

		H.	'	"	
Emergunt ex Umbra	}	Sinus æstuum totus	0	59	0
		Manilius	4	3	0
		Mienelaus	0	6	0
		Possidonius, & Endymion	0	9	0
		Plinius	0	10	30
		Cenforinus	0	15	30
		Palus fomni	0	16	30
		Litus Or. Maris Crif.	0	19	0
		Litus Occid. extremum	0	22	0
		Langrenius	0	24	30
		Finis Eclipsis circa	0	26	0
Nodum Occid.	0	0	0		

Horologium correctum per Culminationes Palilicii & aliquot Stellarum Orionis. Diameter Lunæ appa-rens immediate ante, & post Eclipsim dimensa 32' 30". proximè.

V. *Observationes aliæ selectiores Ingolstadtii habitæ Anno 1726. a Patribus Soc. Jesu. Ex eadem Epistola.*

		H.	'	"	
J	}	AN. 6. Satelles 4 emerfit Telesc. Jo-	6	40	30
		sephi Campani ped. 14.			
Jan.	}	19. Mars per vapores translucens sta-	6	52	0
		bat ad Lunæ limbum lucidum			
		Jam erat penitè immerfus	6	54	0
		Centrum Martis emergit è limbo	7	54	25
		obscuro			
		Totus Mars extra Lunam	7	54	35
					Transitus

Transitus Martis fuit in lineâ ex centro Grimaldi per extremitatem boream Langreni ductâ. Inde, habitâ ratione librationis Lunaris, collecta centrorum distantia minima, 2' 30'', Marte australiore. Semidiameter Lunæ apparens hora 9 erat 16' 55''. Observatio facta Telescopiis 10, ac 12 pedum.

	H.	'	"
Jun. 9. Immerf. Intimi; Telescop. } 23 ped. - - - }	15	4	20
Jul. 17. Immerfio ejusdem; dub. } Jul. 20. Immerfio 2 <sup>is</sup> in 4 Umbr. } Tel. 9 ped. - - - }	13	24	45
Aug. 1. Evanuit ♂ ex oculis in ☾ } limbum obscurum - - - }	5	25	17
Emerfio 1 <sup>a</sup> ♂ ad Zoroastrum: } Centro suo limbum ☾ lucidum } tunc hæc macula occupabat— }	6	1	53
Emerfio totalis ♂ factâ observa- } tione Telescopiis 12, 14, & } 16 ped. - - - }	6	1	59
Diameter ☾ apparens hor. 7 <sup>1/2</sup> , erat } 32' 47'' - - - }			
Aug. 2. Immerf. Intimi. Telesc. 12 ped. } Aug. 14. Immerf. 2 <sup>is</sup> eodem Telesc. } Aug. 25. Immerf. Intimi. Tel. 23 ped. } Aug. 26. Incipit emergere ex 4 } Umbr. Satelles 3 <sup>us</sup> . - - - }	11	41	20
Sept. 1. Imm. Intimi. Telesc. 23. } Sept. 2. Totalis Immerf. Satell. 3 <sup>is</sup> } in Umbram 4. - - - }	12	25	6
Eodem die 1 <sup>a</sup> . Emerf. 3 <sup>is</sup> è 4 } Umbr. Tel. 10. - - - }	11	56	19
Sept. 9. Immerf. 2 <sup>is</sup> Telesc. 14. }	11	43	17
	13	51	52
	13	17	32
	15	45	9
Sept. 9. Immerf. 2 <sup>is</sup> Telesc. 14. }	9	40	circ.
			Eodem

	H.	'	"
Eodem die Inm. Intimi. <i>Telefc.</i> 23.	15	50	30
Eodem die Immerf. plena Satell <sup>is</sup> .	17	20	30 circ.
3 <sup>ii</sup> . in $\psi$ Umbr. - - }			
Sept. 10. Immerf. Intimi. - -	10	19	0
Hæ duæ Eclipses observatæ <i>Bitur-</i> <i>gi</i> residentia <i>Collegii Ingolsta-</i> <i>diensis</i> ; quam aliàs definivi in ortum vergere 1' 40" ab In- golft. Meridiano. - - }			
Sept. 10. Immerfio Intimi. <i>Telefc.</i> 14.	10	17	10
Sept. 26. Immerf. ejusdem, eod. <i>Telefc.</i>		39	20

*Eclipsis Solis ibidem observata die 25 Septembris.*

	H.	'	"
<b>I</b> N loco obscuro excepta per helio- scopium Solis imago cæptæ Eclipsis initium præbet circa $46^{\circ} \frac{1}{2}$ a Nadir ad Boream. - - - - }	5	17	22
In speculâ astroptica 100 circiter passibus a loco priori distante, <i>Telefcop.</i> 12, & 16 ped. detegitur Sol jam obscuratus $\frac{1}{5}$ unius digiti - - - }	5	19	24
Immergitur centrum maculæ Solis limbo propinquioris - - - }	5	23	30
Centrum maculæ insignis - - -	5	24	40
Centrum maculæ 3 <sup>æ</sup> . - - -	5	26	36
2 Digiti obscurati, a Nadir. in Bor. $39^{\circ}$	5	30	46
3 Digiti - - - - $35 \frac{1}{2}$	5	37	12
4 Digiti - - - - 27	5	43	10
Solem 4 Digit. cum dimidio circ. de- ficientem nubes surripuere - - }	5	49	

*Phases*

*Phases Micrometro dimensæ.*

						H.	'	"
Dig. 1	-	-	-	-	-	5	22	30
2	-	-	-	-	-		30	50
3	-	-	-	-	-		37	54
4	-	-	-	-	-		44	30
4 33'	-	-	-	-	-		47	30

Solis Semidiameter sæpius micrometro dimensa exactè implebat 16' 0".

In disco Solari maculæ à quatuor notatis in immerfione, diversæ plures apparuere ; Sed eæ exiliores, quàm ut immerfio illarum quoque per vapores Phœbum obfcurantes discerni poffet.

VI. *An Account of a Machine for meafuring any Depth in the Sea, with great Expedition and certainty ; fhewn to the Royal Society, by J. T. Defaguliers, L. L. D. and R. S. S. contriv'd by the Rev. Mr. Stephen Hales, F. R. S. and Himself.*

There have been feveral Machines contriv'd for meafuring the different Depths of the Sea, efppecially fuch as could not be determined by the Lead and Line ; but as thofe Machines confifted of two Bodies (the one fpecifically lighter, and the other fpecifically heavier than Water) fo joined together, that as foon as the heavy one came to the Bottom, the lighter fhould get loofe from it, and emerge ; and the Depth was to be eftimated by the Time of the Fall of the compound Body