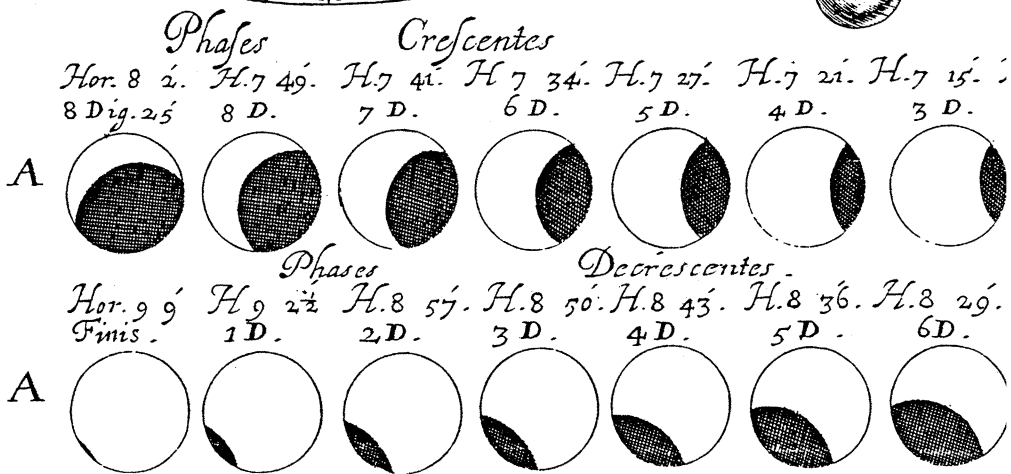
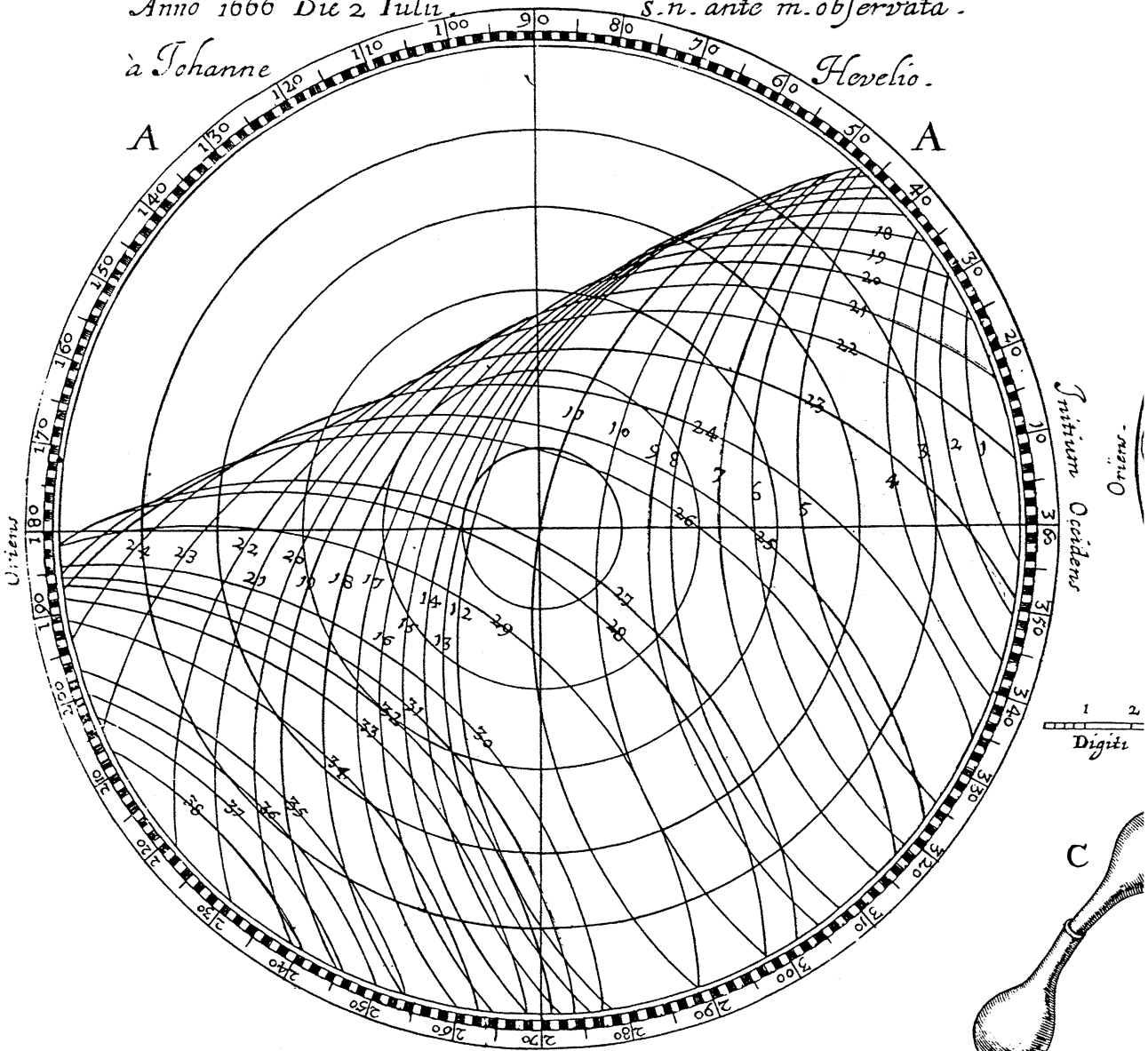
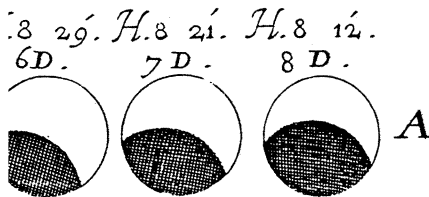
