

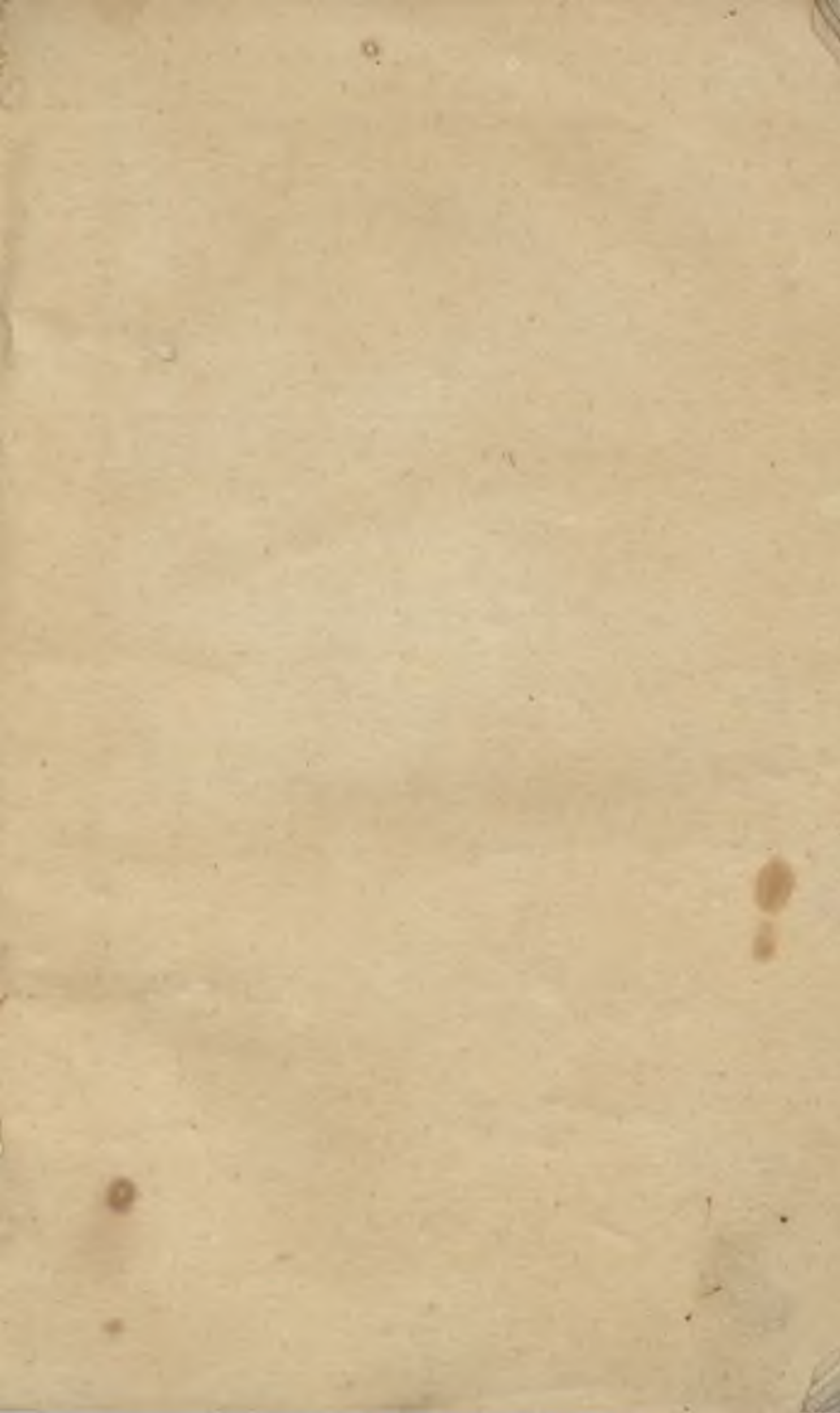
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EPHEMERIDES  
ASTRONOMICÆ

Ann*i* 1785.

AD  
MERIDIANUM VINDOBONENSEM

JUSSU  
AUGUSTISSIMI  
CALCULATÆ

A  
MAXIMILIANO HELL,

ASTRONOMO CÆSAREO-REGIO UNIVERSIT.

ET

FRANCISCO DE PAULA TRIESNECKER,  
ADJUNCTO ASTRONOMIÆ CÆS. REGIO

CUM  
APPENDICE TABULARUM ABERRA-  
TIONUM ET NUTATIONUM 252  
FIXARUM.

A  
R. D. ANTONIO PILGRAM  
PHILOSOPHIÆ DOCTORE CALCULATARUM.



V I E N N Æ,

TYPIS ET SUMPT. JOAN. THOM. NOB. DE TRATTNERN,  
CÆS. REG. MAJ. AULÆ TYPOGRAPHI ET BIBLIOPOLÆ.

MDCCLXXXIV.

301522

M. ACADEMIA  
KÖNYVTÁRA.

# M O N I T U M

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**A**nnus 1785. vicesimus, & nonus est nostrarum Ephemeridum cura eadem, atque diligentia, ut anni priores, ex optimis astronomicis Tabulis supputatus. Solis nempe, & Lunæ calculi sunt juxta Tabulas cel. D. Tobixæ Mayer, olim Astronomi Göttingensis Societatis Regiæ scientiarum; Planetarum cel. D. Halleii, Astronomi Regii Londinensis; Satellitum Jovis cel. D. Wargentin, Astronomi Regii Stokholmiensis: cæteri calculi habentur partim e meis, partim aliorum celebrium Astronomorum Tabulis.

Appendicem faciunt Tabulæ Astronomicæ, Aberrationum & Nutationum 252 fixarum, Calculatæ à *R. D. Antonio Pilgram* Philosophiæ Doctore. Observationes Astronomicæ Viennæ & alibi locorum factæ annis 1782, & 1783. inferentur Ephemeridibus Anni 1786.

*Festa Mobilia.**Cyclorum Numeri.*

Septuagesima - - 23. Jan.	Numerus aureus - - 19.
Dies cinerum - - 9. Febr.	Epacta - - - - XVIII.
Pascha - - - - 27. Marti.	Cyclus Solaris - - 2.
Dies Rog. 2. 3. & 4. Maji.	Indictio Romana - - 3.
Ascensio Domini 5. Maji.	Lit. Dominicalis - - B.
Pentecoste - - - 15. Maji.	
Dom. SS. Trinit. - 22. Maji.	
Fest. Corp. Christi 26. Maji	
Dom. I. Adventus 27. Nov.	

*Quatuor Tempora.*

Februarii - - 16. 18. 19.	Septembris - - 14. 16. 17.
Maji. - - - 18. 20. 21.	Decembris - - 14. 16. 17.

*Æquinoctia.**Solstitia.*

Æquinoctium Vernum die 19 Martii h. 17. m. 37.	Solstitium Æstivum, die 20. Junii h. 15. m. 42.
Æquinoct. Autumnale die 22 Sept. h. 5. m. 23.	Solstitium Brumale, die 20. Dec. h. 21. m. 51.

*Distantia Solis a Terra.*

○ in distantia media die 30. Martii.	Sol in distantia media die 30. Septembris.
○ in distantia maxima die 30. Junii.	Sol in distantia minima die 30. Decembris.

*Obliquitas Eclipticæ.*

1. Januarii 23. gr. 28. m. 9. f. 4.	1. Julii 23. gr. 28. m. 8. f. 1.
Æquat. puncti Æqui. + 10. f. 8.	Æquat. puncti Æqui. + 13. f. 0.
1. Aprilis 23. gr. 28. m. 8. f. 8.	1. Octobris 23. gr. 28. m. 7. f. 3.
Æquat. puncti Æqui. + 11. f. 9.	Æquat. puncti Æqui. + 14. f. 0.



*Occultationes fixarum, & Planetarum a Luna  
Viennæ visibiles.*

*A p r i l i s.*

Die 12. occultatio Veneris a Luna interdiu.

H. M. S.

Contactus primi limbi ♀ a parte obscura Lunæ 1 17 54 postmerid.

Emerfio primi limbi ♀ in parte lucida Lunæ 2 27 55

Duratio totalis centrorum Veneris. . . . . 1 10 0

Distantia centrorum minima. . . . . 0 7 48

*Notandum.* Cum Phafis Veneris pro hac die fit fere dichotoma, feu fimilis Phafi Lunæ in Prima Quadratura verfantis, hinc contactus Limbi obfcuri occidentalis Veneris observari non poffunt, verum folum extrema puncta Semidiametri illuminatæ Veneris,

*A p r i l i s.*

Die 28. occultatio fixæ 43. Ophiuchi. Immerfio in parte lucida Lunæ circa heram 1 m. 20 mane. Emerfio in parte obscura Lunæ 1 m. 50 mane.

*M a j u s.*

Die 23. occultatio  $\pi$  III. Immerfio Luna plena in horizonte verfante inviubilis. Emerfio in parte lucida Lunæ circa h. 9. m. 40 vefpere.

*J u n i u s.*

Die 23. occultatio  $\phi$  ♄. Immerfio in parte lucida Lunæ plenæ circa h. 1 m. 0 mane. Emerfio in parte lucida Lunæ plenæ 2 m. 10 mane.

*A u g u ſ t u s.*

Die 16. occultatio  $\phi$  ♄. Immerfio in parte obscura Lunæ circa h. 7 m. 30 vefpere. Emerfio in parte lucida Lunæ 9 m. 0 vefpere.

Die 17. occultatio  $\sigma$  ♃. Immerfio in parte obscura Lunæ circa h. 1 m. 10 mane. Emerfio in parte lucida Lunæ 1 m. 55 mane.



### *S e p t e m b e r.*

Die 11. occultatio fixæ 43. Ophiuchi. Immerſio in parte obſcura Lunæ circa h. 7 m. 20 vespere. Emerſio in parte lucida Lunæ 8 m. 35.

### *O c t o b e r.*

Die 22. occultatio  $\epsilon$   $\Pi$ . Immerſio in parte lucida Lunæ in horiz. circa h. 11 m. 40 vesp. Emerſio in parte obſcura Lunæ die 23 h. 12 m. 40 mane.

### *D e c e m b e r.*

Die 14 mane Luna in Plejadibus, ex his occultabit ſequentes inſigniores.

Immerſio Celeno circa horam	1 m. 5 mane.
Immerſio Electra.....	1 m. 10
Immerſio Taigeta.....	1 m. 20
Immerſio Maja. ....	1 m. 33
Immerſio Aſterope.....	1 m. 55
Emerſio Electræ.....	2 m. 0
Emerſio Celeno . ....	2 m. 10
Emerſio Taigeta . ....	2 m. 25
Emerſio Aſterope.....	2 m. 40
Emerſio Maja.....	2 m. 50

NB. Immerſiones contingunt in parte obſcura Lunæ, Emerſiones in parte lucida Lunæ.

### *De Eclipsibus.*

Luna hoc anno nullam Eclipſim patitur, Solis Eclipſes duæ erunt, attamen nulla ex his Viennæ viſibilis erit.

Prima Solis Eclipſis continget die 9 Februarii in Africa, & Aſia viſibilis.

Secunda Solis Eclipſis eveniet die 4 Auguſti viſibilis in America ſeptentrionali.

## JANUARIUS. ☉

Dies Astronom.	Dies Medii Civili.	Dies Hebdomad.	JANUARIUS.	Tempus Meridiei veri. ☉			Decrementum diurnum Temporis medii.	Distantia ☉ V Meridiano.			Accelerat. diurna Stellarum fixarum præ motu ☉ vero.
				H. M. S. D.	S. D.	H. M. S. D.		M. S. D.			
166	1	Sab.	Circ. D. N. J. C.	0. 4. 19. 4	28. 0	5. 9. 45. 4		4. 24. 7			
1	2	B. Dom.	S. Macarius.	0. 4. 47. 4	27. 6	5. 5. 20. 7		4. 24. 0			
2	3	Lun.	S. Genoveva.	0. 5. 15. 0	27. 2	5. 0. 56. 7		4. 23. 9			
3	4	Mart.	S. Titus.	0. 5. 42. 2	26. 8	4. 56. 32. 8		4. 23. 5			
4	5	Merc.	S. Telephorus	0. 6. 9. 0	26. 4	4. 52. 9. 3		4. 23. 0			
5	6	Jov.	Epiphan. Dom.	0. 6. 35. 4	25. 9	4. 47. 46. 3		4. 22. 5			
6	7	Ven.	S. Raymundus.	0. 7. 1. 3	25. 4	4. 43. 23. 8		4. 22. 0			
7	8	Sab.	S. Severinus.	0. 7. 26. 7	24. 8	4. 39. 1. 8					
8	9	B. Dom.	I. S. Adrianus.	0. 7. 51. 5	24. 3	4. 34. 40. 4		4. 21. 4			
9	10	Lun.	S. Agatha M.	0. 8. 15. 8	23. 7	4. 30. 19. 5		4. 20. 9			
10	11	Mart.	S. Hyginus.	0. 8. 39. 5	23. 1	4. 25. 59. 1		4. 20. 4			
11	12	Merc.	S. Ernestus.	0. 9. 2. 6	22. 4	4. 21. 39. 4		4. 19. 7			
12	13	Jov.	S. Hilarus.	0. 9. 25. 0	21. 8	4. 17. 20. 4		4. 19. 0			
13	14	Ven.	S. Felix.	0. 9. 46. 8	21. 0	4. 13. 1. 9		4. 18. 5			
14	15	Sab.	S. Maurus.	0. 10. 7. 8	20. 3	4. 8. 44. 3		4. 17. 6			
15	16	B. Dom.	2. Fest. SS. N. J.	0. 10. 28. 1	19. 7	4. 4. 27. 4		4. 16. 9			
16	17	Lun.	S. Anton. Ab.	0. 10. 47. 8	18. 8	4. 0. 11. 2		4. 16. 2			
17	18	Mart.	S. Simeon Styl.	0. 11. 6. 6	18. 1	3. 55. 55. 7		4. 15. 5			
18	19	Merc.	S. Canutus.	0. 11. 24. 7	17. 2	3. 51. 41. 0		4. 14. 7			
19	20	Jovis	SS. Fab. & Seb.	0. 11. 41. 9	16. 6	3. 47. 27. 2		4. 13. 8			
20	21	Ven.	S. Agnes V. M.	0. 11. 58. 5	15. 7	3. 43. 13. 9		4. 13. 3			
21	22	Sab.	SS. Vinc. Anast.	0. 12. 14. 2	14. 9	3. 39. 1. 7		4. 12. 2			
22	23	B. Dom.	Septuagesima.	0. 12. 29. 1	14. 2	3. 34. 50. 1		4. 11. 6			
28	24	Lun.	S. Timotheus.	0. 12. 43. 3	13. 2	3. 30. 39. 5		4. 10. 6			
24	25	Mart.	Conv. S. Pauli	0. 12. 56. 5	12. 5	3. 26. 29. 5		4. 9. 9			
25	26	Merc.	S. Polycarpus.	0. 13. 9. 0	11. 6	3. 22. 20. 5		4. 9. 1			
26	27	Jov.	S. Joan. Chr.	0. 13. 20. 6	10. 8	3. 18. 12. 3		4. 8. 2			
27	28	Ven.	S. Carolus M.	0. 13. 31. 4	10. 0	3. 14. 4. 9		4. 7. 4			
28	29	Sab.	S. Franc. Sal. E.	0. 13. 41. 4		3. 9. 58. 1		4. 6. 8			
29	30	B. Dom.	Sexagesima.	0. 13. 50. 8	9. 4	3. 5. 52. 3		4. 5. 8			
30	31	Lun.	S. Petrus Nol.	0. 13. 59. 2	8. 4	3. 1. 47. 2		4. 5. 1			

## JANUARIUS. ☉

*Solis in Meridiano versantis.*

Dies Mensis	Longitudo vera. ☉			Motus horarius verus.			Ascensio recta.			Ascensio recta conversa in tempus.			Declinatio vera Australis			Altitudo Centri ☉ vera.			
	G.	M.	S.	M.	S.	D.	G.	M.	S.	H.	M.	S.	D.	G.	M.	S.	G.	M.	S.
1	11.	33.	1	2.	32.	0	282.	33.	39.	18.	50.	14.	6	22.	58.	0	18.	49.	24
2	12.	34.	12	2.	32.	0	283.	39	49.	18.	54.	39.	3	22.	52.	27	18.	54.	57
3	13.	35.	23	2.	32.	9	284.	45.	40.	18.	59.	3.	3	22.	46.	28	19.	0.	56
4	14.	36.	34	2.	32.	9	285.	41.	48.	19.	3.	27.	2	22.	40.	2	19.	7.	22
5	15.	37.	45	2.	32.	9	286.	57.	40.	19.	7.	50.	7	22.	33.	10	19.	14.	14
6	16.	38.	57	2.	32.	9	288.	3.	25.	19.	12.	13	7	22.	25.	48	19.	21.	36
7	17.	40.	8	2.	32.	9	289.	9.	3.	19.	16.	36.	2	22.	18.	2	19.	29.	22
8	18.	41.	19	2.	32.	9	290.	14.	33.	19.	20.	58.	2	22.	9.	51	19.	37.	32
9	19.	42.	30	2.	32.	8	291.	19.	54.	19.	25.	19.	6	22.	1.	11	19.	46.	13
10	20.	43.	41	2.	32.	8	292.	25.	7.	19.	29.	40.	5	21.	52.	7	19.	55.	17
11	21.	44.	51	2.	32.	8	293.	30.	13.	19.	34.	0.	9	21.	42.	28	20.	4.	46
12	22.	46.	1	2.	32.	8	294.	35.	9.	19.	38.	20.	6	21.	32.	42	20.	14.	42
13	23.	47.	10	2.	32.	8	295.	39.	54.	19.	42.	39.	6	21.	22.	10	20.	25.	5
14	24.	48.	18	2.	32.	8	296.	44.	31.	19.	46.	58.	1	21.	11.	35	20.	35.	49
15	25.	49.	26	2.	32.	8	297.	48.	55.	19.	51.	15.	7	21.	0.	26	20.	46.	58
16	26.	50.	32	2.	32.	7	298.	53.	9.	19.	55.	32.	6	20.	48.	54	20.	58.	30
17	27.	51.	38	2.	32.	7	299.	57.	12.	19.	59.	48.	8	20.	36.	57	21.	10.	27
18	28.	52.	43	2.	32.	7	301.	1.	4.	20.	4.	4.	3	20.	24.	35	21.	22.	49
19	29.	53.	46	2.	32.	7	302.	4.	45.	20.	8.	19.	0	20.	11.	52	21.	35.	32
20	0.	54.	48	2.	32.	7	303.	8.	12.	20.	12.	32.	8	19.	58.	47	21.	48.	37
21	1.	55.	49	2.	32.	6	304.	11.	31.	20.	16.	46.	1	19.	45.	19	22.	2.	5
22	2.	27.	49	2.	32.	6	305.	14.	34.	20.	20.	58.	3	19.	31.	28	22.	15.	56
23	3.	57.	48	2.	32.	6	306.	17.	28.	20.	25.	9.	9	19.	17.	16	22.	30.	8
24	4.	58.	46	2.	32.	5	307.	20.	7.	20.	29.	20.	5	19.	2.	44	22.	44.	40
25	5.	59.	43	2.	32.	5	308.	22.	36.	20.	33.	30.	4	18.	47.	49	22.	59.	35
26	7.	0.	33	2.	32.	4	309.	24.	52.	20.	37.	39.	5	18.	32.	36	23.	14.	40
27	8.	1.	33	2.	32.	4	310.	26.	55.	20.	41.	47.	7	18.	17.	2	23.	30.	27
28	9.	2.	27	2.	32.	3	311.	28.	46.	20.	45.	55.	1	18.	1.	6	23.	46.	18
29	10.	3.	20	2.	32.	3	312.	30.	28.	20.	50.	1.	9	17.	44.	55	24.	2.	29
30	11.	4.	11	2.	32.	2	313.	31.	55.	20.	54.	7.	7	17.	28.	21	24.	19.	3
31	12.	5.	2	2.	32.	1	314.	33.	13.	20.	58.	12.	8	17.	11.	31	24.	35.	53

## JANUARIUS. ☉

*solis in Meridiano versantis*

Dies Mensis.	Diameter ☉ apparens.		Mora transitus disci ☉ per Meri- dianum.	Distantia ☉ a δ cujus Di- stantia me- dia.	Ortus centri ☉ verus	Occasus centri ☉ verus	Dies Mensis.	Phænomena & Observationes ☉
	M. S. D.	M. S. D.	10000.	H. M.	H. M.			
1	32 39 2	2 22 1	9832	19 54 4	6			
2	32 39 1	2 21 9	9832	19 53 4	7	5	☉ in parallelo γ Leporis culm. h. 10. m. 25.	
3	32 39 1	2 21 8	9832	19 52 4	8			
4	32 39 0	2 21 7	9832	19 52 4	8	7	☉ in parallelo β Corvi culm. h. 17. m. 3.	
5	32 38 9	2 21 6	9832	19 51 4	9			
6	32 38 8	2 21 5	9833	19 51 4	9	8	☉ in parall. γ Hydra culm. h. 17. m. 43.	
7	32 38 8	2 21 3	9833	19 50 4	10	11	☉ in nodo descendente h	
8	32 38 7	2 21 1	9834	19 49 4	11	12	☉ in parallelo ε Corvi culm. h. 16. m. 18.	
9	32 38 6	2 21 0	9834	19 48 4	12			
10	32 38 5	2 20 8	9835	19 47 4	13	15	☉ in parallelo β Leporis culm. h. 9. m. 26.	
11	32 38 4	2 20 6	9835	19 46 4	14			
12	32 38 3	2 20 5	9836	19 45 4	15	19	Conjunctio ☉ & h Ingressus ☉ in o h. 2. m. 25.	
13	32 38 2	2 20 3	9837	19 44 4	16			
14	32 38 0	2 20 1	9837	19 43 4	17	23	☉ in parall. β Ceti culm. h. 4. m. 7.	
15	32 37 8	2 19 9	9838	19 42 4	18	24	Conjunctio ☉ & ε inferior.	
16	32 37 6	2 19 7	9839	19 41 4	19	28	☉ in parallelo α Leporis culm. h. 8. m. 36.	
17	32 37 4	2 19 4	9840	19 40 4	20			
18	32 37 2	2 19 1	9841	19 39 4	21			
19	32 37 0	2 18 9	9842	19 38 4	22		☉ in parallelo β Can. maj. culm. h. 9. m. 26.	
20	32 36 8	2 18 7	9843	19 37 4	23			
21	32 36 6	2 18 5	9844	19 36 4	24			
22	32 36 4	2 18 3	9845	19 34 4	26			
23	32 36 2	2 18 1	9847	19 32 4	28			
24	32 36 0	2 17 8	9848	19 31 4	29			
25	32 35 8	2 17 5	9849	19 30 4	20			
26	32 35 4	2 17 2	9850	19 29 4	31			
27	32 35 1	2 16 9	9852	19 27 4	33			
28	32 34 9	2 16 6	9853	19 26 4	34			
29	32 34 6	2 16 5	9855	19 25 4	35			
30	32 34 2	2 16 4	9857	19 23 4	37			
31	32 34 0	2 16 3	9859	19 22 4	38			



## JANUARIUS. D

Loca Dnā sōle in Meridiano versante.

