

No. VIII—appeared at the morning report of the 18th in Dakota—moved eastward into Minnesota; 19th, its centre passed over northern Wisconsin to Lake Huron; 20th, continued its easterly track north of the Lower Lakes, and 21st disappeared beyond the Gulf of St. Lawrence. Near the centre of the depression the pressure was generally 0.3 below the normal. Cautionary Signals were ordered in advance of this storm, on the 19th for Lakes Superior, Michigan and Huron, and on the 20th for Lake Erie. The Signals were justified on Lakes Michigan, Huron and Erie. At Grand Haven, 60 miles, NW., on the 19th, is the highest registered velocity occurring in the Lake region this season. The rain was frequent and abundant, but nearly all fell after the passage of the centre of depression. September 20th, Pentwater, (on Lake Michigan,) severe wind-storm—buildings damaged, one person killed. Sherman City, Isabella county, Michigan, “annihilated by terrible tornado, every building but one swept clean away,” four persons injured. Coleman, Midland county, Mich., considerable damage done to trees and fences, one person injured. Thursday, Sept. 19th, Tawas, 50,000 feet of lumber blown into lake; 1,500 trees fell across Tawas and Southwestern railroad. Ogemaw Springs, tramways and smoke-stack blown down, mill, &c., damaged \$1,500. Greenville, church blown down, one person killed. Sherman City, Isabella county, “sudden darkness, deathlike stillness, respiration difficult, and suddenly the tornado struck the place with indescribable force, lasting but a few seconds, sweeping every structure away, several persons injured—tornado seemed to be caused by meeting of two storms from NW. and SE., respectively.”

No. IX—appeared on the the 21st in Dakota. 22nd, 7:35 a. m., was central near and west of Bismarck. That day it moved over Minnesota and north of Lake Superior. The pressure near the centre of the depression was about 0.5 inches below the normal. 22nd, the winds on Lake Superior and Michigan were high and southerly, with clear weather. All rain fell after the passage of centre, beginning in the Northwest on the 23rd; spread over the Lake region, Middle States and New England on the 24th.

No. X.—23rd, appeared at midnight report in western Wyoming. 24th, the centre moved along the Platte valley to Omaha. 25th, thence moved rapidly, in a northeast track, over Lake Michigan to the Georgian bay. 26th, 7:35 a. m., was central near Montreal; during the day moved up the St. Lawrence valley, and disappeared that night beyond our charts. The barometer at the centre of depression was generally 0.3 inches below the normal. Abundant rain fell south of its track, and mostly during the prevalence of the southerly winds. Cautionary Signals were ordered for this storm on the 24th for Lake Superior and on the 25th for the other lakes. The signals were justified on all the lakes. *Indiana*.—September 25th, Lebanon, 5 p. m., severe wind and rain-storm; buildings badly damaged and unroofed; two persons injured. Crawfordsville, 5 p. m., severe wind and rain-storm; buildings unroofed and flooded. Fort Wayne, 7 p. m., church struck by lightning and fired. Richmond, 7:30 p. m., heavy wind, followed by rain and lightning, damaging out-buildings and trees; railroad depot unroofed. *Illinois*.—Gilman, September 25th, destructive wind-storm; church and buildings badly damaged. *Michigan*.—September 25th, heavy storm washed away portion of C. and M. L. S. R. tracks near Coloma, (fifteen miles northeast of St. Joseph;) barn struck by lightning and fired in Walker township during afternoon.

No IX.—A low area appeared on the 27th, in Dakota. 28th, moved in a northeasterly track north of Pembina into Manitoba.

No. XII.—29th, moved over northern Nebraska. 30th, advanced in eastern Minnesota. The remainder of the track belongs to the October Review. The barometer near the centre of low area was frequently 0.6 in. below the normal. Frequent rain, seldom heavy, fell in advance of the storm centre. Signals were ordered in advance of the storm for Lakes Superior and Michigan on the 29th, for the other Lakes on the 30th. The storm was severe on Lake Michigan, and justified the Signals displayed there, but appears to have diminished in energy as it passed to the east.

INTERNATIONAL METEOROLOGY.

May 11th, 32° S., 22° W., severe cyclone.

