

differentia, aut ad calculos rationesque revocanda, aut experimentis (ubi fieri iteratis tentaminibus possit) perquirenda? Si id per se fatis dilucide atque manifeste jam apparet. Quod si in subtili cogitatione hac aliquid humani mihi contigerit, veritatem lubens agnoscam. Gaudeboque vehementer, si cuiquam occasionem dederò præstandi utilia, ut veritas, quæ in occulto latere amat, perspicue detegatur.

II. *Observationes Astronomicæ habitæ in Collegio Pekinenfi a Patribus Societatis JESU, a Mense Novembri 1740. a D^o Jacobo Hodgson, R. S. S. cum REGIA SOCIETATE communicatæ.*

Presented Jan.

20. 1742-3.

1740.

h ' "

Nov. die 4. 5 55 15 *a. m.* plena immersio Satellitis primi in umbra Ψ , visa *telescop. 13. ped.*

8. 12 16 5 *p. m.* plena immer. 2^{di} Satellitis Ψ , visa *eodem.*

18 34 *p. m.* ♀ præcedens Stellam η in π occidentalis erat in asc. rect. 2' 54'' temporis, & borealis in declinatione 6' 30''.

9. 11 2 15 *p. m.* ♂ emerfit e Luna in recta per Menelaum & Keplerum: immersio videri non potuit ob nubes in horizonte ortivo.

Nov.

1740. h. ' ''
Nov. die 9. 18 34

♀ Sequens hesternam
stellam, orientior erat
in ascensione recta 1'.
temporis, & australior in
decl. 15' 40''. distans
21' 53''.

12. 14 16 52 *p.m.* plena immersio Satel-
litis 1^{mi}. *Telef.* 13 *ped.*

15. 14 49 24 *p.m.* plena immersio 2^{di} Sa-
tellitis. *Eodem Telef.*

16. 9 55 *p.m.* Satelles 3^{tius} immersurus
in umbram disparuit in
nebula, ob quam nec
hujus immersio, nec 4^{ti} im-
mersio spectari potuit.

19. 16 9 10 *p.m.* plena immersio
Satell. 1^{mi}.

21. 10 37 33 *p.m.* plena immersio } *Telef.*
Ejusdem. } 13 *ped.*

22. 17 21 48 *p.m.* plena immersio
2^{di} Satellitis.

18 43

♀ Stellam ♄ in ♍ Se-
quebatur in asc. rect. 4'
27'' temp. & erat au-
stralior in declin. 13'
20''.

26. 7 45 *vesp.* Stella τ in ♍ stabat in
Linea Dichotomiæ ☿,
a cuspide australi in de-
clinatione australior
13' 0''.

1740. h ' "

Nov. die 26. 18 1 25 p.m. plena immerfio }
 1^{mi} Satellitis. } *Tel. 13*
 30. 17 47 40 p.m. plena immerfio }
 Satellitis 3ⁱⁱⁱ. } *ped.*

Dec. die 2. 17 20 p.m. Stella ϵ in γ supra erat α
 in eadem asc. rect. cum
 centro Platonis, borea-
 lior in declin. 12' 20".
 Plato distabat a limbo
 bor. α 4' 0".

3. 9 10 57 p.m. plena immerfio Satell.
 2^{di}. *Tubo 13 pedum.*

4. 12 26 p.m. α obtexit Stellam η in
 II, quæ immerfit contra
 Byrgium; emerfio ob
 nebulam non fuit ob-
 fervata.

10. 11 42 32 p.m. plena immerfio }
 2^{di} Satellitis. }
 14. 10 38 20 p.m. plena immerfio } *Tel. 10*
 1^{mi} Satellitis. } *ped.*
 17. 14 15 20 p.m. plena immerfio }
 2^{di} Satellitis. }
 19. 18 3 p.m. immerfio Satel-
 litis 1^{mi}.

1741.

Jan. die 1. 7 mane

γ distans a Stella ν in
 $m \pm 34'$. Sequebatur eam
 in asc. rect. 1' 50"
 temp. borealior in de-
 clin. 19' 0"

Jan.