Die-Mens.	Longitudo vera. ☉	Latitudo vera. ☉	Declinatio vera. ☉	Nodus ☉ ascen- dens.	Dia- meter ☉ horizon- talis.	Paral- laxis ☉ horizon- talis.	Tempus culm. ☉
	s. G. M. S.	G. M. S.	G. M. S.	G. M.	M. S.	M. S.	H. M.
1	♏ 16.6.14	2. 8. 51	3.18. 47	28. 17.	29. 36.	54. 18.	16. 41
2	27.55.22	3. 4. 31	1.59. 10	23. 14.	29. 46.	54. 38.	17. 20
3	♌ 9.51.34	3. 52. 48	7. 28.39	23. 11.	29. 54.	54. 49.	18. 11
4	22. 0. 1	4. 31. 32	12.47.47	23. 7.	30. 10.	55. 19.	18. 44
5	♎ 4.25.49	4. 58. 33	17.42.33	23. 4.	30. 31.	56. 0.	19. 33
6	17.13.12	5. 11. 30	21.59. 7	23. 1.	30. 56.	56. 48.	20. 25
7	↗ 0.25.27	5. 8. 18	25.19.46	22. 58.	31. 25.	57. 41.	21. 20
8	14. 3.57	4. 49. 16	27.20.32	22. 54.	31. 55.	58. 35.	22. 21
9	28. 7.57	4. 11. 35	27.41.17	22. 51.	32. 22.	59. 25.	23. 25
10	♌ 12.33.46	3. 17. 5	26.11.12	22. 48.	32. 45.	60. 8.	♄
11	27.15.43	2. 8. 34	22.51.13	22. 44.	33. 0.	60. 36.	0. 26
12	≈ 12.6. 21	0. 50. 36	18. 1.12	22. 41.	33. 7.	60. 49.	1. 25
13	26.57.39	0. 30. 59	12.3. 49	22. 38.	33. 5.	60. 45.	2. 18
14	♌ 11.42.21	1. 50. 5	5.29. 16	22. 34.	32. 56.	60. 28.	3. 9
15	26.15. 5	3. 0. 55	1.16. 17	22. 31.	32. 41.	59. 59.	3. 57
16	↖ 10.32. 5	3. 59. 11	7.50. 43	22. 28.	32. 21.	59. 23.	4. 46
17	24.31.36	4. 41. 54	13.54. 1	22. 24.	31. 59.	58. 42.	5. 35
18	♌ 8.12.56	5. 7. 34	19.6. 52	22. 21.	31. 38.	58. 2.	6. 26
19	21.36.48	5. 15. 21	23.17.22	22. 18.	31. 16.	57. 22.	7. 19
20	♎ 4.44. 2	5. 6. 18	26.10.16	22. 14.	30. 55.	56. 45.	8. 13
21	17.36.10	4. 43. 20	27.36.49	22. 11.	30. 37.	56. 12.	9. 8
22	♍ 0.14.33	4. 5. 54	27.31.13	22. 8.	30. 22.	55. 43.	10. 2
23	12.40.44	3. 17. 19	26. 9.21	22. 4.	30. 8.	55. 17.	10. 54
24	24.56. 7	2. 20. 13	23 29. 3	22. 1.	29. 56.	54. 55.	11. 43
25	♏ 7. 2. 5	1. 17. 25	19.48. 7	21. 57.	29. 46.	54. 37.	12. 28
26	19. 0.15	0. 11. 46	15.20.35	21. 54.	29. 39.	54. 22.	13. 10
27	♏ 0.52.23	0. 53. 52	10.20.26	21. 51.	29. 34.	54. 13.	13. 51
28	12.40.50	1. 57. 2	5. 0. 53	21. 47.	29. 33.	54. 10.	14. 30
29	24.28.26	2. 55. 2	0. 29.12	21. 44.	29. 35.	54. 14.	15. 9
30	♌ 6.18.27	3. 45. 50	5. 57.39	21. 40.	29. 40.	54. 24.	15. 49
31	18.14.58	4. 27. 21	11.16.34	21. 37.	29. 51.	54. 44.	16. 31



## JANUARIUS. ☾

Loca Lunæ media nocte.

Congres. ☾ cum fixis &amp; Planet

Dies Mensis.	Longitudo vera. ☾	Latitudo vera. ☾	Diame- ter ☾	Paral- laxis ☾	Dies Mensis.	Nomen & character fixarum & Planetarum.	Tempus verum conjunctionis veræ in longitudinem.		Distantia centri ☾ vera in latitudinem
	S. G. M. S.	G. M. S.	M. S.	M. S.			H. M.	G. M.	
1	♄ 22 0.15	2.37.29	29.39	54.22	1	γ ♀ 5	4	14 0	1 A
2	♁ 3.50.14	3.29.44	29.46	54.37	2	υ ♀ 4	12 3	0 26	B
3	15.53.57	4 15.29	30. 0	55. 3	3	χ ♄ 5	22 38	0 24	A
4	28.10.28	4.46.38	30.21	55.39	4	β ♄ 6	19 51	0 17	B
5	♄ 10.46.32	5. 7.1.	30.43	56.73	5	α ♄ 5	20 43	0 15	A
6	23.46. 5	5.11.54	31.12	57.14	6	π ♄ 3	23 7	0 18	B
7	→ 7.11.24	5. 1.24	31.40	58. 8	7	λ ♄ 5	19 37	0 37	B
8	21.2. 53	4.32.37	32. 9	59. 1	8	μ ♄ 6	5 35	1 7	B
9	♄ 5.18.25	3.46.18	32.34	59.48	9	ν ♄ 5	13 21	1 3	B
10	19.53. 9	2.44.21	32.54	60.24	10	ξ ♄ 3	8 47	1 2	B
11	≈ 4.40.27	1.30.25	33. 5	60.45	11	η ♄ 5	9 51	1 11	B
12	19.32.21	0. 9.50	33. 7	60.49	12	θ ♄ 6	0 41	1 7	B
13	κ 4.21.12	1.11.13	33. 1	60.38	13	ι ♄ 5	2 23	0 42	B
14	19. 0.32	2.26.48	32.48	60.14	14	κ ♄ 6	6 14	0 7	B
15	√ 3.25.44	3.31.51	32.30	59.41	15	λ ♄ 5	3 6	0 53	B
16	17.34. 6	4.22.38	32.10	59. 3	16	μ ♄ 6	14 50	0 9	B
17	♄ 1.24.32	4.56.56	31.49	58.22	17	ν ♄ 5	18 46	0 13	B
18	14.57. 1	5 13.46	31.25	57.41	18	ξ ♄ 6	3 0	0 17	A
19	28 12.23	5.12.51	31. 4	57. 3	19	η ♄ 4	10 47	0 18	A
20	♄ 11.11.55	4. 57.7	30.45	56.28	20	θ ♄ 5	17 1	0 59	B
21	23.57. 0	4.26.10	30.40	55.57	21	ι ♄ 3	22 28	0 39	B
22	♄ 6.29. 7	3.42.51	30.15	55.29	22	κ ♄ 5	11 11	0 7	A
23	18.49.43	2.49.39	30. 2	55. 5	23	λ ♄ 4	19 3	0 21	B
24	♄ 1.0. 12	1.49.20	29.51	54.45	24	μ ♄ 5	5 46	0 29	A
25	13. 2.3	0.44.46	29.41	54.28	25	ν ♄ 5	5 46	0 29	A
26	24.26.56	0.31.10	29.36	54.17	26	ξ ♄ 5			
27	♄ 6.46.55	1.25.56	29.33	54.11	27	η ♄ 5			
28	18.34.33	2.26.47	29.33	54.11	28	θ ♄ 5			
29	0.22.55	3.21.27	29.36	54.17	29	ι ♄ 5			
30	12.15.41	4. 7.52	29.44	54.52	30	κ ♄ 4			
31	24.17.2	4.44. 0	29.57	54.57	31	λ ♄ 5			

# JANUARIUS.

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Phænomena & Observations.

☉ ad g s i r v Ω ω ν β η π  
 ☉ ad c η γ f χ η π  
 ☉ ad ψ β γ α j h η π  
 ad x λ m  
 ad μ ζ αν ν  
 ad j o γ η x θ γ ε b A δ π β m  
 ad δ ω ν α τ η ψ κ γ φ ω Ophioc  
 ad A ε β Ophioc. p b j. α →  
 ad γ μ δ λ θ αν ζ τ o →  
 ☉ ad π ψ χ ε h f ω A  
 ☉ ad h θ & σ β π c ψ τ η γ θ φ  
 ☉ in nodo asc. Perig. & ad ζ is γ δ λ z  
 ☉ ad π φ θ ε σ x λ h z  
 ☉ ad ψ χ φ κ λ κ  
 ad d κ  
 ad δ ε f ζ μ υ η π χ  
 ad j ε γ ε Ceti.  
 ad μ Ceti o μ σ π ρ ε δ ζ τ γ  
 ad Plejades & A ω γ ε δ  
 ad θ x ε α τ j η γ  
 ad β ζ γ H o  
 ad η ρ υ γ ε ω ζ m π  
 ad η δ λ A r u x i φ π  
 ☉ ad ψ μ ζ λ υ η c s γ δ ε θ  
 ☉ in nodo descendente & ad α ξ x σ  
 ☉ ad ψ ο υ η π α A Ω  
 ad j r l c χ o d R  
 ☉ Apogea & ad p σ r τ v Ω ω ν β η π  
 ☉ ad v c η η π  
 ☉ ad γ χ ψ θ η π  
 ☉ ad i α j h m m

Phases ☾

3 Ultimus Quadrans h. 8. m. 4. in Δ gr. 13. m. 56.  
 10 Novilunium h. 14. m. 19. in ♃ gr. 21. m. 20.  
 17 Primus Quadrans h. 6. m. 19. in γ gr. 28. m. 8.  
 24 Plenilunium h. 21. m. 46. in R gr. 5. m. 54.

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Phænomena & Observations Planetarum.

♃ ad γ ζ h. 7. m. 34. dist. centr. ♀ 45. m. Bor.  
 ♃ ad δ ζ hor. 18. m. 24. dist. centr. ♀ 49. m. Bor.  
 ♃ ad j ζ hor. o. m. 39. dist. centr. ♀ 24. m. Bor.  
 ♃ in digressionē maxima.  
 ♃ ad β Ophioc hor. 17. m. 51. dist. centr. ♂ 1. gr. m. 36. Bor.  
 ♃ ad β ζ hor. 6. m. 52. dist. centr. ♂ 54. m. Bor.  
 ♃ ad B Ophioc h. 1. m. 7. dist. centr. ♂ 41. m. Bor.  
 ♃ ad σ ≈ hor. 12. m. 40. dist. centr. ♀ 19. m. Austr.  
 Conjunction ♃ & ☉.  
 ♃ ad λ ≈ hor. 12. m. 56. dist. centr. π 41. m. Austr.  
 ♃ Stationarius.  
 ♃ ad λ ≈ hor. 15. m. 40. dist. centr. ♀ 56. m. Austr.  
 π ad ♀ hor. 2. m. 2. dist. centr. π 14. m. Bor.  
 ♃ ad χ ≈ hor. 2. m. 0. dist. centr. ♀ 1. gr. 0. m. Austr.  
 ♃ ad φ ≈ hor. 3. m. 40. dist. centr. ♀ 2. m. Austr.  
 Conjunction ♃ & ☉ inferior.

Planeta in parallelis fixarum.

♃ in radius solaribus.  
 ♃ 27. ad 15 in parallelo Spic. ηπ. a 25 ad finem in β α.  
 ♃ 1 β Corvi. 2. 3. β Corvi γ Leporis. 4. 5. γ Leporis. 6. 7. γ Leporis. 2. υ = 8. 9. 10. 1 υ. 2 υ. = 11. 12. 1 υ. → ζ δ 13. 14. 15. 16. ζ δ π m. 17. 18. ζ δ π m Argonav. 19. 20. π. 11. Argou α 21. ad finem in parallelo Argonavis, b → dupl.  
 ♃ 1. 2. α Crateris. 3. 4. Syrius. 5. 6. η Ophioc. 7. 8. π Ceti 10. ψ α 12. ε Ceti. 14. 15. 1 m 17. ε ≈ 18. Spic. ηπ 19. β Ceti 20. χ ≈ 21. Rigel 22. 23. α Hydræ. 27. λ Antinoi 29. β m. 30. o Ceti mut. 31. o ≈  
 ♃ 1. β Corvi. 4. η Ophioc. 5. ε. 7. λ. α 8. β m 10. ♃. 12. ε Ceti. 14. Syrius 16. β α 19. η Ophioc.

## JANUARIUS.

Dies Mensis.	Ortus Planetarum apparens.		Tempus venerationis Planetarum.		Longitudo Planetarum Sole culminante.		Latitudo Planetarum Sole culminante.		Declinatio Planetarum Sole culminante.		Occasus Planetarum apparens.	
	H.	M.	H.	M.	G.	M.	G.	M.	G.	M.	H.	M.

## ♄ Saturnus.

1	20	36	0	56	24	44	0	A 11	21	A 23	5	16
7	20	13	0	33	25	25	0	11	21	16	4	53
13	19	49	0	10	26	8	0	12	21	8	4	31
19	19	22	23	44	26	50	0	12	21	1	4	6
25	18	58	23	21	27	33	0	13	20	52	3	44

## ♃ Jupiter.

1	22	25	3	40	5	26	1	A 5	10	A 33	8	55
7	22	0	3	18	6	35	1	5	10	6	8	36
13	21	37	2	57	7	48	1	4	9	39	8	17
19	21	15	2	36	9	4	1	4	9	10	7	57
25	20	52	2	15	10	22	1	3	8	40	7	38

## ♂ Mars.

1	17	31	21	46	10	43	0	A 5	22	A 11	2	1
7	17	27	21	38	15	0	0	9	22	47	1	49
13	17	22	21	31	19	17	0	13	23	16	1	40
19	17	17	21	24	23	36	0	17	23	36	1	31
25	17	13	21	18	27	56	0	22	23	49	1	23

## ♀ Venus.

1	21	49	2	31	17	10	1	A 48	17	A 25	7	13
7	21	39	2	33	24	28	1	41	14	58	7	27
13	21	27	2	34	1	45	1	32	12	18	7	41
19	21	16	2	36	8	59	1	18	9	24	7	56
25	21	3	2	37	16	9	1	2	6	25	8	11

## ☿ Mercurius.

1	20	59	1	14	28	32	1	A 46	22	A 13	5	29
7	20	50	1	20	6	33	0	55	19	33	5	50
13	20	27	1	12	11	26	0	B 31	16	53	5	57
19	19	48	0	40	10	26	2	18	15	26	5	32
25	18	48	23	38	3	53	3	32	15	52	4	28

# JANUARIUS.

## *Eclipses Satellitum Jovis.*

I. SATELLES.			II. SATELL.			III. SATELL.		
Dies Civitas	Emerfiones.		Dies Civitas	Emerfiones.		Dies Civitas	Emerfiones.	
	H.	M. S.		H.	M. S.		H.	M. S.
2	0 29	49 V	21	II 40	44 V	1	4. 0.44	VIm.
4	6 57	58M	23	6 9	9 V	1	7.*7.40	VEm.
6	1 26	5M	25	0 37	40V	8	8.*0.12	VIm.
7	7*54	18 V	27	7 6	11M	8	II. 6. 6	VEm.
9	2 22	29 V	29	1 34	45M	16	0. 0. 7	MIm.
11	8 50	45M	30	8 3	22 V	16	3. 4.57	MEm.
13	3 18	58M				16	3. 4.57	MEm.
14	9 47	17 V				23	4. 0.34	MIm.
16	4 15	36 V				23	7. 4.22	MEm.
18	10 43	56M				30	8. 1.37	MIm.
20	5 12	19M				30	II. 4.22	MEm.
IV. SATELL.								
						1	1.24.16	MEm.
						18	3.35.57	M.Im.
						18	7.31.37	MEm.





# FEBRUARIUS. ☉

Dies Aethiopi.	Dies Graeci Civil.	Dies Hebraeorum.	FEBRUAR.	Tempus medium Meridiei veri ☉			Decrementum diurnum temporis med	Distantia ☉ V Meridiano.			Acceleratio diurna Stellarum fixarum praemotum ☉ vero.		
				H. M. S. D.	S. D.	H. M. S. D.		M. S. D.	M. S. D.				
31	1	Chart.	S. Ignatius M.	0.14. 7.0	6. 8	2.57.42. 9							
32	2	Merc.	Purifi. B. V. M.	0.14. 13.8	6. 0	2.53.39. 5	4.	3.	4				
33	3	Jov.	S. Blasius	0.14. 19.8	5. 2	2.49.37. 0	4.	2.	5				
34	4	Ven.	S. Veronica	0.14. 25.0	4. 5	2.45.35. 2	4.	1.	8				
35	5	Sab.	S. Agatha V.	0.14. 29.5		2.41.34. 2	4.	1.	6				
				0.14. 33.1	3. 6	2.37.33. 9	4.	C.	3				
36	6	B. Dom.	Quinquagesima	0.14. 36.0	2. 9	2.33.34. 6	3.	59.	3				
37	7	Lun.	S. Romualdus	0.14. 38.1	2. 1	2.29.35. 8	3.	58.	8				
38	8	Mart.	S. Joan. de M.	0.14. 39.4	1. 3	2.25.38. 0	3.	57.	8				
39	9	Merc.	Dies Cinerum	0.14. 39.9	0. 5	2.21.41. 0	3.	57.	0				
40	10	Jovis	S. Scholastica	0.14. 39.6	0. 3	2.17.44. 7	3.	56.	3				
41	11	Ven.	S. Euphrosina	0.14. 38.5	1. 1	2.13.49. 2	3.	55.	5				
42	12	Sab.	S. Eulalia V.										
				0.14. 36.6	1. 9	2. 9.54. 6	3.	54.	6				
43	13	B. Dom.	1. Quadragesim.	0.14. 34.1	2. 5	2. 6. 0. 5	3.	54.	1				
44	14	Lun.	S. Valentinus	0.14. 30.7	3. 4	2. 2. 7. 4	3.	53.	1				
45	15	Mart.	SS. Fau & Jov.	0.14. 26.6	4. 1	1.58.14. 8	3.	52.	6				
46	16	Merc.	Quat. Temp. †	0.14. 21.8	4. 8	1.54.23. 2	3.	51.	6				
47	17	Jovis	S. Julianus	0.14. 16.2	5. 6	1.50.32. 2	3.	51.	0				
48	18	Ven.	S. Flavianus †	0.14. 9.9	6. 3	1.46.41. 8	3.	50.	4				
49	19	Sab.	S. Gabinus †		6. 9		3.	49.	6				
				0.14. 3.0	7. 5	1.42.52. 2							
50	20	B. Dom.	2. Quadrag.	0.13. 55.5	8. 3	1.39. 3. 3	3.	48.	9				
51	21	Lun.	S. Eleonora	0.13. 47.2	8. 9	1.35.15. 0	3.	48.	3				
52	22	Mart.	Cath. S. Petri	0.13. 38.3	9. 4	1.31.27. 3	3.	47.	7				
53	23	Merc.	S. Eberhardus	0.13. 28.9	10. 1	1.17.40. 3	3.	47.	0				
54	24	Jovis	S. Math. Ap.	0.13. 18.8	10. 7	1.23.53. 9	3.	46.	4				
55	25	Ven.	S. Victorinus	0.13. 8.1		1.20. 8. 0	3.	45.	9				
56	26	Sab.	S. Anastasia										
				0.12. 56.9	11. 2	1.16.22. 6	3.	45.	4				
57	27	B. Dom.	3. Quad. S. Lean.	0.12. 45.2	11. 7	1.12.37. 8	3.	44.	8				
58	28	Lun.	S. Romanus.										



## FEBRUARIUS ○

*Solis in Meridiano versantis.*

Dies Mensis.	Longitudo vera. <i>zod.</i>	Motus horarius verus.	Ascensio recta.	Ascensio recta conversa in tempus.	Declinatio ve- ra Australis.	Altitudo centri ☉ vera.
	G. M. S.	M. S. D.	G. M. S.	l. M. S. D.	G. M. S.	G. M. S.
1	13. 5.55	2. 32. 0	315.34.16.	21. 2.17.1	16.54.21.	24.53. 2.
2	14. 6.44	2. 32. 0	316. 35.7.	21. 6.20.5	16.36.55.	25.10.29.
3	15. 7.32	2. 31. 9	317.35.45.	21.10.23.0	16.19.10.	25.28.14.
4	16. 8.20	2. 31. 9	318.36.12.	21.14.24.8	16. 1. 9.	25.46.13.
5	17. 9. 7	2. 31. 8	319.36.27.	21.18.25.8	15.42.50.	26. 4.34.
6	18. 9.52	2. 31. 8	320.36.31.	21.22.26.1	15.24.17.	26.23. 7.
7	19.10.37	2. 31. 7	321.36.21.	21.26.25.4	15. 5.26.	26.41.58.
8	20.11.20	2. 31. 7	322.36. 3.	21.30.24.2	14.46.21.	27. 1. 3.
9	21.12. 1	2. 31. 6	323.35.30.	21.34.22.0	14.27. 2.	27.20.22.
10	22.12.42	2. 31. 6	324.34.45.	21.38.19.0	14. 7.28.	27.39.56.
11	23.13.22	2. 31. 5	325.33.49.	21.42.15.3	13.47.39.	27.59.45.
12	24.13.59	2. 31. 5	326.32.42.	21.46.10.8	13.27.37.	28.15.47.
13	25.14.34	2. 31. 4	327.31.21.	21.50. 5.4	13. 7.23.	28.40. 1.
14	26.15. 7	2. 31. 3	328.29.52.	21.53.59.5	12.46.56.	29. 0.23.
15	27.15.39	2. 31. 3	329.28. 9.	21.57.52.6	12.26.17.	29.21. 7.
16	28.16. 8	2. 31. 2	330.26.18.	22. 1.45.4	12. 5.26.	29.41.58.
17	29.16.36	2. 31. 2	331.24.12.	22. 5.36.8	11.44.22.	30. 3. 2.
18	0. 17.1	2. 31. 1	332.21.57.	22. 9.27.8	11.23.10.	30.24.14.
19	1.17.25	2. 31. 0	333.19.23.	22.13.18.2	11. 1.45.	30.45.39.
20	2.17.47	2. 31. 0	334.16.57.	22.17. 7.8	10.40.11.	31. 7.13.
21	3.18. 6	2. 30. 9	335.14.10.	22.20.56.7	10.18.27.	31.28.57.
22	4.18.24	2. 30. 8	336.11.15.	22.24.45.0	9.56.33.	31.50.51.
23	5.18.39	2. 30. 8	337. 8.10.	22.28.32.7	9.34.32.	32.12.52.
24	6.18.53	2. 30. 7	338. 4.55.	22.32.19.7	9.12.21.	32.35. 3.
25	7.19. 6	2. 30. 6	339. 1.31.	22.36. 6.1	8.50. 2.	32.57.22.
26	8.19.17	2. 30. 6	339.58.0.	22.39.52.0	8.27.35	33.19.49.
27	9.19.26	2. 30. 5	340.54.21.	22.43.37.4	8. 5. 0.	33.42.24.
28	10.19.33	2. 30. 4	341.50.53.	22.47.22.2	7.42.19.	34. 5. 5.