June 2nd, 16° 56' S., 76° 45' E., sudden heavy gale. 15th, ship “East Lothian,” from Calcutta to New York, reports continuation of NW. to SW. gales from Mauritius to Cape of Good Hope, which was passed June 15th. 17th, 55° 26' S., 79° 26' W., decks swept by heavy seas. 18th, Bark “Wakefield” to the westward of Madagascar Island on June 18th, encountered heavy W'ly gales and high confused sea, continuing to July 19th, when Cape of Good Hope was passed. Bark “Wakefield,” Singapore to New York, September 15th, reported had strong E. winds up to June 22nd; in lat. 16° 56' S., long. 76° 45' E., had very sudden and severe gale during evening. 22nd, ship “Ross Dhu,” off Algoa Bay, South Africa, WNW. gale, lasting until July 13th, vessel struck by heavy sea July 3rd, 36° S., 32° 20' E.

July 4th, ship “Cosmopolis” wrecked on Staten Island, off Cape Horn, during hard WSW. gale, with thick snow. 13th, 35° 30' S., 19° 04' E., violent gale from NNE., increasing to hurricane and lasting six hours, with heavy cross seas. 14th, off Cape of Good Hope, strong westerly gales. 16th, Algoa Bay, Cape of Good Hope, SE. gale. 19th, 54° 33' S., 53° 30' W., during afternoon a heavy NE. gale set in, which continued with violence for eight days; 24th, 35° S., 24° 30' E., heavy NW. gale, lasting 24 hours. 22nd, bark “Emma” totally wrecked during strong NE. breeze on E. bar of Sable Island. 25th and 26th, 39° S., 140° E., severe gale. 27th, Cape of Good Hope, SE. gale.

August 4th, bark "Stover" parted cables and went ashore near Back Beach, Port Natal. 5th, Port Natal, strong easterly wind and high seas nearly all day. 13th, 49° N., 37° W., heavy NNW. gale. 16th, 6:30 a. m., off Cape Farewell, Greenland, terrific NNW. gale, with high seas. The German packet "Padang" left Tonila, Mexico, Aug. 14th, and experienced heavy weather until the 17th, when encountered fierce hurricane from SSW., lasting all night, with terrific sea and blinding rain; vessel was driven on Areia's Key, (lat. 22° N., long. 91° 30' W.) early in morning of the 18th; total wreck. Bark "Unica" left Sante-comapa (Vera Cruz coast) and encountered storm August 16th to 19th, in which sprung a leak, and was abandoned a. m. of the 20th, between New Bank and Triangles, off W. coast of Yucatan. 18th, 47° 52' N., 22° 35' W., heavy SE. gale. 19th, 40° N., 58° 50' W., hurricane from SE. to NW.; 35° N., 61° W., hurricane; one of crew swept overboard; 43° 20' N., 59° 40' W., SW. hurricane; 45° N., 58° W., heavy gale; lost entire deckload. Bark "Calcutta" (from London, Aug. 1st, to New York, Aug. 26th,) reports lat. 42° 40' N., long. 55° W., heavy squall from southward, lasting four hours; Aug. 21st, lat. 44° N., long. 58° 40' W., spoke bark "Aspatogan, who reported Aug. 19th, heavy squall, carrying away topsails, foresails, mainsail and jib. 22nd, 38° 10' N., 45° 00' W., noon, heavy W. sea; midnight, squally and tempestuous. 23rd, 39° 10' N., 46° 45' W., cloudy and squally; Beak's Cay, Binimis, heavy squall from NE. 24th, 39° 11' N., 47° 40' W., during p. m., squally and threatening. 25th, 38° 20' N., 49° 50' W., night, squally and heavy rain; 26° N., 76° W., severe SE. to NW. gale, barometer 29.40. 26th, Schooner "Pedrito," at New York, Sept. 15th, from Gibara, Cuba, reported hurricane from S. to NW., lasting 12 hours, (on the 28th, vessel was in latitude 28° 35' N., longitude 71° 53' W. :) Schooner "J. B. Atkinson," at Philadelphia, Sept. 8th, from Turk's Island, reported hurricane, lasting 8 hours; 28° 40' N., 70° 30' W., hurricane from S. to SE., veering to NE. and NW. 37° 28' N., 51° 25' W.; cloudy and squally, very heavy rains; 49° 40' N., 17° 27' W., rising WNW. wind and sea, equally. 27th, 48° 01' N., 29° 41' W., squally and rainy; 48° 45' N., 26° 36' W., wind N., heavy sea; 49° 30' N., 23° 36' W., wind WNW., stormy, high sea; 44° 58' N., 56° 43' W., SE., heavy thunder-squalls during afternoon; 37° 38' N., 53° 10' W., a. m., W. squally and lightning; 26° N., 76° W., gale; 31° 06' N., 68° 05' W., hurricane veering from SW. to NW., vessel lay on her beam ends for four hours; Brig "Brittania," from Barbadoes to New York, reports 27th, 30° 30' N., 69° W., squally, wind S.—4 p. m., barometer 30.00—night, squally throughout, and on the 28th, 5 a. m., barometer 29.30, threatening, wind SE.; 9 a. m., 29.20, hurricane—noon, 28.70, perfect cyclone—2 p. m., moderated for a time—about 3 p. m. wind veered to NE. with increased violence and fearful sea—4 p. m., wind NW., sea more regular, barometer rising rapidly. Schooner "Geo. B. Douglass," from New York, Aug. 22nd, for Antigua reports, 27th, 10 p. m., barometer commenced falling, wind SW., backed to NE., with heavy seas; at 5.30 a. m., 28th, was in latitude 31° 50' N., 66° 35' W., while under bare poles was hove down and compelled to cut away foremast. Bark "Marie B.," 75 miles SW. of Bermuda encountered hurricane on the 27th and 28th; Bark "Hornet," 100 miles W. of Bermuda had decks swept in gale commencing at SE. and working round easterly to NW. at 2 a. m. 28th. 28th, Prospect, Bermuda, 9 a. m., barometer 29.57; wind, SW., force, 6; rain-fall 2.43 in. during preceding 24 hours. Schooner "Iris," from Boston August 10th for coast of Africa, when NE. of Bermuda August 23th, encountered hurricane, commencing at SE. and working easterly to NW.; put into St. George's September 1st. Ship "Norton Stover," 80 miles NE. of Bermuda, hurricane; 23° 34' N., 63° 32' W., SW. gale; 47° 28' N., 32° 09' W., N'y wind, heavy sea; 49° 45' N., 6° 14' W., high sea. 29th, bark "Joe. Rauers," 150 miles NE. of Bermuda, 4:45 a. m., lowest barometer, 28.80—violent hurricane and high seas; 38° 0' N., 55° 50' W.—a. m., storm from SSE., hauling to SE. and increasing—p. m., wind, WNW., heavy rain; 36° N., 55° 23' W., terrific gale, SE. to E. and NE., vessel on beam-ends for five hours, decks swept, &c.; 49° 31' N., 42° 40' W., SE. to N., strong breeze, rainy; 51° 14', 14° 55' W. squally. 30th, bark "Ocean Pearl," from Leghorn, at Philadelphia September 11th, reports, August 30th, severe hurricane from WSW., veering S. to NNE., lasting fourteen hours, vessel had to scud before the gale—4 p. m., struck by heavy sea—midnight, fine weather, with heavy sea from all quarters; 50° 0' N., 22° 47' W., heavy sea from N. and NW; bark "Spanker," from Cienfuegos August 22d, along S. coast of Cuba to Cape San Antonio August 30th, reported heavy gales from SE. to WSW., with heavy thunder, lightning and rain. 31st, 49° 52' N., 5° 57' W., heavy northwest sea.

