26, squall; Fort Macon, sw., 30, squall.

August 6th: Duluth, n., 26, signal late; Grand Haven, w., 28.

August 7th: Cape Henry, n., 28, signal late; Chincoteague, n., 27, signal late; Delaware Breakwater, ne., 30, signal late; Sandusky, n., 30, 3 hours.

August 11th: Kitty Hawk, ne., 31, 4 hours.

August 12th: Delaware Breakwater, 26; Cape Henry, ne., 28, 17 hours; Kitty Hawk, ne., 36, 9 hours; Fort Macon, ne., 27, 1 hour.

August 13th: Block Island, ne., 32; Point Judith, ne., high; Kitty Hawk, ne., 35, 23 hours.

August 14th: Kitty Hawk, ne., 31, 12 hours.

August 15th: Fort Macon, ne., 26, 1 hour.

August 17th: Kitty Hawk, ne., 25, 1 hour.

August 18th: Duluth, ne., 28; Grand Haven, s. 32; Milwaukee, sw., 28, 2 hours.

August 19th: Key West, ne., 31, squalls, the "Alice Vane" lost her foretopmast; Grand Haven, s., 32, vessel dismasted in squall, damage $1,100.

August 20th: Milwaukee, sw., 32, 7 hours.

August 21st: Cape May, s., 30, 6 hours; Kitty Hawk, sw., 27, 2 hours.

August 22d: Block Island, sw., 26; Sandy Hook, w., 34; Delaware Breakwater, s., 53, squalls; Cape May, s., 52, squalls.

August 23d: Grand Haven, nw., 27; Buffalo, sw., 36, squalls, lake very rough; Rochester, w., 28, 4 hours.

August 24th: Eastport, nw., 26, twenty minutes; Kitty Hawk, e., 29; Cape Henry, ne., 27, at night; Sandusky, n., 26, forty-five minutes; Sandy Hook, n., 30; Thatcher's Island, n., 31, ½ hour.

August 25th: Oswego, sw., 26, 20 hours, schooner "Belle" sunk; Fort Macon, ne., 27, 1 hour; Thatcher's Island, nw., 29, 3 hours; Kitty Hawk, e., 29; Grand Haven, s., 28; Escanaba, s., 28, ½ hour; s., 33, 4 hours; s., 30, 1½ hours; this was a local storm but did some damage.

August 26th: Buffalo, sw., 26, 18 hours; Thatcher's Island, se., 32, 6 hours.

August 27th: Marquette, se., 26.

August 28th: Buffalo, 26, squall.

August 26th: Rochester, s., 26, ½ hour; Buffalo, sw., 28, 1 hour; Kitty Hawk, s., 27, 4½ hours.

August 30th: Chincoteague, nw., 36, signal late; Delaware Breakwater, 31, signal lowered early; Kitty Hawk, nw., 26, 4½ hours; Fort Macon, sw., 27, 8 hours; Sandy Hook, nw., 40, squall; New York, e., 32, squall; Indianola, 30, light "norther"; Rochester, w., 27, 1 hour; Buffalo, sw., 35, squall.

August 31st: Fort Macon, sw., 34, 1 hour; Indianola, 31, light "norther."

Summary of meteorological data for stations of the Signal Service, August, 1884.