## FEBRUARIUS. ☉

*Solis in Meridiano versantis.*

Dies Mensis.	Diameter ☉ apparens.		Mora transitus disci ☉ per me- ridianum		Distantia ☉ & ♂ distant. med. 10000.	Ortus Centri ☉ verus.	Occi- sus centri ☉ verus.	Dies Mensis.	Phænomena & Observationes ☉
	M. S. D.	M. S. D.	H. M.	H. M.					
1	32.33. 6	2.16. 2	9860.	19.21	4. 39				
2	32.33. 3	2.16. 0	9861.	19.18	4. 42				
3	32.33. 0	2.15. 8	9862.	19.16	4. 44	2	☉ in parallelo Syrii culm. h. 9. m. 23.		
4	32.32. 6	2.15. 5	9864.	19.15	4. 45				
5	32.32. 2	2.15. 4	9865.	19.13	4. 47	3	☉ in parallelo γ Corvi culm. h. 14. m. 52.		
6	32.31. 9	2.15. 1	9866.	19.12	4. 48	6	☉ in parallelo δ Corvi culm. h. 14. m. 46.		
7	32.31. 6	2.14. 9	9868.	19.11	4. 49				
8	32.31. 2	2.14. 7	9870.	19. 9	4. 51		☉ in parallelo α Δ culm. h. 17. m. 14.		
9	32.30. .	2.14. 5	9873.	19. 8	4. 52				
10	32.30. 1	2.14. 2	9875.	18. 6	4. 54	1	☉ in parallelo γ Eridiaui culm. h. 6. m. 9.		
11	32.29. 8	2.14. 0	9877.	19. 5	4. 55		☉ in parallelo γ Δ culm. h. 17. m. 42.		
12	32.29. 5	2.13. 8	9879.	19. 3	4. 57				
13	32.29. 2	2.13. 6	9881.	19. 1	4. 59	14	☉ in parallelo ε Ceti culm. h. 4. m. 34.		
14	32.28. 8	2.13. 4	9883.	19. 0	5. 0				
15	32.28. 5	2.13. 2	9885.	18.58	5. 2	15	☉ in parallelo λ η culm. h. 16. m. 7.		
16	32.28. 1	2.13. 0	9888.	18.56	5. 4	17	Ingressus ☉ in o ( h. 17. m. 14.		
17	32.27. 6	2.12. 8	9890.	18.54	5. 6				
18	32.27. 0	2.12. 6	9892.	18.52	5. 8	30	☉ parallelo δ Eridani culm. h. 5. m. 15.		
19	32.26. 6	2.12. 4	9894.	18.51	5. 9				
20	32.26. 0	2.12. 2	9897.	18.49	5. 11	21	☉ in parallelo Spicz η culm. h. 14. m. 51.		
21	32.25. 6	2.12. 0	9898.	18.47	5. 13	22	☉ in parallelo x Orionis culm. h. 7. m. 12.		
22	32.25. 2	2.11. 9	9900.	18.46	5. 14				
23	32.24. 6	2.11. 8	9903.	18.44	5. 16	25	☉ in parallelo β Δ culm. h. 16. m. 27.		
24	32.24. 2	2.11. 6	9905.	18.42	5. 18				
25	32.23. 6	2.11. 4	9908.	18.41	5. 19	26	☉ in parallelo Rigel culm h. 6. m. 24.		
26	32.23. 2	2.11. 2	9910.	18.39	5. 21	38	☉ in parallelo α Hydra culm h. 10. m. 28.		
27	32.22. 7	2.11. 0	9913.	18.37	5. 23				
28	32.22. 3	2.10. 8	9915.	18.36	5. 24				

## FEBRUARIUS. ☽

Loca ☽ in Meridiano verjante.

Dies Mensis	Longitudo vera. ☽	Latitudo vera. ☽	Declinatio vera ☽	Nodus ascendens ☽	Diameter ☽ horizon- talis.	Paralla- xis ☽ horizon- talis.	Tempus verum culmin. ☽	
	S. G. M. S.	G. M. S.	G. M. S.	G. M.	M. S.	M. S.	H. M.	
		A	A.	=				
1	♌ 0.22.14	4.57.33	16.16.9	21.33.	30.5	55.13	17	16
2	12.44.33	5.14.56	20.41.21	21.30.	30.26	55.51	18	5
3	25.26.30	4.16.55	24.18.27	21.27.	30.53	56.39	18	59
4	♋ 8.31.49	5.4.3	26.47.26	21.24.	31.23	57.34	19	57
5	22.3.21	4.33.35	27.46.37	21.20.	31.53	58.31	20	57
6	♌ 6.2.18	3.46.7	27.2.26	21.17.	32.23	59.28	21	59
7	20.27.34	2.43.5	24.37.32	21.14.	32.51	60.19	23	0
8	= 5.15.16	1.27.38	20.25.15	21.11.	33.12	60.59	23	57
9	20.18.41	0.4.47	14.49.43	21.8.	33.25	61.22		♌
		B.						
10	♌ 5.28.58	1.18.58	8.17.51	21.4.	33.27	61.26	0	51
11	20.36.32	2.36.56	1.19.46	21.1.	33.18	61.11	1	43
		B.						
12	♍ 5.32.22	3.43.4	5.37.33	20.58.	33.2	60.39	2	34
13	20.0.28	4.33.9	12.6.45	20.55.	32.38	59.56	3	25
14	♌ 4.26.24	5.4.57	17.47.45	20.52.	32.11	59.5	4	17
15	18.12.21	5.17.39	22.23.23	20.48.	31.42	58.11	5	10
16	♌ 1.36.39	5.13.7	25.38.16	20.44.	31.15	57.21	6	6
17	14.38.8	4.52.8	27.27.22	20.40.	30.50	56.35	7	1
18	27.19.40	4.17.15	27.42.5	20.37.	30.27	55.53	7	56
19	♌ 9.44.37	3.30.57	26.38.33	20.34.	30.10	55.20	8	49
20	21.56.26	2.35.48	24.16.25	20.30.	29.56	54.54	9	36
21	♌ 3.58.20	1.34.29	20.49.32	20.27.	29.44	54.33	10	25
22	15.53.21	0.29.37	16.35.13	20.24.	29.38	54.19	11	8
		A.						
23	27.43.55	0.36.4	11.43.15	20.21.	29.33	54.10	11	49
24	♍ 9.32.23	1.39.55	6.27.48	20.18.	29.30	54.6	12	29
25	21.20.49	2.39.24	0.59.53	20.14.	29.30	54.7	13	9
		A.						
26	♌ 3.11.12	3.32.8	4.30.29	20.11.	29.35	54.14	13	49
27	15.5.44	4.15.56	9.52.23	20.8.	29.40	54.26	14	30
28	27.7.0	4.48.46	14.56.47	20.5.	29.51	54.46	15	14

## F E B R U A R I U S. ☾

*Loca Lunæ media nocte.**Congresſus cum fixis & Planet.*

Dies Mensis.	Longitudo vera.	Latitudo vera.	Diameter horizontalis.	Parallax. horizontalis.	Dies Mensis.	Nomen & Character fixarum & Planetarum.	Tempus verum conjunctiois vera in longitud.		Distantia centri vera in latitudin.	
	S. G. M. S.	G. M. S.	M. S.	M. S.			H. M.	G. M.		
		A.								
1	m 6.31.15	5. 8. 0	30. 15.	55. 31.	8	b m 6	4	57	0	11B
2	19. 2.53	5.17.47	30. 39.	56. 14.		π m 3	8	15	0	13B
3	↗ 1.56. 2	5.12.51	31. 7.	57. 6.		τ m 4	23	52	1	1B
4	15.14.10	4.50.59	31. 38.	58. 2.	14	μ v 6	12	0	1	9F
5	28.59.34	4.11.56	32. 9.	59. 0.		ε v 5	19	16	1	5B
6	↘ 13.11.49	3.16.23	32. 38.	59. 55.	15	b Plej. 3	14	41	1	5B
7	27.48.58	2. 6.37	33. 2.	60. 41.		η Plej. 3	15	44	1	13B
8	≈ 12.45.32	0.46.44	33. 19.	61. 13.	16	p θ 6	1	56	0	5A
		B.				χ θ 5	6	27	1	9B
9	27.53.35	0.37.24	33. 27.	61. 26.	19	η □ 6	3	9	0	42B
10	∞ 13. 3.42	1.59. 4	33. 24.	61. 20.		A □ 5	12	2	0	8B
					20	μ θ 5	9	4	0	57A
11	28. 6.25	3.11.48	33. 10.	60. 56.		η θ 6	20	54	0	10B
12	v 12.53.36	4.10.19	32. 51.	60. 19.	21	c θ 5	0	52	0	14I
13	27.19.30	4.51.25	32. 25.	59. 31.	22	ψ Ω 6	9	19	0	15A
14	♄ 11.21. 3	5.13.47	31. 56.	58. 38.		v Ω 4	17	8	0	12A
15	24.57.32	5.17. 4	31. 28.	57. 46.		A Ω 5	23	23	0	51F
16	□ 8.10 7	5. 4.30	31. 2.	56. 57.	24	d Ω 5	4	50	0	40I
17	21. 1.12	4.36.17	30. 37.	56. 13.		r Ω 5	17	35	0	7A
18	♁ 3.34. 0	3.55.32	30. 18.	55. 35.	25	v Ω 4	1	25	0	21B
19	15.51.57	3. 3.20	30. 2.	55. 6.						
20	27.58.25	2. 5.44	29. 49.	54. 43.						
21	Ω 9.56.32	1. 2.19	29. 40.	54. 26.						
		A.								
22	21.49. 3	0. 3.16	29. 34.	54. 13.						
23	♁ 3.38.18	1. 8.22	29. 31.	54. 7.						
24	15.26.30	2.10.21	29. 31.	54. 6.						
25	27.15.38	3. 6.45	29. 33.	54. 10.						
26	♁ 9. 7.45	3.55.15	29. 38.	54. 19.						
27	21. 5.22	4.33.49	29. 45.	54. 35.						
28	m 3.10.58	5. 0.39	29. 57.	54. 58.						



# FEBRUARIUS.

Dies Mens.

Phænomena & Observationes ☽

- 1 ☽ ad  $\kappa \lambda \mu \nu \alpha \sigma \Delta$ .
- 2 ad  $\nu \iota \omicron \zeta \gamma \eta \kappa \alpha$ .
- 3 ad  $\vartheta \lambda \Delta \beta \alpha \pi \delta \beta \omega \nu \tau \mu \psi \alpha$   
 $\chi \phi$  Ophiuc.
- 4 ☽ ad  $A \rho \vartheta B$  Ophiuc
- 5 ad  $p \iota \alpha \gamma \mu \epsilon \lambda \rightarrow$ .
- 6 ☽ ad  $\delta$  et  $\vartheta \sigma \zeta \tau \pi \psi \chi \rho \rightarrow$ .
- 7 ☽ ad  $h \delta$  et  $\omega A \rightarrow \sigma \beta \pi \rho \psi \delta$
- 8 ☽ ad  $\kappa \chi \vartheta \zeta \iota \epsilon \kappa \gamma \chi$ .
- 9 ☽ in nodo ascendente ☽ Perigæa et  $\lambda \mu \vartheta \rho \rightarrow$ .
- 10 ☽ ad  $\pi$  et  $\kappa \lambda h \psi \chi \phi \approx$ .
- 11 ☽ ad  $\lambda \kappa$ .
- 12 ☽ ad  $\varphi$  et  $\vartheta \rho \epsilon \zeta \mu \kappa$ .
- 13 ☽ ad  $\nu \kappa \pi \omicron \chi \xi$  Ceti  $\xi \gamma$ .
- 14 ☽ ad  $\mu$  Ceti  $\mu \sigma \rho \delta \nu$ .
- 15 ☽ ad  $\zeta \tau \nu$  Plejades et  $A \gamma$ .
- 16 ☽ ad  $\omega \nu \delta \vartheta \chi \epsilon \alpha \tau \delta$ .
- 17 ☽ ad  $l \eta \beta \zeta \chi$ .
- 18 ☽ ad  $H \eta \mu \nu \nu \sigma \Pi$ .
- 19 ☽ ad  $\omega \zeta \eta \delta \lambda \rho \nu \alpha \kappa \Pi$ .
- 20 ☽ ad  $\omega \psi \mu \zeta \lambda \nu \eta \sigma \gamma$ .
- 21 ☽ ad  $c \epsilon \nu \lambda \alpha \xi \kappa \sigma \gamma$ .
- 22 ☽ in nodo descendente ☽ ad  $\omega \xi \psi \omicron \nu$   
 $\eta \pi \alpha A \Omega$ .
- 23 ☽ ad  $j \zeta l \Omega$ .
- 24 ☽ Apogæa et ad  $c \chi \nu \delta \sigma \tau \tau \epsilon \Omega$   
 $\omega \nu \pi \rho$ .
- 25 ☽ ad  $\beta \nu \chi \eta \pi \rho$ .
- 26 ☽ ad  $\nu \epsilon \psi \pi \rho$ .
- 27 ☽ ad  $\vartheta \iota \alpha j h \pi \rho$ .
- 28 ☽ ad  $\kappa \lambda \pi \rho$ .

Phases Lunæ.

- 2 Ultimus Quadrans h. 2. m. 48. in  
m gr. 14. m. 14.
- 9 Novilunium h. 1. m. 30. in  $\approx$  gr. 21.  
m. 16.
- 15 Primus Quadrans h. 17. m. 32. in  $\vartheta$   
gr. 28. m. 0.
- 23 Plenilunium h. 16. m. 50. in  $\pi \rho$  gr.  
6. m. 1.

Dies Mens.

Phænomena & Observationes Planetarum. ☿

- 1 ☽ ad  $\lambda \rightarrow$  hor. 9. m. 49. dist. centr.  $\delta$   
1. gr. 37. m. Bor.
- 2 Stationarius.
- 3 ☽ ad  $\phi \approx$  hor. 12. m. 0. dist centr.  $\pi$   
1. m. Austr.
- 4 ☽ ad  $\sigma \zeta$  h. 11. m. 30. dist. centr.  $\vartheta$   
26. m. Bor.
- 5 ☽ ad  $h$  hor. 14. m. 30. dist. centr.  $\vartheta$   
1. gr. 7. m. Bor.
- 6 ☽ ad  $s \chi$  h. 8. m. 3. dist. centr.  $\vartheta$   
32. m. Austr.
- 7 ☽ ad  $i \chi \rightarrow$  h. 3. m. 49. dist. centr.  $\delta$   
1. gr. 44. m. Bor.
- 8 ☽ ad  $2 \chi \rightarrow$  hor. 5. m. 27. dist. centr.  $\delta$   
1. gr. 39. m. Bor.
- 9 ☽ in directione maxima.
- 10 ☽ ad  $\chi \chi$  h. 10. m. 2. dist. centr.  $\vartheta$   
50. m. Bor.
- 11 ☽ ad  $\pi \chi$  h. 17. m. 49. dist. centr.  $\vartheta$   
38. m. Austr.

Planetæ in parallelis fixarum.

h in radiis solaribus.  
 $\pi$  in radiis solaribus.  
 $\delta$  1. 2. 3. 4. 5. 6. 7. 8.  $\beta$  Ophiuch. Argonav.  
 9. 10. 11. 12.  $\rho$   $\mu$   $\alpha$  Corvi 13. 14. 15.  $\zeta$   
 $\eta$   $\alpha$  Corvi  $\pi$  m. 18. 19. 20. 21. 22. 23. 1.  $\nu$   
 $\rightarrow$  24. ad finem  $\gamma$  Leporis.  
 $\vartheta$   $\tau$   $\mu$  serp. 2.  $\zeta$  Orion. 3.  $i$  Antinoi. 4.  $\eta$   
 $\approx$  5.  $\beta$  Ceti 6.  $\gamma$ .  $\pi$  10.  $\alpha$  (11.  $\beta$   $\chi$  15.  
 c.  $\pi$  17. Procyon. 18.  $\gamma$  Orion. 20.  $\alpha$  ser-  
 pent. 22.  $\alpha$  Aquil. 25.  $\beta$  Cephei. 26.  $\gamma$   
 Aquil.  
 $\vartheta$  1. 2.  $\gamma$   $\zeta$  3.  $\beta$  can. maj.  $\alpha$  Lepor. 6. 7. 19.  $\delta$   
 8. 9. 10.  $\zeta$   $\nu$   $\pi$   $\kappa$   $\Delta$  10  $\nu$   $m$   $\kappa$   $\Delta$  11  $\nu$   $m$   $\kappa$   $\Delta$   
 $\beta$  Ceti 13.  $m$  a 12. ad 20.  $\beta$  Ceti 13  
 $m$  21. 22.  $\nu$   $m$  19.  $\zeta$  21.  $\vartheta$   $\delta$   $\alpha$  Lepor.  
 24.  $\vartheta$   $\delta$   $\alpha$  Lepor.  $\beta$  Can. maj. 27.  $\beta$  Can.  
 maj.



## FEBRUARIUS.

Dies Mensis.	Ortus Planetarum apparent.		Tempus verum culminationis Planetarum.		Longitudo Planetarum Sole culminante.		Latitudo Planetarum Sole culminante.		Declinatio Planetarum Sole culminante.		Occasus Planetarum apparent.	
	H.	M.	H.	M.	G.	M.	G.	M.	G.	M.	H.	M.

## ♄ Saturnus.

1	18	32	22	56	28	22	♄ A 12	20	A 43	3	20
7	18	10	23	35	29	4	♄ 13	20	35	3	0
13	17	49	22	14	29	44	♄ 13	20	27	2	29
19	17	27	21	54	♄	23	♄ 14	20	19	2	20
25	17	7	21	34	1	1	♄ 14	20	11	2	1

## ♃ Jupiter.

1	20	25	1	52	11	56	♃ A 3	8	A 4	7	19
7	20	4	1	33	13	19	♃ 3	7	32	7	2
13	19	44	1	15	14	43	♃ 3	6	59	6	46
19	19	23	0	57	16	8	♃ 3	6	26	6	31
25	19	4	0	40	17	35	♃ 2	5	52	6	16

## ♂ Mars.

1	17	5	21	10	3	1	♂ A 27	23	A 53	1	15
7	17	0	21	5	7	23	♂ 31	23	47	1	10
13	16	54	21	1	11	48	♂ 36	23	32	1	8
19	16	48	20	57	16	12	♂ 41	23	9	1	6
25	16	41	20	53	20	38	♂ 46	21	32	1	5

## ♀ Venus.

1	20	43	2	38	24	27	♀ A 38	2	A 47	8	28
7	20	33	2	39	1	28	♀ 15	0	B 21	8	45
13	20	22	2	41	3	25	♀ B 9	3	20	9	0
19	20	9	2	42	15	16	♀ 36	6	35	9	15
25	19	57	2	43	21	59	♀ 5	9	35	9	29

## ☿ Mercurius.

1	18	5	22	46	17	5	♿ B 16	17	A 34	3	27
7	17	48	22	22	26	14	♿ II	18	47	2	56
13	17	43	22	14	29	15	♿ 0	19	22	2	45
19	17	44	22	16	4	41	♿ A 3	19	11	2	44
25	17	45	22	23	11	38	♿ 58	18	15	3	1

## F E B R U A R I U S.

Jove prope Solem versante, Satellites vi-  
deri nequeunt.

## MARTIUS. ○

Dies Aëron.	Dies Mens. Civilit.	Dies Hebdomad.	MARTIUS.	Tempus me- dium Meri- diei veri.	Decre- men- tum di- urnum Tempo- ris merid.	Distantia o V a Meridiano.	Accelerat. diurna stellarum fixarum præ motu ☉ vero.
				H. M. S. D.	S. D.	H. M. S. D.	M. S. D.
59	1	Mart.	S. Albinus	0.12.33. 1	12. 7	I. 8.53.4	3. 43. 8
60	2	Merc.	S. Simplicius	0.12.20. 4	13. 1	I. 5. 9.6	3. 43. 3
61	3	Jovis	S. Cunegund.	0.12. 7. 3	13. 6	I. 1.26.3	3. 42. 9
62	4	Ven.	S. Caſimirus	0.11.53. 7	14. 0	0.57.43.4	3. 42. 6
63	5	Sab.	SS.Euf. & ſoc.	0.11.39. 7	14. 3	0.54. 0.8	3. 42. 2
	6	B.Dom.	4. Quadrageſ.	0.11.25. 4	14. 8	0.50.18.6	
64	7	Lun.	S. Thom. Aqu.	0.11.10. 6		0.46.36.8	3. 41. 8
65	8	Mart.	S. Joan. de Deo	0.10.55. 5	15. 1	0.42.55.4	3. 41. 4
66	9	Merc.	S. Francisca	0.10.40. 2	15. 5	0.39.14.4	3. 41. 0
67	10	Jov.	SS. 40 Mart.	0.10.24. 1	15. 9	0.35.33.8	3. 40. 6
68	11	Ven.	S. Cathar. Ron.	0.10. 7. 9	16. 2	0.31.53.5	3. 40. 3
69	12	Sab.	S. Gregor. P.	0. 9.51. 5	16. 4	0.28.13.4	3. 40. 1
					16. 7		3. 39. 8
					17. 0		
71	13	B.Dom.	Dom. Paſſionis	0. 9.34. 8		0.24.33.6	3. 39. 5
72	14	Lun.	S. Mathildis	0. 9.17. 8		0.20.54.1	3. 39. 2
73	15	Mart.	S. Longinus	0. 9. 0. 5	17. 3	0.17.14.9	3. 39. 0
74	16	Merc.	S. Heribertus	0. 8.42. 9	17. 6	0.13.35.9	3. 38. 7
75	17	Jov.	S. Gertrudis	0. 8.25. 2	17. 7	0. 9.57.2	3. 38. 6
76	18	Ven.	Fest.7.dol.B.V	0. 8. 7. 3	17. 9	0. 6.18.6	3. 38. 4
77	19	Sab.	S. Joſephus	0. 7.49. 1	18. 2	0. 2.40.2	3. 38. 3
					18. 3		
					18. 4		
78	20	B.Dom.	Palmarum	0. 7.30. 8		23.59. 1.9	3. 38. 1
79	21	Lun.	S. Benedictus	0. 7.12. 4		23.55.23.8	3. 37. 9
80	22	Mart.	S. Octavia	0. 6.53. 8	18. 6	23.51.45.9	3. 37. 8
81	23	Merc.	S. Viſtorian.	0. 6.35. 2	18. 6	23.48. 8.1	3. 37. 9
82	24	Jovis	Cœna Domini	0. 6.16. 5	18. 7	23.44.30.2	3. 37. 7
83	25	Ven.	Paraſceve	0. 5.57. 8	18. 7	23.40.52.5	3. 37. 8
84	26	Sab.	Sabbathum S.	0. 5.39. 0	18. 8	23.37.14.7	3. 37. 7
					18. 8		
					18. 7		
85	27	B.Dom.	Paſcha.	0. 5.10. 2		23.33.37.0	3. 37. 8
86	28	Lun.	II. Paſchat.	0. 5. 1. 5		23.29.59.2	3. 37. 8
87	29	Mart.	S. Cyrellus	0. 4.42. 8	18. 7	23.26.21.4	3. 37. 9
88	30	Merc.	S. Quirinus	0. 4.24. 2	18. 6	23.22.43.5	3. 38. 0
89	31	Jov.	S. Amos Pr.	0. 4. 5. 7	18. 5	23.19. 5.5	