September.—1st, 49° 20' N., 39° 14' W., wind S. SE., NE., N. stormy, rough sea from N.; 53° 50' N., 26° 08' W. strong SW. and SSW. gale and dirty weather. 2nd, 40° 01' N., 46° 17' W. heavy sea; 50° 0' N., 33° 09' W., W'y. moderate gale and heavy sea; 52° 35' N., 31° 49' W. strong W'y gale and high sea; 49° 29' N., 26° 53' W., WSW. squally, SW. sea; 50° 24' N., 19° 13' W., W. rainy, high W'y sea; 55° 12' N., 17° 25' W., WNW. to NW. strong gale and heavy sea; 50° 20' N., 16° 29' W. heavy sea; 51° 30' N., 16° 4' W. high sea and rain. 3rd, 50° 24' N., 25° 13' W., WSW. squally, rain, very high sea; 50° 07' N., 24° 01' W., W., SW. strong wind high sea; 51° 10' N., 23° 14' W., high sea. 5th, 45° 13' N., 51° 39' W., heavy sea swell; 48° 50' N., 37° 38' W. very high westerly swell. Steamer "Powhattan," Gibraltar August 31st to New York September 14th, reported September 5th, heavy NW. gale lasting 3 days. 6th, 21° 33' N., 51° 41' W., hurricane; 48° 26' N., 44° 12' W., WNW. strong winds to moderate gale, high to strong seas; 47° 18' N., 41° 58' W., high, rough sea; 50° 23' N., 41° 43' W., brisk WNW. and WSW. gale, squally, heavy sea; 51° 05' N., 22° 55' W., SW. to NW., squally. 7th, 30° 53' N., 62° 52' W., SSW. squally, barometer 30.10; Spanish frigate "Pizarro" left Bermuda September 7th, and encountered strong SE. wind with heavy sea, increasing to hurricane, which lasted until 10th, vessel abandoned at 4 a. m., of the 11th, in 35° 30' N., 57° 7' W.; 45° 19' N., 47° 21' W., rain and fog, high westerly swell; 50° 50' N., 32° 02' W., a. m., high sea—p. m., WSW., stormy; 54° 43' N., 16° 13' W., heavy SW. swell; 49° 50' N., 12° 27' W., fresh NW. wind, heavy W'y sea; bark

