

Granville, and thence across the State line into Vermont, when it appeared to divide; barns, trees, fences, &c., were entirely demolished, and, as it passed over 'Martin Pond' and Meltowe river, large quantities of water were scooped up and carried some distance; it travelled about fourteen miles in an almost straight line; was about five rods in width, and passed any one point in about fifty seconds." 27th, it disappeared over the Gulf of St. Lawrence, producing gales from thence southwestward to the North Carolina coast. In northern Texas very heavy rains fell, accompanying thunder-storms, on this day and the following day. Cautionary Signals were ordered for Lake Michigan stations on the 25th; for those along Lakes Huron, Erie and Ontario and the coast from North Carolina to Maine, the 26th; and were very generally justified. Warnings were also sent to Toronto for the Canadian stations in the provinces of Quebec, New Brunswick, Nova Scotia, Cape Breton and Newfoundland. Maximum velocities: Salt Lake City, NE. 28; Denver, S. 36; Dodge City, W. 40; St. Louis, S. 40; North Platte, NE. 36; Chicago, NE. 25; Cleveland, SE. 45; Oswego, S. 25; Cape Lookout, SW. 40; Cape Henry, SW. 32; Cape May, S. 44; Barnegat and Sandy Hook, SW. 32; New London, SW. 30; Wood's Holl, SW. 38; Portland, NW. 36; Eastport, S. 35; Mt. Washington, NW. 100 miles.

No. X.—28th, the pressure diminished in the Northwest, with frequent rains. 29th, a barometric trough formed toward the Ohio valley. Thunder-storms were occasionally reported from the Gulf and South Atlantic States, and frequent rains from thence northward to the Middle States and Lower Lake region; occasionally high winds from the coast. By midnight it had developed into a slight depression, which was central in Ohio. 30th, it moved into the Middle States, where it was dissipated on the following day. The Cautionary Signals displayed the 30th from North Carolina to Massachusetts were ordered rather late. Maximum velocities: Shreveport, S. 32; St. Mark's, S. 28; Cape Lookout, SW. 40; Cape Hatteras, SW. 34; New London, E. 26; Boston, E. 30; Mt. Washington, SE. 50 miles.

No. XI.—29th, it advanced eastward toward the Northwest, producing high winds, and in Dakota and western Minnesota thunder-storms. 30th, the centre apparently passed over the northern portion of Minnesota, with frequent rains in the Northwest and Wisconsin. In Carver, Rice and Dakota counties, Minn., severe hail-storms, doing much damage; track ten to twelve miles wide, traveling from northwest to southeast. Wadena county, Minn., great damage to crops from heavy rain and wind storm. 31st, occasional rains, thunder-storms and gales were reported from the Lake region to the Northwest, and large hail from Independence, Iowa. Not any signals were displayed, and would have been justified at only two Lake stations. Maximum velocities: North Platte, S. 36; Bismarck, W. 26; Breckenridge, SE. 37; Leavenworth, NW. 28; St. Louis, E. 30; Davenport, SW. 50; Milwaukee, W. 28; Sandusky, SW. 27 miles.

INTERNATIONAL METEOROLOGY.

April 8th, off Cape Horn, very heavy weather, seas swept decks.

May 5th, 77° S., 86° W., ship Royal Dane encountered gale lasting seven days. U. S. Flagship Hartford, at Montevideo, reports, 8th, night, barometer 29.57 inches; NW. and W. fresh, heavy rain-squalls, thunder and lightning; 9th, a. m. barometer 29.55, strong W. and WSW. gales; 12th, evening, barometer 29.64, W. fresh, increasing to moderate WSW. gale, rain-squalls, thunder and lightning; 13th, 1 to 2 p. m., barometer 29.50, heavy WSW. gale, blowing heaviest from 2 to 7 p. m., with rising pressure; 14th, heavy SW. gale; 15th, moderate S. by W. gale. 18th, 34° 46' N., 60° 11' W., (by dead reckoning,) 8 a. m., WNW. gale and heavy sea. 22d, Pacific Mail S. S. City of Peking, reports, at Hong Kong, from a little before midnight of the 21st to 2:30 a. m. of 22d, severe thunder-storms, with very heavy rain, doing serious damage to roads, buildings, &c., by rush of water down hill-side, and considerable loss of life by rise in creek where boats were moored for the night. 25th, 42° S., 100° W., heavy SE. gale, lasting twenty-four hours. 26th, off Cape of Good Hope, heavy westerly gales.

