

XIV. *Eclipsis Solis observata Vitembergæ Saxonom, die IV. Aug. St. N. die XXIV. Julii St. Vet. A. MDCCXXIX. post merid. a Jo. Friderico Weidlero.*

*Phases crescentes.*

	Hor.	Min.	Sec.	<i>p. m.</i>
Initium . . . . .	4.	15.	30.	
Digitus I. . . . .		22.	00.	
Digiti II. . . . .		29.	30.	
III. . . . .		35.	30.	
IV. . . . .		40.	00.	
V. . . . .		47.	30.	
VI. . . . .		55.	40.	
VII. . . . .	5.	2.	00.	
VIII. . . . .		9.	00.	
IX. . . . .		24.	40.	

*Phases decrescentes.*

VIII. . . . .	5.	35.	30.
VII. . . . .		43.	40.
VI. . . . .		50.	30.
V. . . . .		56.	00.
IV. . . . .	6.	2.	45.
III. . . . .		8.	40.
II. . . . .		14.	00.
I. . . . .		20.	45.
Finis . . . . .		27.	20.

Vide Typum hujus Eclipsos ad Fig. 3. TAB. II.

Ad

Ad FIGURAM 4. TAB. II.

*Observatio Immerſionis & Emerſionis macularum, quæ tempore eclipſeos in diſco ſolis conſpicuæ fuerunt.*

I M M E R S I O N E S.		H.	M.	S.
Appulſus Lunæ ad maculam	(a)	4.	34.	35.
Tegitur tota macula	(a)	4.	34.	45.
Appulſus Lunæ ad maculam	(d)	5.	1.	30.
—————ad maculam	(e)	5.	5.	20.
—————ad maculam	(b)	5.	7.	15.
Immerſio totalis	(b)	5.	10.	00.
Appulſus Lunæ ad maculam	(c)	5.	16.	30.
Tegitur tota macula	(c)	5.	18.	00.
E M E R S I O N E S.				
Incipit emergere macula	(b)	5.	30.	50.
Medium emerſionis	(b)		32.	30.
Emerſio totalis	(b)		34.	00.
Emerſio incipiens maculæ	(c)		39.	00.
Medium emerſionis	(c)		39.	50.
Emerſio totalis	(c)		40.	40.
Emerſio incipiens	(a)		41.	00.
Emerſio totalis	(a)		41.	40.
Emerſio	(d)	6.	4.	30.
Emerſio	(e)		6.	15.

A N N O T A T I O N E S.

1. FIGURA 3. TAB. II. Siftit ſolis diſcum recto ſitu, qualem helioſcopium foris adſpicientibus oſtendit.

2. FIGURA

2. FIGURA 4. TAB. II. Repræsentat maculas solis eo situ, quem sub principium deliquii habuere, quarum immersio & emersio durante eclipsi observata fuit.

3. Luna subiit solem circa gradum 102. a Zenith computatum: discessit a sole circa 53. gradum, ab eodem Zenith numeratum.

4. Tempore maximæ obscurationis lunæ orbis non plane niger, sed puniceo colore tinctus per telescopium apparuit. Maculæ tamen lunæ distingui non poterant.

5. Margo lunæ, parte sinistra, quæ in meridiem vergebat, circa tempus maximæ obscurationis, montium jugis distinguebatur, qui etiam in imagine, per telescopium picta, cernebantur. Reliquus margo sub sole conspicuus æqualis.

6. Durante tota eclipsi Lunæ peripheria nuda apparuit, absque nebula, vel nube, quæ in aliis quandoque eclipsibus eidem imminet. Circa finem tamen, cum unus circiter solaris discum digitus adhuc occultaretur, motus lucis solaris vehemens in margine Lunæ aspero notabatur.

7. Denique prætermittendum non duco, quod amicus, harum rerum probe gnarus, qui per Telescopium Astronomicum ix pedum solem intuebatur, circa hor. iv. 31 min. in obscuro Lunæ disco lucem aliquam, instar fulguris, celeriter huc illuc in tenebris diffusam, animadverterit: & quod idem observator circa horam v. min. 50 toti adstantium coronæ affirmaverit, a se tum ter talia fulgura subito enitentia iterum conspecta fuisse.

