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Western district cannot be considered as settled, but the agreement in thickness of the overlying seams, and the slight difference in the estimated thickness of intervening strata, are strong evidences that the existence of the lower seams will be proved over all the Pictou Coal Fields.

ART. VIII. ON THE METEOROLOGY OF CALEDONIA MINES, LITTLE GLACE BAY, CAPE BRETON. BY H. POOLE, ESQ., M. E.

(Read March 10, 1873.)

THE accompanying record of meteorological phenomena observed at the Caledonia Mines during the year 1872, does not vary much from that of 1871. The barometrical and thermometrical readings are closely approximate, but the relative humidity, 82.46, (saturation being 100,) was greater than in the previous five years, which is to be accounted for by the largely increased amount of precipitation in rain and snow; amounting to 74.955 ins., against a mean of 58.898 inches for the previous five years. The measured snow-fall was 173.35 inches, but the exact quantities of water contained in it could not be correctly measured apart from the rains; as sudden changes in the temperature often prevented them from being recorded separately.

The number of days on which the wind blew from S. to W. was 151; from W. to N. 66; from N. to E. 100; and from E. to S. 49; shewing a larger increase of winds from S. to W., and N. to E. than in previous years. Forty-seven gales were observed, in which the Anemometer recorded velocities exceeding thirty-five miles an hour; March, November, and December being the most stormy months; while in September there was only one high wind to record on the 19th. continuing from 7 a. m. to 1 p. m., but which must have been much more severe seaward, as vessels passing on the 21st from the southward carried double reefed topsails.

On the 3rd. of January, ice made in the outer bay of Glace Bay; and on the 7th drift ice was passing to the south. There was a gale on the 7th which sprung up in the afternoon from W. by S.