

XIII. Occultatio Palilicii, A. 1738. d 23.
 Decembris St. N. observata a D. Christ-
 fried Kirchio, Astronomo Regio, Berolini. Ex
 literis ad J. F. Weidlerum datis excerpta.

Tempus horolog. oscillar. H. M. S.		Partes nicrom. Tubo l. ped	Valor partium microm. ' "	Tempus correc- tum. H. M. S.	Tempus correc- tius. H. M. S.
1 56 37	* a centro <i>M. Sinai</i>	38	15 21	6 24 37	
2 58 30	* a centro <i>M. Sinai</i>	34	13 42	26 30	
3 7 3 54	Immersio stellæ			6 31 54	6 32 00
4 8 5 29	Emergio stellæ tub. 9 ped			7 33 29	7 33 33
5 5 35	Emergio certo facta			7 33 35	
6 6 43	* a centro <i>M. Sinai</i>	36	14 32	34 43	
7 15 32	* a prox. marg. Lunæ.	8	3 14	43 32	
8 20	* a <i>M. Sinai</i>	46½	18 47	48	
	Diameter Lunæ	74	29 73		
	vel	73½	29 41	56	
10 29 12	<i>M. Sinai</i> a prox. marg. ☉	8	3 14	7 57 12	
11 38	Diameter D sub. 9 ped.	99½	29 38	8 6	
12 42	Diameter D sub. 7 ped.	75	30	10	
13 46 55	* a <i>M. Sinai</i>	72	29 5	14 55	
14 8 48	Diameter Lunæ	73½	29 41	8 16	

Vide SCHEMA hujus Occultationis in TAB. II. Fig. 2.

Situs stellæ respectu macularum lunarium sequenti modo observatus.

I. Ante observationem (1.) h. 6. 20'. notavi stel-
 lam in linea recta a meridionali margine Insulæ
 Macræ (Posidonii) per septentrionalem partem Ponti
 Euxini, (medium maris Serenitatis) & M. Ætnam
 (Copernicum) producta: & linea a M. Sinai ad stel-
 lam fere stringebat littus sinus Sirbonidis. (M. Hu-
 morum).

F f

II. Tem-

II. Tempore observationis, (1.) stella erat in linea recta a lacu nigro majore (Platone) per partes orientales insulæ Cercinnæ (a Keplero versus ortum) producta.

III. Tempore observationis (2.) stella in linea per medium Paludis Mæotidis & medium M. Adriatici (per M. Crisium & S. medium) continuata.

IV. Tempore immersionis stellæ, sequentes lineæ rectæ ad illam coincidebant, & locum peripheriæ lunaris, ubi stella occultabatur, designabant.

1. A littore Pontus Euxini (M. Serenitatis) versus Cæciam spectante, per M. Ætnam (Copernicum).

2. A littore sinus Apollinis, per loca paludosa (sc. a littore S. Iridum, per Keplero).

3. A M. Sinai (Tycho) per littus meridionale S. Sirbonis (M. Humor).

V. Emerfio stellæ contigit e regione M. Paropamisi, (Furnerii) & in linea recta a lacu nigro majore (Platone) per Byzantium (Menelaum) producta, quæ stringebat sinum extremum Ponti (M. Nectaris).

VI. Tempore observationis (7.) M. Porphyrites, (Aristarchus) margo septentrionalis L. Thespitis (Fracastorii) & stella in linea recta.

VII. Tempore observationis (8.) Lacus Hyperboreus superior (Hermes) medium Paludis Mæotidis (M. Crisii) & stella in linea recta.

Occultatio Palilicii observata Vitembergæ Saxonum,
 d. XXIII. Dec. St. N. A. CIODCCXXXVIII. a Jo.
 Friderico Weidlero, R. S. Lond. S. &c.

Immersio	:	6.	27.	35.
Emerfio	7.	29.	20.
Duratio	I.	I.	45.

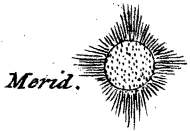
ANNOTATIONES.

1. Observatio a duobus spectatoribus simul perfecta; ego tubo astronomico IX pedum utebar, amicus & focus observationis per telescopium IV pedum lunam contuebatur.

2. Immersio & emerfio facta in instanti: uno tamen prope minuto horario citius per longiorem, quam per breviorum tubum animadversa.