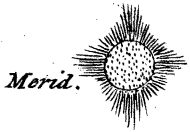
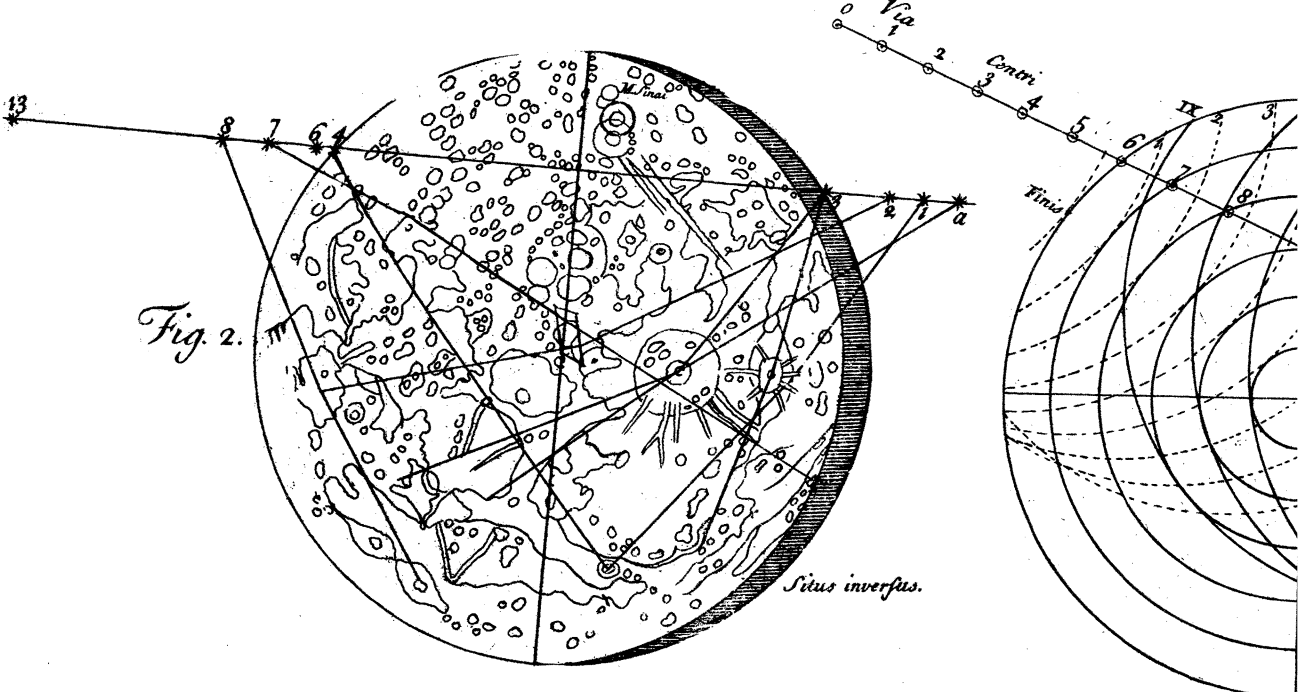
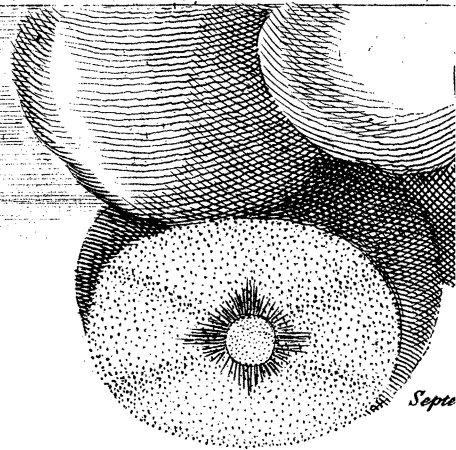


Fig. 1.



Scala Minutorum Gradus.

