steamers resume trips 26th; Neillsville, Wis., a good stage of water in Black river, and logs running out, on the 9th; Detroit, Mich., first boat left on the 4th, and the first boat for Lake Huron on the 8th; Rochester, N. Y., first vessel out on the 4th; Northport, Mich., first schooner arrived 13th, first steamer arrived 24th; Moorhead, Minn., first steamer arrived 21th, left on the 24th; Plattsmouth, Neb., first steamer went up the river 8th; Toledo, Ohio, first steamer from Canada on the 4th; Escanaba, Mich., steamers crossed channel through the ice 27th; St. Paul, Minn., navigation opened 22d; Bangor, Me., navigation opened 12th; Chicago, Ill., opened 28th; Bismarck, D. T., first boat up river 24th; Erie, Penn., first departure 12th, arrival 14; Cleveland, Ohio, first arrival 4th; Port Huron, Mich., first boat passed up 9th; Alpena, Mich., first steamer arrived 9th; Pembina, Minn., first boat arrived 26th.

WATER TEMPERATURES.

The maximum and minimum temperatures, as observed at the bottom of waters in rivers and harbors, are given in the table on Chart No. II. Minima of 32° or 33° are recorded at Alpena, Buffalo, Detroit, Duluth, Eastport, Milwaukee, Pittsburgh and St. Paul. Maxima are reported from Key West, 83°; Augusta, 73°; Galveston, 79°; Montgomery, 70°; St. Marks, 73°; Shreveport, 75°. Ranges of 20° or more are reported from Grand Haven, Keokuk, St. Paul and Toledo, 20°; Augusta and St. Louis, 21°; Leavenworth, 22; Omaha, 23°; Yankton, 27. At Golden City, Col., the temperature of Clear Creek was 52°, and of well-water, 43°, on the 30th.

ATMOSPHERIC ELECTRICITY.

Thunder and Lightning have been observed in the following States on the given dates: 1st, Ala., Ga., La., Miss., Tenn., Texas; 2d, Ala., Fla., Ill., Ind., Ky., Ohio; 3d, Ala., Ga., Fla., Ind., S. C.; 4th, Ind., La., Mo.; 5th, Ill., Ohio., Penn., Texas; 6th, N. M., Texas; 7th, Ala., Conn., La., Miss., N. Y., R. I., Texas; 8th, Dak.; 9th, Dak., Iowa., Kan., Mo., Neb., Wis.; 10th, Dak., Ill., Iowa., Kan., Neb., Penn., Texas; 11th, Ill., Ind., Iowa, Kan., Ky., La., Miss., Mich., Mo., Neb., Ohio, Tenn., Texas, Va., Wis.; 12th, Ga., Ill., Ind., Iowa., Kan., Ky., La., Md., Mich., Miss., Mo., N. J., Penn., Tenn., Texas, Wis.; 13th, Ill., Ind., Iowa., Ky., La., Miss., Md., Mich., N. J., N. Y., N. C., Ohio, Penn., S. C., Tenn., Texas, Wis., West Va.; 14th, Ala., Ga., N. J., N. Y., N. C., Ohio, Penn., Va., Wis.; 15th, Ill., Ind., Ohio; 16th, Conn., Mass., Ohio., Penn., Tenn., West Va.; 17th, Va.; 18th, Iowa, N. C.; 19th, Iowa, Kan., Minn., Neb.; 20th, Ill., Ind., Kan., Ky., Mich., Mo., N. J., N. Y., Ohio, Penn., Wis., West Va.; 21st, Ga., Ill., Iowa., Kan., Ky., Mo., Neb., N. J., N. Y., N. C., Penn., Tenn.; 22d, Dak., Kan., Mich., Mo., Neb., Tenn., Utah; 23d, Ind., Kan., Ky., Mass., Mo., Neb., N. C., Ohio, Tenn.; 24th, Ala., Ark., Fla., Ga., La., Miss., N. C., S. C., Tenn.; 25th, Dak., Fla., Ind., Iowa., Kan., La., Minn., Neb., N. C., Texas, Va.; 26th, Dak., Ill., Iowa, Kan., La., Mo., Neb., Texas; 27th, Ark., Ill., Ind., Iowa, Kan., Mich., Minn., Mo., Ohio, Tenn., Wis.; 28th, Ala., Del., Ga., La., N. J., N. Y., N. C., Penn., S. C., Tenn., Texas, Va.; 29th, Ill., Ind., Kan., Mo., N. Y., Ohio, Utah; 30th, Ala., Ill., Kan., Minn., Neb., Tenn.

