


XII. Mercurius a Venere occultatus Maii 17.
 1737. in Observatorio Regio Grenovici,
 ab J. Bevis, M. D. observatus.

Tem. Appar. P. M.

H. M. S.

- 1 37 03 **P**Ræcedens Limbus Veneris Meridianum transit, centro a Vertice $25^{\circ} 46' 35''$.
 Mercurium vero intra telescopium nequaquam conspicebam.
- 9 04 09 Centrum Mercurii Limbum Veneris præcedentem præcedebat $12''$ Temporis.
- 06 20 Repetit. eodem tempore præcedebat, quo prius.
- 28 00 Mercurio Filum parallelum Micrometri decurrente, Cuspis Veneris austrina ab eodem Filo rescinditur,  unde Venerem Mercurium obtecuram, vel saltem stricturam colligebam; Micrometrum itaque extrahebam, quo melius instantem Contactum discernerem Tubo 24 Pedum.
- 43 04 Mercurius haud plus distat a Venere quam decima vel duodecima parte Diametri Veneris: Deinde inimicæ Nubes.
- 51 10 Venus iterum clarissime effulget, Mercurius vero totus sub Venere latet. Nubes jam Venerem rursus excipiunt, ulteriorem tam rari spectaculi contemplationem prohibentes.

Maii

Maii 18. *P. M.*

Distántia Meridiana Solís a Vertice
30° 04'.

1 31 53 Limbus præcedens Veneris Meridian.
transit. Centro distant a Vertice
25° 57' 15".

Mercurium culminantem neque hac die
videre licuit, cœlo licet admodum
sereno.

N. B. Distantiæ a vertice a refractioni-
bus non purgantur.

Vide Fig. 2. in TAB.

XIII. *The Use of a new Azimuth Compass for finding the Variation of the Compass or Magnetic Needle at Sea, with greater Ease and Exactness than by any ever yet contriv'd for that Purpose; by Captain Christopher Middleton, F. R. S.*

TO discover the Declination of the Magnetic Needle, or Variation of the Compass at Sea, with some tolerable Degree of Certainty and Exactness, is a thing of great Use and Importance in the Art of Navigation.

The Instruments and Methods hitherto used for this Purpose, (as we could easily demonstrate, if it were needful) are subject to several Inconveniencies, Errors and Defects; to remedy which, this new *Azimuth*
Com-

Fig. 1.

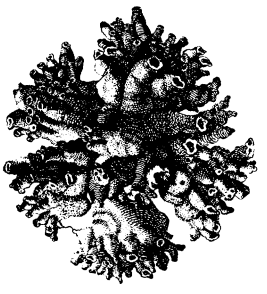
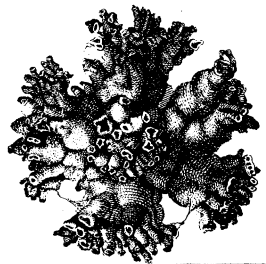


Fig. 2.

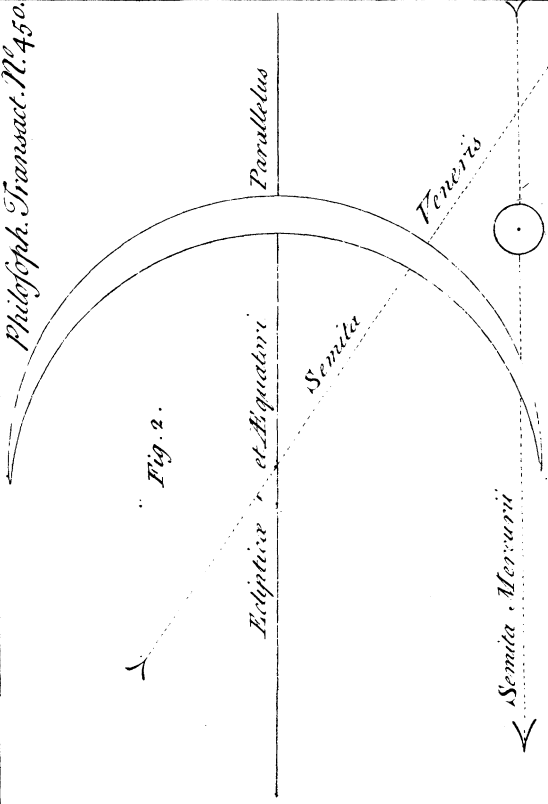


Fig. 4.

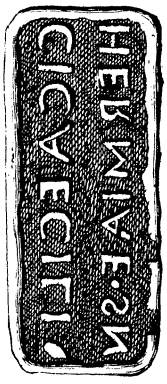


Fig. 3.