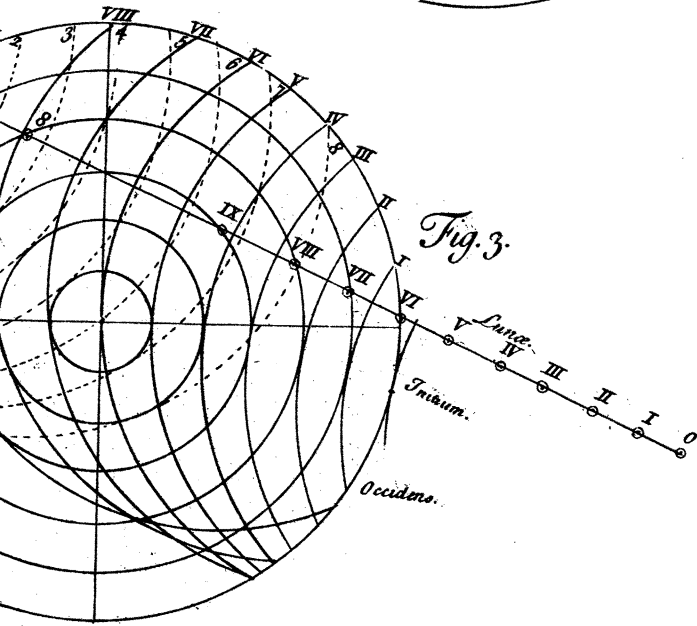
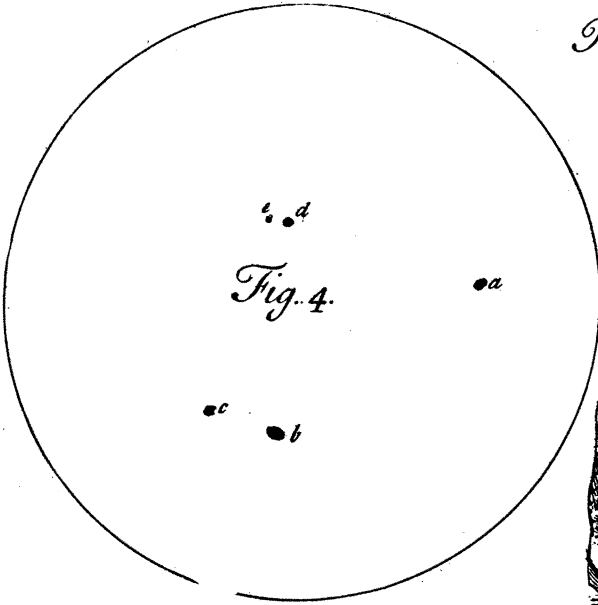
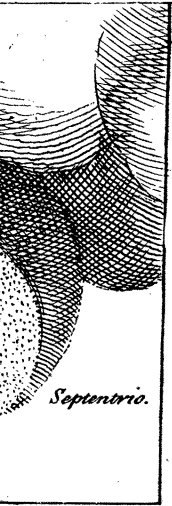
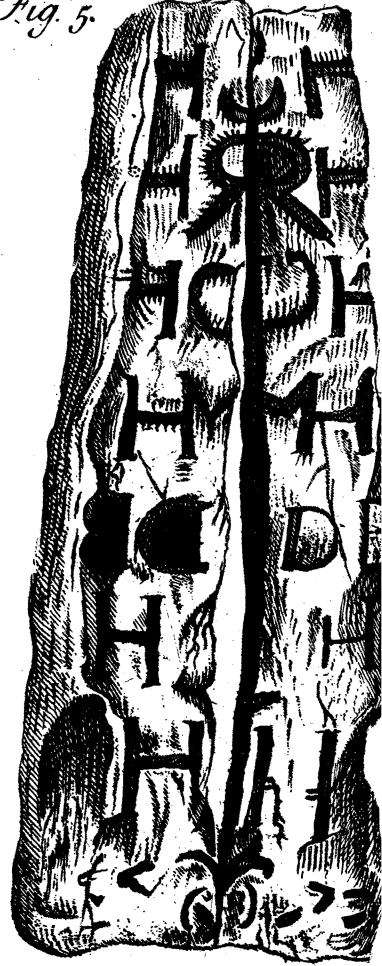


Fig. 5.



AB. II.



*Mynde Sculp.*



Fig. 1.