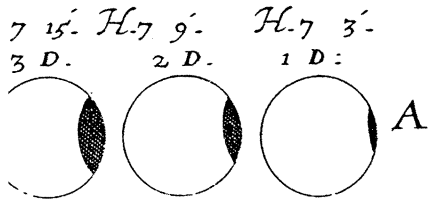
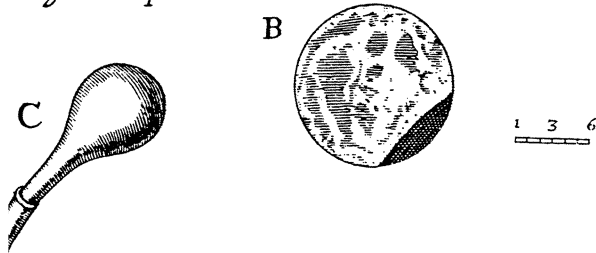
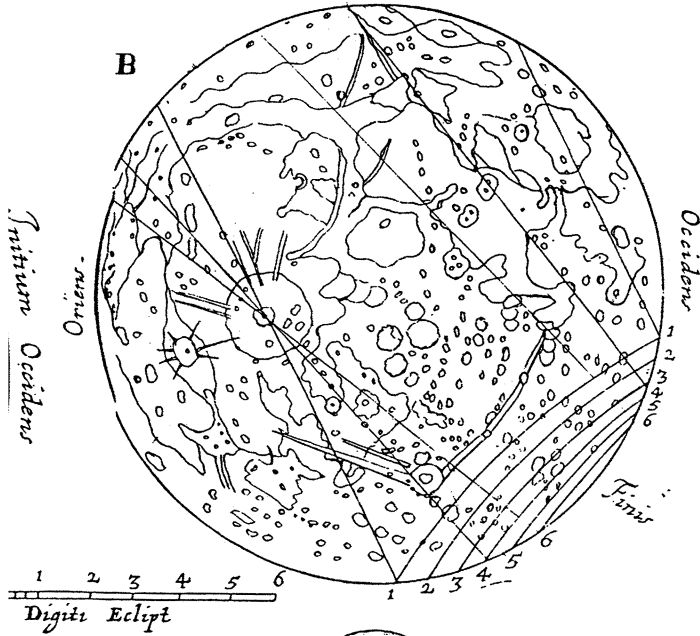


