

XII. *An Eclipse of the Moon, observed at Mr. Graham's in Fleet-street, by John Bevis, M. D. and Mr. James Short, F. R. S.*

[ Read Dec. 14. 1749. ]

1749.	By the Clock.	App. Time.	
Dec 11.	23 56 15½	h ' "	The Sun pass'd the Meridian.
12.	6 43 0	6 46 36	A sensible <i>Penumbra</i> .
	6 47 20	6 50 56	Eclipse begins.
	7 1 26	7 5 1	Shadow touches <i>Tycho</i> .
	7 3 12	7 6 47	<i>Tycho</i> half covered.
	7 4 38	7 8 13	<i>Tycho</i> covered.
	8 33 37	8 37 11	<i>Tycho</i> begins to be uncovered.
	8 34 50	8 38 24	<i>Tycho</i> half uncovered.
	8 36 9	8 39 43	<i>Tycho</i> quite uncovered.
	9 9 5	9 12 38	Eclipse ends.
	9 13 30	9 17 3	<i>Penumbra</i> gone.
	12 5 53½		Moon's Center pass'd the Meridian.
	12 20 2		<i>Sirius</i> pass'd, his Mean Right Ascension being 98° 31' 38".
13.	23 56 46		The Sun pass'd the Meridian.

The Appulses of the Shadow to the Spot *Tycho* were observed with a Reflecting Telescope, which magnified about 40 times, and may be serviceable for geographical Purposes. The Beginning and End of the Eclipse were estimated by the bare Eye, and a Refracting Telescope of a small magnifying Power; larger Powers being apt to dilute the Shadow too much, and thereby render these Phases more uncertain.

A Computation by Dr. <i>Halley's</i> Tables } gave the Beginning - - - - - }	Apparent Time.
	6 <sup>h</sup> 52' 0"
	End : 9 14 58

XIII.