June 7th, 26° 30' N., 55° 20' W., high sea. 10th, 60° N., 20° W., heavy squall; 60° 34' N., 19° 30' W., (night of 10th and 11th,) severe squalls and heavy seas. 20th, U. S. Steamship Gettysburg at Ben Ghazi, N. Africa, reports heavy white squall, (force 8) from W. by N., lasting four minutes.

July 1st, 43° 29' N., 43° 50' W., fresh NW. gale and heavy W. sea. 2d, 48° 30' N., 35° 58' W., squally; 46° 14' N., 40° 14' W., WNW. gale, heavy W. sea. 3d, 48° 21' N., 33° 36' W., SW. strong breeze, high sea. 4th, 46° 40' N., 40° 54' W., increasing WNW. storm; 45° 54' N., 37° 41' W., fresh WNW. gale. 5th, 44° 47' N., 46° 01' W., westerly wind and sea decreasing; 49° 45' N., 24° 40' W., high WSW. sea; 50° 47' N., 26° 09' W., high W. sea: 17° 43' N., 101° 40' W., 6:30 to 8 p. m., thunder-storm, wind veering from NE. to SW., with gale from SE. at 7 p. m., heavy rain throughout watch, sea rough, barometer at 6 and 7 p. m. 29.49 in. 6th, 49° 43' N., 30° 45' W., high W. sea. 7th, 48° 55' N., 40° 18' W., heavy southerly gale, high sea, rain; 48° 16' N., 38° 15' W., moderate to fresh WNW., SW. and W. gale, and high westerly sea. 8th, 47° 46' N., 46° 42' W., heavy SW., WNW., gale, very high sea, squally; 47° 30' N., 30° 08' W., moderate westerly gale, heavy W. sea; 46° 42' N., 45° 29' W., fresh SW. gale, high W. sea. 10th 46° 16' N., 48° 18' W., heavy rain. 13th, ship Garelock, on July 3rd, lat. 23° N., long. 58° W., thence to Bermuda July 13th, reports had variable winds, squalls and frequent water-spouts. 20th, 44° 17' N., 55° 08' W., fresh SSE. gale; about 130 miles W. of St. John's, N'f'd, moderate gale and high sea; off the Banks, N'f'd, heavy NW. squall. 21st, 48° 38' N., 41° 47' W., fresh SW. to WSW. gales; 50° 02' N., 38° 39' W., strong SW. and W. wind, rough sea, ship pitching hard. 22nd, 46° 28' N., 47° 29' W., fresh W. gale; 49° 0' N., 42° 40' W., NW.

strong gales, heavy squalls, high sea, and from noon to 4 p. m. three hurricane-like squalls; 52° 07' N., 32° 32' W., noon, moderate W. gale, midnight, fresh NW. gale. 23rd, 50° 22' N., 38° 30' W., moderate NW. gale; 48° 23' N., 23° 54' W., stormy, rain. 24th, 47° 31' N., 30° 47' W., stormy. 25th, 46° 02' N., 37° 45' W., stormy.

TEMPERATURE OF THE AIR.

