

(2)

Casual Phenomena.

Note observations of the following:

THUNDER STORMS—Time of occurrence and direction of motion. TORNADOES—Time of occurrence, width and direction of path, effects produced, and whether attended by electricity or hail. LIGHTNING AT A DISTANCE—Time of occurrence, direction from observer, whether zigzag, forked, or diffuse. Objects struck by lightning, as trees, buildings, &c. HAIL STORMS—Time of occurrence, direction and width of path, size and quality of stones, and amount of injury. AURORA BOREALIS—Time of appearance and disappearance; time of the formation of arch, beams, and corona, and whether there is a dark cloud below the arch. Direction and time of occurrence of METEORS, SHOOTING STARS, SOLAR and LUNAR HALOS, PARHELIA, and PARASELENES. Time of early and late FROSTS, particularly first and last. DEPTH OF GROUND FROZEN, in feet and inches; disappearance of frost from the ground. Time of closing and opening of RIVERS, LAKES, CANALS, and STREAMS, and their extreme rise and fall. EARTHQUAKES—Time of occurrence, direction of impulse, number of shocks, and effects produced.

1880

1880.

Augt. 5. Th. Cl. continuing with very much thunder & lightning, from 9 pm till after 12. It was about 10 & spread over the whole heavens. None of the flashes more than 2 1/2 miles.

11. Fine motion in the N. with a cone westerly towards the south, between 8 & 9 pm.

13. Th. Cl. 12 pm, SW to NE. Th. Cl. 7 pm, NW to NE.

31. Th. Cl. 6 pm, W to E. A most splendid Sun set reflection, through a thin, but extensive thunder cloud.

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(SEE OTHER SIDE.)

Nothing be written in this column.