"Lotus," from Hyeres, France, at Boston September 26th, reported severe hurricane from E. to NNW. during September 7th, 8th and 9th. 8th, 30° 23' N., 61° 51' W., S. and SSE., squally and rain, barometer 30.10; 41° 57' N., 59° 37' W., heavy E'ly sea; 39° 30' N., 52° W., very high sea; 49° 13' N., 37° 10' W., SSW. to NNE. moderate gale, strong NW. sea; 51° 10' N., 24° 06' W., WSW. strong gale; 53° 53' N., 22° 54' W., strong SW. to NW. wind, very heavy sea; 50° 07' N., 18° 55' W., fresh SW. wind and heavy W. sea; 50° 44' N., 14° 26' W., fresh W. wind, high NW., sea, ship pitched heavily; steamer "Alexandria," from Gibraltar August 30th to Sandy Hook September 14th, reported, September 8th to 12th, strong gales and heavy seas. 9th, 29° 27' N., 62° 24' W., SE. to SSE., heavy rains, barometer 30.10; 34° 59' N., 48° W., NE. gale, high seas, heavy rains; 52° 19' N., 29° 33' W., strong W. and WSW. winds, heavy W. sea; 50° 07' N., 25° 02' W., a. m., heavy sea; 51° 10' N., 20° 41' W., NW.—NE., cloudy, much rain; 49° 09' N., 17° 52' W., WNW., squally. Bark "Onward," from Barcelona July 20th, for Miramichi, N. B., experienced severe gale from NE. on September 9th; gale continued until daybreak of September 11th, when ship was abandoned in sinking condition; crew taken off by bark "Luchino," from Bristol, and landed at Philadelphia Sept. 26th. 10th., 29° 15' N., 62° 13' W., S. and SSW., squally and rain, barometer, 30.10; 49° 39' N., 33° 33' W., noon, wind SW—7 p. m., shifted to N'd, with heavy squall; 49° 45' N., 32° 15' W., N. fresh, heavy rain; 48° 48' N., 25° 49' W., SSW. fresh, rainy, rough sea. 11th., 28° 34' N., 62° 05' W., ESE. to SE. squally and showers, barometer, 30.10; 50° 38' N., 36° 30' W., NE., high swell; 49° 38' N., 33° 33' W., NE. moderate gale, clear weather, high, confused sea; 49° 03' N., 30° 04' W., SW. to NNE. fresh gale, confused sea. 12th., 27° 20' N., 62° 15' W., E. to SE., cloudy, barometer, 30.10; 49° 15' N., 43° 37' W., high sea; 47° 18' N., 38° 01' W., NE. moderate gale. 13th., 24° 58' N., 62° 09' W., ENE. and NE., heavy squalls, barometer, 30.00. 14th, 42° 06' N., 65° 02' W., p. m., strong SW. wind and heavy W. sea; 22° 01' N., 62° 28' W., NE. and NNE. gale and high sea, barometer 29.90; 50° 08' N., 10° 46' W., p. m., heavy sea swell. 15th, 41° 26' N., 63° 30' W., NW. rain-squalls; 19° 43' N. 63° 09' W., NE. to NW. fresh gale, barometer 29.87; 18° 57' N., 58° 56' W., brig "Adelaide" lost sails, &c., in hurricane; 19° N., 56° 20' W., SE. gale; 51° 09' N., 22° 17' W., westerly fresh gale; 50° 18' N., 16° 05' W., a. m., fresh NW. gale, squally—p. m., gale moderating, heavy seas; 55° 23' N., 9° 23' W., SSW. to NNW. severe gale, very high sea, barometer 28.98; 49° 44' N., 7° 41' W., rough sea. 16th, 35° 50' N., 64° 50' W., strong NE. gale, high seas, hard rain-squalls; 18° 23' N., 64° 36' W., N. and NW. strong breeze, barometer 30.00; 50° 14' N., 30° 15' W., westerly moderate gale; 50° 16' N., 19° 38' W., a. m., NW. squally—p. m., heavy sea; 49° 38' N. 12° 01' W., SW—NW strong gale, rains, rough sea; 55° 15' N., 11° 45' W., WNW. and SW. hard squalls; steamers "Canadian" and "Devonia," from Montreal and New York, at Glasgow, September 17th and 18th, respectively, reported fierce gales and heavy seas off Irish coast. 