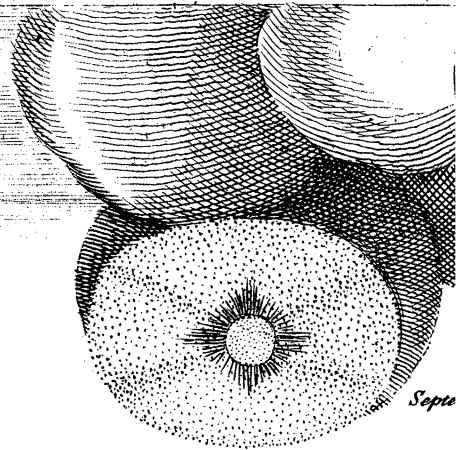
3. Appulit stella ad marginem lunæ orientalem, circa gradum 163. schematis lunæ plenæ mobilis Heveliani, Selenographiæ, p. 364. emergebat circa gradum 272. ejusdem schematis. Itaque linea recta, puncta immersionis & emerfionis copulans, stringit extrema maris Humorum & Nubium & inter Pitatum & Mare Nubium transit.

Coelum tempore immersionis serenum non erat, sed tenues nubeculæ semper fere ante lunam & stellam oberrabant: ideoque figura stellæ oblonga, diu ante occultationem, per atmosphæræ vapores spectabatur.

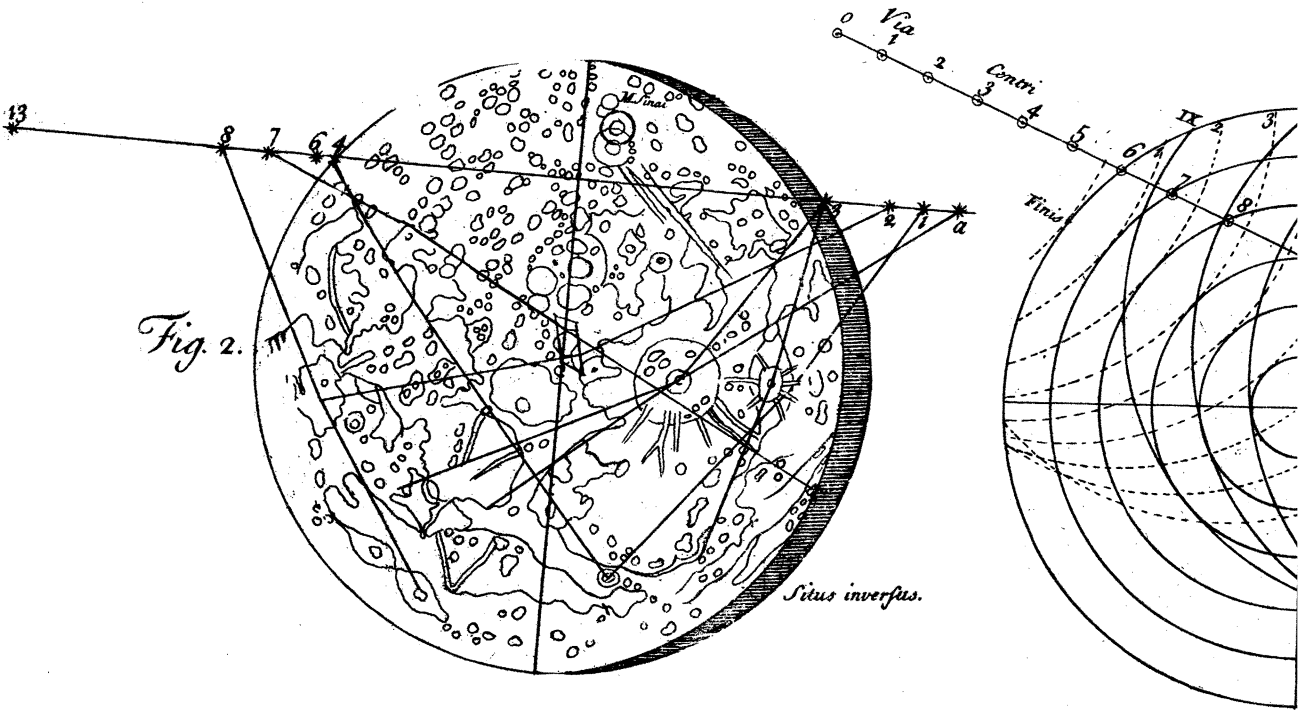


Merid.

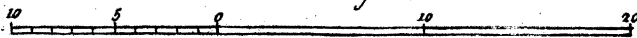
Fig. 1.

