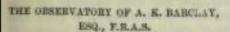
K. Barclay's Observatory, Bury Hill, Westcott



Mr. Barclay's observatory is situated on Bury Hill, near Dorking, in Surrey, at an elevation of 400 ft. above the sea; its approximate longitude being 1m. 23s. 5 west, and latitude 51° 13' 40" north. It consists of an equatorial tower, with a small transit-room adjoining the lower story.

The revolving dome is an admirable specimen of the workmanship of Messrs. Ransomes and May. It is constructed of cast-iron curved

rafters, bolted into a trong curb of wood, filled in with 1; in. deal, and covered internally with thin copper. It revolves upon three balls, in very shallow castiron channel plates.

The transit-instrument is by Simms, and has a focal length of 42 in., the

object-glass being 24 in. in diameter.

The clock is by Dent, with steel pendulum-rod and turned iron mercury jar. The equatorial telescope, the declination-axis of which is 26 ft. above the ground level, is mounted on the German construction, having a short polar axis and small circles. It stands upon a stone pedestal supported by a brick pier, built hollow and filled with dry sand to prevent vibration. The focal length is 8 ft., and the object-glass 5.9 in. in diameter. The clock-work move-

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ment is entirely included in the hour-circle, permitting the requisite adjustment to bring an object to the centre of the field. It has an escapement beating eight times in the second, and the pulsations are not perceptible even under high power.

Source: Weale 1854, 683-5



Source: National Library of. Scotland