1741.

	h	'	"	
Jan. die 1.	5	30	6	p. m. Emerſio Satellitis 1mi. <i>Teſcop. 10 pedum.</i>
	5	59	30	— Limbus occiduus & ad filum horarium in te- leſcopio.
	6	0	24	— γ ad diem filum, diſtans a limbo bor. & 13' 0''.
	1	15		— Limbus orientalis & ad idem filum.
	6	5	36	— Limbus occiduus & rur- ſus ad idem filum ho- rarium.
	6	18		— γ ad idem filum, diſtans a limbo boreo, 12' 30''.
	7	55		— Limbus orient. & ad idem filum.
	11	34		— γ culminavit altus 73° 26'.
	43			— & culminavit alt. centr. 73° 15'.

Die 2. horis matutinis partialis & Eclipsis,

	h	'	"	
	6	4	18	mane umbram iam tenuiter ſtrinxiffe & marginem, tubo 3½ ped. notatum eſt.
	6	5	40	Initium certum inter Vic- tam & Schikardum tubo 6 ped. ſignatum fuit.
	10	0		Umbra ad Schikardum.
	14	0		ad mare humorum
	R	r	2	Jan

1741.	h	'	"	
Jan. die 2.	6	16	0	Umbra ad Grimaldum.
		16	10	ad Capuanum.
		17	20	incipit Gassendus immergi.
				Centrum Grimaldi in umbra.
		18	30	totus Grimaldus merfus.
		19	0	Umbra ad Campanum.
		19	30	ad Herigonium.
		22	30	ad Tychonem.
		23	10	ad Bullialdum.
		24	0	Tycho merfus.
		24	20	Umbra ad Pitatum.
		32	0	ad Galileum.
		42	0	ad Kepplerum.
		43	0	ad Reinholdum.
		55	0	Fracastor. mergitur, umbra ad Copernicum.
	7	2	0	Copernicus totus videtur esse in umbra.
		6	0	Umbra ad Wendelinum.
		10	20	Centrum ☿ in umbra.
		14	0	☿ occultatur post montes ad occasum ante medium eclipsis.

Cæterum Penumbra erat exigua, & umbra bene nigra ac distincta: potuitque cœlo admodum serene & clare eclipsis sat commodè spectari usque ad occasum ☿. Diameter Lunæ ante eclipsim erat in micrometro 30' 20" circ. in ipso vero occasu tantum 30' 0". Centrum apparentis disci erat ab sinu æstuum occid. modice versus Hipparchum.

1741.

h ' "

- Jan. die 6. 12 52 25. *p.m.* Emerfio Satellitis 1^{mi}.
Telescop. 18 *ped.*
8. 7 20 30 *p.m.* Emerfio ejusdem. *Eodem*
dubiè.
11. 13 51 22 *p.m.* Emerfio Satellitis 2^{di}.
Telescop. 10 *ped.*
14. 2 42 40 *a.m.* Emerfio Satellitis 1^{mi}.
Telescop. 18 *ped.*
15. 9 12 36 *p.m.* Emerfio ejusdem. *Te-*
lescop. 13 *ped.*
18. 16 26 15 *p.m.* Emerfio Satellitis 2^{di}.
Telesc. 10. *ped.*
21. 5 30 *p.m.* ♂ præcedebat hesternam
 Stellam *c* in Π 1' 8".
 temp. in asc. rect. au-
 stralior erat in declin.
 5' 0".
22. 5 15 *p.m.* ♂ præcedens hesternam
 Stellam 2' 45". temp.
 in asc. rect. australior
 in declin. 2' 0".
- 5 41 57 *p.m.* Emerfit Satel-
 les 2^{dus}. } *Telesc.*
- 11 3 19 *p.m.* Emerfit Satel-
 les 1^{us}. } 18 *ped.*
24. 5 33 24 *p.m.* Emerfio Satellitis 1^{mi}.
Telescop. 10 *ped.*
28. 7 18 *vesperi* ♀ a margine ϵ distabat
 19' 30".
29. 8 18 16 *p.m.* Emerfio Satellitis 2^{di}.
Telesf. 13 *ped.*

Jan.

