

N. J., N. Y., Ohio. 7th, Neb. 8th, Del. 18th, Dak., Mass., Minn., N. Mex. 19th, Conn., Dak., Kan., Mass., Minn., Mich., N. C., R. I. 20th, Ark., Conn., Ga., Ky., Mass., Minn., Mo., N. J., N. C., Ohio, Tenn. 21st, Conn., Fla., Ind., Iowa, Me., Mass., Mich., Minn., Neb., N. H., N. Y., Ohio, Penn., R. I. 22nd, Dak., Ind., Me., Mass., N. H., N. J., N. Y., Ohio, Penn., Tenn., Vt. 23rd, Cal., Can., Ill., Iowa, Me., Mo., N. J., N. Mex., N. Y., Va. 24th, Cal., Can., Iowa, Kan., Minn., Mo., Neb., N. Mex., N. C. 25th, Cal., Conn., Ga., Iowa, Kan., Mass., Mo., N. H., N. J., N. Y., N. C., Ohio, R. I., S. C., Tenn., Vt. 26th, Cal., Ind., Iowa, Me., Mass., Mich., Miss., Mo., N. J., N. Mex., N. Y., Tenn., Wis. 27th, Ala., Cal., Iowa, Mass., Mich., Minn., Mo., N. J., N. C., Or., R. I., Tex. 28th, Ala., Iowa, Kan., Me., Mass., Mo., Mont., N. J., N. Mex., N. Y., N. C., Penn., Tex., Wis. 29th, Ala., Cal., Ind., La., Me., Mass., Mich., Min., N. C., Ohio, Tenn., Wis. 30th, Conn., Minn., Ohio, N. C., Tex., Va. 31st, Ala., Can., Del., Ind. Ty., Miss., N. C., S. C., Tex., Tenn., La.

*Mirage*.—Ga., Tybee Island, 3rd, 4th, 9th; Neb., Genoa, 4th, 24th, 26th; Me., Standish, 11th, 17th, 26th, 31st; Minn., Breckenridge, 15th, 22nd, 25th, 27th; Mass., New Bedford, 28th.

### MISCELLANEOUS PHENOMENA.

*Zoological*.—*Wild geese* were observed at Baxter Springs, Kan., 5th and 6th, and flying south 29th; Sedgwick, Kan., NE., 22nd; Melissa, Texas, S., 5th and 30th. N., 27th; Nashville, E., 18th; Corning, Mo., 25th; Abington, Ill., N., 29th; Havana, Ill., abundant three last days of month; Afton, Iowa, and Benettsville, Ky., N., 31st. *Wild ducks*, Fort Macon, N. C., flying S., 19th and 24th; New Bedford, Mass., seen in large numbers 29th and 30th; Golden, Col., and Stanley, Kan., N., 30th; Havana, Ill., abundant three last days of month. *Bluebirds* seen at Weldon, N. C., 14th; Benettsville, Ky., 16th; Austin, Tenn., 28th; Chambersburg, Pa., 27th; Cleveland, Tenn., 28th; Accotink, Va., and Fallsston, Md., 29th; Baxter Springs, Kan., and Morgantown, W. Va., 31st; Ringgold, Ohio, during last of month. *Robins* appeared at Morgantown, W. Va., 23rd; Lynchburg, Va., 28th; Fort Madison, Iowa, 30th; Afton, Iowa, 31st. *Redbirds* appeared at Alto Vista, Va., 10th; Morgantown, W. Va., 23rd. *Blackbirds* seen at Golden, Col., flying NW., 31st. *Mockingbirds* appeared at Welborn, Fla., 25th. *Golden Winged woodpecker* seen at Abington; Ill., 31st. *Bees* were out at Afton, Iowa, and Oregon, Mo., 31st. *Reptiles*.—Concerning the reported shower of snakes at Memphis on the 15th, the following is taken from the observer's report: "Morning opened with light rain; 10:20 a. m. began to pour down in torrents, lasting fifteen minutes, wind SW.; immediately after the reptiles were discovered crawling on the sidewalks, in the road, gutters and yards of Vance street, between Landerdale and Goslee streets, two blocks; careful inquiry was made to ascertain if anyone had seen them descend, but without success; neither were they to be found in the cisterns, on roofs, or any elevations above the ground; Vance street is comparatively new, has no pavements, gutters merely trenches; I heard of none being found elsewhere; when first seen they were a very dark brown, almost black; were very thick in some places, being tangled together like a mass of thread or yarn."

*Meteors*.—1st, Ky. 3rd, Conn., Penn. 4th, Mo. 5th, N. Y. 7th, Iowa. 8th, N. C. 9th, Penn. 13th, N. J. 15th, Iowa, W. Va. 20th, Ky. 23rd, Ohio. 24th, Mass., N. J. 26th, Fla. 27th, Iowa, La. 30th, Ky., Penn.

*Ice-bergs*.—Lat., 44° 15' N., long., 44° 40' W., 23rd.

*Polar Bands*.—Me., Gardiner, 1st, 8th, 12th, 21th, 27th. Wis., Milwaukee, 2nd. Va., Wytheville, 3rd, 23rd, 31st. Ga., Tybee Island, 5th, 8th. Ohio, Carthagena, 6th, 9th, 14th, 18th, 21st, 25th, 27th. Fla., Daytona, 11th. Iowa, Guttenburg, 12th, 29th; Iowa City, 13th, 25th, 27th; Tabor, 31st. Minn., Duluth, 17th, 23rd, 24th, 25th; St. Paul, 26th. Ky., Benettsville, 25th. N. H., Contoocookville, 31st.

*Zodiacal Light*.—Ga., Savannah, 2nd, 4th, 30th. Mass., Somerset, 4th, 5th, 7th, 9th. Florida, 5th. Ohio, Bellefontaine, 4th, 5th, 14th, 17th, 31st. N. J., Ateo, 4th, 9th. N. Y., Waterburgh, 5th, 13th, 17th.

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Albert J. Meyer

Brig. Gen. (Bot. Assg'd.) Chief Signal Officer, U. S. A.

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