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MISCELLANEOUS PHENOMENA.

Polar bands were observed at Gattenberg, Iowa, on the 9th and 23th; Carthagena, Ohio, 9th, 19th and 29th; Hanover, Penn., 14th; Wytheville, Va., 31, 4th, 8th, 9th, 14th and 19th; Plattsmouth, Neb., 2d; Dubuque, 29th; Smithville, N. C., 14th and 22d; Bismarck, D. T., 7th.

Zoological.—*Wild Geese* were seen at Gattenberg, Ia., 8th; flying N. at Independence, Ia., 8th and 10th; flying N. at Monticello, Ia., 9th; flying N. at Point Pleasant, La., 8th; flying N. at Standish, Me., 29th; flying N. at Owing's Mills, Mo., 11th; flying E. at Mendon, Mass., 6th; seen at New Bedford, Mass., 28th; flying W. at Hudson, Mich., 19th; flying N. at Clear Creek, Neb., 24th; flying N. at Jacksonsburg, O., 3d; flying N., at Belmont Farm, Tex., 9th, 14th and 31st; flying N. at West Charlotte, Vt., 30th; flying N. at Prospect Hill, Va., 27th; flying NW. at Wytheville, Va., 9th; flying N. at Rocky Run, Wis., 10th, and S. 9th. *Wild Ducks* were seen flying N. at Golden, Col., 28th; flying N. at Monticello, Ia., 9th, and Independence, 10th; at Hudson, Mich., observed during month; flying N. at Clear Creek, Neb., 30th; arrived at Utica, Wis., 6th. *Robins* arrived at Riley, Ill., 7th; Afton, Ia., 8th; Independence, Ia., 5th; Gardiner, Me., 30th; Somerset, Mass., 16th; Dumbarton, N. H., 9th; Auburn, N. H., 26th; Ardenia, N. Y., 7th; Starkey, N. Y., 6th; Woodstock, Vt., 9th; Coalville, Utah, 17th; Wautoma, Wis., 19th; Utica, Wis., 10th. *Bluebirds* appeared at Riley, Ill., 8th; Standish, Me., 29th; Somerset, Mass., 7th; Dumbarton, N. H., 7th; Auburn, N. H., 12th; Starkey, N. Y., 7th; West Chester, Penn., 11th; Utica, Wis., 10th. *Blackbirds* first seen at Estes Park, Col., 7th; Somerset, Mass., 18th; Dumbarton, N. H., 9th; Chambersburg, Penn., 9th; Utica, Wis., 10th. *Mocking Birds*, arrived (during a snow storm,) at Louisville, Ill., 12th; Norfolk, Neb., 12th. *Purple Martin* appeared at Leconia, Ind., 28th. *Kill Dec* seen at Utica, Wis., 10th. *Larks* appeared at Riley, Ill., 8th; Emerson, Neb., 30th; Chambersburg, Penn., 9th. *Song Sparrow* arrived at Somerset, Mass., 5th. *Trout* were observed in the creeks at Golden, Col., 9th. At Somerset, Mass. *herring* were first caught in the Taunton river 7th, and *shad* 30th. *Grasshoppers* hatched out at Estes Park, Col., 3d; at Belmont Farm, Texas, they have remained alive all winter, and were on wheat the 25th; active at Bismarck, Dak., 4th.

Botanical.—*Peach trees* in full bloom at Knoxville, Tenn., 10th; Anna, Ill., 11th; in bloom at Benettsville, Ky., 7th; budding out at Ringgold, Ohio, 11th. *Apple trees* budding out at Ringgold, Ohio, 11th. *Plum trees* in bloom at Prospect Hill, Va., 8th. *Willow buds* opened at Springfield, Mass., 5th. *Elm trees* budding at Monticello, Ia., 31st. *Maple and Elder trees* budding at Owing's Mills, Md., 18th.

Prairie Fires occurred near Fort Lyon, Col., 7th, 18th, 21st and 29th.

Zodiacal Light was observed at Elinwood Kan., 12th and 17th; Ateo, N. J., 19th, 22d and 23d; Waterburgh, N. Y., 14th, 15th, 19th, 22d, 23d and 24th.

Earthquakes.—Two slight shocks were felt about 6 a. m. and 1 p. m., of the 25th, at Oakland, Cal.

Meteors were seen on the 1st at Nora Springs, Ia., Beloit, Wis.; 6th and 9th, Freehold, N. J.; 10th, Florida, Mass.; 13th, Nora Springs and Davenport, Ia.; 14th, Pennville, Penn.; 19th, Flushing, N. Y.; 23d, Florida, Mass., Brookhaven, N. Y.; 26th, Benettsville, Ky., Smithville, N. C.

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Albert J. Myer

Brig. Gen. (Bvt. Assg'l.) Chief Signal Officer, U. S. A.

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