

third Reservoir IKKL, with its Out-let X, are included in a Box YYYY. Into this Box at λ enters a Funnel $\Gamma\lambda\Gamma$ divided within the Box into two Pipes, viz. λO , which serves for a Feeding-Stream to the great Reservoir, and λW , which serves for a constant Stream to the third Reservoir. A Stream of Water being let into the Funnel $\Gamma\lambda\Gamma$, will discharge itself like such an intermitting Reciprocating Fountain at X, where there is a Basin YZZZ without the Box to receive it; with an Out-let α , and a Diagonal Gage ZY, to mark the Rise and Fall of the Water in the Basin.

III. *Immerfiones, atque Emerfiones Satellitum Jovis Observatæ Pekini a P. P. Ignatio Kegler, & Andrea Pereira, Soc. JESU, a mense Novem. 1730, ad Rev^d. P. Johannem Baptistam Carbone, Soc. JESU, R. S. S. transmissæ; et ex ejusdem Cl. Viri Epistolâ ad Jacobum de Castro Sarmiento, M. D. Col. Medic. Lond. L. & R. S. S. excerptæ.*

SATELL. I.

1730	{	<i>Nov.</i>	3 ^d	18 ^h	00'	p. m.	
				12	14	20	
				19	16	12	
				26	18	3	
			<i>Dec.</i>	5	14	22	54 ^{li}
				12	16	11	30
				19	18	00	45

Dec.

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1730	Immerstones	Dec. 21 ^d	12 ^h	28 ^l	40 ^{ll}			
			28	14	18	10		
1731		Jan. 4	16	8	45			
			6	10	35	20		
			11	17	59	30		
			13	12	27	10		
			20	14	17	30		
			27	16	10	12		
		Feb. 3	18	2	36			
			12	14	25	dub.		
			14	8	54	20		
		Mar. 2	9	30				
		Emerstones		9	11	27	40	
					16	13	23	30
					18	7	52	40
	Apr. 1		11	45	20			
			3	6	15			
			17	10	8	40		
			24	12	4	30		
	Mai. 3		8	29	50			

SATELL. II.

1730	Immerstones	Nov. 25	16	5	30	
		Dec. 2	18	37	dub.	
			20	12	49	45
			27	15	21	5
1731		Jan. 3	17	49	50	
			14	9	30	45
		28	14	37	30	
	Feb. 4	17	10			
		15	8	59		

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1731	Emerf.	{	<i>Mar.</i> 19 ^d	11 ^h	29'	20''
			<i>Apr.</i> 13	8	35	
				20	11	16

SATELL. III.

1730	Immer.	<i>Nov.</i> 21	16	16	30
	Emer.	<i>Dec.</i> 20	11	27	50
	Immer.	27	11	49	30
	Emer.		15	21	17
1731	Immer.	<i>Jan.</i> 3	15	43	15
	Emer.		19	16	dub.
	Immer.	<i>Feb.</i> 8	11	25	30
	Immer.	15	15	23	
	Emer.	<i>Mar.</i> 9	6	50	30
	Emer.	16	10	50	50
	Emer.	23	14	51	30
	Emer.	<i>Apr.</i> 21	6	56	20
	Immer.	28	7	28	30
	Emer.		10	55	30
	Immer.	<i>Mai.</i> 5	11	30	30

SATELL. IV.

1730	Immer.	<i>Dec.</i> 20	18	50	45
1731	Immer.	<i>Jan.</i> 6	12	38	12
	Emer.		17	6	45
	Emer.	23	10	54	
	Immer.	<i>Mar.</i> 31	6	inter 30' & 35'	
	Emer.		10	43	40

Die 14 *Nov.* 1730 circa hor. 4. p. m. Luna obtexit Martem. Immerfio, claro adhuc die, videri non potuit : observata tamen est Emerfio, quæ accidit hor. 4. 54' proximè Furnerium. Die

Die 17 *Jan.* 1731, Observatus est transitus Lunæ per Pleiadas, ut sequitur.

H.	'	"	<i>p. M.</i>
10	9	40	Immerfit Electra in recta per Platonem, & Eudoxum.
10	32	52	Immerfit Merope ——— Copern. & Messallam.
10	38	15	Emersit Electra ——— Thaletem, & Eudoxum.
11	23	52	Immerfit præcedens lucidam Pleiadum (triplex Stellula) in recta per Eratosth. & S. Cyrillum.
11	26	5	Immerfit lucida, seu Alcyone, Copern. & S. Cathar.
11	47	32	Emersit Merope in recta per Tarunt. & S. Theophil.
12	1	10	Immerfit lucidior ex parvis ad Austrum Atlantis, in recta per Sulliald, & Cenforinum.
12	12	12	Immerfit Atlas in recta per Copern. & Jul. Cæsar.
12	13	57	Emersit Alcyone in recta per Marginem Orient. Possid. & Menelaum.
12	25	3	Immerfit Pleione in recta per Copern. & Ptolomeum.

1731, Die 14 *Mart.* ☿ occultavit Stellam α in ☿ Immerfio accidit H. 8, 41' 50" *p. M.* in recta per Tatum, & Langrenum. Emersit H. 9, 51' a Firmico modicè ad Austrum.

Die 20 *Mart.* α occultavit Stellam π in \mathcal{A} . Immersio fuit H. 11, 13' *p. M.* in recta per Merfenum, & Bullialdum. Emerfio H. 12, 31' è regione Firmici.

Die 16 *April.* α occultavit Stellam σ , in \mathcal{A} . Immersio fuit H. 8, 46' 30'' *p. M.* in recta per Bulliald. & Cenforin. Emerfio H. 10, 5' 45'' in recta per Taruntium, & Menelaum.

Eclipsis α Die 29 *Julij*, 1730, *Pekini* ob densè nubilarum Cœlum non potuit observari. Eam tamen observavit *P. Phil. Jac. Simonelli* in urbe *Chamxo* in provinciæ *Nankinensis*, quæ *Pekino* ad ortum distat paulò plus 4 grad. *Æquat.* id est, 16 vel 17 min. temp. Initium Eclipsis ibi fuit H. 10, 55' *p. M.* & finis H. 12, 49', cum maxima obscuratione digitorum sinicorum 3, 10'. Itaque medium Eclipsis illic accidit H. 11, 52', quod pro *Pekino* calculus dabat H. 11, 36', cum differentia 16' satis justa.

Eandem Eclipsim in Regia *Cochinchinæ* observavit *P. Franciscus de Lima*. Initium annotavit H. 9, 58' *p. M.* & finem H. 11, 50', adeoque medium ibi erat H. 10, 54', unde exurgit differentia ejus Meridiani à *Pekino* ad Occid. 42'. temp. id est, 10° 30' *Æquat.*