Eclipsis Solaris GEDANI.
Anno 1666 Die 2 Julii. s.n. ante m. observata.
à Johanne Hevelio.



Eclipsis Luna obseruata
 GEDANI,
 Anno 1666, Die ☿ 16 Iunii, St. n.
 à Johanne Hevelio.



PHILOSOPHICAL TRANSACTIONS.

Munday, January 21. 1666.

The Contents.

An Account, formerly promised, of Monsieur Hevelius's Calculation of the late Solar Eclipse's Quantity, Duration, &c. The Figure of the Star in the Constellation of Cygnus, together with the New Star in it, discovered some years ago, and very lately seen again by the same Mr. Hevelius. An Extract of a Letter, written by Mr. Auzout, concerning a way of his, for taking the Diameters of the Planets, and for knowing the Parallax of the Moon: Giving also a Reason, why in the Solar Eclipse above-mentioned, the Diameter of the Moon did increase about the end. A Relation of the loss of the Way to prepare the Bononian Stone for shining. A Description of a Swedish Stone, affording Sulphur, Vitriol, Allum, and Minium. A Relation of the Raining of Ashes. An Extract of a Letter from Rome, rectifying the Relation of Salamanders living in Fire. An Account of several Engagements for Observing of Tydes. Some Suggestions for Remedies against Cold. A Relation of an uncommon Accident in two Aged Persons. An Account of Two Books, I. ISMAELIS BULLIALDI ad Astronomos Monita duo: Primum, de Stella Nova, in Collo Ceti ante aliquot annos visa. Alterum, de Nebulosa Stella in Andromeda Cinguli parte Borea, ante biennium itum oritá. II. ENTRETIENS sur les vies & sur les Ouvrages des plus excellens Peintres, anciens & modernes, par M. FELIBIEN.

Monsieur Hevelius's Calculation of the late Solar
Eclipse's Quantity, Duration, &c.

THis *Calculus* was not long since communicated by Monsieur Hevelius in a Letter to the *Publisher*, as follows,

C c c

Eclipses

Eclipsis Solaris.

Observata An. 1666. D. 2. Julii, St. N. Mane, à Johanne Hevelio.