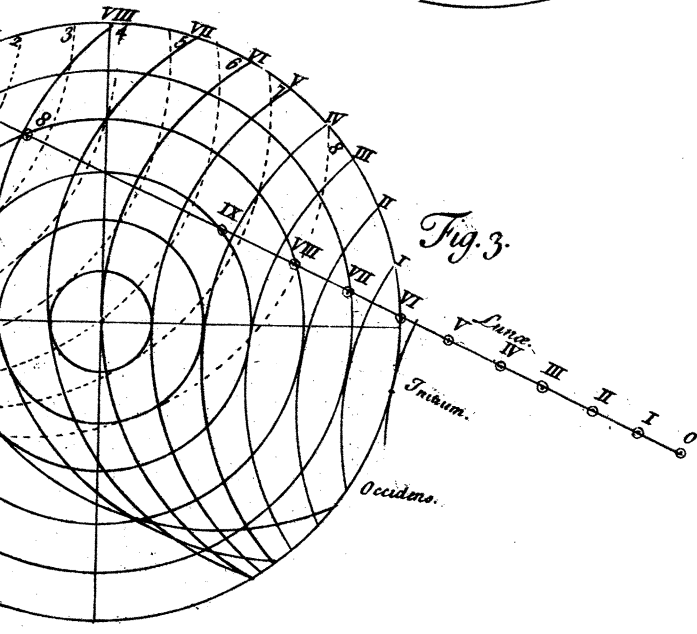
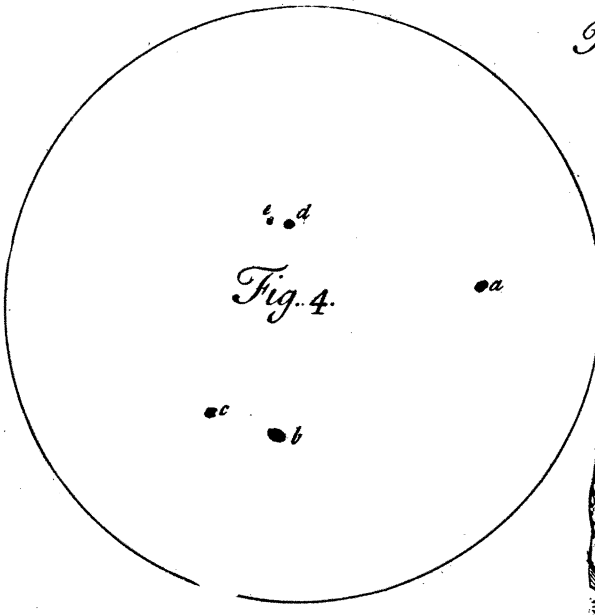


Septo



Scala Minutorum Gradus.





AB. II.



Mynde Sculp.



Fig. 1.