Stations.	Elevation above sea-level.	Mean barometer corrected for temperature and error.	Departure from normal.	Temperature. Monthly mean.	Departure from normal.	Maximum.	Date.	Minimum.	Date.	Wind. Prevailing direction.	Max. velocity.	Direction.	Date.	Total movement.	Rainfall.
New England states.				°	°	°		°							
Block Island	27	30.03	+.03	67	−2	78	15	54	25	sw.	32	ne.	13	7,452	6.41
Boston	142	29.90	+.03	68	−1	94	18	51	25	sw.	24	nw.	24	5,722	5.01
Eastport	61	29.96	+.06	61	−1	86	18	46	25	s.	26	nw.	24	3,133	4.41
Mount Washington	6,279	23.96	+.04	48	+1	65	19	22	25	w.	88	se.	29	20,870	8.63
New Haven	107	29.94	+.02	69	−1	90	20	46	25	s.	21	n.	15	3,957	5.60
New London	47	30.03	+.03	68	−2	86	20	48	25	s.	22	s.	26	3,796	7.13
Portland	45	29.98	+.04	68	+1	88	15	53	28	s.	22	s.	29	5,103	3.98
Middle Atlantic states.															
Albany	75	29.96	+.02	73	.....	92	18	50	25	s.	20	s.	4	3,419	5.27
Atlantic City	13	30.03	.00	72	0	89	20	61	8	ne.	27	s.	29	5,808	4.04
Baltimore	45	30.02	+.01	75	−1	94	20	59	25	se.	17	nw.	30	3,237	1.74
Barnegat	22	30.03	+.01	71	0	86	20	61	11	sw.	32	sw.	29	8,391	5.04
Cape Henry	16	30.04	+.02	75	−1	92	21	65	15	ne.	28	n.; ne.	...	8,395	2.56
Cape May	27	30.02	+.01	73	0	86	19	57	25	s.	52	s.	22	8,180	5.30
Chincoteague	8	30.04	+.02	73	0	91	20	61	13	sw.	36	nw.	30	5,755	1.10
Delaware Breakwater	20	30.03	+.01	73	−1	92	20	66	13	ne.	53	sw.	22	9,192	4.19
Lynchburg	652	29.38	+.01	75	−1	92	20	58	14	ne.	17	nw.	21	1,890	2.85
New York	164	29.89	+.01	72	−1	92	20	56	25	se.	32	e.	30	5,352	8.56
Norfolk	30	30.03	+.02	76	−1	92	20	65	14	ne.	22	n.	21	4,715	2.95
Philadelphia	117	29.94	+.01	72	−2	95	20	54	25	s.	24	sw.	4	5,041	4.30
Sandy Hook	28	30.03	+.02	72	−1	91	20	59	25	s.	40	nw.	30	8,032	5.12
Washington	106	29.96	+.01	74	−1	95	20	57	25	s.	28	w.	21	3,107	1.01
South Atlantic states.															
Atlanta	1,129	28.92	+.03	75	−1	89	27	66	6	e.	35	n.	3	4,939	2.06
Augusta	183	29.88	+.01	79	−1	94	21	64	14	ne.	18	e.; ne.	...	2,215	4.36
Charleston	52	29.98	.00	79	−2	91	1	68	13	ne.	21	sw.	2	4,505	6.12
Charlotte	808	29.22	+.02	75	−1	92	20	58	14	ne.	14	n.; e.	...	3,313	2.08
Fort Macon	.....	.....	.....	...	.....	.....	...	..	...	.....	...	.....	...	.....	.....
Hatteras	12	30.03	.00	76	−2	85	27	69	15	ne.	26	w.	1	7,462	5.89
Jacksonville	43	29.99	.00	80	−1	94	21	70	24	ne.	24	w.	2	3,451	5.21
Kitty Hawk	22	30.04	.00	76	−1	93	30	68	14	ne.	36	ne.	12	10,441	6.58
Savannah	87	29.95	.00	79	−2	92	4	69	12	n.; se.	24	ne.	23	3,225	8.41
Smithville	34	30.00	−.01	77	−2	88	1	65	14	ne.	26	sw.	4	6,705	5.38
Wilmington	52	29.99	+.01	77	−1	90	30	63	15	ne.	19	s.	29	3,432	9.58
Eastern Gulf.															
Mobile	35	30.01	+.04	79	−2	96	29	63	7	nw.	23	ne.	16	4,188	1.26
Montgomery	219	29.81	+.01	78	−2	97	29	62	6	ne.	27	ne.	4	2,829	3.05
New Orleans	52	29.96	+.01	82	0	93	29	66	8	e.	34	nw.	4	4,372	6.87
Pensacola	30	30.00	+.01	80	0	94	28	66	7	s.	24	nw.	3	4,385	2.07
Vicksburg	244	29.81	+.04	79	−2	98	29	62	11	n.	17	nw.	4	3,045	2.16
Western Gulf.															
Fort Smith	451	29.56	.00	76	−4	104	28	58	11	e.	24	n.	22	2,720	3.73
Galveston	40	29.98	−.02	84	0	93	30	71	6	se.	21	ne.	31	6,577	1.77
Indianola	26	29.97	−.01	82	−1	90	30	72	6	se.	52	ne.	30	6,610	1.28