Ordo Phasium	Quantitas Phasium.	Temp. zltin sec. horol ambulat.	Temp. ex Sciother.	Altitude ☉	Tempus correct.	<i>Anima advertenda.</i>
		H. , , "	H. , , "	o. ,	H. , , "	
		5.51.11	5.51.0	17.45	5.53.12	Quòd Sciatericum cum correcto tempore non omninò convenit, non-nisi Lineæ Meridianæ imputandum.
		5.57.5	5.57.0	18.37	5.59.28	
		6.0.0	6.0.0	18.55	6.1.28	
	Initium.	6.55.30			6.57.30	Initium circa 79 gr: à puncto Zenith occasum versùs contingit.
1	$\frac{3}{4}$ dig.	6.57.30			5.59.30	
2	$\frac{3}{4}$	7.0.23	7.0.0		7.2.23	
3	$\frac{1}{2}$	7.2.30	7.2.0		7.4.30	
4	$\frac{1}{2}$ dig.	7.4.50	7.5 ferè.		7.6.50	
5	$\frac{3}{4}$ ferè.	7.10.57	7.10		7.12.57	
6	$\frac{3}{4}$	7.14.59	7.15		7.16.59	
7	$\frac{3}{4}$	7.17.50	7.18 ferè.		7.19.50	
8	$\frac{3}{4}$ dig.	7.21.35	7.21		7.23.35	
9	$\frac{3}{4}$	7.23.43	7.23 ferè.		7.25.43	
10	$\frac{1}{2}$	7.27.53	7.28		7.29.53	Hujusque Semi diamet. Luna equalis extitit Solari.
11	$\frac{1}{4}$	7.31.50	7.32		7.33.50	
12	$\frac{3}{4}$	7.36.55	7.37		7.38.55	
13	$\frac{7}{8}$ paul. plus.	7.38.5	7.38		7.40.0	
14	$\frac{1}{2}$	7.39.45	7.39		7.41.45	
15	$\frac{1}{4}$ paul. plus.	7.42.30	7.42		7.44.30	
16	$\frac{1}{2}$	7.44.6	7.44		7.46.6	
17	$\frac{1}{2}$	7.46.0	7.46		7.48.0	
18	8 ferè.	7.48.25	7.48 ferè.		7.50.25	
19	$\frac{1}{2}$	7.51.15	7.51		7.53.15	
20	$\frac{1}{4}$; a-l. plus.	7.53.37	7.52		7.55.37	
21	$\frac{3}{4}$	7.55.45	7.56 ferè.		7.57.45	
22	$\frac{3}{4}$ paul. in	7.59.5	7.59		8.1.5	Maxima obscurtio extitit ligit. 8.25' hora 8.2'.
23	$\frac{1}{2}$	8.6.30	8.6		8.8.30	

Ordo

Orde Pha- sua	Quantitas Phasium.	Temp. asin- tec. horol. artulat.	Temp. ex sciother.	Altitud. ☉	Tempus corrct.
24	7 $\frac{3}{4}$	H. " H.	8.11.25	8.12	8.13.25
25	7 $\frac{1}{4}$ fere.		8.17.30	8.18	8.19.30
26	7 fere.		8.19.41	8.19	8.21.41
27	5 $\frac{7}{8}$		8.28. 8	8.28	8.30. 8
28	5 $\frac{1}{2}$ fere.		8 30 14	8.30	8.32.14
29	4 $\frac{3}{4}$		8 36 25	8.36	8.38.25
30	3 $\frac{5}{8}$		8 43 19	8.43	8.45.19
31	3 $\frac{1}{4}$		8 46 12	8.46 fere.	8.48.12
32	3		8.47.32	8.47	8.29.32
33	2 $\frac{3}{4}$		8.50.57	8.50	8 .2.57
34	2 $\frac{1}{2}$ fere.		8.54.15	8.54	8.56.15
35	1 $\frac{3}{8}$		8.58.24	8.58	9. 0.24
36	1 $\frac{1}{4}$		8.59.35	8.59	9. 1.35
37	0 $\frac{5}{8}$		9. 1.38	9. 1	9. 3.38
38	0 $\frac{1}{2}$		9. 3.20	9. 3	9. 5.20
39	Finis.		9. 6.53	9. 6	9. 8.53
			9.23. 6	47.33	9.25.28
			9.24.16	47.42	9.26.45
			9.28.29	48.10	9.30.42
			9.30.36	48.28	9.33.12