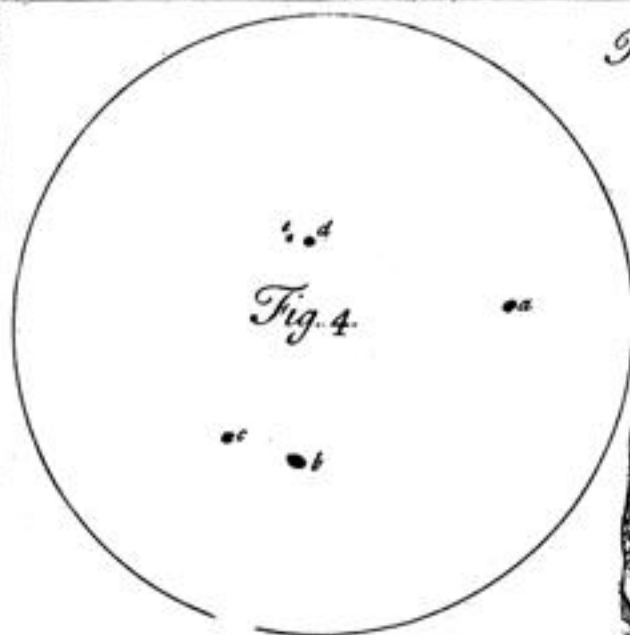
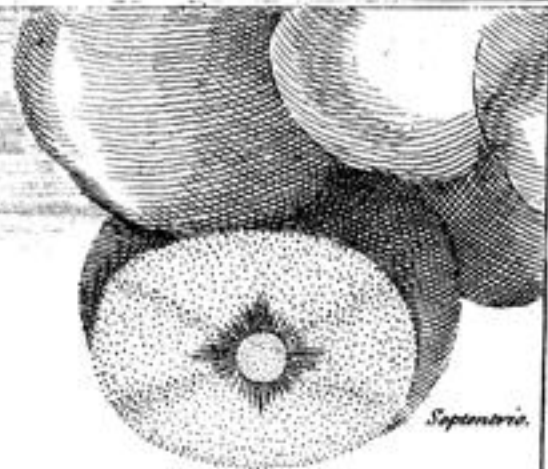
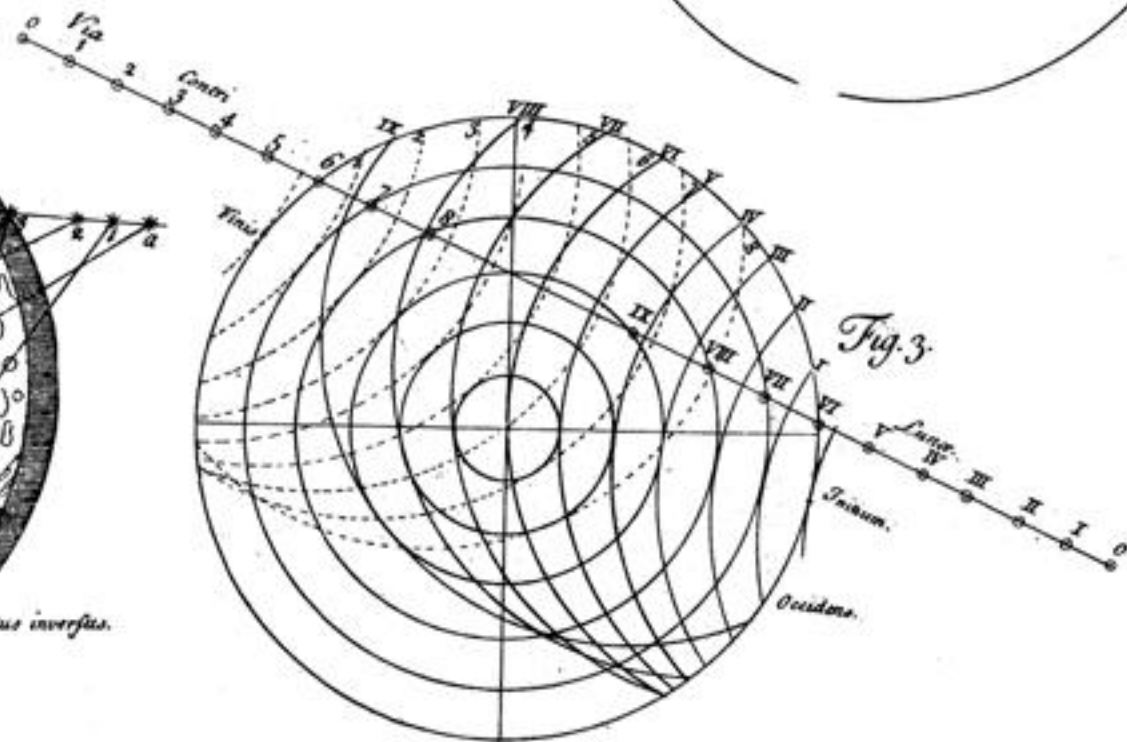
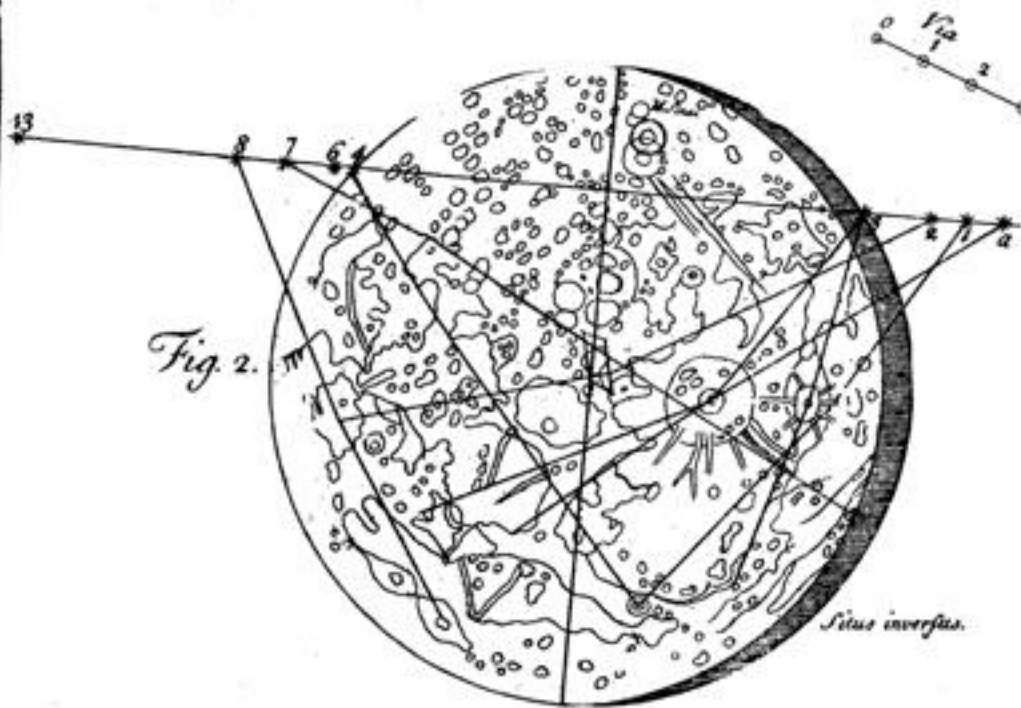


Fig. 5.



Scala Minutorum Gradus.
10 5 0 5 10 20