The isothermal lines on chart No. II illustrate the general distribution of the temperature of the air for the month. By a reference to the table upon the left side of the same chart it will be seen that the average for the month is slightly lower than usual for the Pacific coast. For all the other districts the average is higher, especially for the Lake region. To give an idea of the effect of the warm weather during the month, the following data, relative to sun-strokes, have been generally extracted from newspapers, and may not be strictly accurate: 1st, New York city, 1 case. 2nd, Oswego, N. Y., 1; Springfield, Mass., 1; New York city, 10. 3rd, Boston, 7, 5 fatal; New York city, 12, 1 fatal. 4th, New York city, 5. 5th, Newport, R. I., several, 1 fatal; New York city, 15, 2 fatal. 8th, New York city, 2. 9th, St. Louis, 2 fatal. 10th, St. Louis, 2 fatal; New York city, 4. 11th, St. Louis, 3 fatal; New York city, 2, 1 fatal. 12th, Cincinnati, 6, 2 fatal; St. Louis, 20, 4 fatal. 13th, Little Rock, Ark., 1 fatal; Ellston, Mo., 1 fatal; St. Louis, about 30, 16 fatal; Burlington, Iowa, 2 fatal. 14th, Dubuque, Iowa, 2; Little Rock, 2 fatal; Quincy, Ill., 7, 5 fatal; St. Louis, 41 fatal. 15th, Kirkwood, Mo., East St. Louis, and Venice, Ill., numerous; St. Paul, St. Joseph, Mo., Naples, Ill., and Chicago, 1 fatal; Omaha, many, 3 fatal; Leavenworth, 14, 6 fatal; Peoria, Ill., 2 fatal; Bloomington, Ill., 24, 4 fatal; Marquette, several; St. Louis, hundreds, 49 fatal; Nashville, numerous, 2 fatal; New York city, 2. 16th, Memphis, 1 fatal; St. Louis, 35 fatal; Dubuque, 3; DeWitt, Iowa, 2 fatal; Galesburg, Ill., several fatal; Chicago, 9 fatal; Milwaukee, 20, 3 fatal. 17th, Ottumwa, Iowa, 4, 1 fatal; St. Louis, numerous, 8 fatal; Milwaukee, 103, 9 fatal; Chicago, 59, 20 fatal; Grand Rapids, Mich., Rochester and Louisville, several; Cincinnati and Columbus, Ohio, 3; Detroit, numerous, several fatal; Wheeling, W. Va., 2 fatal; Pittsburg and Buffalo, 1 fatal; Toronto, large number. 18th, cases were frequent from the New England and Middle States westward to Missouri and Iowa; 21 fatal in St. Louis, 3 in Terre Haute and Indianapolis, Ind., 2 in Cincinnati, and 1 in Baltimore, Pittsburg and Philadelphia. 19th, frequent as on previous day, but more numerous in the Eastern States; from 1 to 3 fatal cases in many towns and cities. 20th, Memphis, 1 fatal; St. Louis, 5 fatal; Cincinnati, 3 fatal; in the Middle Atlantic and New England States, from 1 to 4 cases fatal in the larger cities. 21st, Memphis, 3 fatal; New York city, 4 fatal. 22nd, 3 fatal at Memphis. 24th, Bismarck, 1 fatal. For St. Louis, the total number of deaths reported as from sun-stroke is 163. At Iowa City, Iowa, 12th sun thermometer rose to 156°; for fifteen days the temperature in the shade rose above 86°. Ft. Yuma, Arizona Ter., the mean of the daily minima temperatures for the month is 77°; of the daily maxima temperatures, 109°.4. At Memphis, between 4 and 5 a. m., 22nd, temperature began decreasing rapidly; the past eleven days have been fearful, causing numerous deaths and a partial suspension of business.

