

V. Observations of the Occultation of Mars by the Moon, Oct. 7. 1736. communicated to the Royal Society.

1. An Observation of the Occultation of Mars by the Moon, Oct. 7. 1736. made by Mr. Geo. Graham, F. R. S. in Fleetstreet, London, with a Refracting Telescope of 12 Feet.

October 7th, the first Contact could not be seen for Clouds.

Apparent Time.			
	H.	M.	S.
At 14	24	44	<i>Mars</i> appear'd about half cover'd, but a distinct View could not be had for flying Clouds.
14	25	21	<i>Mars</i> totally cover'd, the last Ray of Light being then lost.
15	11	22	The <i>Moon</i> appear'd, but <i>Mars</i> was not seen, no Part being yet emerg'd.
15	15	11	I judg'd it was quite emerg'd, but Clouds prevented the <i>Moon's</i> Limb from being distinctly seen.

2. *Ans*

2. *An Observation of an Occultation of Mars by the Moon, in Covent-Garden, 1736. by J. Bevis, M. D.*

BEfore the Eclipse, I took several Differences of Right Ascension and Declination between ϵ and μ *Piscium*, for ascertaining the true Place of *Mars*: As also several Differences of Right Ascension and Declination between the *Moon* and *Mars*, before and after the Eclipse, which I shall give another Time:

Octob. 7. P. M.

Apparent Time.

H. M. S.

14 24 10 I was surpriz'd to see *Mars* continue quite round, though hardly, to Appearance, disjoin'd from the scabrous Edge of the *Moon*; but that Instant I thought it began to lose its Figure.

—Clouds.

14 25 26 The *Moon* shone out bright again, but *Mars* was intirely vanish'd.

15 14 46 The *Moon* being just clear of a Cloud, I saw *Mars* partly emerged.

15 14 49 He seem'd just half out; then Clouds came on again, so that I saw not the final Contact.

The *Moon*'s Diameter was 21,157 Parts of the Micrometer and its illuminated Part pass'd over the horary Thread in 2 Minutes, 3 Seconds.

I am certain of the Time to 2 or 3 Seconds.