## M A R T I U S. ○

*Solis in Meridiano versantis.*

Dies Mensis	Longitudo vera. X			Motus horarius verus.			Ascensio recta.			Ascensio recta conversa in tempus.			Declinatio vera Australis			Altitudo Centri vera.			
	G.	M.	S.	M.	S.	D.	G.	M.	S.	H.	M.	S.	D.	G.	M.	S.	G.	M.	S.
1	11.	19.	39	2.	30.	1	342.	46.	39.	22.	51.	6.	6	7.	19.	21	34.	27.	53
2	12.	19.	43	2.	30.	0	343.	43.	36.	22.	54.	50.	4	6.	56.	37	34.	50.	47
3	13.	19.	46	2.	30.	0	344.	38.	25.	22.	58.	33.	7	6.	33.	36	35.	13.	48
4	14.	19.	47	2.	29.	9	345.	34.	9.	23.	2.	16.	6	6.	10.	30	35.	36.	54
5	15.	19.	47	2.	29.	8	346.	29.	48.	23.	5.	59.	2	5.	47.	19	36.	0.	5
6	16.	19.	46	2.	29.	8	347.	25.	21.	23.	9.	41.	4	5.	24.	3	36.	23.	21
7	17.	19.	42	2.	29.	7	348.	20.	48.	23.	13.	23.	2	5.	0.	44	36.	46.	40
8	18.	19.	36	2.	29.	6	349.	16.	9.	23.	17.	4.	6	4.	37.	10	37.	10.	5
9	19.	19.	28	2.	29.	5	350.	11.	25.	23.	20.	45.	6	4.	13.	52	37.	33.	32
10	20.	19.	20	2.	29.	4	351.	6.	33.	23.	24.	26.	2	3.	50.	20	37.	57.	4
11	21.	19.	9	2.	29.	3	352.	1.	37.	23.	28.	6.	5	3.	26.	46	38.	20.	38
12	22.	18.	56	2.	29.	2	352.	56.	39.	23.	31.	46.	6	3.	3.	10	38.	44.	14
13	23.	18.	41	2.	29.	2	353.	51.	35.	23.	35.	26.	4	2.	39.	32	39.	7.	52
14	24.	18.	23	2.	29.	1	354.	46.	28.	23.	39.	5.	9	2.	15.	52	39.	31.	32
15	25.	18.	3	2.	29.	1	355.	41.	16.	23.	42.	45.	1	1.	52.	11	39.	55.	1
16	26.	17.	41	2.	29.	0	356.	36.	1.	23.	46.	24.	1	1.	28.	20	40.	18.	55
17	27.	17.	16	2.	29.	0	357.	30.	42.	23.	50.	2.	8	1.	4.	47	40.	42.	57
18	28.	16.	50	2.	28.	9	358.	25.	21.	23.	53.	41.	4	0.	41.	5	41.	6.	19
19	29.	16.	20	2.	28.	8	359.	19.	57.	23.	57.	19.	8	0.	17.	23	41.	30.	1
20	0.	v	15. 48	2.	28.	7	0.	14. 31.	0.	0.	58.	1	1	0.	6.	18	41.	53.	42
21	1.	15.	16	2.	28.	6	1.	9.	3.	0.	436.	2	2	0.	29.	58	42.	17.	22
22	2.	14.	39	2.	28.	5	2.	3. 31.	0.	8.	14.	1	1	0.	53.	36	42.	41.	0
23	3.	14.	0	2.	28.	4	2.	57. 58.	0.	11.	51.	9	1	1.	17.	13	43.	4.	37
24	4.	13.	20	2.	28.	3	3.	52. 27.	0.	15.	29.	8	1	1.	40.	48	43.	28.	12
25	5.	12.	37	2.	28.	2	4.	46. 52.	0.	19.	7.	5	2	2.	4.	21	43.	51.	45
26	6.	11.	51	2.	28.	1	5.	41. 19.	0.	22.	45.	3	2	2.	27.	51	44.	15.	15
27	7.	11.	5	2.	28.	0	6.	35. 45.	0.	26.	23.	0	2	2.	51.	17	44.	38.	41
28	8.	10.	15	2.	28.	0	7.	30. 12.	0.	30.	0.	8	3	3.	14.	41	45.	2.	5
29	9.	9.	25	2.	27.	9	8.	24. 39.	0.	33.	38.	6	3	3.	38.	1	45.	25.	25
30	10.	8.	33	2.	27.	8	9.	19. 7.	0.	37.	16.	5	4	4.	1.	18	45.	48.	42
31	11.	7.	38	2.	27.	7	10.	13. 37.	0.	40.	54.	5	4	4.	24.	29	46.	11.	53



## M A R T I U S. ☉

*Solis in Meridiano versantis*

Dies Mensis.	Diameter ☉ apprens.			Mora transitus disci ☉ per Meridianum.			Distantia ☉ a δ̄ cuius Distantia media.		Ortus centri ☉ verus		Occasus centri ☉ verus		Dies Mensis.	Phænomena & Observationes ☉
	M.	S.	D.	M.	S.	D.	10000.	H.	M.	H.	M.			
1	32	22	0	2	10	7	9918	18	34	5	26			
2	32	21	3	2	10	5	9921	18	30	5	30			
3	32	20	7	2	10	3	9923	18	29	5	31	4	☉ in parallelo i Orionis culm. h. 6. m. 22.	
4	32	20	2	2	10	2	9926	18	27	5	33			
5	32	19	6	2	10	1	9928	18	26	5	34	6	☉ in parallelo h Eridani culm. h. 5. m. 47.	
6	32	19	0	2	10	0	9931	18	24	5	36	8	☉ in parall. g m̄ culm. h. 13. m. 40.	
7	32	18	5	2	9	9	9934	18	22	5	38			
8	32	18	0	2	9	8	9937	18	20	5	40	10	Conjunctio ☉ & ♃	
9	32	17	5	2	9	7	9939	18	18	5	42			
10	32	17	0	2	9	6	9942	18	16	5	44	12	☉ in parallelo f Opiuchi culm. h. 16. m. 29.	
11	32	16	5	2	9	5	9945	18	15	5	45	14	☉ in parallelo e Orionis culm. h. 5. m. 50.	
12	32	16	0	2	9	4	9948	18	13	5	47			
13	32	15	4	2	9	4	9951	18	12	5	48	16	☉ in parallelo d Orionis culm. h. 5. m. 58.	
14	32	14	8	2	9	3	9953	18	10	5	50			
15	32	14	2	2	9	3	9956	18	9	5	51	18	☉ in parallelo c Orionis culm. h. 5. m. 5.	
16	32	13	6	2	9	2	9959	18	7	5	53	19	Ingressus ☉ in ♋ h. 17. m. 37.	
17	32	13	0	2	9	1	9962	18	5	5	55			
18	32	12	6	2	9	1	9965	18	3	5	57	21	☉ in parallelo b m̄ culm. h. 13. m. 17.	
19	32	12	0	2	9	0	9968	18	1	5	59			
20	32	11	6	2	9	0	9971	18	0	6	0	27	☉ in parallelo a m̄ culm. h. 11. m. 11.	
21	32	11	0	2	9	0	9973	17	59	6	1	30	☉ in distantia media.	
22	32	10	3	2	9	0	9976	17	57	6	3			
23	32	10	2	2	9	0	9978	17	55	6	5	31	☉ in parall. j m̄ culm. h. 12. m. 2.	
24	32	9	6	2	9	0	9981	17	53	6	7			
25	32	9	1	2	9	0	9985	17	51	6	9			
26	32	8	6	2	9	0	9988	17	49	6	11			
27	32	8	0	2	9	1	9991	17	47	6	13			
28	32	7	4	2	9	1	9994	17	45	6	15			
29	32	6	8	2	9	1	9997	17	43	6	17			
30	32	6	2	2	9	1	10000	17	41	6	19			
31	32	5	6	2	9	1	10003	17	40	6	20			

## M A R T I U S. ☽

Loca ☽ na sole in Meridiano versante.

Die/Men.	Longitudo vera. ☽	Latitudo vera. ☽	Declinatio vera. ☽	Nodus ☽ ascen- dens.	Diamet- ter ☽ horizon- talis.	Paral- laxis ☽ horizon- talis.	Tempus culm. ☽
	S. G. M. S.	G. M. S.	G. M. S.	G. M.	M. S.	M. S.	H. M.
1	♎ 9.17.43	5. 9. 16	19.29.48	20. 1.	30. 7.	55. 14.	16. 2
2	21.41. 7	5. 15. 26	23.18.36	19. 58.	30. 24.	55. 46.	16. 52
3	♏ 4.20.33	5. 7. 18	26. 6.10	19. 54.	30. 47.	56. 29.	17. 46
4	17.19.32	4. 43. 6	27.34.48	19. 51.	31. 13.	57. 18.	19. 45
5	♌ 0.41. 4	4. 3. 10	27.29.20	19. 48.	31. 43.	58. 12.	19. 44
6	14.27.39	3. 8. 11	25.50.23	19. 45.	32. 12.	59. 8.	20. 43
7	28.39.47	2. 0. 9	22.26.21	19. 41.	32. 41.	60. 1.	21. 41
8	≈ 13.16.29	0. 42. 28	17.33.30	19. 38.	33. 6.	60. 47.	22. 37
9	28.13.50	0. 39. 46	11.29.27	19. 35.	33. 22.	61. 18.	23. 31
10	♐ 13.24.38	2. 0. 15	4.41.10	19. 32.	33. 30.	61. 32.	♌
			B.				
11	23.39.37	3. 12. 24	2.24.25	19. 28.	33. 28.	61. 27.	0. 23
12	√ 13.48.19	4. 10. 22	9.18.13	19. 25.	33. 12.	61. 1.	1. 16
13	28.40.50	4. 50. 17	15.33. 4	19. 22.	32. 51.	60. 21.	2. 9
14	♌ 13. 9.56	5. 10. 9	20.45.48	19. 18.	32. 25.	59. 29.	3. 3
15	27.11.15	5. 10. 12	24.36.49	19. 15.	31. 53.	58. 31.	4. 0
16	♑ 10.43.36	4. 53. 59	26.58. 9	19. 12.	31. 23.	57. 34.	4. 58
17	23.48.38	4. 22. 5	27.40.41	19. 9.	30. 53.	56. 41.	5. 55
18	♍ 6.29.25	3. 38. 8	26.52.47	19. 6.	30. 29.	55. 54.	6. 50
19	18.50.21	2. 45. 3	24.53.42	19. 3.	30. 7.	55. 16.	7. 41
20	♎ 0.56. 8	1. 45. 35	21.43. 3	19. 0.	29. 52.	54. 47.	8. 29
21	12.51.27	0. 42. 26	17.39.43	18. 57.	29. 40.	54. 26.	9. 13
		A.					
22	24.40.36	0. 21. 53	12.58.56	18. 54.	29. 34.	54. 12.	9. 55
23	♐ 6.27.29	1. 24. 54	7.50.37	18. 50.	29. 31.	54. 7.	10. 36
24	18.15.14	2. 24. 12	2.26.53	18. 47.	29. 31.	54. 8.	11. 15
		A.					
25	♌ 0. 6.17	3. 17. 24	3. 3.20	18. 44.	29. 35.	54. 15.	11. 55
26	12. 2.43	4. 2. 13	8.29. 4	18. 41.	29. 40.	54. 25.	12. 36
27	24. 5.56	4. 36. 37	13.39.25	18. 38.	29. 48.	54. 41.	13. 20
28	♎ 6.17.24	4. 58. 48	18.20.19	18. 34.	30. 0.	55. 2.	14. 6
29	18.38.25	5. 7. 11	22.19.55	18. 31.	30. 14.	55. 28.	14. 56
30	♏ 1.10.32	5. 0. 50	25.22.19	18. 28.	30. 31.	55. 59.	15. 48
31	13.55.41	4. 40. 49	27.10. 9	18. 24.	30. 50.	56. 35.	16. 45



# M A R T I U S.

Phænomena & Observaciones.
ad μ ζ αν ι
ad ζ γ η θ λ α β α δ π β ω ν
ad υ γ φ ω Ophiuc. α τ
ad θ β Ophiuc. ρ β α γ
ad δ λ θ ο ν ρ ρ ο π ψ
ad ρ & χ ρ η φ α
ad η σ β π ρ ο ψ τ η χ θ ζ
in nodo ascend. & ad ζ ι κ γ δ λ μ
ad ρ & ad θ ρ α λ
Perigea θ ad π ψ χ φ ≈ κ λ κ
ad δ δ
ad ε σ ι ζ μ ο η π ο χ
ad ρ ζ μ ο π ν Ceti ξ μ ο π ν
ad ρ σ δ ρ γ & ad Plejades
ad Α ω γ δ ρ χ κ α τ θ
ad ι λ θ β
ad Η η μ ν ν π
ad ω ζ η θ λ Α ρ π υ π
ad c x ο ι π μ λ ρ λ ο θ
ad η c ε γ δ ε φ
in nodo descendente & ad ω ξ ψ υ Ω
ad η π α Α ι ε Ω
Apog. & ad c χ υ δ ο ρ Ω
ad ω ν β π τ υ Ω
ad c η γ φ χ π
ad ψ σ γ λ ι η π ρ
ad κ λ π ρ
ad μ ζ αν ι
ad ζ η κ θ λ α β α δ π β ω μ
ad υ α τ μ ψ γ φ ω Ophiuc.
ad Α ρ θ β Ophiuc.

Phases
Ultimus Quadrans h. 17. m. 59. in gr. 14. m. 15.
Novilunium h. 11. m. 39. in κ gr. 20. m. 48.
Primus Quadrans h. 7. m. 9. in π gr. 27. m. 35.
Plenilunium h. 11. m. 11. in α gr. 5. m. 40.

Phænomena & Observaciones Planetarum.
θ ad γ ζ h. 8. m. 8. dist. centr. θ 59. Bor.
θ ad θ ζ hor. 13. m. 45. dist. centr. θ 54. m. Bor.
θ ad ι hor. 4. m. 38. dist. centr. θ 6. m. Bor.
Conjunctio π & ο.
δ ad η hor. 1. m. 48. dist. centr. δ 42. m. Austr.
ρ ad π γ hor. 22. m. 25. dist. centr. ρ 1. gr. 32. m. Bor.
γ in digressione maximz.
ρ ad δ γ h. 15. m. 35. dist. centr. ρ 1. gr. 19. m. Bor.
δ ad η ζ hor. 16. m. 32. dist. centr. δ 1. gr. 51. m. Bor.
ρ ad ε γ hor. 19. m. 15. dist. centr. ρ 22. m. Bor.
δ ad θ ζ h. 3. m. 44. dist. centr. δ 34. m. Austr.
θ ad π hor. 4. m. 5. dist. centr. θ 57. m. Austr.
ρ ad τ υ li. 5. m. 20. dist. centr. ρ 45. m. Bor.
δ ad ι ζ h. 6. m. 24. dist. centr. δ 11. m. Bor.
ρ ad β Plej. h. 19. m. 38. dist. centr. ρ 22. m. Austr.
ρ ad η Plej. hor. 10. m. 28. dist. centr. ρ 10. m. Austr.

Planeta in parallelis fixarum.

h a 1 ad 13 in parallelo 54 Eridani. a 19 ad finem in λ α.

π in radiis solaribus.

δ 1. α β Corvio → γ Hydr. 3. 4. 5. δ m. 6. 7. 8. ε Corvi π → 9. 10. μ → 11. λ → β Lepor. 13. 14. ε ζ 15. θ ζ 54. Erid. 16. 17. 54 Erid. 18. 19. λ α 20. λ α ε σ → 21. θ → β π β Ceti 22. β π β Ceti 23. 24. 19. ε 26. θ ζ 27. 28. θ ζ α Leporis; 29. 30. γ α 31. α Crateris.

ρ 1. δ Serp. 3. γ Lyr. α 69. 4. Regulus. 5. υ 6. β Delphin. 7. α Pegaf. 8. ε Aquil. 10. β η. 11. Aldebar. 12. γ π. 13. λ η 14. η Ω. 16. γ υ. 18. ε Pegaf. 20. η Booris. 22. η π Arcturus. 24. ζ π. 25. α γ. 26. κ α 27. β Mercur. 28. γ θ. 29. η π 31. ε Andromed.

θ 1. α Crater. 3. Syrius. 4. θ α. 5. β α. 6. δ Corvi. 7. π Ceti 8. γ Eridan. 10. α ζ 11. ε Ceti. 12. λ m. 15. δ Eridan. 16. Spic. m. 17. θ Ceti. 18. β α Pegaf. 19. μ Ophiuchi.



## M A R T I U S.

Dies Mensis.	Ortus Planetarum apparens.		Tempus vespum culminationis Planetarum.		Longitudo Planetarum Sole culminante.		Latitudo Planetarum Sole culminante.		Declinatio Planetarum Sole culminante.		Occasus Planetarum apparens.	
	H.	M.	H.	M.	G.	M.	G.	M.	G.	M.	H.	M.

## ♄ Saturnus.

1	16	54	21	21	1 <sup>∞</sup>	26	0	A 15	20	A 6	1	48
7	16	33	21	1	2	1	0	15	19	59	1	29
13	16	12	20	41	2	34	0	16	19	52	1	11
19	15	52	20	21	3	5	0	16	19	45	0	50
25	15	32	20	2	3	33	0	17	19	39	0	32

## ♃ Jupiter.

1	18	50	0	28	18	κ 33	1	A 3	5	A 29	6	6
7	18	31	0	11	19	59	1	3	4	56	5	51
13	18	9	23	52	21	27	1	3	4	21	5	35
19	17	49	23	35	21	54	1	3	3	47	5	21
25	17	31	23	19	24	21	1	3	3	13	5	7

## ♂ Mars.

1	16	36	20	51	23	ζ 36	0	A 49	22	A 12	1	6
7	16	28	20	47	28	3	0	54	21	27	1	6
13	16	19	20	44	2	∞ 31	0	58	20	34	1	9
19	16	11	20	41	6	59	1	3	19	34	1	11
25	16	1	20	37	11	29	1	8	18	26	1	13

## ♀ Venus.

1	19	50	2	45	26	ν 23	1	B 24	11	B 30	9	40
7	19	39	2	47	2	♁ 52	1	54	14	16	9	55
13	19	27	2	48	9	10	2	24	16	51	10	9
19	19	16	2	50	15	15	2	54	19	12	10	24
25	19	6	2	52	21	6	3	23	21	18	10	38

## ☿ Mercurius.

1	17	47	22	30	16	∞ 52	1	A 26	17	A 10	3	13
7	17	48	22	42	25	25	1	57	14	54	3	36
13	17	48	22	57	1	κ 45	2	13	11	50	4	6
19	17	45	23	13	14	50	2	14	8	4	4	41
25	17	44	23	31	25	39	1	58	3	32	5	18

## M A R T I U S.

Jupiter in radiis solaribus, hinc Satellites  
Jovis videri non possunt.

# A P R I L I S. ○

Dies Astronom.	Dies Mensis Civil.	Dies Hebdomadae.	APRILIS.	Tempus me- dium Meridiei vet. ☉	Incre- men- tum diur- num tempo- ris med	Distantia o v a Meridiano.	Acceleratio diurna Stel- larum fixa- rum p̄a mo- tu ☉ vero.
				H. M. S. D.	S. D.	H. M. S. D.	M. S. D.
90	1	Ven.	S. Theodora	o. 3.47.2	18. 2	23.15.27. 5	3. 38. 3
91	2	Sab.	S. Fr. de Paula	o. 3.29.0	18. 0	23.11.49. 2	3. 38. 4
					17. 9		
92	3	<i>B. Dom.</i>	1. <i>in Albis</i>	o. 3.11.9		23. 8.10. 8	3. 38. 6
93	4	Lun.	S. Iudorus	o. 2.53.1	17. 7	23. 4.32. 2	3. 38. 9
94	5	Mart.	S. Vincentius	o. 2.35.4	17. 5	23. 0.53. 3	3. 39. 0
95	6	Merc.	S. Cælestinus	o. 2.17.9	17. 3	22.57.14. 5	3. 39. 2
96	7	Jovis	S. Hermanus	o. 2. 0.6	17. 0	22.53.35. 1	3. 39. 5
97	8	Ven.	S. Dionysius	o. 1.43.6	16. 9	22.49.55. 6	3. 39. 8
98	9	Sab.	S. Demetrius	o. 1.26.7	16. 5	22.46.15. 8	3. 39. 9
					16. 2		
99	10	<i>B. Dom.</i>	2. <i>post Pascha</i>	o. 1.10.2		22.42.35. 9	
100	11	Lun.	S. Leo Papa	o. 0.54.0	15. 9	22.38.55. 6	3. 40. 3
101	12	Mart.	S. Julius	o. 0.38.1	15. 6	22.35.15. 0	3. 40. 6
102	13	Merc.	S. Hermeneg.	o. 0.22.5	15. 3	22.31.34. 1	3. 40. 9
103	14	Jovis	S. Tiburtius	o. 0. 7.2	14. 9	22.27.52. 9	3. 41. 2
104	15	Ven.	S. Lidwina	23.59.52.3	14. 6	22.24.11. 4	3. 41. 5
105	16	Sab.	S. Callistus	23.59.37.7	14. 4	22.20.29. 5	3. 41. 9
					13. 9		3. 42. 2
106	17	<i>B. Dom.</i>	3. <i>post Pasch.</i>	23.59.23.3		22.16.47. 1	3. 42. 6
107	18	Lun.	S. Apollonius	23.59. 9.4	13. 5	22.13. 4. 7	3. 43. 2
108	19	Mart.	S. Crescentius	23.58.55.9	13. 2	22. 9.21. 7	3. 43. 4
109	20	Merc.	S. Agnes Pat.	23.58.42.7	12. 8	22. 5.38. 3	3. 43. 7
110	21	Jovis	S. Anselmus	23.58.29.9	12. 4	22. 1.54. 6	3. 44. 1
111	22	Ven.	SS. Sot. & Caj.	23.58.17.5	11. 8	21.58.10. 5	3. 44. 7
112	23	Sab.	S. Adalbertus	23.58. 5.7	11. 3	21.54.25. 8	3. 45. 2
					10. 9		
113	24	<i>B. Dom.</i>	4. <i>post Pasch.</i>	23.57.54.4		21.50.40. 6	3. 45. 7
114	25	Lun.	S. Marcus	23.57.43.5	10. 4	21.46.54. 9	3. 46. 1
115	26	Mart.	S. Clet. & foc.	23.57.33.1	9. 5	21.43. 8. 8	3. 46. 7
116	27	Merc.	S. Peregrinus	23.57.23.2	9. 4	21.39.22. 1	3. 47. 2
117	28	Jovis	S. Vitalis M.	23.57.13.8	8. 8	21.35.34. 9	3. 47. 7
118	29	Ven.	S. Petrus M.	23.57. 5.0	8. 3	21.31.47. 2	3. 48. 1
119	30	Sab.	S. Cath. Scn.	23.56.56.7		21.27.59. 1	

# A P R I L I S ☉

*Solis in Meridiano versantis.*

Dies Mensis.	Longitudo vera.	Motus horarius vernus.	Ascensio recta.	Ascensio recta conversa in tempus.	Declinatio vera Borealis.	Altitudo centri ☉ vera.
	G. M. S.	M. S. D.	G. M. S.	H. M. S. D.	G. M. S.	G. M. S.
1	12. 6.43	2. 27. 6	11. 8. 7.	0.44.32.5	4.47.36.	46.35. 0.
2	13. 5.45	2. 27. 5	12. 2.42.	0.48.10.3	5.19.38.	46.58. 2.
3	14. 4.46	2. 27. 4	12.57.18.	0.51.49.2	5.33.35.	47.20.59.
4	15. 3.45	2. 27. 3	13.51.57.	0.55.27.8	5.56.26.	47.43.50.
5	16. 2.42	2. 27. 2	14.46.40.	0.59. 6.7	6.19.11.	48. 6.35.
6	17. 1.37	2. 27. 1	15.41.25.	1. 2.45.7	6.41.49.	48.28.13.
7	18. 0.31	2. 27. 0	16.36.13.	1. 6.24.9	7. 4.21.	48.51.45.
8	18.59.23	2. 26. 9	17.31. 6.	1.10. 4.4	7.26.46.	49.14.10.
9	19.58.13	2. 26. 9	18.26. 3.	1.13.44.2	7.49. 4.	49.36.28.
10	20.57. 0	2. 26. 8	19.21. 1.	1.17.24.1	8.11.13.	49.58.37.
11	21.55.45	2. 26. 7	20.16. 6.	1.21. 4.4	8.33.13.	50.20.37.
12	22.54.28	2. 26. 7	21.11.15.	1.24.45.0	8.55. 5.	50.42.29.
13	23.53.10	2. 26. 6	22. 6.28.	1.28.25.9	9.16.49.	51. 4.13.
14	24.51.50	2. 26. 5	23. 1.46.	1.32. 7.1	9.38.23.	51.25.47.
15	25.50.28	2. 26. 5	23.57. 9.	1.35.48.6	9.59.49.	51.47.13.
16	26.49. 3	2. 26. 4	24.52.37.	1.39.30.5	10.21. 3.	52. 8.27.
17	27.47.35	2. 26. 3	25.48.10.	1.43.12.7	10.42. 7.	52.29.31.
18	28.46. 5	2. 26. 3	26.43.49.	1.46.55.3	11. 3. 2.	52.50.26.
19	29.44.33	2. 26. 2	27.39.34.	1.50.38.3	11.23.44.	53.11. 8.
20	00.42.59	2. 26. 1	28.35.25.	1.54.21.7	11.44.16.	53.31.40.
21	1.41.23	2. 26. 0	29.31.21.	1.58. 5.4	12. 4.35.	53.51.59.
22	2.39.45	2. 26. 0	30.27.22.	2. 1.49.5	12.24.43.	54.12. 7.
23	3.38. 4	2. 25. 9	31.23.33.	2. 5.34.2	12.44.39.	54.32. 3.
24	4.36.21	2. 25. 9	32.19.51.	2. 9.19.4	13. 4.21.	54.51.45.
25	5.34.38	2. 25. 8	33.16.16.	2.13. 5.1	13.23.51.	55.11.15.
26	6.32.52	2. 25. 7	34.12.48.	2.16.51.2	13.43. 9	55.30.33.
27	7.31. 5	2. 25. 6	35. 9.28.	2.20.37.9	14. 2.13.	55.49.37.
28	8.29.16	2. 25. 5	36. 6.16.	2.24.25.1	14.21. 3.	56. 8.7.
29	9.27.26	2. 25. 4	37. 3.12.	2.28.12.8	14.39.40.	56.27. 4.
30	10.25.34	2. 25. 4	38. 0.13.	2.32. 0.9	14.58. 1.	56.45.25.



