

III. *Observatio Cometæ, Anno 1748, cum aliis aliquot Observationibus astronomicis a Rev. P. P. Antonio Gaubil e Soc. Jesu ad eundem transmissa; in Residentia PP. Gallor. Soc. Jesu Pekini.*

**D**IE 27 April. mane  $3^h 30'$  vidimus cometam in medio stellarum Pegasi  $\beta$   $\lambda$   $\eta$ .

2 Maii comparavimus etiam cometam cum stellis de quibus agit P. Hallerstein in Flamstedio 1690. Stella in  $\gamma$   $11^{\circ} 26' 45''$ . Locus cometæ idem ferme concluditur seu ex nostra seu P. Hallerstein observatione.

3 Maii  $3^h$  mane  $\alpha$  et  $\sigma$  Cassiopeæ in linea recta cum cometa.  $\sigma$  est in medio sat præcisè.

4 Maii mane  $4^h \frac{1}{4}$  cometa occidentalior  $3^a$  stella in Cassiop. apud Flamstedium  $5' 35''$ , cometa australior  $1^{\circ} 1'$ .

5 Maii nihil exacte observari potuit.

6 Maii mane  $2^h 51'$  linea per  $\alpha$  et  $\beta$  Cassiopeæ paululum ad austrum cometæ, distantia  $\beta$  a stella  $\kappa$  = distantia  $\beta$  a cometa.

10 Maii vespere,  $9^h 14'$  minima altit. cometæ vera  $20^{\circ} 48' 58''$  cometa occidentalior orientali stella (componitur ex duabus)  $27' 12''$ ; in Flamstedio stella in Tauro  $25^{\circ}$  et aliquot min.

15 Maii comparavimus etiam cometam cum stellis P. Hallerstein. Cometæ altit. merid. vera p. m.  $25^{\circ} 51' 30''$   $10^h 12'$ . Cometa australior stella  $8'$ ; altit. mer. stellæ boreal.  $25^{\circ} 59' 30''$ . Non bene observavimus differentiam asc. rectæ.

16 Maii

16 Mai. p. m. vera altit. merid. cometæ  $26^{\circ} 16' 32''$ ; in reticulo  $10^h 22'$ : cometa orientior stella P. Hallerstein  $1^{\circ} 41'$ .

17 Maii p. m.  $10^h 40'$  vera altid. minima cometæ  $26^{\circ} 46' 34''$ .

$\gamma$  Cephei ad horarium  $7^h 54' 58''$ .

Cometa ad horar.  $10^h 41' 43''$ .

Via cometæ videtur borealior via stellæ  $38' 20''$ .

In schedulis non reperio sat multas observationes factas usque ad 7 Jun. Sed ex comparatione cometæ cum Heveliana stella, de qua infra, et aliis non ita bene cognitis mihi, videor posse concludere, a die  $2^{da}$  Jun. ad 7mum cometæ asc. rectam crevisse 6 grad. et minut. aliquor. declin. vero decrevisse  $55'$ .

7 Jun. mane  $1^h 15'$  stella ad horarium  $35' 30''$  post cometam. Stella borealior  $1^{\circ} 30'$  sat. dubie obser. \*

9 Jun.  $0^h 45'$  cometa ad horarium.

$0^h 49' 10''$  stella ad horarium A. §

Cometa borealior  $1^{\circ} 30'$ .

Usque ad 12 Jun. nihil sat exacti fuit observatum.

13 Jun. p. m.  $9^h 30'$  distantia cometæ a stella I ||  $10' 20''$ .

Cometa borealior  $4' 25''$ .

Cometa est orientior.

17 Jun. p. m.  $0^h 26' 30''$  A ad horar. }  
 $53 \quad 35$  R ad horar. }  
 $55 \quad 15$  cometa ad hor.

Cometa et R in eadem declin.

\* Hevelii stella ad ann. 1660. asc. recta  $2^{\circ} 24' 39''$ . Dist. a polo  $12^{\circ} 42' 17''$ .

§ Stella A in Fig. D de la Caille in Aët. Paris. 1740.

|| Stella I in Fig. D de la Caille. Aët. Paris. 1742.

† A. R. stellarum notæ in Fig. D de la Caille, Aët. Acad. Paris. 1742.

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18 Jun. p. m.  $9^h 52' 14''$  *A* ad horar.

10 19 21 *R* ad horar.

24 57 cometa ad horar.

Cometa australior *A*  $16' 30''$

australior *R* 10 20.

Diebus sequentibus tubo 7 ped. et amplius, cujus apertura =  $1^\circ 0' 24''$ , observatus est cometa cum stella *D* in Fig. *B. La Caille* Act. Acad. Paris. 1742. Nul- lum fere successum habuere multæ ex illis observa- tionibus: refero tantum duas, quæ non mihi videntur omnino exactæ.

27 Jun. p. m. stella *D* intrat in tubum  $9^h 23' 10''$

exit ex tubo 9 36 0

cometa intrat 9 40 28

exit 9 52 16

Cometa concluditur borealior  $19' 40''$ .

29 Jun. *D* intrat  $11^h 1' 40''$  p. m.

exit 11 14 51

Cometa intrat 11 23 54

exit 11 36 0

Cometa concludit borealior  $12'$  aut forte  $13'$ .

Non facile videbatur cometa 29 Jun. fuere nubes diebus 30 Jun. 1 et 2 Julii; nec deinde quæsitus est cometa.

En, domine illustrissime, observationes aliquot cometæ.

Pekini, 8 Nov. 1748.

*Ant. Gaubil, S. J.*

*Obj.*

*Obs. conjunctionis Martis cum Venere.*

1748. t. v. 15 Mart. p. m. 8<sup>h</sup> 10' limbus occident. ♂  
distat a limbo occidentali ♀ 1' 29".

*Obs. aliquot Eclips. Satell. Jovis.*

13 Octob. p. m. tempore vero 9<sup>h</sup> 40' 30" ima Em.  
3<sup>i</sup> satell. ♄. tub. 15 ped.

15 Octob. p. m. tempore vero 8<sup>h</sup> 37' 26" Emerf. 1<sup>i</sup>  
satell. cod. tubo.

20 Octob. p. m. tempore vero 10<sup>h</sup> 7' 56" Imm. total.  
3<sup>i</sup> satell. cod. tub.

21 Octob. p. m. tempore vero 5<sup>h</sup> 52' 12" Emerf. 2<sup>di</sup>  
satell. cod. tub. dubiè.

28 Octob. p. m. tempore vero 8<sup>h</sup> 29' 20" ima Em.  
2<sup>di</sup> satell. cod. tubo.

7 Nov. p. m. tempore vero 8<sup>h</sup> 52' 59" ima Emerf.  
1<sup>i</sup> satell. cod. tubo.

IV. *An Account of an Aurora Australis,*  
*seen Jan. 23. 1749-50, at Chelsea, by*  
*John Martyn, F. R. S. Prof. Bot. Can-*  
*tab. communicated by Martin Folkes, Esq;*  
*Præf. Reg. Soc.*

*Read Jan. 25. 1749-50.* JAN. 23. 17<sup>49</sup>/<sub>50</sub> at about half an Hour  
after five in the Evening, casting my  
Eye accidentally toward a Window which looked  
to the S. S. W. I thought I saw a reddish Light about  
the Planet *Venus*, which then shone exceedingly  
bright. Being suspicious of some Fire in the Neigh-  
bourhood, I went immediately to a Window on the  
S f 2 Stair-