17th, brig "Bergliot," (from Caen, France, for Wilmington, N. C.) encountered hurricane September 17th, and was abandoned September 20th, in 26° 18' N., 58° 27' W.; 50° 08' N., 24° 53' W., a. m., WNW. squally p. m., heavy sea; 49° 25' N., 18° 30' W., W. SW. wind decreasing, rainy, heavy sea; 55° 03' N., 15° 40' W., WSW. to NW., hard squalls. 18th, 54° 28' N., 19° 46' W., NW. fierce squalls, with hail and rain; 50° 26' N., 2° 22' W., WSW. NNW. strong gale, high sea, squalls. 19th, 51° 20' N., 13° 45' W. NNW. strong wind and high sea; 49° 44' N., 9° 02' W., NW. WNW. strong gale, high sea. 20th, 49° 26' N., 15° 54' W., a. m., wind NNE. very high sea, moderating towards noon—p. m., wind E., S., SW. strong gale and high sea; 51° 26' N., 13° 22' W., heavy W'ly sea. 21st, 51° 33' N., 39° 05' W., fresh W. gales and high seas; 52° 17' N., 20° 20' W., high cross seas. 22nd, bark "Emma" wrecked during strong NE. breeze off east bar of Sable Island; 48° 21' N., 30° 09' W., fresh NW. gale, very high sea; 50° 54' N., 26° 03' W., heavy W. sea; 51° 11' N., 23° 16' W., fresh N. gale and heavy squalls; 54° 01' N., 22° 10' W., strong NW. breeze and heavy squalls. 23rd, 41° 58' N., 56° 40' W., NE., N., W., increasing to gale, wild sea; 47° 18' N., 51° 35' W., SSW. to NNE. strong gales and rain; 50° 11' N., 31° 26' W., high W'ly sea. 24th, 41° 25' N., 62° 29' W., NNW. decreasing wind and sea; 44° 23' N., 57° 23' W., N. and NW. strong gales, with hard squalls; 45° 06' N., 53° 03' W., moderate W'ly gale, squally, high west sea; 45° 20' N., 42° 54' W., W. heavy gale, high sea; 49° 09' N., 38° 24' W., fresh SW. gale, high westerly sea; 49° 59' N., 37° 57' W., SSW.—W. hard gale, heavy W. sea. 25th, 43° 42' N., 47° 58' W., heavy WNW. gale and high sea; 47° 39' N., 44° 34' W., fresh WNW. to WSW. gale, high W. sea; 48° 31' N., 42° 20' W., fresh gale, heavy W. sea; 49° 19' N., 41° 31' W., strong W. breeze, with heavy rain-squalls; Jacmel, Hayti, "hurricane, two vessels and all lighters in harbor lost, many houses destroyed." 26th, 45° 47' N., 51° 14' W., fresh NW'ly gale.

TEMPERATURE OF THE AIR.

The isothermal lines on chart No. II illustrate the general distribution of the temperature of the air during the month. By reference to the table, on the left side of chart, it will be seen that the temperature for the month has been above the average for all sections east of a line drawn from Colorado to Minnesota; this is especially the case over the northern sections, namely: the Lake region, Middle and New England States and St. Lawrence valley, where the general average is more than three degrees above the normal; the comparison for the Gulf States can not be made on account of reports missing from the Lower Mississippi, but the means of the stations procured indicate that this section was from one to two degrees above normal. In the Northwest and on the Pacific coast the temperature has been about normal, but at the Rocky Mountain stations, from 1°.3 at Denver, to 5°.6 at Salt Lake City, below.

Minimum and Maximum Temperatures, respectively:—Maine—Orono, 29° and 79°; Cornish, 35°, 84°. New Hampshire—Mt. Washington, 14°, 62°; Dunbarton, 24°, 87°; Auburn, 30°, 90°. Vermont—Woodstock,