Little Rock	299	29.72	.....	78	0	99	28	59	6	ne.	20	n.	30	2,533	3.26
Palestine	533	29.49	−.02	80	−2	98	29	62	12	s.	26	s.	1	5,886	0.66
Shreveport	227	29.80	+.03	81	.....	104	29	64	12	n.	32	w.	1	3,251	1.99
Ohio valley & Tennessee.															
Chattanooga	783	29.25	.00	74	−2	92	27	61	6	nw.	24	nw.	3	2,798	2.54
Cincinnati	620	29.41	+.01	75	−1	92	17	59	9	w.	18	sw.	3	3,165	2.05
Columbus	805	29.20	.00	73	0	92	20	51	11	sw.	29	sw.	3	3,612	0.70
Indianapolis	753	29.25	−.02	72	−2	89	16	50	9	n.; sw.	17	nw.	4	3,357	0.46
Knoxville	980	29.06	+.01	73	−2	93	27	57	6	ne.	28	n.	22	2,803	4.75
Louisville	530	29.48	+.03	75	−2	92	29	57	10	s.	23	w.	21	3,786	4.81
Memphis	321	29.73	+.04	78	−1	97	29	62	11	nw.	19	nw.	...	3,567	1.27
Nashville	549	29.48	+.04	75	−3	94	29	56	6	ne.	38	nw.	29	3,100	2.81
Pittsburg	766	29.24	−.01	72	0	98	20	52	11	nw.	23	s.	21	3,444	2.94
Lower lakes.															
Buffalo	690	29.28	−.01	68	−2	88	16	46	25	sw.	36	sw.	23	6,180	4.56
Cleveland	690	29.31	−.01	68	−2	89	3	50	11	n.	24	s.	3	5,572	1.65
Detroit	661	29.33	−.01	69	−1	90	8	46	9	s.	25	sw.	3	5,699	1.55
Erie	681	29.31	.00	69	−1	89	19	51	25	w.	24	w.	30	5,852	2.16
Oswego	334	29.06	−.04	67	−2	93	21	44	25	s.	26	s.	26	5,683	1.71
Port Huron	633	29.32	−.02	66	−2	92	17	47	8	ne.	25	sw.	3	5,634	1.28
Rochester	621	29.37	.....	67	−3	92	20	42	25	sw.	28	w.	23	6,673	2.52
Sandusky	639	29.36	.00	70	−2	93	20	54	5	sw.	30	n.	7	7,588	2.48
Toledo	670	29.33	−.01	70	−2	92	17	48	9	s.	24	s.; sw.	5	4,754	1.48
Upper lakes.															
Alpena	609	29.32	−.05	62	−3	91	20	39	9	se.	24	se.; w.	...	5,975	2.69
Chicago	661	29.32	.00	69	−3	91	19	51	10	e.	20	sw.	25	4,990	2.50
Duluth	687	29.22	−.07	64	−2	83	13	48	23	ne.	28	.....	...	5,856	6.92
Escanaba	613	29.30	−.06	63	−2	81	14	40	8	s.	36	s.	2	5,792	4.71
Grand Haven	620	29.36	.00	66	−3	83	17	45	10	nw.	32	s.	18	7,045	2.30
Mackinaw City	695	29.34	−.04	62	.....	89	20	42	8	nw.	25	w.	3	6,000	3.28
Marquette	673	29.25	−.05	63	−2	90	20	39	8	nw.	26	.....	...	5,804	5.46
Milwaukee	697	29.27	−.01	66	−3	88	20	48	8	se.	32	w.	20	6,769	1.84
Upper Mississippi valley															
Cairo	377	29.68	+.02	75	−3	90	28	57	10	n.	32	nw.	25	4,112	2.74
Davenport	615	29.38	+.01	70	−4	88	19	44	8	nw.	24	s.	2	5,472	3.84
Des Moines	849	29.14	+.01	69	−5	91	19	49	9	s.	20	w.; n.	...	3,578	3.84
Dubuque	665	29.31	.00	68	−4	90	19	49	8	s.	18	.....	29	3,278	4.25
Keokuk	618	29.38	+.02	72	−4	89	20	50	8	s.	29	.....	25	5,111	2.74
La Crosse	725	29.22	−.01	69	−3	86	15	52	4	s.	28	s.	24	5,166	3.82
Moorhead	923	28.94	−.04	64	−2	88	11	42	21	s.	34	n.	20	7,368	6.17
Saint Louis	583	29.45	+.03	74	−3	92	19	54	9	s.	36	nw.	29	7,411	1.21
Saint Paul	801	29.11	−.02	69	−1	90	15	50	4	s.	46	se.	19	6,190	2.89
Springfield	644	29.38	+.02	72	−3	91	19	49	9	s.	24	nw.	3	5,031	1.54
Missouri valley.															
Fort Bennett	1,510	28.38	+.04	70	−3	98	27	45	4	se.	35	nw.	2	6,996	0.74
Huron	1,305	28.59	−.01	66	−3	89	28	43	21	se.	33	nw.	3	7,030	1.18
Leavenworth	842	29.14	.00	72	−5	93	28	50	10	s.	18	se.	24	4,187	4.65
Omaha	1,113	28.86	−.01	70	−5	88	19	53	21	s.	27	.....	...	5,644	7.07
Yankton	1,228	28.70	.00	69	−4	90	28	48	8	s.	28	.....	...	3,113	2.61