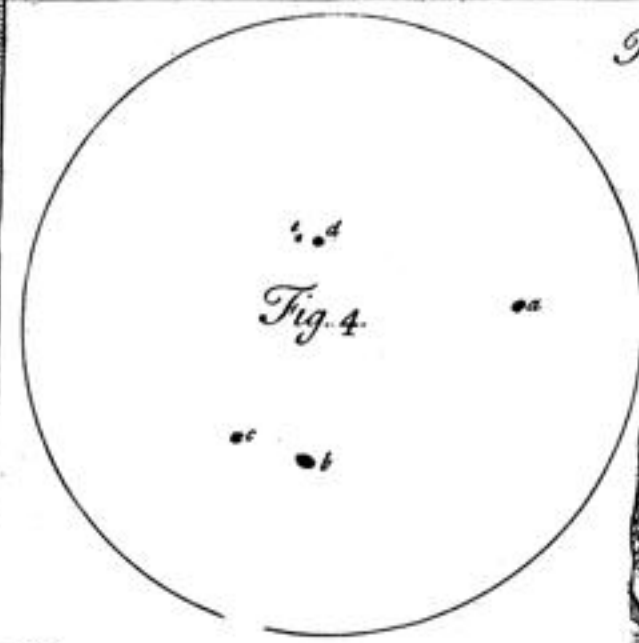
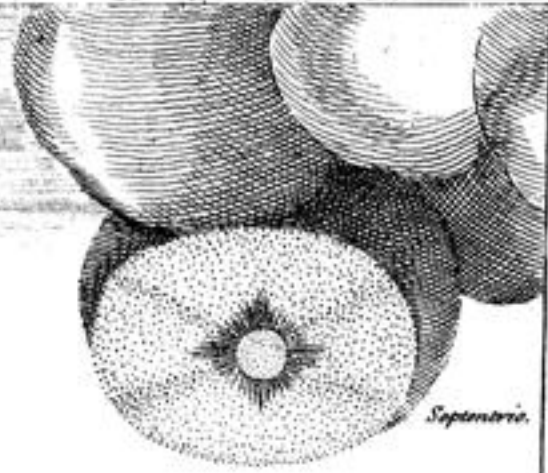
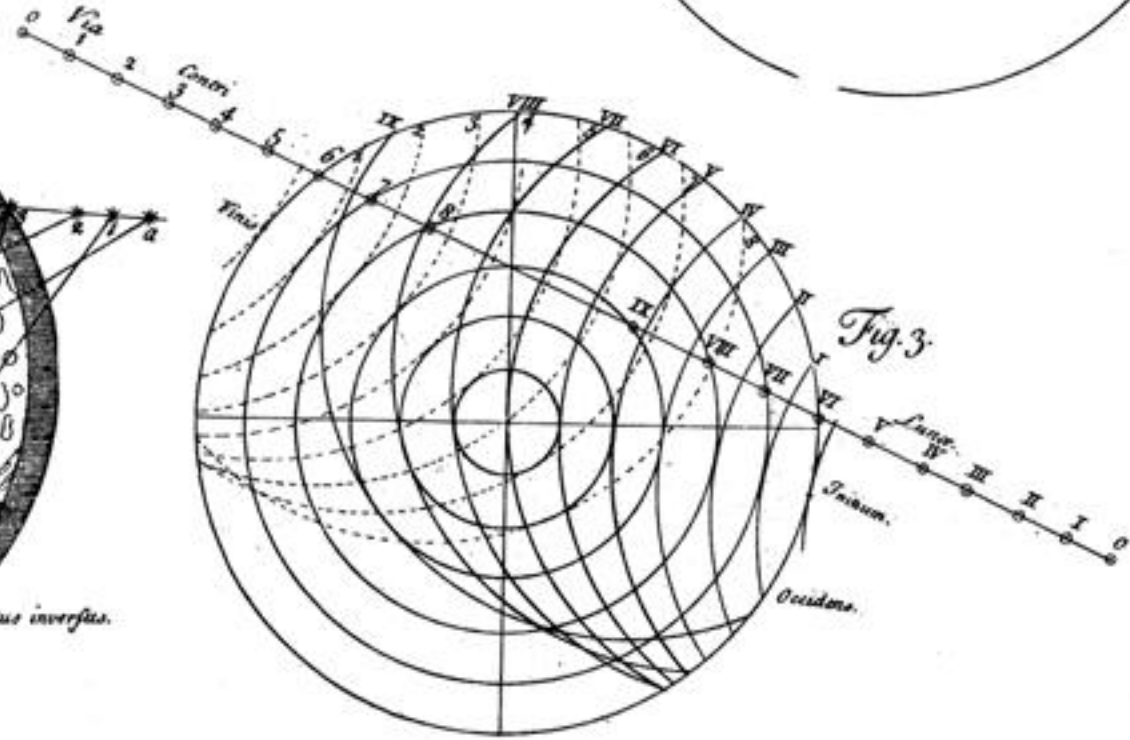