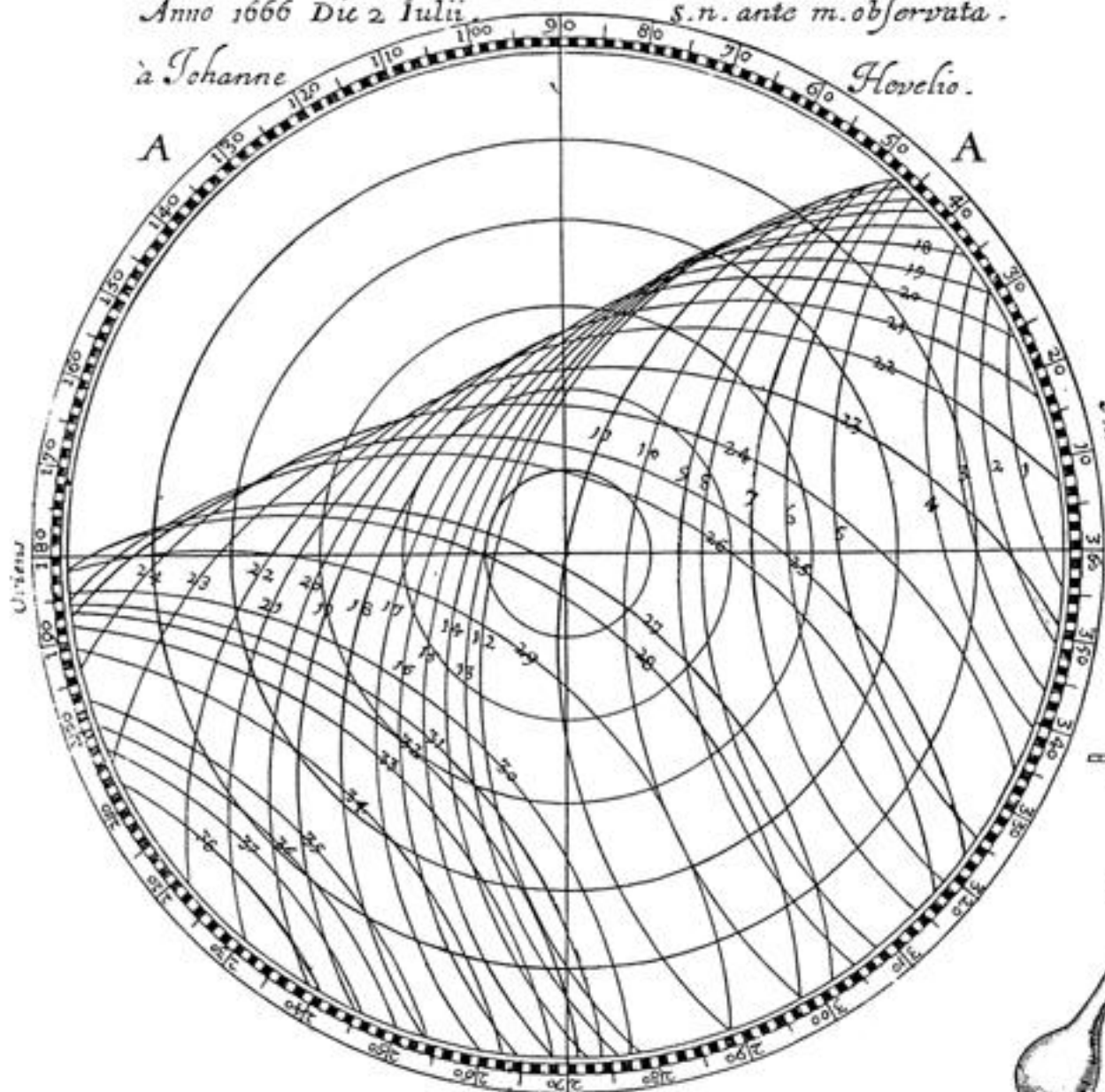
Animadvertenda.

Hic Semidiameter Lune ad
8^a vel 9^a major apparuit. *
* See Numb. 19. of the Philo-
sophical Transactions, p. 347.

Punctum finis distat à ver-
ticali ad Ortum 143 gr.

This Observation is by the same *Astronomer*, represented also by the *Figures AAAAAA*; as that of the *Horizontal Eclipse* of the *Moon*, is, by the *Figures BB*.

Eclipsis Solaris GEDANI.
Anno 1666 Die 2 Julii s.n. ante m. observata.
à Johanne Hevelio.



Eclipsis Luna observata
GEDANI,
Anno 1666, Die 7 16 Junii, St. n.
à Johanne Hevelio.