Summary of meteorological data for stations of the Signal Service, August, 1884.—Continued.

Stations.	Elevation above sea-level.	Mean barometer corrected for temperature and error.	Departure from normal.	Temperature. Monthly mean.	Departure from normal.	Maximum.	Date.	Minimum.	Date.	Wind. Prevailing direction.	Max. velocity.	Direction.	Date.	Total movement.	Rainfall.
Extreme northwest.				°	°	°		°							
Bismarck	1,694	28.15	−.02	66	−2	91	15	42	7	s.	30	n.	15	5,858	3.80
Fort Buford	1,930	27.92	−.07	66	−1	100	14	44	3	nw.	44	nw.	1	6,269	1.06
Saint Vincent	804	29.03	−.06	62	−2	89	27	38	23	nw.	42	sw.	24	6,354	7.18
Pacific coast district.															
Cape Mendocino	637	29.29	.....	57	.....	69	26	47	1	n.	52	se.	2	16,448	0.33
Los Angeles	371	29.55	−.01	71	+2	102	29	52	28	w.	20	w.	...	3,695	0.02
Olympia	36	29.95	−.06	66	+5	92	3	47	16	n.	10	sw.	...	1,225	0.96
Portland	67	29.91	−.06	68	+2	94	2	51	28	n.	16	ne.	2	3,258	0.33
Red Bluff	332	29.53	+.01	82	+2	107	10	55	17	s.	20	s.	4	3,492	Inap.
Roseburg	.....	.....	.....	...	.....	...	...	...	...	.....	...	.....	...	.....	.....
Sacramento	64	29.82	.00	72	0	100	10	54	18	s.	18	sw.	16	5,234	Inap.
San Diego	67	29.84	−.01	70	+1	92	15	54	19	w.	20	nw.; w.	...	4,367	Inap.
San Francisco	60	29.88	−.01	59	+1	75	6	52	22	sw.	33	w.	29	8,351	0.04
Northern slope.															
Assiniboine	2,720	27.16	.00	65	−1	93	10	42	19	nw.	48	se.	27	5,542	2.61
Cheyenne	6,105	24.14	.00	61	−5	86	31	40	30	nw.	36	nw.	1	6,741	2.07
Deadwood	4,600	25.46	+.02	61	−5	83	14	40	20	ne.	15	ne.	5	2,163	3.07
Fort Benton	2,681	27.22	+.06	69	+1	99	26	36	20	ne.	40	w.	1	4,742	0.79
Fort Custer	3,040	26.85	−.03	68	−3	100	14	43	3	e.	52	nw.	15	4,750	2.09
Fort Maginnis	4,340	25.64	−.02	61	.....	89	10	36	20	sw.	48	nw.	1	6,740	1.33
Fort Shaw	3,550	.....	.....	64	−1	92	10	36	20	w.	36	nw.	1	4,658	0.59
Helena	4,044	25.88	.00	67	0	88	26	42	20	sw.	22	w.	1	4,635	0.47
Poplar River	.....	.....	.....	66	.....	100	14	43	3	w.	...	w.	24	.....	0.68
Spokane Falls	1,906	27.94	−.03	70	+5	98	5	44	17	sw.	16	sw.	...	2,895	0.54
Middle slope															
Denver	5,294	24.85	+.02	68	−3	92	1	51	3	s.	28	w.	1	4,475	1.71
Dodge City	2,517	27.45	+.01	72	−4	94	28	55	4	se.	42	se.	1	8,774	4.82
Fort Elliott	2,650	27.29	+.01	74	0	101	2	54	30	se.	40	w.	24	7,024	5.60
North Platte	2,841	27.12	+.01	68	−5	92	28	48	30	se.	36	se.	1	6,535	2.13
Pike's Peak	14,134	18.09	+.02	36	−3	48	1	23	20	w.	52	w.	20	9,113	0.25
West Las Animas	3,899	26.07	.....	70	−3	101	1	52	31	e.	31	e.	7	5,323	2.17