## A P R I L I S. ☉

*Solis in Meridiano versantis.*

Dies Mensis.	Diameter ☉ apprens.		Mora transitus disci ☉ per me- ridianum		Distantia ☉ a ☽ cuius stant.med. 10000.		Ortus Centri ☉ verus.	Occa- sus centri ☉ verus.	Dies Mensis.	Phænomena & Observationes ☉	
	M.	S.	D.	M.	S.	D.	H.	M.			
1	32.	5.	2	2.	9.	1	10006.	17.39	6.	21	
2	32.	4.	8	2.	9.	1	10008.	17.37	6.	23	
3	32.	4.	3	2.	9.	3	10012.	17.35	6.	25	3 ☉ Conjunctio ☉ & ☽ superior.
4	32.	3.	8	2.	9.	3	10015.	17.33	6.	27	☉ in parallelo Procyonis culm. h. 6. m. 35.
5	32.	3.	3	2.	9.	3	10017.	17.32	6.	28	
6	32.	2.	8	2.	9.	4	10020.	17.30	6.	30	7 ☉ in parallelo α Orionis culm. h. 4. m. 36.
7	32.	2.	2	2.	9.	4	10023.	17.29	9.	31	11 ☉ in parallelo β Canis minoris culm. h. 5. m. 54.
8	32.	1.	7	2.	9.	5	10026.	17.27	6.	33	
9	32.	1.	2	2.	9.	6	10029.	17.25	6.	35	14 ☉ in parallelo β ♂ culm. h. 6. m. 32.
10	32.	0.	7	2.	9.	7	10032.	17.24	6.	36	
11	32.	0.	2	2.	9.	8	10035.	17.22	6.	38	19 Ingressus ☉ in ☉ h. 6. m. 21.
12	31.59.	7	2.	2.	9.	9	10038.	17.20	6.	40	21 ☉ parallelo ε ♀ culm. h. 10. m. 52.
13	31.59.	2	2.10.	2.	10.	0	10041.	17.19	6.	41	
14	31.58.	7	2.10.	2.	10.	1	10043.	17.17	6.	43	23 ☉ in parallelo α Ophiuchi culm. h. 15 m. 17.
15	31.58.	2	2.10.	2.	10.	3	10046.	17.15	6.	45	☉ in parallelo Reguli culm. h. 7. m. 50.
16	31.57.	7	2.10.	2.	10.	3	10049.	17.14	6.	46	
17	31.57.	2	2.10.	2.	10.	4	10052.	17.12	6.	48	29 ☉ in parallelo α Herculis culm. h. 14. m. 35.
18	31.56.	6	2.10.	2.	10.	5	10055.	17.10	6.	50	
19	31.56.	0	2.10.	2.	10.	6	10057.	17. 9	6.	51	30 ☉ in parallelo α Delphini culm. h. 17. m. 55.
20	31.55.	4	2.10.	2.	10.	8	10059.	17. 7	6.	53	
21	31.54.	8	2.10.	2.	10.	9	10061.	17. 5	6.	55	
22	31.54.	1	2.11.	2.	11.	0	10064.	17. 3	6.	57	
23	31.53.	4	2.11.	2.	11.	1	10067.	17. 2	6.	58	
24	31.52.	7	2.11.	2.	11.	2	10069.	17. 1	6.	59	
25	31.52.	2	2.11.	2.	11.	4	10072.	17. 0	7.	0	
26	31.51.	7	2.11.	2.	11.	5	10075.	16.58	7.	2	
27	31.51.	2	2.11.	2.	11.	7	10077.	16.56	7.	4	
28	31.50.	7	2.11.	2.	11.	8	10080.	16.54	7.	6	
29	31.50.	2	2.12.	2.	12.	0	10082.	16.52	7.	8	
30	31.49.	8	2.12.	2.	12.	1	10085.	16.51	7.	9	

## A P R I L I S. ☽

Loca ☽na Sole in Meridiano versante.

Dies Mensis	Longitudo vera.	Latitudo vera.	Declinatio vera	Nodus ascendens	Diameter horizon- talis.	Paralla- xis horizon- talis.	Tempus verum culmin.
	G. M. S.	G. M. S.	G. M. S.	G. M.	M. S.	M. S.	H. M.
		A	A.				
1	← 26.55.57	4. 5.19	27.33.25	18. 21.	31. 12	57. 14	17 42
2	↗ 10.13.38	3.15.53	26.21.40	18. 18.	31. 37	57. 59	18 41
3	↘ 23.50.51	2.14.18	23.35.32	18. 15.	32. 0	58. 45	19 37
4	↖ 7.49. 3	1. 3.17	19.22.48	18. 12.	32. 25	59. 30	20 31
		B.					
5	↖ 22. 8.35	0.13.28	13.57.11	18. 9.	32. 47	60. 13	21 23
6	↖ 6.47.56	1.30.52	7.37.29	18. 6.	33. 5	60. 44	22 15
7	↖ 21.42.50	2.43.58	0.47.46	18. 2.	33. 15	61. 4	23 7
		B.					
8	↖ 6.46.25	3.44.50	6. 8.17	17. 59.	33. 15	61. 6	
9	↖ 21.49.28	4.30.47	12.43.34	17. 56.	33. 7	60. 51	0 1
10	↖ 6.42.10	4.56.38	18.28.55	17. 55.	32. 51	60. 20	0 57
11	↖ 21.15.36	5. 3.53	23. 0.58	17. 50.	32. 28	59. 34	1 53
12	↖ 5.23.27	4.52.15	26. 3.32	17. 47.	31. 58	58. 41	2 51
13	↖ 19. 2.45	4.23.38	27.23.56	17. 44.	31. 28	57. 46	3 50
14	↖ 2.13.28	3.41.35	27.10.47	17. 40.	30. 58	56. 51	4 48
15	↖ 14.58.10	2.49.45	25.27.59	17 37.	30. 32	56. 2	5 42
16	↖ 27.20.59	1.51.11	22.33.31	17. 34.	30: 10	55. 21	6 31
17	↖ 9.26.59	0.48.55	18.42.18	17. 31.	29. 54	54. 50	7 17
		A.					
18	↖ 21.31.32	0.14.29	14.10.35	17. 28.	29. 43	54. 29	8 1
19	↖ 3. 9.52	1.16.37	9.10.23	17. 25.	29. 35	54. 16	8 42
20	↖ 14.56.54	2.15.13	3.51.45	17. 22.	29. 34	54. 13	9 21
		A.					
21	↖ 26.46.44	3. 8. 4	1.35.18	17. 18.	29. 36	54. 18	10 1
22	↖ 8.42.46	3.53. 0	7. 1.53	17. 15.	29. 43	54. 29	10 42
23	↖ 20.47.26	4.27.58	12.15.58	17. 12.	29. 51	54 46	11 25
24	↖ 3. 2.14	4.51. 4	17. 6.47	17. 9.	30. 5	55. 8	12 11
25	↖ 15.28. 0	5. 0.33	21.18.15	17. 6.	30. 16	55. 32	13 0
26	↖ 28. 5. 2	4.56. 1	24.35.30	17. 3.	30. 31	56. 0	13 52
27	↖ 10.53.28	4.36.27	26.41.17	17. 0.	30. 47	56. 29	14 46
28	↖ 23.53.25	4. 2.18	27.20.49	16. 56.	31. 4	57. 0	15 44
29	↖ 7. 5.18	3.14.44	6.32.35	16. 53.	31. 21	57. 33	16 42
30	↖ 20.29.47	2.15.40	24.10.28	16. 50.	31. 39	58. 6	17 37

## APRILIS. ☽

Loca Luna media nocte.					Congres. cum fixis & Planet.					
Dies Mensis.	Longitudo vera.	Latitudo vera.	Diameter ☽ horizontalis.	Parallax. ☽ horizontalis.	Dies Mensis.	Nomen & Character fixarum & Planetarum.	Tempus verni conjunctionis vere in longitud.		Distantia centri ☽ vera in latitudin.	
	S. G. M. S.	G. M. S.	M. S.	M. S.			H. M.	G. M.		
		A.								
1	♌ 3.32.28	3.42.19	31. 23.	57. 36.	1	♄ ↗ 5	18	50	0	27B
2	♌ 16.59.41	2.46.32	31. 49.	58. 22.		♄ ↘ 3	22	28	0	6B
3	♌ 0.47.16	1.39.44	32. 12.	59. 8.	2	♄ ↘ 5	6	43	0	6A
4	♌ 14.56.13	0.25.15	32. 36.	59. 53.		♄ ↘ 5	15	11	0	36B
		B.			4	♄ ↘ 5	11	30	0	55B
5	♌ 20.26. 0	0.52.28	32. 57.	60. 30.		♄ ↘ 5	19	45	1	16B
6	♌ 14.13.50	2. 8. 6	33. 20.	60. 55.	11	♄ Plej.♄	8	29	0	50B
7	♌ 29.14. 4	3.15.49	33. 16.	61. 7.		♄ Plej.♄	9	27	0	59B
8	♌ 14.13.39	4.10. 6	33. 12.	61. 1.		♄ ♄ 5	22	51	0	54B
9	♌ 29.17.46	4.46.42	33. 1.	60. 37.	12	♄ ad ♄	1	48	0	18B
10	♌ 14. 1.45	5. 3.20	32. 39.	59. 58.	14	♄ ♄ 6	21	57	0	24B
11	♌ 28.23. 0	5. 0.38	32. 12.	59. 8.	15	♄ ♄ 5	1	42	0	10A
12	♌ 12.16.44	4.39.49	31. 45.	58. 14.	16	♄ ♄ 5	22	21	0	36B
13	♌ 25.41.35	4. 4. 4	31. 14.	57. 18.		♄ ♄ 4	16	35	1	4B
14	♌ 8.39.52	3.16.42	30. 44.	56. 26.	18	♄ ♄ 5	12	20	0	41B
15	♌ 21.12. 1	2.21. 7	30. 21.	55. 40.	19	♄ ♄ 5	17	51	0	321
16	♌ 3.25.45	1.20.21	30. 2.	55. 4.	20	♄ ♄ 4	14	37	0	161
17	♌ 15.25.22	0.17.12	29. 46.	54. 38.	26	♄ ♄ 6	0	6	0	301
		A.				♄ ♄ 5	1	0	0	1A
18	♌ 27.16. 9	0.45.50	29. 38.	54. 21.		♄ ♄ 3	3	28	0	33
19	♌ 9. 3.17	1.46.26	29. 35.	54. 14.	28	♄ ♄ 1	16	17	0	111
20	♌ 20.51.13	2.42.29	29. 35.	54. 5.	29	♄ ♄ 6	0	38	0	221
						♄ ♄ 5	0	10	0	411
1	♌ 2.43.48	3.31.40	29. 39.	54. 23.		♄ ♄ 3	4	7	0	21F
22	♌ 14.43.54	4.11.52	29. 45.	54. 36.		♄ ♄ 5	12	27	0	8F
23	♌ 26.53.29	4.41. 6	29. 57.	54. 57.		♄ ♄ 5	21	0	0	50B
24	♌ 9.13.44	4.57.41	30. 10.	55. 19.						
25	♌ 21.45. 8	4.59.46	30. 24.	55. 46.						
26	♌ 4.27.47	4.48. 2	30. 39.	55. 14.						
27	♌ 17.21.59	4.21. 9	30. 55.	56. 44.						
28	♌ 0.27.51	3.40. 5	31. 12.	57. 16.						
29	♌ 13.45.56	2.46.27	31. 31.	57. 49.						
30	♌ 27.17. 5	1.42.38	31. 49.	58. 23.						

# A P R I L I S.

Dies Mensis

Phænomena & Observationes ☽

1 ☽ ad γ M δ λ θ σ →.  
 2 ad ε ρ π ψ χ ρ ω →.  
 3 ad h & β π ρ φ ζ.  
 4 in nodo ascend. ☽ ad ε η χ θ φ j  
 ε χ γ δ λ ζ.  
 5 ☽ ad j ε θ ρ σ →.  
 6 ad κ λ ψ χ φ ω.  
 7 Perigæa ☽ ad π λ α χ).  
 8 ad δ ε ζ η κ).  
 9 ad θ & υ η π χ i ε ν ξ Ceti.  
 10 ad μ Ceti μ σ π ρ ε δ ζ τ υ.  
 11 ad Plejades & α ω ρ γ δ θ ζ κ ξ.  
 12 ad ρ & ε α ι η θ.  
 13 ad β ζ θ Η η π.  
 14 ad μ ν γ ε ζ ω η π.  
 15 ad λ α Δ ρ υ κ φ ω θ μ σ ρ.  
 16 ad κ λ υ γ ε δ ζ η θ.  
 17 in nodo descend. & ad α ξ κ ω λ ρ.  
 18 ad ν η π α λ j ρ.  
 19 ad χ υ δ ρ.  
 20 Apogæa & ad σ τ υ ρ ω ν β π.  
 21 ad ε η γ π ρ.  
 22 ad χ φ θ γ π ρ.  
 23 ad α j m κ π ρ.  
 24 ad μ ζ α ζ α.  
 25 ad j ζ γ η κ θ λ α.  
 26 ☽ ad A δ π β ω ν σ α τ μ ψ χ φ ω  
 Ophiuc.  
 27 ad ρ θ B Ophiuc.  
 28 ad ρ γ μ δ λ →.  
 29 ad θ σ ζ ρ π ψ η ρ →.  
 30 ad ω A → β π ρ ψ ζ.

Phases Lunæ.

16 Ultimus Quadrans h. 5. m. 27. in  
 3 gr. 13. m. 19.  
 18 Novilunium h. 29. m. 50. in v gr. 19.  
 m. 50.  
 15 Primus Quadrans h. 22. m. 52. in 69  
 gr. 26. m. 46.  
 24 Plenilunium h. 3. m. 17. in m gr  
 4. 21. 44.

Dies Mensis

Phænomena & Observationes Planetarum. ☿

3 Coniunctio ☿ & ☉ Superior.  
 ☿ ad γ ζ hor. 17. m. 4. dist. centr. ♂  
 1. gr. 17. m. Bor.  
 4 ☿ ad ζ κ h. 15. m. 40. dist. centr. ☿  
 21. m. Austr.  
 6 ☿ ad ρ ζ h. 0. m. 32. dist. centr. ♂  
 1. gr. 16. m. Bor.  
 10 ☿ ad υ θ h. 8. m. 26. dist. centr. ♀  
 28. m. Bor.  
 11 ☿ in nodo ascendente.  
 12 ☿ ad j ≈ hor. 22. m. 53. dist. centr. ♂  
 40. m. Bor.  
 20 ☿ ad δ υ h. 5. m. 16. dist. centr. ☿  
 7. m. Bor.  
 ☿ ad ζ υ h. 22. m. 7. dist. centr. ☿  
 52. m. Austr.  
 21 ☿ ad σ ≈ hor. 19. m. 44. dist. centr. ♂  
 17. m. Austr.  
 26 ☿ in nodo ascendente.  
 30 ☿ ad λ ≈ h. 1. m. 36. dist. centr. ♂  
 1. gr. 11. m. Austr.

Planeta in parallelis fixarum.

h mense toto in paralelo λ α & θ →.  
 ♄ a 1. ad 4. γ ≈ a 7. ad 11. ζ Orionis.  
 a 13. ad 16. ♄ Aquil. a 25. ad finem γ π ρ.  
 ♄ 1. 2. ≈ 3. 4. 5. Sirius. 6. 7. 53 Eridan.  
 8. 53. Eridan. β ζ η. Ophiuc. 2. β ζ η  
 Ophiuc. 10. 11. π Ceti 13. 14. γ Eridan. 15.  
 16. ψ α 17. 18. α ≈ 19. ε Ceti 20. 21. λ π.  
 22. 1 m. 24. 1 m η Ceti. 25. η Ceti 27. θ  
 Eridan. 29. δ Erid. ε ≈ 29 ε ≈ Spic. π.  
 ♀ 1. 2. η. 5. 132. θ ζ ρ. 6. 132. θ ζ  
 ε ρ 7. ε ρ. 8. δ Herc. 9. δ Herc. ε π. 10.  
 ε π. 13. 14. 15. 2 ψ θ. 16. 17. 35 υ. 18.  
 19. 35 υ β Pegasi. 20. 21. 22. β Pegasi. a  
 23 ad finem α Coron. bor. 16 Cygni.  
 ♀ in radiis solaribus.



## APRILIS.

Dies Mensis.	Ortus Planetarum apparentis.		Tempus verum culminationis Planetarum.		Longitudo Planetarum Sole culminante.		Latitudo Planetarum Sole culminante.		Declinatio Planetarum Sole culminante.		Occasus Planetarum apparentis.	
	H.	M.	H.	M.	G.	M.	G.	M.	G.	M.	H.	M.

## ♄ Saturnus.

1	15	9	19	39	4 <sup>♄</sup>	2	0	A 18	19	A 33	0	9
7	14	47	19	18	4	25	0	19	19	29	23	49
13	14	26	18	57	4	45	0	20	19	25	23	28
19	14	5	18	36	5	1	0	20	19	21	23	7
25	13	43	18	15	5	14	0	20	19	18	22	47

## ♃ Jupiter.

1	17	5	23	0	26	♃	1	1	A 4	2	A 33	4	51
7	16	49	22	43	27	26	1	1	4	2	0	4	37
13	16	29	22	26	28	49	1	1	5	1	27	4	23
19	16	10	22	9	0	V	11	1	6	0	55	4	8
25	15	10	21	52	1	32	1	1	6	0	24	3	54

## ♂ Mars.

1	15	49	20	33	16	♄	44	1	A 13	17	A 0	1	17
7	15	38	20	29	21	15	1	1	13	15	40	1	20
13	15	27	20	25	25	45	1	1	23	14	15	1	23
19	15	15	20	20	0	♃	16	1	27	12	45	1	25
25	15	3	20	15	4	46	1	1	31	11	11	1	27

## ♀ Venus.

1	18	54	2	52	27	♂	30	3	B 53	23	B 24	10	50
7	18	43	2	52	2	♄	33	4	17	24	52	11	1
13	18	35	2	49	7	6	4	4	35	26	3	11	3
19	18	24	2	44	11	3	4	4	49	26	54	11	4
25	18	11	2	35	14	12	4	4	55	27	25	10	59

## ☿ Mercurius.

1	17	40	23	55	9	V	18	1	A 17	2	B 31	6	10
7	17	35	0	15	21	42	0	0	22	8	8	6	55
13	17	34	0	39	4	♂	11	0	B 42	13	36	7	44
19	17	32	1	0	15	43	1	1	45	18	13	8	28
25	17	29	1	16	25	16	2	2	27	21	29	9	3

# A P R I L I S.

## Eclipses Satellitum Jovis.

I. SATELLES.			II. SATELL.			III. SATELL.		
Dies Civilis.	Immerſiones.		Dies Civilis.	Immerſion s.		Dies Civilis.	Immerſiones.	
	H.	M. S.		H.	M. S.		H.	M. S.
11	1	13 39 V	27	11	34 28 M	11	2.	19. 34 M
13	7	42 44 M	29	6	3 17 M	14	3.	38. 44 V
15	2	11 47 M				18	4.	57. 53 M
16	8	40 49 V				21	6.	16. 57 V
18	3	9 50 V				25	7.	35. 55 M
20	9	38 49 M				28	8.	54. 50 V
22	4	7 46 M						
23	10	36 42 V						
25	5	5 36 V						
						IV. Satel.		
						H. M. S.		
						11	11.	21.17 V.Im.
						12	2.	44.33 M.Im.
						28	5.	42.33 V.Im.
						28	8.	58.33 V.Im.