Minimum and Maximum Temperatures, respectively: Maine—at Eastport, 47° and 83°; Portland, 55°, 96°; Orono, 51°, 93°. *New Hampshire*—Mt. Washington, 35°, 68°; Dunbarton, 55°, 98°; Auburn, 50°, 98°. *Vermont*—Burlington, 53°, 96°; Woodstock, 45°, 97°. *Massachusetts*—Boston, 54°, 98°; Somerset, 56°, 102°; Waltham, 46°, 96°. *Rhode Island*—Newport, 56°, 92°; Fort Adams, 54°, 91°. *Connecticut*—New Haven, 55°, 92°; Colebrook, 50°, 92°. *New York*—Albany, 54°, 92°; New York city, 61°, 94°; Oswego, 59°, 100°; West Point, 52°, 101°; Plattsburg B'ks, 49°, 92°; Buffalo, 56°, 90°. *New Jersey*—Atlantic City, 61°, 87°; Linden, 63°, 99°; Cape May, 66°, 90°. *Pennsylvania*—Philadelphia, 64°, 97°; Pittsburg, 57°, 101°; Tioga, 50°, 100°; Chambersburg, 62°, 99°. *Delaware*—Dover, 70°, 95°. *Maryland*—Baltimore, 65°, 98°; New Market, 67°, 100°; Cumberland, 60°, 92°. *District of Columbia*—Washington, 63°, 98°. *Virginia*—Norfolk, 66°, 101°; Lynchburg, 60°, 97°; Snowville, 51°, 99°. *West Virginia*—Morgantown, 56°, 95°; Helvetia, 48°, 93°. *North Carolina*—Wilmington, 66°, 97°; Cape Hatteras, 68°, 84°; Weldon, 70°, 104°; Asheville, 59°, 90°. *South Carolina*—Charleston, 73°, 95°; Spartanburg, 70°, 98°. *Georgia*—Augusta, 71°, 105°; Gainesville, 68°, 101°; Tybee Island, 71°, 98°. *Florida*—Jacksonville, 72°, 97°; Key West, 73°, 93°; Ft. Barrancas, 73°, 102°. *Alabama*—Montgomery, 73°, 100°; Mobile, 72°, 98°. *Mississippi*—Vicksburg, 71°, 100°. *Louisiana*—New Orleans, 75°, 93°; Shreveport, 71°, 98°. *Texas*—Clarksville, 73°, 101°; Galveston, 73°, 95°; San Antonio, 58°, 99°; Corsicana, 67°, 102°; Concho, 66°, 102°; Stockton, 56°, 105°; Eagle Pass, 65°, 101°. *Tennessee*—Memphis, 69°, 97°; Knoxville, 65°, 97°; near Cleaveland, 70°, 99°. *Kentucky*—Louisville, 64°, 97°. *Ohio*—Cincinnati, 65°, 96°; Cleveland, 57°, 96°; Westerville, 50°, 95°; Jacksonburg, 63°, 100°. *Indiana*—Indianapolis, 58°, 96°; Vevay, 55°, 97°; New Corydon, 64°, 100°. *Illinois*—Cairo, 66°, 96°; Chicago, 59°, 97°; Hennepin, 63°, 102°; Riley, 54°, 95°. *Arkansas*—Judsonia, 73°, 96°; Mt. Ida, 72°, 94°. *Missouri*—St. Louis, 64°, 98°; Wet Glaze, 60°, 100°; Lebanon, 60°, 95°; Oregon, 58°, 94°. *Indian Territory*—Ft. Sill, 61°, 98°; Ft. Gibson, 62°, 99°. *Kansas*—Leavenworth, 61°, 100°; Dodge City, 64°, 102°; Fort Wallace, 62°, 106°; Fort Hays, 50°, 99°. *Michigan*—Detroit, 56°, 100°; Alpena, 49°, 90°; Grand Rapids, 60°, 97°; Marquette, 45°, 100°. *Wisconsin*—Milwaukee, 56°, 95°; Embarrass, 58°, 98°; Neillsville, 42°, 94°. *Iowa*—Dubuque, 55°, 96°; Tabor, 66°, 100°; Boonsboro, 62°, 104°; Nora Springs, 52°, 99°. *Minnesota*—St. Paul, 57°, 96°; Breckenridge, 49°, 97°. *Nebraska*—Omaha, 57°, 96°; Fort McPherson, 46°, 100°. *Dakota*—Yankton, 56°, 94°; Pembina, 45°, 89°; Bismarck, 47°, 100°; Fort Rice, 44°, 103°; Olivet, 55°, 104°. *Colorado*—Denver, 54°, 100°; Summit, 37°, 72°; Fort Lyon, 53°, 108°. *Wyoming Territory*—Cheyenne, 44°, 92°; Fort Sanders, 38°, 88°. *New Mexico*—Santa Fe, 50°, 95°. *Utah*—Salt Lake City,