1741.

h / "

- Jan. die 29. 12 57 10 *p.m.* Emerfio Satellitis 1^{mi}.
 Feb. die 3. 8 18 *p.m.* Emerfio Satellitis 3^{tii}.
 5. 10 53 20 *p.m.* Emerfio Satellitis 2^{di}. } *Telesc.*
 6. 2 53 *a.m.* Emerfio Satellitis 1^{mi}. } 8 *ped.*
 7. 9 20 35 *p.m.* Emerfio ejusdem.
 8. 10 43 *p.m.* plena immer. Satellitis 4^{ti}. }
 14 6 30 Capit emergere idem Satelles 4^{tus}. } *Telesc.*
 10. 9 16 30 *p.m.* plena immerfio Satellitis 3^{tii}. *Eodem.* } 13 *ped.*
 12. 13 32 *p.m.* Emerfit Satelles 2^{dus} vifus
Telescop. 8 *ped.*
 14. 11 14 15 *p.m.* Emerfio Satellitis 1^{mi}.
Telescop. 18 *ped.*
 16. 5 43 45 *p.m.* Emerfio ejusdem. *Eodem.*
 22. 11 44 26 *p.m.* Luna obtexit ftellam „ in 8 ftantem in recta cum Manilio & Cenforino. Emerfio fpectari non potuit.
 23. 7 39 29 *p.m.* Emerfit Satelles 1^{us}.
Tubo 18 *ped.*

Feb.

1741.

h ' "

Feb. die 24. 9 27 *p.m.* Stella η in Π infra ϵ am
stabat in recta cum Ty-
chone & Platone, ab
illo in austrum distans
11' 20".

13 38 45 *p.m.* Stella μ in Π obtecta
fuit a ϵ in recta per
Tychonem & Posido-
nium; quæ non emer-
sit ante hor. 13. 55',
cum ϵ occidit post
rectum.

25. 8 26 30 *p.m.* Emerfio Satellitis 4^{ti}.
Telescop. 13.

Mart. die 2. 9 36 11 *p.m.* Emerfio Satellitis 1^{mi}.
Telescop. 18.

11. 6 2 45 *p.m.* Emerfio ejusdem. *Eod.*

April. die 3. 6 26 35 *p.m.* Emerfio ejusdem. *Eod.*
8 14 Emerfio Satellitis 2^{di}.
Tubo 8 ped.

10. 8 20 37 *p.m.* Emerfit Satelles 1^{us}. visus
Telescop. 13.

20. 10 50 42 *p.m.* ϵ obtexit Satellitem
3^{tium}, qui erat ad occi-
dentem ψ ^{is}.

10 56 45 ϵ attigit limbum ψ
h. 10 57' 35" fuit plena
hujus immerfio plane in
medio inter utramque
cuspidem ϵ recta versus
centrum. Alii Satel-
lites ob atmosphæram
non

					non erant bene discernibiles. Et Luna paulo post se abscondit post testā.
1741.		h	'	"	
Maii die	3.	8	40	6 p.m.	Emersio Satellitis 1 ^{mi} . <i>Telescop. 13 ped.</i>
		9	36		Emersio Satellitis 4 ^{ti} . <i>Eodem.</i>
Sept. die	8.	4	41	48 a.m.	Immersio Satellitis 1 ^{mi} . <i>Eodem.</i>
	24.	8	7	15 p.m.	☾ obtexit Stellam quadranguli ante caudam Ceti Australem præcedentem, quæ immerfit modice ad ortum Cleostrati.
		9	0	13	Eadem emerfit proxime Berosum.
Oct. die	1.	5	0	8 a.m.	Immersio Satellitis 1 ^{mi} . <i>Tubo 13 ped.</i>
	15.	17	8	49 p.m.	Immersio 2 ^{di} . Satellitis coelo nonnihil nubilo. <i>Telescop. 13 ped.</i>