## M A J U S. ☉

Dies Astronom.	Dies Mens. Civilis.	Dies Hebdomadae.	MAJUS.	Tempus medium Meridiei veri. ☉				Incrementum diurnum temp. merid.	Distantia ☉ v Meridiano.				Acceleratio diurna stellarum fixarum prae motu ☉ vero	
				H.	M.	S.	D.		S.	D.	H.	M.		S.
120	1	B. Dom.	5 Rog. Ph. & J. A.	23.56.48.	9	7	1	21	24	10	2	3	49	4
121	2	Lun.	S. Athanasius	23.56.41.	8	6	5	21	20	20	8	3	50	0
122	3	Mart.	Invent. S. Cruc.	23.56.35.	3	6	0	21	16	30	8	3	50	4
123	4	Merc.	S. Florianus.	23.56.29.	3	5	5	21	12	40	4	3	51	1
124	5	Jov.	Ascens. Dom.	23.56.23.	8	4	9	21	8	49	3	3	51	7
125	6	Ven.	S. Joan. ante p.	23.56.18.	9	4	2	21	4	57	6	3	52	2
126	7	Sab.	S. Stanisl. Ep.	23.56.14.	7	3	7	21	1	5	4	3	52	9
127	8	B. Dom.	6 post Pascha.	23.56.11.	0	3	1	20	57	12	5	3	53	5
128	9	Lun.	S. Gregorius.	23.56. 7.	9	2	6	20	53	19	0	3	54	0
129	10	Mart.	S. Antonius	23.56. 5.	3	1	9	20	49	25	0	3	54	6
130	11	Merc.	S. Mamertus.	23.56. 3.	4	1	4	20	45	30	4	3	55	2
131	12	Jov.	S. Pancratius.	23.56. 2.	0	0	9	20	41	35	2	3	55	7
132	13	Ven.	S. Servatius.	23.56. 1.	1	0	3	20	37	39	5	3	56	2
133	14	Sab.	S. Bonifacius. †	23.56. 0.	8	0	3	20	33	43	3	3	56	8
134	15	B. Dom.	Pentecostes	23.56. 1.	1	0	8	20	29	46	5	3	57	4
135	16	Lun.	Fer. II. Pent.	23.56. 1.	9	1	3	20	25	49	1	3	57	9
136	17	Mart.	S. Ubaldus Ep.	23.56. 3.	2	2	0	20	21	51	2	3	58	5
137	18	Merc.	Quat. Tem. †	23.56. 5.	2	2	4	20	17	52	7	3	59	0
138	19	Jov.	S. Juventius	23.56. 7.	6	3	0	20	13	53	7	3	59	5
139	20	Ven.	S. Bernard. †	23.56.10.	6	3	4	20	9	54	2	3	59	9
140	21	Sab.	S. Secundinus †	23.56.14.	0	4	0	20	5	54	3	4	0	6
141	22	B. Dom.	SS. Trinit.	23.56.18.	0	4	4	20	1	53	7	4	1	1
142	23	Lun.	S. Desiderius	23.56.22.	4	5	1	19	57	52	6	4	1	6
143	24	Mart.	S. Joanna.	23.56.27.	5	5	6	19	53	51	0	4	2	1
144	25	Merc.	S. Urbanus P.	23.56.33.	1	6	1	19	49	48	9	4	2	7
145	26	Jov.	SS. Corp. Christ.	23.56.39.	2	6	6	19	45	46	2	4	3	1
146	27	Ven.	S. Magd. de Paz.	23.56.45.	8	7	0	19	41	43	1	4	3	6
147	28	Sab.	S. Germanus	23.56.52.	8	7	4	19	37	39	5	4	4	1
148	29	B. Dom.	2 post Pent.	23.57. 0.	2	8	0	19	33	35	4	4	4	5
149	30	Lun.	S. Ferdinand.	23.57. 8.	2	8	5	19	29	30	9	4	4	9
150	31	Mart.	S. Petronilla	23.57.16.	7	8	5	19	25	26	0	4	4	9

## M A J U S. ☉

*Solis in meridiano versantis.*

Dies Mensis	Longitudo vera ♄			Motus horarius verus.			Ascensio recta.			Ascensio recta converſa			Declinatio vera Borealis.			Altitudo centri ☉ vera.		
	G.	M.	S.	M.	S.	D.	G.	M.	S.	H.	M.	S.	D.	G.	M.	S.	G.	M.
1	11.	23.	41	2.	25.	3	38.	57.	27.	2.	35.	49.	8	15.	16.	57.	3.	31
2	12.	21.	47	2.	25.	2	39.	54.	48.	2.	39.	39.	2	15.	34.	57.	21.	25
3	13.	19.	51	2.	25.	2	40.	52.	18.	2.	43.	29.	2	15.	51.	7.	39.	2
4	14.	17.	54	2.	25.	1	41.	49.	55.	2.	47.	19.	6	16.	8.	7.	56.	22
5	15.	15.	56	2.	25.	0	42.	47.	40.	2.	51.	10.	7	16.	26.	51.	13.	27
6	16.	13.	56	2.	25.	0	43.	45.	36.	2.	55.	2.	4	16.	42.	58.	30.	15
7	17.	11.	55	1.	24.	9	44.	43.	39.	2.	58.	54.	6	16.	59.	58.	46.	48
8	18.	9.	53	1.	24.	9	45.	41.	52.	3.	2.	47.	5	17.	15.	59.	3.	4
9	19.	7.	49	2.	24.	8	46.	40.	15.	3.	6.	41.	0	17.	31.	59.	19.	2
10	20.	5.	44	2.	24.	7	47.	38.	45.	3.	10.	35.	0	17.	47.	59.	34.	44
11	21.	3.	38	2.	24.	6	48.	37.	24.	3.	14.	29.	6	18.	2.	50.	50.	8
12	22.	1.	29	2.	24.	6	49.	36.	12.	3.	18.	24.	8	18.	17.	50.	5.	12
13	22.	59.	18	2.	24.	5	50.	35.	7.	3.	22.	20.	5	18.	32.	50.	19.	59
14	23.	57.	8	2.	24.	5	51.	34.	10.	3.	26.	16.	7	18.	47.	50.	34.	27
15	24.	54.	52	2.	24.	4	52.	33.	22.	3.	30.	13.	5	19.	1.	60.	48.	35
16	25.	52.	37	2.	24.	3	53.	32.	43.	3.	34.	10.	9	19.	15.	51.	2.	24
17	26.	50.	20	2.	24.	2	54.	32.	12.	3.	38.	8.	8	19.	28.	51.	15.	55
18	27.	48.	1	2.	24.	1	55.	31.	49.	3.	42.	7.	3	19.	41.	51.	29.	4
19	28.	45.	41	2.	24.	1	56.	31.	34.	3.	46.	6.	3	19.	54.	51.	41.	54
20	29.	43.	19	2.	24.	0	57.	31.	27.	3.	50.	5.	8	20.	7.	51.	54.	24
21	0.	40.	55	2.	24.	0	58.	31.	25.	3.	54.	5.	7	20.	19.	52.	6.	32
22	1.	38.	30	2.	24.	0	59.	31.	34.	3.	58.	6.	3	20.	30.	52.	18.	21
23	2.	36.	3	2.	23.	9	60.	31.	51.	4.	2.	7.	4	20.	42.	52.	29.	49
24	3.	33.	35	2.	23.	9	61.	32.	15.	4.	6.	9.	0	20.	53.	52.	40.	54
25	4.	31.	7	2.	23.	9	62.	32.	46.	4.	10.	11.	1	21.	4.	52.	51.	39
26	5.	28.	38	2.	23.	8	63.	33.	27.	4.	14.	13.	8	21.	14.	53.	2.	2
27	6.	26.	9	2.	23.	8	64.	34.	13.	4.	18.	16.	9	21.	24.	53.	12.	3
28	7.	23.	38	2.	23.	8	65.	35.	7.	4.	22.	20.	5	21.	34.	53.	21.	43
29	8.	21.	6	2.	23.	8	66.	36.	9.	4.	26.	24.	6	21.	43.	53.	30.	58
30	9.	18.	32	2.	23.	7	67.	37.	16.	4.	30.	29.	1	21.	52.	53.	39.	52
31	10.	16.	0	2.	23.	7	68.	38.	30.	4.	34.	34.	0	22.	0.	53.	48.	23



## M A J U S. ☉

*Solis in Meridiano versantis.*

Dies Mensis.	Diameter ☉ apparens.	Mora transi- tus disci ☉ per Meri- dianum.	Distancia ☉ a ♀ cuius dist. med. 10000.	Orrus centri ☉ verus.	Occa- sus centri ☉ verus.	Dies Mensis.	Phaenomena & Ob- servationes. ☉
	M. S. D.	M. S. D.		H. M.	H. M.		
1	31. 49. 4	2. 12. 5	10087.	16.49	7. 11		
2	31. 48. 9	2. 12. 6	10090.	16.48	7. 12		
3	31. 48. 4	2. 12. 7	10092.	16.47	7. 13		☉ in parallelo β R culm. h. 8. m. 57.
4	31. 47. 9	2. 12. 8	10095.	16.46	7. 14		☉ in parallelo γ serp. culm. h. 12. m. 57.
5	31. 47. 5	2. 12. 9	10097.	16.44	7. 16		
6	31. 47. 0	2. 13. 0	10100.	16.43	7. 17		☉ in nodo ascendente ♄
7	31. 46. 6	2. 13. 1	10101.	16.41	7. 19	10	☉ in parallelo η R culm. h. 6. m. 44.
8	31. 46. 2	2. 13. 2	10103.	16.39	7. 2		
9	31. 46. 0	2. 13. 3	10105.	16.37	7. 23		☉ in parallelo η Bootis culm. h. 10. m. 5.
10	31. 45. 8	2. 13. 4	10108.	16.35	7. 25	17	
11	31. 45. 4	2. 13. 6	10110.	16.34	7. 26	20	Ingressus ☉ in e ♃ h. 6. m. 57.
12	31. 45. 0	2. 13. 8	10112.	16.33	7. 27		
13	31. 44. 6	2. 14. 1	10114.	16.32	7. 28	21	☉ in parallelo Arcturi culm. h. 10. m. 10.
14	31. 44. 2	2. 14. 3	10116.	16.31	7. 29		
15	31. 43. 8	2. 14. 5	10118.	16.30	7. 30	23	Conjunctio ☉ & ♄ infe- rior.
16	31. 43. 4	2. 14. 7	10121.	16.29	7. 31		
17	31. 43. 0	2. 14. 8	10123.	16.28	7. 32	24	☉ in parallelo γ R culm h. 6. m. 1.
18	31. 42. 6	2. 14. 9	10125.	16.26	7. 34		
19	31. 42. 2	2. 15. 1	10126.	16.25	7. 35	25	Conjunctio ☉ & ♄ in- ferior.
20	31. 41. 8	2. 15. 3	10128.	16.24	7. 36		☉ in parallelo δ R culm h. 6. m. 95.
21	31. 41. 4	2. 15. 5	10130.	16.23	7. 37		
22	31. 41. 0	2. 15. 7	10132.	16.21	7. 39		☉ in parallelo β Hercu- lis h. 11. m. 49.
23	31. 40. 7	2. 15. 8	10134.	16.20	7. 4		
24	31. 40. 4	2. 15. 9	10136.	16.19	7. 4		
25	31. 40. 1	2. 16. 1	10137.	16.15	7. 4		
26	31. 39. 8	2. 16. 2	10139.	16.17	7. 43		
27	31. 39. 5	2. 16. 4	10141.	16.16	7. 44		
28	31. 39. 2	2. 16. 5	10142.	16.15	7. 45		
29	31. 39. 0	2. 16. 7	10144.	16.15	7. 45		
30	31. 38. 8	2. 16. 8	10145.	16.14	7. 46		
31	31. 38. 6	2. 16. 9	10147.	16.13	7. 47		

## M A J U S. ☽

*Loca Lunæ Sole in Meridiano versante.*

Dies Mensis.	Longitud vera ☽				Latitudo vera ☽			Declinatio vera ☽			Nodus ☽ ascen- dens.		Diam. ☽ horizon- talis.		Paralla- xis ☽ horizon- talis.		Tempus culm. ☽		
	S.	G.	M.	S.	G.	M.	S.	G.	M.	S.	G.	M.	M.	S.	M.	S.	H.	M.	
					A.			A.			=								
1	=	4	7	47	1	7	50	20	21	35	16	47	31	58	58	40	18	30	
					B.														
2		18	0	10	0	5	12	15	22	58	16	44	32	15	59	12	19	22	
3	K	2	7	23	1	19	8	9	30	27	16	41	32	30	59	40	20	12	
4		16	28	49	2	29	16	3	4	5	16	38	32	42	60	3	21	2	
					B.														
5	v	1	2	19	3	30	37	3	37	20	16	35	32	49	60	12	21	53	
6		15	43	26	4	18	30	10	10	54	16	32	32	51	60	20	22	46	
7	♄	0	25	46	4	49	16	16	10	37	16	29	32	46	60	10	23	40	
8		15	1	45	5	0	28	21	11	18	16	26	32	34	59	47		♃	
9		29	23	38	4	53	14	24	50	38	16	23	32	15	59	13	0	39	
10	♁	13	24	58	4	27	51	26	54	14	16	20	31	53	58	29	1	39	
11		27	1	53	3	47	45	27	12	5	16	17	31	25	57	40	2	38	
12	♂	10	13	2	2	56	24	26	2	5	16	14	50	58	56	51	3	34	
13		22	59	32	1	57	31	23	27	55	16	10	30	34	56	5	4	26	
14	♁	5	24	36	0	54	30	19	49	54	16	7	30	11	55	23	5	15	
					A.														
15		17	32	42	0	9	42	15	27	18	16	4	29	55	54	53	6	0	
16		29	28	58	1	12	26	10	33	13	16	1	29	44	54	32	6	42	
17	♁	11	18	56	2	11	29	5	18	40	15	58	29	39	54	22	7	21	
					A.														
18		23	7	55	3	4	45	0	6	20	15	55	29	38	54	20	8	0	
19	♁	5	0	53	3	50	14	5	31	45	15	52	29	43	54	29	8	40	
20		17	2	2	4	25	59	10	48	42	15	49	29	51	54	46	9	22	
21		29	14	37	4	50	15	15	45	12	15	46	30	4	55	9	10	7	
22	♁	11	40	52	5	1	8	20	9	29	15	43	30	19	55	32	10	55	
23		24	21	42	4	57	47	23	43	33	15	40	30	36	56	9	11	47	
24	♁	7	17	6	4	39	8	26	10	18	15	37	30	54	56	42	12	41	
25		20	26	15	4	5	25	27	13	8	15	34	31	12	57	15	13	39	
26	♁	3	47	45	3	17	46	26	44	30	15	31	31	23	57	45	14	37	
27		17	20	9	2	18	14	24	39	44	15	28	31	43	58	12	15	33	
28	♁	1	2	4	1	9	55	21	6	59	15	25	31	55	58	36	16	27	
					B.														
29		14	52	26	0	3	20	16	21	23	15	22	32	7	58	57	17	18	
30		28	50	39	1	17	10	10	41	57	15	19	32	15	59	13	18	7	
31	♁	12	55	50	2	26	32	4	26	32	15	16	32	22	59	26	18	55	



# M A J U S.

D. Mens.

Phænomena & Observationes

1 in nodo ascend. & ad h & η χ φ θ ε ζ  
 2 γ δ λ μ ζ ι θ ρ σ τ  
 3 ad ε & σ κ λ ψ φ χ  
 4 ad κ λ η  
 5 Perigæa ad η & δ ε ζ  
 6 ad μ υ η π ρ  
 7 ad μ Ceti ε μ σ ν  
 8 ad ε δ τ υ & Pleiades  
 9 ad φ & Α γ δ θ χ ε ζ  
 10 ad ρ & ο β γ δ  
 11 ad η θ μ υ ν σ π  
 12 ad ζ δ λ Α υ κ π  
 13 ad ψ μ ζ c γ θ  
 14 in nodo descen. entic & ad δ ε ζ κ θ  
 15 ad ω ξ ο η π α ρ  
 16 ad ι ρ λ ρ  
 17 ad χ υ σ τ υ ρ  
 18 Apogæa ad β c η π  
 19 ad γ χ ψ θ π ρ  
 20 ad α ι μ  
 21 ad κ λ η μ ρ μ  
 22 ad α ν ι ζ γ α  
 23 ad η κ θ λ δ π β υ σ α μ  
 24 ad Α ε ρ Β Ophiuc.  
 25 ad γ μ δ λ  
 26 ad ρ σ ζ τ ο π χ  
 27 ad ω Α β γ  
 28 ad h & τ ψ η θ υ ζ ι ζ  
 29 in nodo ascend. & ad ε γ δ λ ζ  
 30 ad ρ σ κ λ  
 31 ad ψ φ κ λ η

Phases Lunæ.

- 1 Ultimus Quadrans h. 13. m. 30. in gr. 11. m. 56.
- 2 Novilunium h. 5. m. 37. in θ gr. 18. m. 23.
- 3 Primus Quadrans h. 16. m. 7. in ρ gr. 25. m. 34.
- 4 Plenilunium h. 16. m. 32. in → gr. 3. m. 16.
- 5 Ultimus Quadrans h. 19. m. 8. in η gr. 10. m. 4.

D. Mens.

Phænomena & Observationes Planetarum.

- 1 ♄ in digressionē maxima
- 2 ♃ ad 1 h ≈ hor. 19 m. 44. dist. centr. ♃ 4. m. Bor.
- 3 ♃ ad 2 h ≈ h. 22. m. 54. dist. centr. ♃ 21. m. Bor.
- 7 ♃ ad χ ≈ h. 9. m. 4. dist. centr. ♃ 1. gr. 11. m. Bor.
- 8 ♃ ad φ ≈ h. 11. m. 44. dist. centr. ♃ 37. m. Austr.
- 9 ☉ Stationarius.
- 10 ♃ Stationarius.
- 14 ♃ Stationarius.
- 19 ♃ ad ε θ h. 15. m. 45. dist. centr. θ 1. gr. 59. m. Bor.
- 20 ♃ in nodo ascendente.
- 23 Conjunctio ♃ & ☉ inferior.
- 24 Conjunctio ♃ & ☉ inferior.
- 25 ♃ ad τ θ h. 19. m. 28. dist. centr. θ 9. m. Bor.

Planetæ in parallelis fixarum versantes.

h mense toto in parallelo ρ ↔ & β m  
 π a r. ad 7. in parallelo π ≈ & u ρ a 19. ad 25. α η a 26 ad finem γ Ceti  
 ♃ 1. 2. ρ Ceti. 3. 4. ρ ≈ 5. κ Rigel. 7. 8. ♃ Hydr. 9. 10. ♃ ≈ 11. 12. β ≈ 13. 14. ♃ Orion. 15. 16. h. Eridan. 17. λ Antinoi. 19. 20. ρ m. 21. o Ceti mut. 22. ζ Serp. 23. 24. o ≈ 25. η Orion. 26. η Orion. γ ≈ 27. γ ≈ ζ Orion. 28. ζ Orion. i Antin. 30. 31. ♃ Orionis.  
 ♃ 1. ad 8. α Cor. Hydr. Bor. β Cygni. u h 10. 11. β Pegasi. 12. 13. 14. β Pegasi 35. γ 15. 26. γ 16. 17. 18. 2. ψ θ 20. ε π 21. κ π δ Herc. 22. δ Herc. ε ρ μ Cygni. 23. ε ρ μ Cygni ε ρ. 24. ε ρ. 27. η θ 28. 29. ζ Androm. 30. μ h & γ. 31. α γ.



## M A J U S.

Dies Mensis.	Ortus Planetarum apparentis.		Tempus verum culminationis Planetarum.		Longitudo Planetarum Sole culminante.		Latitudo Planetarum Sole culminante.		Declinatio Planetarum Sole culminante.		Occasus Planetarum apparentis.	
	H.	M.	H.	M.	G.	M.	G.	M.	G.	M.	H.	M.

## ♄ Saturnus.

1	13	21	17	53	5 <sup>MC</sup>	24	0	A 21	19	A 17	22	25
7	12	58	17	30	5	30	0	21	19	16	22	2
13	12	35	17	7	5	32	0	22	19	16	21	39
19	12	11	16	43	5	31	0	23	19	17	21	15
25	11	47	16	19	5	27	0	24	19	18	20	51

## ♃ Jupiter.

1	15	30	21	34	2 <sup>V</sup>	50	1	A 7	0	B 7	3	38
7	15	10	21	15	4	6	1	8	0	36	3	20
13	14	49	20	56	5	19	1	9	1	4	3	3
19	14	27	20	37	6	29	1	10	1	31	2	47
25	14	5	20	17	7	37	1	11	1	57	2	29

## ♂ Mars.

1	14	49	20	9	9 <sup>X</sup>	16	1	A 35	9	A 24	1	29
7	14	36	20	3	13	46	1	39	7	55	1	50
13	14	21	19	56	18	14	1	43	6	14	1	31
19	14	6	19	49	22	42	1	46	4	31	1	32
25	13	51	19	14	27	8	1	49	2	48	1	31

## ♀ Venus.

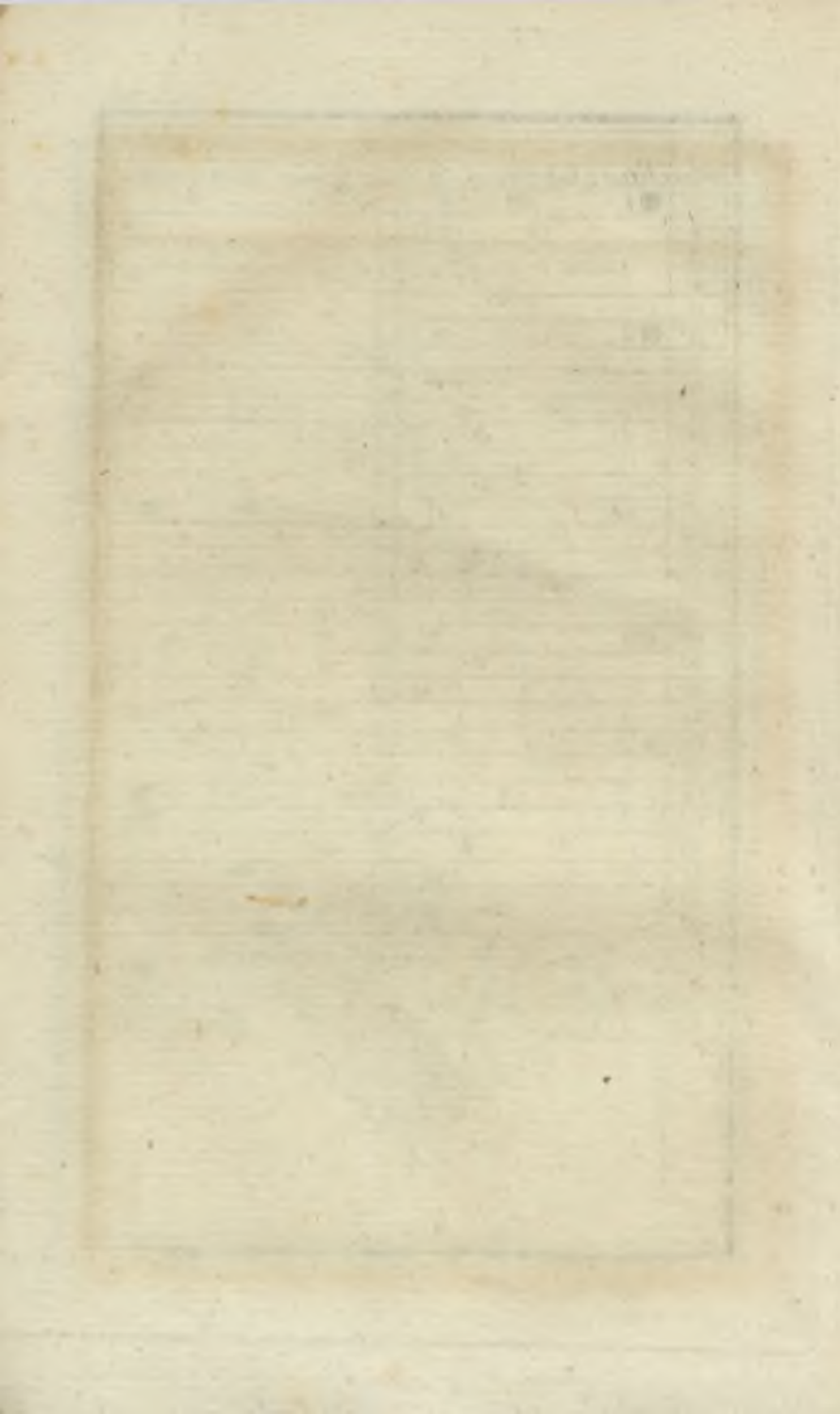
1	17	57	2	22	16 <sup>H</sup>	23	4	B 50	27	B 35	10	47
7	17	40	2	4	17	22	4	33	27	24	10	2
13	17	19	1	39	17	0	3	39	26	48	9	59
19	16	55	1	8	15	10	3	6	25	45	9	21
25	16	38	0	31	12	7	1	55	24	12	8	34

## ♀ Mercurius.

1	17	26	1	23	2 <sup>H</sup>	15	2	B 39	23	B 14	9	20
7	17	18	1	17	6	21	2	43	23	35	9	16
13	17	4	0	59	7	27	1	10	22	44	8	54
19	16	46	0	29	5	48	0	A 25	20	54	8	12
25	16	17	23	48	2	36	2	8	18	37	7	19



		<i>Majus</i>				1785
<i>Dies</i>	<i>Situs Satellitum</i>	<i>¶ tubo Astron. hor. 3. mane</i>				
1	● 1	3.	2.	○	.4	
2		.3	.2 1.	○	.4	
3			.3	○	.1 .2	
4			1.	○	.2 .3 4.	
5			2.	○	1. .3 4.	
6	● 2		.1	○	3.4	
7				○	1. 2.	
8			3. 4.2.	○	● 1	
9		3.4	.2	○	1 ○	
10		4.	.3	○	.1 .2	
11	4.		1.	○	.3.	
12	.4		2.	○	.1 .3	
13	.4		.1	○	3. ● 2	
14		.4		○	1.3 .2	
15			3. 4.	○		
16		3.	.2	○	.4 1 ○	
17			.3	○	.1 .2 .4	
18	● 3		1.	○	2. .4	
19			2.	○	.1 .3 .4	
20			1. .2	○	3.	
21				○	1.3 .2 4.	
22	2 ○		3. .1	○	4.	
23		3.	.2	○	1. 4.	
24		.3		○	1.2 ● 1	
25			4. 1.	○	2. ● 3	
26		4.	2.	○	.1.3	
27	4.		1.2	○	3.	
28	4.			○	1. 3.2	
29	.4		.1.	○	.2.	
30	.4	3. 2.		○	1.	
31		.4.3	.1	○	● 1	
<i>Dies</i>	<i>Situs Satellitum</i>	<i>¶ pro tempore eclip. Vien. visib.</i>				
25		4.	1. 3.	○	2. Emers. III.	