Auroras have been feeble, except that of the 19th. They have been reported as follows: 6th, Guttenburg, Iowa; 12th, Havana, Ill.; 14th, Malone, N. Y.; 16th, Waltham, Mass.; 17th, Decatur, Ill.; 18th, Escanaba, Alpena and Marquette, Mich.; 19th, Buffalo, N. Y., Springfield, Mass., Malone, N. Y., Boston, Mass., Cornish, Eastport, West Waterville, Gardiner, Standish, Orona and Acton, Me., Hinsdale and Florida, Mass., Shelburne and Contoocookville, N. H., Ardenia, Waterburgh, North Argyle, Wappinger's Falls and Canton, N. Y., Woodstock, West Charlotte and Lunenburg, Vt.; 22d, Escanaba, Mich., and Indianapolis, Ind.; 23d, Escanaba, Mich., and Woodstock, Vt.; 24th, Breckenridge, Minn., and Malone, N. Y.; 27th, Malone, N. Y.

Telegraphic Ground Currents.—Electrical disturbances reported on telegraph lines at Milwaukee 11th and 20th; at Santa Fe, N. M., 5th; at Philadelphia, 28th; and at Pike's Peak, 24th.

OPTICAL PHENOMENA.

Mirage was observed at Evanston, Ill., on the following dates; 8th, 9th, 21st, 22d and 24th; New London, 2d, 8th, 11th, 13th, 22d and 27th; Breckenridge, 6th, 10th, 17th, 19th and 30th; Fort Ontario, N. Y., 16th, 26th; Atlanta, Kan., 3d, 9th, 12th, 13th, 17th, 18th, 19th, 22d, 24th, 25th, 26th, 27th; Ellenwood, Kan., 7th; Moorhead, Minn., 1st.

Solar Halos.—1st, Ill., Ind., Ky., Ohio, Va., W. Va., Wis., Ga.; 2d, Md., N. C., Ohio, N. Y., Kan., Penn., Me.; 3d, Me., Neb., Ohio, Wis.; 4th, Ill., Iowa, Minn., Ohio, Wis., N. Y.; 5th, Kan., N. J., N. Y., Vt., Ill., Wis., Col.; 6th, Mich., Wis., Ga., Ill., Minn., Dak.; 7th, Conn., Me., Mass., N. H., N. Y., Ohio, Tenn., Vt., Ga., Va.; 8th, Me., Tenn.; 9th, Ill., Ind., Mich., Ohio, Tenn., Wis., Kan., Fla.; 10th, Md., Mich., Neb., N. Y., Ohio, Penn.; 11th, Conn., Mass., Mich., N. C., N. H., N. J., N. Y., Penn.; 12th, Conn., Me., Mass., Mich., N. Y.; 13th, Me., N. H., N. Y., Ohio, Vt., Ga., Minn., Neb.; 14th, N. H., N. Y., Ga.; 15th, Iowa, Neb., Tenn.; 16th, Mich., Me., N. H., N. Y., Tenn., 17th, Neb.; 18th, Dak.; 19th, Ill., Ohio, Tenn., Mich., 20th, Del., Ill., Me., Neb., Ohio, Penn., Tenn., Va., N. C.; 21st, Conn., Del., Ill., Ind., Ky., Mass., Minn.; Mich., N. Y., Neb., N. J., Ohio, Tenn., Wis., 22d, Ill, Me., Mich., N. C., N. Y., N. J., Ohio, Kan., Conn.; 23d, Md., Penn., N. Y., N. J.; 24th, Mass., Me., N. H. N. Y.; 25th, Conn., Ill., Iowa, Me., N. Y., Vt., Wis.;