

## MISCELLANEOUS PHENOMENA.

(1) *Polar Bands* were reported on the 3rd, at Wytheville, Va. and Newport, R. I.; 5th, Guttenberg, Iowa, Carthage, Ohio and Cleveland, 7th, Milwaukee, Wis.; 11th, Charleston, S. C. and Vicksburg, Miss.; 13th, Wytheville, Va. and Wilmington, N. C.; 20th, Carthage, Ohio and Knoxville, Tenn.; 21st, Boston, Mass.; 22nd; Charleston, S. C.; 23rd, Wytheville, Va.; 24th, Carthage, Ohio and Wytheville, Va.; 29th, Wytheville, Va.; 20th, Wytheville, Va.

(2) *Vegetable Phenomena*.—Plum trees were in bloom on the 15th at Troy, Ala.; 31st, (?) Forsythe, Ga.; 25th, Edgefield, S. C.; 31st Clarksville, Texas, 20th, McMinnville, Ten.; 31st, Spartanburg, S. C., 31st, Augusta, Ga. Peach trees were in bloom on the 24th at Troy, Ala.; 8th, Mount Ida; 31st, (?) Forsythe, Ga.; 31st, (?) Cleveland, Tenn.; Clarksville, Texas and Laconia, Ind.; 23rd, Aiken, S. C. and Cairo, Ill.; 29th, Nashville, Tenn. Orange trees budding on the 29th at Newport, Fla. Almond trees in full bloom on the 1st at Macon, Ga. Jessamine, on the 16th, at Macon, Ga.; 19th, Fallston, Md.; 6th, Aiken, S. C.; 31st, (?) Cleveland, Tenn. Hyacinths, 10th, Prospect Hill, Va.; 31st, (?) Clarksville, Texas; 22nd, McMinnville, Tenn. Violets, crocus and daisies, 29th, at Attaway Hill, N. C. Violets, 1st, at Clarksville, Tenn. Daisies, 1st, at McMinnville, Tenn. Dandelions, 31st, at Tarentum, Penn. Wild strawberry, 1st, at Shelburne, N. H. Wheat and blue grass, green and growing, 2nd, at Bethel, Ohio, and Decatur, Ill. Maple trees, 31st, at Mt. Holly, N. J., budding. Post oak in bloom, 25th, at Gilmer, Texas. Spirea, blossom, 1st to 31st, at Aiken, S. C. Spirea and jonquils, 19th, at McMinnville, Tenn. Jonquils and narcissus, 31st, at Spartanburg, N. C. Jonquils, 17th, at Clarksville, Tenn.; jonquils, at Clarksville, Texas. Daffodils, 29th, at Prospect Hill, Va., and Clarksville, Texas. Nectarine and apricot, budding, 31st, at Cleveland, Tenn. Japonica, bloom, 16th, at Macon, Ga. Hops sprouting and pansies blooming, Malone, N. Y., on 1st.

(2) *Animal Phenomena*.—*Frogs*, were heard on the 1st, at Decatur, Ill., Margaretta, Ringgold and Bellefontaine, Ohio; 3rd, Weldon, N. C.; 26th, Louisville, Ill.; 27th, Mount Sterling, Ill.; 28th, Butler Springs Kan. *Wild Geese*, on the 2nd, were at Fort Randall, D. T.; 16th, flying north, Emerson, Neb.; 23rd, flying south, Fort Gibson and Carthage, Ohio; 30th, flying north, Louisville, Ill.; 15th, and 19th, Charleston, S. C.; 22nd, flying northeast, New London, Conn. *Wild Ducks*, 16th, flying north, Hightstown, N. J.; seen during month at Havana, Ill., and Corning, Mo.; 4th flying north, Corsicana, Texas. *Snow Birds*, immense numbers, 3rd, Breckenridge, Minn. *Snakes* seen on the 1st, at Bellefontaine, Ohio, and White Plains, N. Y.; at various times at Mount Sterling, Ill. *Blue Birds*, seen on the 2nd, at Ringgold, Ohio; 3rd, White Plains N. Y.; and Chambersburg, Pa.; 8th, Chambersburg, Pa. *Robins* were seen on the 3rd, at White Plains, N. Y.; 7th, Pattsouth, Neb. *Mocking Birds*, 15th, Welborn, Fla. *Rice Birds*, 19th, and 20th, Southington, Conn. *Snow Buntings*, 24th, Fort Randall, D. T. *G. ashoppers*, seen on the 1st, at Fort Wayne, Ind.; 2nd, at Bennettsville, Ky. *Butterflies*, seen on the 1st, at Fort Wayne, Ind.; 4th, Bennettsville, Ky. *Caterpillars*, seen on the 1st, at Shelburn, N. H.

(3) *Prairie Fires* occurred 16th, and 17th, near Fort Randall, D. T.; 26th, to the northeast of Fort Lyon, Col.; 4th, and 27th, Corsicana, Texas; a smoky atmosphere at Fort Madison, Iowa, on the 5th.

(4) *Meteors* were observed on the 1st at College Hill, Ohio, (brilliant southwest to northeast) Jacksonburg, Ohio, Salem, West Virginia, Cincinnati, Ohio; 2nd Friendsville, Ill.; Trenton, N. J., Waterburgh, N. Y., Carthage, Ohio; 3rd, Carthage, Ohio, Morgantown, West Virginia, Cincinnati, Ohio; 4th, Fall River, Mass.; 5th, Holton, Kan., Hightstown, N. J., Mount Auburn, Ohio; 11th, Mount Auburn, Ohio; 15th, Nora Springs, Iowa; 16th, Corning, Mo.; 24th, Freehold, N. J. and Jacksonville, Fla.; 25th, Dubuque, Iowa; 26th, Carthage, Ohio; 27th, Somonauk, Ill., Auburn, N. H.; 30th, Freehold, N. J. and North Platte, Neb.; 31st, Danville, Ky. and Carthage, Ohio.

(5) *Zodiacal light* was observed on the 4th, at Ateo, N. J.; 11th and 12th, Bellefontaine Ohio; 13th, Adrian, Mich., Ateo, N. J., Bellefontaine and Carthage, Ohio; 14th, Ateo, N. J. and Carthage, Ohio; 16th and 17th, Clear Creek, Neb.; 17th, Waterburgh, N. Y.; 19th, Bennettsville, Ky.; 20th, Ateo, N. J., Carthage, Ohio, and Rocky Run, Wis.; 21st, Somerset, Mass. and Ateo, N. J.; 24th, Somerset and Andover, Mass., Adrian, Mich., Freehold and Ateo, N. J.; 25th, Andover, Mass., Adrian, Mich., Ateo, N. J., Bellefontaine and Carthage, Ohio; 26th, Andover, Mass.

(6) *Earthquakes* were observed as follows: 21st, San Jose, Santa Cruz and San Francisco, Cal., between 3 and 4 a. m.; 7th, 2:20 p. m., Contoocookville, N. H.; 8th, 4:30 a. m., Lockport, N. Y.; 27th, Adrian, Mich., two shocks; 29th, 9:05 p. m., Annapolis, Md.

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