## JUNIUS. ☉

*Solis in Meridiano versantis.*

Dies Mensis.	Longitudo vera. ☉			Metus horarius verus.		Ascensio recta.			Ascensio recta conversa.				Declinatio vera Borealis			Altitudo centri ☉ vera.			
	G.	M.	S.	M.	S. D.	G.	M.	S.	H.	M.	S.	D.	G.	M.	S.	G.	M.	S.	
	1	11	13	28	2	23	7	69	39	54	4	38	39	6	22	9	51	63	56
2	12	10	34	2	23	6	70	41	22	4	42	45	5	22	16	52	64	4	16
3	13	8	19	2	23	6	71	42	57	4	46	51	8	22	24	14	64	11	38
4	14	5	44	2	23	5	72	44	37	4	50	58	5	22	31	14	64	18	38
5	15	3	8	2	23	5	73	46	22	4	55	5	5	22	37	49	64	25	15
6	16	0	31	2	23	4	74	48	12	4	59	12	8	22	45	59	64	31	23
7	16	57	54	2	23	4	75	50	6	5	3	20	4	22	49	46	64	37	10
8	17	55	16	2	23	4	76	52	4	5	7	28	3	22	55	11	64	42	35
9	18	52	37	2	23	4	77	54	7	5	11	36	5	23	0	10	64	47	34
10	19	49	57	2	23	3	78	55	15	5	15	45	0	23	4	45	64	52	9
11	20	47	16	2	23	3	79	58	25	5	19	53	7	23	8	54	64	56	18
12	21	44	35	2	23	3	81	0	39	5	24	2	6	23	12	40	65	0	4
13	22	41	53	2	23	2	82	2	52	5	28	11	5	23	16	3	65	3	27
14	23	39	10	2	23	2	83	5	9	5	32	20	6	23	19	1	65	6	25
15	24	36	26	2	23	2	84	7	27	5	36	29	8	23	21	33	65	8	57
16	25	33	41	2	23	1	85	9	46	5	40	39	1	23	23	40	65	11	4
17	26	30	55	2	23	1	86	12	7	5	44	48	5	23	25	23	65	12	47
18	27	28	9	2	23	1	87	14	28	5	48	57	9	23	26	42	65	14	6
19	28	25	22	2	23	0	88	16	49	5	53	7	3	23	27	35	65	14	59
20	29	22	34	2	23	0	89	19	12	5	57	17	8	23	28	3	65	15	27
21	0	19	46	2	23	0	90	21	34	6	1	26	3	23	28	6	65	15	30
22	1	16	58	2	23	0	91	23	55	6	5	35	7	23	27	46	65	15	10
23	2	14	10	2	23	0	92	26	15	6	9	45	0	23	26	59	65	14	23
24	3	11	21	2	23	0	93	28	34	6	13	54	3	23	25	49	65	13	13
25	4	8	32	2	23	1	94	30	52	6	18	3	5	23	24	14	65	11	38
26	5	5	43	2	23	1	95	33	9	6	22	12	6	23	22	14	65	9	38
27	6	2	54	2	23	1	96	35	22	6	26	21	5	23	19	51	65	7	15
28	7	0	5	2	23	1	97	37	33	6	30	30	2	23	17	1	65	4	25
29	7	57	17	2	23	1	98	39	42	6	34	38	8	23	13	48	65	1	12
30	8	54	29	2	23	1	99	41	48	6	38	47	2	23	10	10	64	57	34

## JUNIUS. ○

*Solis in Meridiano versantis.*

Die Mensis.	Diameter ○ apparents.		Mora transitus disci ○ per Meri- dianum.		Distantia ○ a ○. cuius Di- stantia me- dia.		Ortus centri ○ verus.	Occasus centri ○ verus.	Dies Mensis.	Phænomena & Observationes. ○		
	M. S. D.	M. S. D.	10000.	H. M.	H. M.							
1	31	38	4	2	17	0	10148	16	12	7	48	
2	31	38	0	2	17	1	10149	16	11	7	49	
3	31	37	6	2	17	2	10151	16	10	7	50	
4	31	37	3	2	17	3	10152	16	10	7	50	4 ○ in nodo ascendente ♀
5	31	37	0	2	17	4	10153	16	9	7	51	
6	31	36	8	2	17	5	10154	16	9	7	51	
7	31	36	6	2	17	6	10156	16	8	7	52	
8	31	36	5	2	17	7	10157	16	7	7	53	
9	31	36	4	2	17	8	10158	16	7	7	53	
10	31	36	3	2	17	8	10159	16	6	7	54	
11	31	36	2	2	17	9	10160	16	6	7	54	
12	31	36	0	2	17	9	10161	16	5	7	55	
13	31	35	8	2	17	9	10161	16	5	7	55	
14	31	35	7	2	17	9	10162	16	4	7	56	
15	31	35	6	2	18	0	10163	16	4	7	56	
16	31	35	4	2	18	0	10164	16	4	7	56	20 Ingressus ○ in ♄ h. 15. m.
17	31	35	2	2	18	0	10165	16	4	7	56	42.
18	31	35	1	2	18	0	10165	16	4	7	56	
19	31	35	0	2	18	0	10166	16	4	7	56	
20	31	34	9	2	18	0	10166	16	4	7	56	
21	31	34	8	2	18	0	10166	16	4	7	56	
22	31	34	8	2	18	0	10167	16	4	7	56	
23	31	34	7	2	18	0	10167	16	4	7	56	
24	31	34	7	2	18	0	10168	16	4	7	56	29 ○ in nodo ascendente ♃
25	31	34	6	2	17	9	10168	16	4	7	56	
26	31	34	6	2	17	9	10168	16	4	7	56	
27	31	34	6	2	17	9	10168	16	4	7	56	30 ○ in Apogæo h. 9. m. 22.
28	31	34	5	2	17	8	10168	16	5	7	55	
29	31	34	5	2	17	7	10169	16	5	7	55	
30	31	34	4	2	17	7	10169	16	5	7	55	

## JUNIUS. D

Loca Lunæ Sole in Meridiano versante.

Dies Mensis	Longitudo vera ☾	Latitudo vera ☾	Declinatio vera ☾	Nodus ☾ ascendens	Diameter ☾ horizontalis.	Parallaxis ☾ horizontalis.	Tempus culm. ☾
	S. G. M. S.	G. M. S.	G. M. S.	G. M.	M. S.	M. S.	H. M.
1	κ 27 7 40	B. 3 28 14	B. 2 2 41	15 13	32 28	59 34	19 44
2	ν 11 24 0	4 16 53	8 27 54	15 10	32 28	59 35	20 34
3	25 42 21	4 49 34	14 27 4	15 7	32 25	59 31	21 26
4	δ 9 58 55	5 3 57	19 39 13	15 4	32 18	59 18	22 22
5	24 8 53	5 0 4	23 42 11	15 1	32 6	58 56	23 21
6	π 8 7 18	4 37 59	26 17 39	14 58	31 51	58 27	δ
7	21 49 38	4 0 7	27 12 15	14 55	31 31	57 51	0 20
8	ϖ 5 12 41	3 9 42	26 32 58	14 52	31 10	57 12	1 18
9	18 15 0	2 10 23	24 24 9	14 49	30 48	56 32	2 14
10	♁ 0 56 49	1 5 52	21 3 27	14 46	30 27	55 52	3 4
		A.					
11	13 20 7	0 0 22	16 51 4	14 43	30 8	55 18	3 50
12	25 28 13	1 5 25	12 2 5	14 40	29 54	54 51	4 33
13	♁ 7 25 22	2 6 40	6 50 34	14 37	29 44	54 32	5 13
14	19 16 42	3 1 49	1 27 40	14 33	29 40	54 24	5 53
		A.					
15	♁ 1 7 14	3 49 28	3 57 49	13 30	29 41	54 26	6 37
16	13 2 8	4 27 16	9 16 28	14 27	29 46	54 37	7 12
17	25 6 15	4 53 48	14 17 47	14 24	29 57	54 58	7 55
18	♁ 7 23 39	5 7 13	18 40 43	14 21	30 14	55 28	8 41
19	19 57 30	5 5 59	22 41 28	14 18	30 32	56 3	9 3-
20	2 27 41	4 50 42	25 32 5	14 15	30 54	56 43	10 2-
21	16 0 44	4 19 5	27 2 15	14 12	31 18	57 25	11 2-
22	29 29 43	3 32 25	26 58 20	14 9	31 39	58 4	12 21
23	ζ 13 14 27	2 32 34	25 21 56	14 6	31 57	58 38	13 19
24	27 11 54	1 22 35	22 7 32	14 3	32 11	59 5	14 16
25	11 18 32	0 6 40	17 32 12	14 0	32 22	59 25	15 0
		B.					
26	25 30 45	1 10 18	11 56 55	13 57	32 28	59 35	15 59
27	κ 9 45 53	2 23 14	5 42 35	13 54	32 29	59 38	16 46
		B.					
28	24 0 16	3 27 17	0 47 38	13 51	32 28	59 34	17 37
29	ν 8 12 45	4 12 25	7 13 46	13 48	32 23	59 25	18 26
30	22 21 3	4 53 36	13 15 45	13 45	32 14	59 10	19 17



## JUNIUS. ☾

Loca Lunæ media nocte.

Congress. ☽ cum fixis ☽ Planet

Dies Media.	Longitudo vera. ☽	Latitudo. ☽ vera.	Dia- me- ter. ☽ hori- zontalis	Paralla- xis. ☽ hori- zontalis	Dies Mensis.	Nomen & Chara- cter fixarum & Planetarum.	Tempus verum con- junctionis in lon- gitudinem.		Distantia centri ☽ vera in la- titudinem.	
	G. M. S.	G. M. S.	M. S.	M. S.			H. M.	G. M.		
		B.			9	☽ 5	15	35	0	9 B
1	∇ 4.15.21	3.54.23	32 28	59 36	10	♄ 4	9	16	0	37 B
2	18.33. 7	4.35.23	32 27	59 34	12	♁ 3	3	55	0	11 B
3	♃ 2.51. 9	4.59.13	32 22	59 26	13	♃ 3	9	7	0	4 B
4	17. 5. 3	5. 3.50	32 12	59 8	14	♃ 4	5	34	0	10 A
5	♁ 1. 9.51	4.51.10	31 59	58 43	19	♃ 6	15	18	0	29 B
6	15. 0.42	4.20.50	31 42	58 9		♁ 5	16	12	0	3 A
7	28.33.42	3.36.15	31 20	57 31		♃ 3	18	40	0	32 B
8	♃ 11.46.28	2.40.55	30 58	56 51	20	♁ 1	10	50	0	5 A
9	24.38.23	1.38.34	30 36	56 11	21	♃ 6	14	39	0	33 B
10	♁ 7.10.36	0.32.46	30 18	55 34	22	♃ 5	13	9	0	55 B
		A.				♃ 3	17	16	0	36 B
11	19.25.48	0.33.14	30 0	55 3	23	♃ 5	1	22	0	25 B
12	♁ 1.27.54	1.36.40	29 48	54 40		♃ 5	5	18	0	9 B
13	13.21.32	2.35.12	29 40	54 26		♃ 5	5	25	0	4 B
14	25.11.45	3.26.46	29 39	54 23	24	♃ 5	9	38	1	9 B
15	♁ 7. 3.49	4. 9.40	29 43	54 30	27	♃ 5	23	12	0	24 B
16	19. 2.46	4.42. 5	29 51	54 46		♃ 5	23	19	0	0
17	♁ 1.13. 5	5. 2.18	30 5	55 12						
18	13.38.24	5. 8.28	30 24	55 45						
19	26.21.13	5. 0.39	30 43	56 22						
20	↔ 9.22.52	4.36.51	31 5	57 3						
21	22.43. 3	3.57.30	31 28	57 45						
22	♃ 6.20.17	3. 4. 0	31 49	58 22						
23	20.11.48	1.58.35	32 4	58 53						
24	♁ 4.14.18	0.45. 5	32 17	59 16						
		B.								
25	18.24. 7	0.32. 1	32 25	59 31						
26	♁ 2.38. 0	1.47.35	32 29	59 37						
27	16.53. 3	2.56.38	32 29	59 36						
28	∇ 1. 6.54	3.54.42	32 25	59 30						
29	15.17.33	4.58. 9	32 18	59 18						
30	29.23. 4	5. 4.35	32 10	59 2						

# JUNIUS.

Dies Mensis.	Phænomena & Observationes	Dies Mensis.	Phænomena & Observationes Planetarum.
1	⊙ Perigæa Ⓜ ad ♂ ♄ & ♂ ♀	4	♄ Stationarius.
2	ad ε μ η ρ κ	12	♄ ad ♄ hor. 12. m. 31. dist. centr. 1
3	ad ε μ Ceti ε ν	41.	m. Austr.
4	ad ε δ ζ ν	13	♃ ad ♃ hor. 18. m. 27. dist. centr. 5
5	ad ♂ ♄ & Plejades γ δ ϑ α ς	1.	gr. 31. m. Bor.
6	ad j o β ζ ♂	15	♄ ad ε ( hor. 12. m. 16. dist. centr. 2
7	ad Η η μ γ π	27.	m. Austr.
8	ad γ η ζ λ ο π	♃	in digressionē maxima.
9	ad κ φ π ψ μ ζ ♂	19	♄ ad μ ( hor. 20. m. 0. dist. centr. 2
10	ad ε ε γ δ α κ ♂	1.	gr. 6. m. Bor.
11	in nodo descend. & ad ξ ο ν η Ω	20	♃ Stationaria
12	ad π α Α j Ω		
13	ad ε χ σ τ ρ		
14	Apogæa & ad ν β c π		
15	ad γ γ χ ν		
16	ad ψ θ α j π		
17	ad κ λ π		
18	⊙ ad μ α ν j Δ		
19	⊙ ad ζ η η Δ λ Δ δ π β μ		
20	⊙ ad ψ χ φ Ophiuc. σ α τ μ		
21	⊙ ad ε θ β Ophiuc. γ α		
22	⊙ ad μ δ λ θ ζ τ ο π		
23	⊙ ad ψ ρ ε η φ		
24	⊙ ad η & β ψ η θ ζ		
25	⊙ in nodo ascend. et ad ε γ δ λ ζ		
26	⊙ ad j ρ σ κ λ		
27	⊙ Perig. & ad ψ φ ≈ κ λ κ		
28	⊙ ad δ κ		
29	⊙ ad η & ad δ ε ζ μ κ		
30	⊙ ad ♂ & ad ν η π κ ξ Ceti ε ν		
Phases Lunæ.			
6	Novilunium h. 14. m. 50. in □ gr. 16. m. 56.		
14	Primus Quadrans h. 9. m. 38. in ♀ gr. 24. m. 2.		
23	Plenilunium h. 3. m. 21. in ♂ gr. 1. m. 25.		
28	Ultimus Quadrans h. 27. m. 32. in ♀ gr. 7. m. 56.		
			Planetæ in parallelis fixarum versantes.
			h̄ mense toto in parallelo λ Δ
			♄ a 1 ad 7 β ( . a 7 ad 13 β m. a 13 ad 19 α Ceti. a 25. ad finem ♄ serp. dupl.
			♄ 1. 2. ♄ Orion. 3. δ Orion. γ m. 4. γ m. 5. 6. ζ m. 9. 10. α ( 11. 12. γ Ceti 13. γ Ceti δ Aquil. 14. δ Aquil. 15. 16. α Ceti 17. 18. ♄ serp. dupl. 19. α Epuul. 20. 21. α Epuul. c δ m. β Ophiueh. 22. 23. ε serp. 24. 25. Procyon. 26. γ Orion. 27. γ Orion. ζ κ. 28. ζ κ. 29. 30. ♄ κ α serp.
			♃ in radiis solaribus.
			♃ 7. 8. ♄ Aldebar. β serp. 9. 10. Aldebar. β serp. 11. 12. 13. γ □. 14. γ □. 2. δ ♂. 15. ε δ ♂. 16. 17. α +. 18. ♂. 19. 20. γ ♀. 21. e Pegaf. 22. η Bootis β ♀. 24. β ♀. 25. ε κ Orion.

## JUNIIUS.

Dies, Mens.

Ortus Planetarum apparens.		Tempus verum culminat-ionis planetarum.		Longitudo planetarum Sole culminante.		Latitudo Planetarum Sole culminante.		Declinatio Planetarum Sole culminante.		Occasus Planetarum apparens.	
H.	M.	H.	M.	G.	M.	G.	M.	G.	M.	H.	M.

## ♄ Saturnus.

1	11	18	15	49	5	18	0	A 24	19	A 22	20	20
7	10	53	15	24	5	6	0	25	19	25	19	55
13	10	27	14	58	4	51	0	26	19	29	19	29
19	10	2	14	32	4	34	0	27	19	34	19	2
5	9	37	14	6	4	14	0	27	19	40	18	35

## ♃ Jupiter.

1	13	39	19	53	8	51	1	A 12	2	B 24	2	7
7	13	16	19	32	9	50	1	13	2	47	1	48
13	12	53	19	10	10	44	1	15	3	7	1	27
19	12	30	18	48	11	34	1	16	3	25	1	6
5	12	6	18	26	12	19	1	18	3	41	0	46

## ♂ Mars.

1	13	32	19	32	2	18	1	A 52	0	A 48	1	32
7	13	16	19	23	6	39	1	54	0	B 54	1	30
13	12	59	19	14	11	0	1	56	2	35	1	29
19	12	43	19	5	15	17	1	57	4	13	1	27
5	12	27	18	56	19	31	1	58	5	49	1	25

## ♀ Venus.

1	15	48	23	38	7	47	0	B 20	21	B 57	7	28
7	15	23	23	1	4	23	1	A 4	19	59	6	39
13	14	59	22	28	1	58	2	15	18	23	5	57
19	14	37	22	0	0	55	3	10	17	16	5	23
5	14	17	21	39	1	16	3	48	16	42	4	59

## ☿ Mercurius

1	15	49	23	9	29	27	3	A 38	16	B 31	6	29
7	15	27	22	44	28	59	4	8	15	57	6	1
13	15	10	22	30	1	13	3	57	16	32	5	50
19	14	59	22	26	6	1	3	16	18	7	5	53
5	14	43	22	32	13	0	2	15	20	11	6	1

# JUNIUS.

## Eclipses Satellitum Jovis.

I. SATELLES.			II. SATELL.			III. SATELL.					
Dies Civilis.	Immerfione <sup>s</sup> .			Dies Civilis.	Immerfiones.			Dies Civilis.	Immerfiones.		
	H.	M.	S.		H.	M.	S.		H.	M.	S.
1	9	4	20 V	23	2*	41	16 M	3	9.	59.	9. M
3	3	32	29 V	24	9	9	20 V	6	11.	17.	10. V
5	10	0	37 M	26	3	37	23 V	10	0.	35.	6. V
7	4	28	44 M	28	10	5	28 M	14	1.*	53.	2. M
8	10	56	50 V	30	4	33	32 M	17	3.	10.	54. V
10	5	24	55 V					21	4.	28.	47. M
12	11	52	59 M					24	5.	46.	36. V
14	6	21	3 M					28	7.	4.	32. M
16	0	49	6 M								
17	7	17	9 V								
19	1	45	12 V								
21	8	13	14 M								
<b>IV. Satelles.</b>											
H. M. S.											
1	6	19	23 M	Im							
1	9.	18	26 M.	Em							
18	0.	35	16 M.	Im.							
18	3*	25	2 M.	Em.							