Southern slope.															
Fort Concho	1,900	28.09	.00	81	+2	103	1	60	31	s.	32	ne.	19	6,170	1.20
Fort Davis	4,928	25.25	.00	73	+2	100	2	58	26	sw.	24	s.	18	3,794	6.70
Fort Sill	1,200	28.76	−.01	79	+1	102	2	58	5	se.	32	ne.	1	7,101	1.21
Fort Stockton	3,010	27.01	+.01	79	+1	105	2	62	31	se.	31	se.	2	7,146	2.75
Northern plateau.															
Boisé City	2,750	27.15	+.02	74	+1	95	30	52	29	nw.	20	nw.	18	2,839	0.07
Dayton	1,607	28.24	+.02	70	+3	102	5	42	16	sw.	16	sw.	...	4,320	0.09
Lewiston	708	29.13	.00	74	+2	101	5	48	19	ne.	20	nw.	30	987	0.06
Middle plateau.															
Salt Lake City	4,348	25.66	+.02	73	−2	92	4	49	21	nw.	36	sw.	16	3,492	0.73
Southern plateau.															
Camp Thomas	2,710	27.19	+.01	81	+1	106	5	54	19	e.; w.	...	.....	...	.....	2.04
El Paso	2,704	26.27	+.01	80	+1	110	1	63	26	e.	23	n.	6	1,474	3.98
Fort Apache	5,050	25.05	−.02	68	+1	97	4	42	21	e.	32	nw.	6	3,819	5.59
Fort Grant	4,856	25.26	+.03	76	+1	97	5	58	24	n.	38	s.	18	3,828	2.41
Prescott	5,389	24.80	+.02	68	−2	92	1	41	19	n.	34	s.	18	3,893	1.57
Yuma	.....	.....	.....	...	.....	...	...	...	...	.....	...	.....	...	.....	.....
Rio Grande valley.															
Brownsville	59	29.92	+.01	81	−2	95	12	68	9	se.	25	se.	19	4,884	0.88
Rio Grande City	230	29.78	+.04	83	0	105	6	66	9	se.	25	se.	27	5,392	.....
Florida peninsula.															
Cedar Keys	22	30.00	−.01	81	−1	92	3	70	5	ne.	25	sw.	30	5,202	8.11
Key West	20	29.98	−.01	84	0	95	1	72	20	e.	31	ne.	19	5,366	3.16
Sanford	36	29.94	−.01	80	.....	97	1	70	31	ne.	26	ne.	26	3,209	11.09

ATMOSPHERIC ELECTRICITY.

AURORAS.

The auroral displays which occurred during August were few in number and were mostly confined to the northern part of the country. The stations reporting them are as follows:

Mount Forest, Ontario, Canada, 1st.

Saint Vincent, Minnesota, 12th: faint aurora observed in the northern sky at 10.40 p. m.; it consisted of slender beams having an altitude of 35°; no arch was formed. The display continued until after midnight.

Saint Vincent, Minnesota, 14th: aurora observed from 9.20 to 10.45 p. m.; the display was very faint and consisted of slender beams of from 25° to 30° altitude and extending along the northern horizon from 170° to 300° azimuth.

Fort Totten, Dakota, 14th: an aurora was observed in the north, from 8.30 p. m. to 10.45 p. m. It consisted of a dark segment and an arch of pale yellow light; altitude, 20°; azimuth about 90°.

Gardiner, Maine, 16th.