

If 9 A.M. be our standard, the readings are—

A.M.			P.M.		
4	8	9	4	9	10
·0103	·0015	Standard.	·0178	·0008	·0016

I regret that much absence from Yorkshire of late years has prevented me from yet making observations on this oscillation of the barometer at a height of 1200 feet above the sea,—an experiment which promises very curious results.

CHAPTER VI.

MAGNETISM.

UNDER this head I shall merely state some of the angular measures and numerical values of the magnetic elements in Yorkshire. The direction taken by an iron bar or wire free to move under the influence of the earth's magnetism at York, is in a vertical plane intersecting the plane of the meridian, at an angle of 24° to the west of north, and inclined downwards from the horizon $70\frac{1}{4}$. The angle of deviation to the west has grown up to its present value of 24° in the course of 200 years*, and now appears to be slowly diminishing; the angle of inclination from the horizon has been growing less by about $2'3$ in the year, for the last thirty years, and probably for a much longer period, and this rate of diminution (subject to much fluctuation however) still continues.

The line along which the *deviation* of the needle to the west is the same as at York, is not ascertained.

* In the middle of the 17th century (1657 according to Cavallo) the needle pointed due north and south.