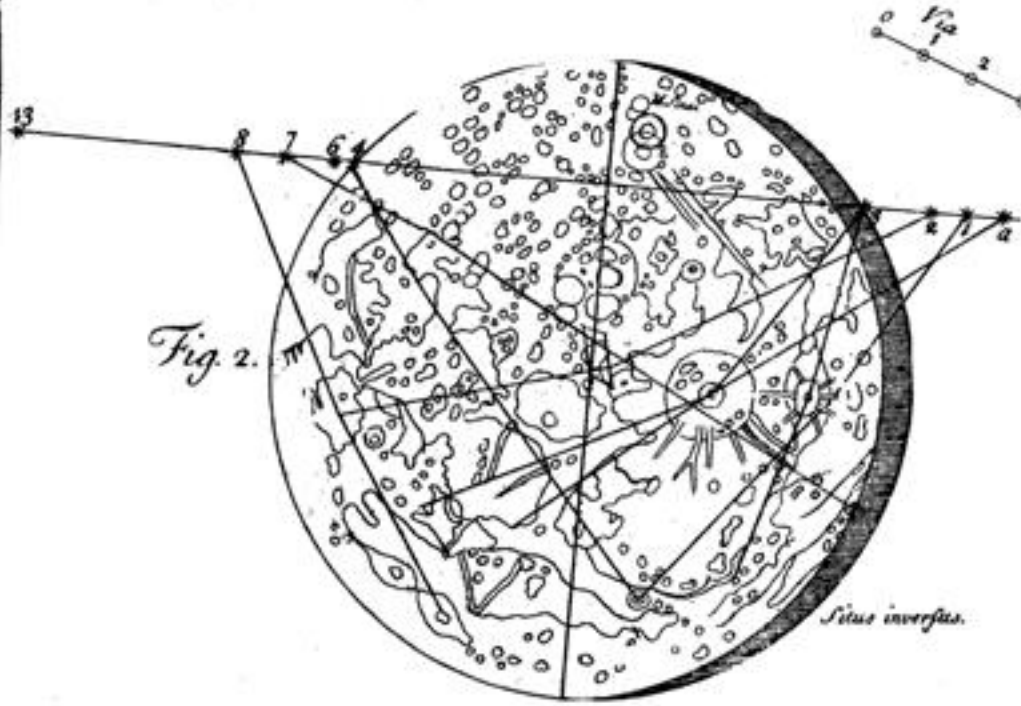
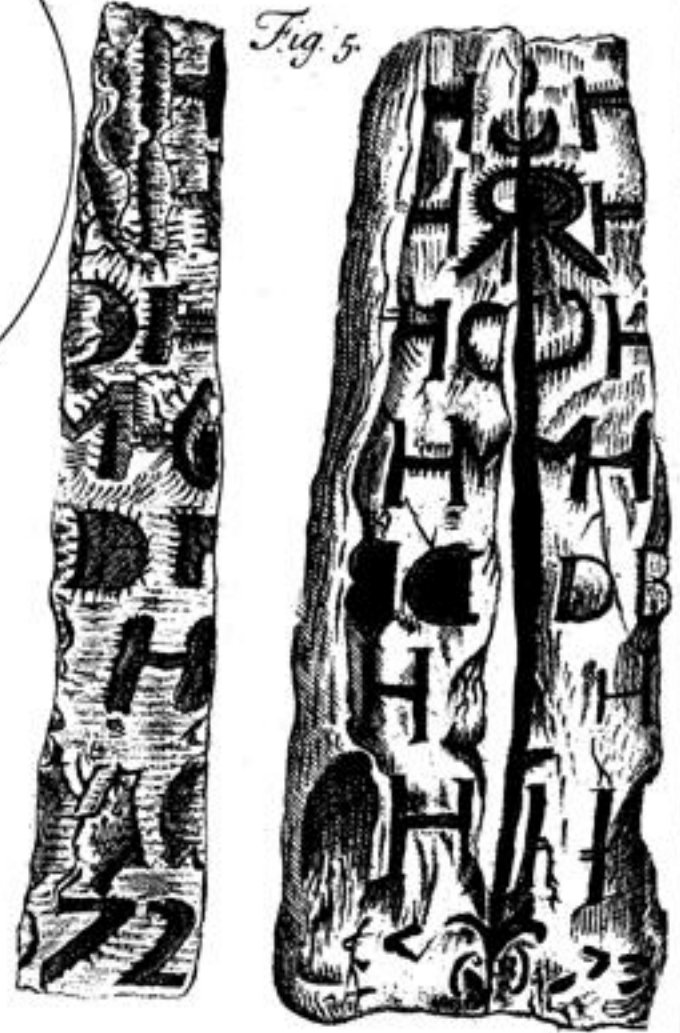


Fig. 5.



Scala Minutorum Gradus.  
10 5 0 5 10