		<i>Junius</i>		<i>1785</i>	
<i>Dies</i>	<i>Situs</i>	<i>Satellitum</i>	$\frac{1}{2}$	<i>tubo astron.</i>	<i>hor. 2. mane</i>
1		.4.3	( )	2.	1○
2		2.	( )	.1.4 3	
3		.2 <sup>6</sup>	( )	.4.3	
4			( )	.1.2 3.	.4
5	3○		.1	( )	2.
6		3.2.	( )	1.	4.
7	● 2	.3	.1	( )	4.
8		.3	( )	3. 2.	4.
9	● 1		2.	( )	.3 4.
10		.2	1.	( )	4. .3
11		4.	( )	.1.2 3.	
12		4.	1.	( )	3. 2.
13	4.	3.2.	( )	1.	
14	4.	.3	.1	( )	● 2
15	.4	.3	( )	1.	.2
16	.4		( )	.3	● 1 2○
17		.4 .2	1.	( )	.3
18	● 4		( )	.1.2 3.	
19		1.	( )	3.2.	
20		3.2.	( )	.1 .4	
21		3.	.1.2	( )	.4
22		.3	( )	1. .2	.4
23	2○		.1	( )	3
24	1○	.2	( )	.3	4.
25			( )	.1.2 3. 4.	
26		1.	( )	3.2.4.	
27		3.2.	( )	.1	4○
28		3. 4. 1.2	( )		
29	4.	.3	( )	1. .2	
30	4.		.1	( )	2. ● 3
<i>Dies</i>	<i>Situs</i>	<i>Satellitum</i>	$\frac{1}{2}$	<i>pro tempore Eclis. Vien. visib.</i>	
14	4.	.3	.1.2	( )	<i>Immers. II.</i>
18	<i>Emers. IV.</i>		.4	( )	.1.2 3.
23	<i>Immers. I.</i>		2○	1.	3



## JULIUS. ☉

Dies A. n. m.	Dies Mens. Civilis.	Dies Nomenclaturæ.	JULIUS.		Tempus mediæ Meridici veræ ☉.			Incre- men- tum di- urnum Tem- poris mediæ.		Distantia o v a Meridiano.			Accelera- tio diurna stellarum fixarum præ motu ☉ veræ.		
			H.	M.	S.	D.	S.	D.	H.	M.	S.	D.	M.	S.	D.
181	1	Vener.	S. Theodor.	0.	3.23.	8		11.	5	17.17.	4	5			
182	2	Sab.	Vilit. B. M. V.	0.	3.35.	3		11.	1	17.12.	56	5		4. 8. 0	
183	3	<i>B. Dom</i>	7. post Pentec.	0.	3.46.	4		10.	8	17. 8.	48	8		4. 7. 5	
184	4	Lun.	S. Udalricus	0.	3.57.	2		10.	5	17. 4.	41	5		4. 7. 1	
185	5	Mart.	S. Guilielmus	0.	4. 7.	7		10.	2	17. 0.	34	2		4. 6. 3	
186	6	Merc.	S. Iſaias Pr.	0.	4.17.	9		9.	9	16.56.	27	4		4. 6. 4	
187	7	Jovis.	S. Wilibaldus.	0.	4.27.	8		9.	4	16.52.	21	0		4. 6. 0	
188	8	Ven.	S. Kilianus	0.	4.37.	2		9.	0	16.48.	15	0		4. 5. 6	
189	9	Sab.	S. Briſtius	0.	4.46.	2		8.	6	16.44.	9	4		4. 5. 3	
190	10	<i>B. Dom</i>	8. post Pentec.	0.	4.54.	8		8.	2	16.10.	4	1		4. 4. 8	
191	11	Lun.	S. Pius	0.	5. 3.	0		7.	7	16.35.	59	3		4. 4. 3	
192	12	Mart.	S. Henric. Imp.	0.	5.10.	7		7.	3	16.31.	55	0		4. 3. 8	
193	13	Merc.	S. Margarita	0.	5.18.	0		6.	8	16.27.	51	2		4. 3. 4	
194	14	Jovis	S. Bonavent.	0.	5.24.	8		6.	2	16.23.	47	8		4. 2. 8	
195	15	Ven.	Divif. Apoft.	0.	5.31.	0		5.	7	16.19.	45	0		4. 2. 2	
196	16	Sab.	Fest. Scap. B. V.	0.	5.36.	7		5.	1	16.15.	42	8		4. 1. 8	
197	17	<i>B. Dom</i>	9. post Pentec.	0.	5.41.	8		4.	7	16.11.	41	0		4. 1. 1	
198	18	Lun.	S. Arnoldus	0.	5.46.	5		4.	0	16. 7.	39	9		4. 0. 5	
199	19	Mart.	S. Arſenius	0.	5.50.	5		3.	4	15.59.	39	3		4. 0. 1	
200	20	Merc.	S. Hier. Æmil.	0.	5.53.	9		2.	9	15.55.	39	8		3.59. 5	
201	21	Jovis.	S. Daniel	0.	5.56.	8		2.	4	15.51.	40	9		3.58. 9	
202	22	Vener.	S. M. Magd.	0.	5.59.	2		1.	8	15.47.	42	4		3.58. 5	
203	23	Sab.	S. Liborius	0.	6. 1.	0		1.	4	15.43.	44	6		3.57. 8	
204	24	<i>B. Dom</i>	10. post Pentec.	0.	6. 2.	4		0.	7	15.39.	47	4		3.57. 2	
205	25	Lun.	S. Jacobus	0.	6. 3.	1		0.	1	15.35.	50	8		3.56. 6	
206	26	Mart.	S. Anna.	0.	6. 3.	2		0.	5	15.31.	54	7		3.56. 1	
207	27	Merc.	S. Camil. de L.	0.	6. 1.	7		1.	0	15.27.	59	3		3.55. 4	
208	28	Jovis.	S. Innocent.	0.	6. 0.	0		2.	3	15.24.	4	4		3.54. 9	
209	29	Vener.	S. Martha. V.	0.	5.57.	7		2.	8	15.20.	9	9		3.54. 5	
210	30	Sab.	S. Joan. Cant.	0.	5.54.	9				15.16.	16	1		3.53. 8	
211	31	<i>B. Dom.</i>	11 post Pentec.	0.	5.54.	9									

## JULIUS. 0

*Solis in Meridiano versantis.*

Dies Mens.	Longitudo vera.	Motus horarius verus.	Ascensio recta.	Ascensio recta conversa.	Declinatio vera Borealis.	Altitudo centri vera.
	☉					
	G. M. S.	M. S.	G. M. S.	H. M. S. D.	G. M. S.	G. M. S.
1	9. 51. 42	2. 23. 1	100. 43. 52	6.42.55.5	23. 6. 7	64. 53. 31
2	10. 48. 55	2. 23. 1	101. 45. 52	6.47. 3.5	23. 1. 40	64. 49. 4
3	11. 46. 8	2. 23. 1	102. 47. 48	6.51.11.2	22. 56. 49	64. 44. 13
4	12. 43. 21	2. 23. 1	103. 49. 40	6.55.18.7	22. 51. 35	64. 38. 59
5	13. 40. 35	2. 23. 2	104. 51. 27	6.59.25.8	22. 45. 56	64. 33. 20
6	14. 37. 49	2. 23. 2	105. 53. 9	7. 3.32.6	22. 39. 53	64. 27. 17
7	15. 35. 3	2. 23. 2	106. 54. 45	7. 7.39.0	22. 33. 28	64. 20. 52
8	16. 32. 17	2. 23. 2	107. 56. 15	7.11.45.0	22. 26. 38	64. 14. 2
9	17. 29. 31	2. 23. 2	108. 57. 39	7.15.50.6	22. 19. 25	64. 6. 49
10	18. 26. 45	2. 23. 3	109. 58. 58	7.19.55.9	22. 11. 50	63. 59. 14
11	19. 24. 0	2. 23. 3	111. 0. 10	7.24. 0.7	22. 3. 52	63. 51. 16
12	20. 21. 15	2. 23. 3	112. 1. 15	7.28. 5.0	21. 55. 29	63. 42. 53
13	21. 18. 30	2. 23. 3	113. 2. 12	7.32. 8.8	21. 46. 44	63. 34. 8
14	22. 15. 45	2. 23. 3	114. 3. 3	7.36.12.2	21. 37. 39	63. 25. 3
15	23. 13. 0	2. 23. 3	115. 3. 45	7.40.15.0	21. 28. 10	63. 15. 34
16	24. 10. 15	2. 23. 4	116. 4. 18	7.44.17.2	21. 18. 20	63. 5. 44
17	25. 7. 30	2. 23. 4	117. 4. 45	7.48.19.0	21. 8. 7	62. 55. 31
18	26. 4. 45	2. 23. 4	118. 5. 1	7.52.20.1	20. 57. 34	62. 44. 56
19	27. 2. 0	2. 23. 4	119. 5. 9	7.56.20.6	20. 46. 38	62. 34. 2
20	27. 59. 16	2. 23. 4	120. 5. 10	8. 0.20.7	20. 35. 23	62. 22. 47
21	28. 56. 32	2. 23. 4	121. 5. 3	8. 4.20.2	20. 23. 48	62. 11. 1
22	29. 53. 49	2. 23. 5	122. 4. 45	8. 8.10.1	20. 11. 50	61. 59. 1.
23	0. 51. 7	2. 23. 5	123. 4. 24	8.12.17.6	19. 59. 33	61. 46. 57
24	1. 48. 26	2. 23. 5	124. 3. 51	8.16.15.4	19. 46. 56	61. 34. 20
25	2. 45. 46	2. 23. 5	125. 3. 9	8.20.12.6	19. 33. 59	61. 21. 23
26	3. 43. 6	2. 23. 5	126. 2. 18	8.24. 9.2	19. 20. 43	61. 8. 7
27	4. 40. 28	2. 23. 5	127. 1. 19	8.28. 5.3	19. 7. 7	60. 54. 31
28	5. 37. 51	2. 23. 5	128. 0. 10	8.32. 0.7	18. 53. 11	60. 40. 35
29	6. 35. 15	2. 23. 5	128. 58. 54	8.35.55.6	18. 38. 58	60. 26. 22
30	7. 32. 40	2. 23. 5	129. 57. 31	8.39.50.1	18. 24. 27	60. 11. 51
31	8. 30. 6	2. 23. 6	130. 55. 58	8.43.43.9	18. 9. 35	59. 56. 56



## JULIUS. ☉

## Solis in Meridiano versantis

Dies Mensis.	Diameter ☉ apparens.		Mora trans- itus diei ☉ per Meri- dianam.		Distantia ☉ a ♁ ejus dist. media 10000.	Ortus centri ☉ verus.		Occi- sus centri ☉ verus		Dies Mensis.	Phænomena & Observationes. ☉
	M. S.	M. S.	M. S.	M. S.		H. M.	H. M.				
1	31. 34. 4	2. 17. 7	10169	16. 6	7. 54						
2	31. 34. 4	2. 17. 6	10169	16. 6	7. 54	11	☉ in parallelo ♁ Herculis culm. h. 8. m. 56.				
3	31. 34. 4	2. 17. 5	10168	16. 7	7. 53						
4	31. 34. 5	2. 17. 5	10168	16. 7	7. 53	14	☉ in nodo ascendente ♁				
5	31. 34. 5	2. 17. 4	10168	16. 8	7. 52	17	Conjunctio ☉ & ♁ superior				
6	31. 34. 6	2. 17. 3	10168	16. 8	7. 52	21	☉ in parallelo <i>Arcturi</i> culm. h. 6. m. 1.				
7	31. 34. 6	2. 17. 2	10168	16. 9	7. 51						
8	31. 34. 6	2. 17. 1	10167	16. 9	7. 51	22	Ingressus ☉ in R h. a m. 35.				
9	31. 34. 7	2. 17. 0	10167	16. 10	7. 50						
10	31. 34. 7	2. 16. 9	10166	16. 11	7. 49	24	Oppositio ☉ & ♁				
11	31. 34. 8	2. 16. 8	10166	16. 11	7. 49	25	☉ in Parallelo ♁ <i>Mercurii</i> culm. h. 5. m. 23.				
12	31. 34. 9	2. 16. 7	10166	16. 12	7. 48						
13	31. 35. 0	2. 16. 5	10165	16. 13	7. 47						
14	31. 35. 2	2. 16. 4	10165	16. 14	7. 46						
15	31. 35. 3	2. 16. 2	10164	16. 15	7. 45						
16	31. 35. 4	2. 16. 0	10163	16. 16	7. 44						
17	31. 35. 6	2. 15. 9	10162	16. 17	7. 43						
18	31. 35. 7	2. 15. 7	10161	16. 18	7. 42						
19	31. 35. 8	2. 15. 5	10161	16. 19	7. 41						
20	31. 36. 0	2. 15. 3	10160	16. 20	7. 40						
21	31. 36. 2	2. 15. 1	10159	16. 21	7. 39						
22	31. 36. 5	2. 15. 0	10158	16. 23	7. 37						
23	31. 36. 7	2. 14. 9	10157	16. 24	7. 36						
24	31. 36. 9	2. 14. 7	10156	16. 25	7. 35						
25	31. 37. 0	2. 14. 5	10154	15. 25	7. 34						
26	31. 37. 2	2. 14. 3	10153	16. 28	7. 33						
27	31. 37. 5	2. 14. 0	10152	16. 29	7. 31						
28	31. 37. 8	2. 13. 8	10151	16. 30	7. 30						
29	31. 38. 1	2. 13. 6	10149	16. 31	7. 29						
30	31. 38. 4	2. 13. 4	10148	16. 32	7. 28						
31	31. 38. 6	2. 13. 2	10147	16. 33	7. 27						

# JULIUS. D

*Loca Lunæ Sole in Meridiano versante.*

Dies Mensis	Longitudo vera			Latitude vera			Declinatio vera			Nodus ascensus		Diameter horizontalis		Paral. horizontalis		Tempus culmin.		
	♌	♍	♎	G.	M.	S.	G.	M.	S.	G.	M.	S.	M.	S.	M.	S.	H.	M.
	B.			B.			B.			G. M.		M. S.		M. S.		H. M.		
1	♌	6.23.20		5.	10.	49	18.34.38			13.42.		31.59		58.42		20.10		
2		20.17.28		5.	9.	1	22.50.14			13.39.		31.46		58.18		21.6		
3	♍	4.1.21		4.	50.	56	25.46.27			13.36.		31.28		57.40		22.4		
4		17.32.52		4.	15.	59	27.8.22			13.33.		31.15		57.20		23.1		
5	♎	0.50.13		3.	27.	47	26.57.47			13.30.		30.56		56.48		23.57		
6		13.52.12		2.	29.	18	25.15.12			13.27.		30.39		56.16		♄		
7		26.38.16		1.	24.	25	22.15.52			13.24.		30.24		55.44		0.51		
8	♏	9.8.48		0.	16.	36	18.16.45			13.21.		30.7		55.14		1.38		
9		21.25.12		0.	50.	49	13.34.54			13.18.		29.54		54.50		2.22		
10	♐	3.29.45		1.	54.	57	8.27.31			13.15.		29.43		54.31		3.4		
11		15.25.31		2.	53.	22	3.54.42			13.12.		29.38		54.21		3.44		
12		27.16.29		3.	43.	57	2.20.37			13.9.		29.38		54.21		4.23		
13	♑	9.7.7		4.	24.	57	7.40.14			13.6.		29.43		54.29		5.3		
14		21.2.1		4.	54.	49	12.46.25			13.3.		29.52		54.48		5.44		
15	♒	3.6.4		5.	12.	8	17.27.6			13.0.		30.8		55.18		6.28		
16		15.23.52		5.	15.	10	21.31.31			12.57.		30.29		55.55		7.16		
17		27.59.23		5.	4.	22	24.42.44			12.54.		30.53		56.39		8.8		
18	♓	10.55.41		4.	37.	31	26.43.39			12.51.		31.19		57.28		9.3		
19		24.14.40		3.	55.	8	27.14.56			12.48.		31.46		58.18		10.2		
20	♊	7.56.24		2.	58.	16	26.13.35			12.45.		32.10		50.3		11.1		
21		21.59.12		1.	49.	16	23.29.35			12.42.		32.31		59.42		12.0		
22	♈	6.19.23		0.	31.	57	19.15.34			12.39.		32.46		60.9		12.56		
23		20.51.48		0.	48.	35	13.49.0			12.36.		32.52		60.23		13.49		
24	♉	5.30.25		2.	6.	30	7.33.0			12.33.		32.52		60.23		14.40		
25		20.9.0		3.	16.	6	0.53.54			12.30.		32.4		60.11		15.30		
26	♊	4.42.13		4.	12.	37	5.44.8			12.27.		32.35		59.50		16.20		
27		19.5.33		4.	52.	33	12.0.7			12.24.		32.21		59.22		17.11		
28	♋	3.15.58		5.	13.	51	17.32.58			12.21.		32.3		58.50		18.3		
29		17.11.36		5.	15.	47	22.3.26			12.18.		31.45		58.16		18.59		
30	♌	0.51.30		5.	0.	58	25.17.30			12.15.		31.26		57.42		19.56		
31		14.15.30		4.	29.	17	27.1.41			12.12.		31.9		57.9		20.54		

## JULIUS. ☽

Loca Lunæ media nocte

Congress. cum fixis &amp; Planet.

Dies Mensis.	Loca Lunæ media nocte		Congress. cum fixis & Planet.		Dies Mensis.	Nomen & character fixarum & Planetarum.	Tempus verum conjunctionis veræ in longitud.		Distantia centri veræ in latitudinem.	
	Longitudo vera ☉	Latitudo vera ☉	Diameter ☉ horizontalis.	Parallaxis ☉ horizontalis.			H.	M.	G.	M.
	S. G. M. S.	G. M. S.	M. S.	M. S.						
		B.								
1	♄ 13.21.30	5.12.7	31.59	58.42	1	μ ♀ 6	8	31	1	9 B
2	27.10.51	5. 1.27	31.46	58.18		ε ♀ 5	15	42	1	2 B
3	♁ 10.43.46	4.35.19	31.31	57.50	2	b Plej.5	10	41	0	51 B
4	24.13.27	3.53.19	31.15	57.20		η Plej.3	11	42	0	59 B
5	♁ 7.23.14	2.59.30	30.56	56.48	9	A Ω 5	11	55	0	3 B
6	20.17.13	1 57.26	30.39	56.16	10	d Ω 5	16	57	0	4 A
7	Ω 2.55.26	0.50.40	30.24	55.44		p Ω 6	21	15	0	40 B
		A.			12	q ♀ 6	22	43	0	57 B
8	15.18.40	0.17.21	30. 7	55.14	17	b ♀ 6	0	17	0	22 B
9	17.28.46	1.23.28	29.54	54.50		A ♀ 5	1	10	0	9 A
10	♄ 9.28.28	2.25. 0	29.43	54.31		π ♀ 3	3	37	0	26 B
						α ♀ 1	16	16	0	14 A
11	21.21.23	3.19.43	29.38	54.21	19	p ♀ 6	0	0	0	2 B
12	♁ 3.11.33	4. 5.42	29.38	54.21		S ♀ 5	22	39	0	52 B
13	15. 3.42	4.41.20	29.43	54.29	20	σ ♀ 3	2	28	0	34 B
14	27. 2.38	5. 5. 6	29.52	54.48		ψ ♀ 5	10	25	0	2 B
15	♄ 9.13. 0	5.15.26	30. 8	55.18		IX ♀ 5	14	19	0	9 B
16	21.39.12	5.11. 9	30.29	55.55	22	X ♀ 5	1	24	0	4 B
17	4.24.46	4.52.55	30.53	56.39		h ♀ 5	18	37	1	8 B
18	17.32.19	4.18.15	31.19	57.28	25	S ♀ 5	7	29	0	26 B
19	X 1. 2.45	3.28.25	31.46	58.18	28	λ ♀ 5	5	42	0	4 B
20	14.55.18	2.25. 5	31.11	59. 4		μ ♀ 6	13	52	1	12 B
					28	ε ♀ 5	21	4	1	7 B
21	29. 7.24	1.11.20	32.31	59.42	29	b Blej.5	16	9	0	55 B
		B.				η Blej.3	17	12	1	4 B
22	≈ 13.34.27	0. 8.17	32.46	60.10	30	X ♀ 5	7	56	0	53 B
23	28.10.45	1.28.13	32.52	60.23						
24	X 12.50. 6	2.42.40	32.57	60.23						
25	27.26.27	3.46.16	32.46	60.11						
26	ν 11.55.21	4.34.48	32.35	59.50						
27	26.12.31	5. 5.37	32.21	59.22						
28	♄ 10.15.40	5.17. 9	32. 3	58.50						
29	24. 3.32	5. 9.55	31.45	58.16						
30	♁ 7.35.30	4.47. 2	31.26	57.4						
31	10.51.46	4. 8. 6	31. 9	57. 9						

# JULIUS.

Dies M.	Phænomena & Observationes 3.
1	ad μ ο γ
2	ad φ & ad Plejades γ δ ε
3	ad θ γ α ο ι κ
4	ad θ & γ δ ε ζ
5	ad μ ν ξ π
6	ad λ υ κ π
7	ad ψ μ σ ς γ δ
8	in nodo defc. & ad α κ ξ ο Ω
9	ad ν η α Δ Ω
10	ad c χ υ δ
11	ad τ υ Ω ν β π
12	Apogæa & ad c η γ π
13	ad χ ψ θ α π
14	ad i κ π
15	ad μ α Δ ι
16	ad ν ζ γ η κ θ λ α
17	ad θ π β υ α τ μ ψ φ Opine.
18	ad ε θ B Opiychi.
19	ad γ υ δ λ ε ζ
20	ad σ ζ τ ο ψ χ
21	ad η & ad ω Δ β ψ ζ
22	in nod. asc. & ad η θ ν ε κ γ ζ
23	ad j θ ρ σ
24	Perig. & ad x λ ψ φ
25	ad λ κ ε
26	ad π & δ ε ζ η
27	ad μ ν η π κ λ
28	ad φ & ad ε μ σ ν
29	ad δ & τ ν Plejad.
30	ad γ δ θ χ ζ α ο ι κ
31	ad φ & ad ο β ζ ε

Phases Lunæ	
6	Novilunium h. 1. m. 32. in Ω gr. 14. m. 41.
14	Primus Quadrans h. 2. m. 39. in α gr. 22. m. 28.
21	Plenilunium h. 12. m. 28. in Δ gr. 29. m. 25.
28	Ultimus Quadrans h. 4. m. 23. in ε gr. 5. m. 48.

Dies M.	Phænomena & Observations Planetarum
1	♂ ad ο )( h. 11. m. 2. dist. centri ♂ 20. m. Austr.
1	♀ ad ι δ ε h. 2. m. 40. dist. centri ♀ 15. m. Austr.
2	♀ ad 2 δ ε h. 16. m. 55. dist. centri ♀ 8. m. Austr.
3	♀ ad η □ h. 22. m. 4. dist. centri ε 14. m. Austr.
5	♀ ad η □ h. 6. m. 12. dist. centri ε 45. m. Bor.
6	♂ ad μ □ h. 6. m. 0. dist. centri ε 52. m. Bor.
9	♂ ad Aldebar. h. 1. m. 22. dist. centr. ♀ 1. gr. 5. m. Bor.
12	♂ in nodo ascendente.
15	♂ ad e )( h. 0. m. 0. dist. centri ♀ 12. m. Austr.
17	Conjunctio ♀ & ☉ superior.
18	♀ ad μ ε h. 5. m. 26. dist. centr. ε 18. m. Bor.
20	♀ ad m ε h. 13. m. 47. dist. centr. ♀ 1. m. Bor.
21	♀ in nodo ascendente. ♂ ad c ε h. 16. m. 8. dist. centr. ε 24. m. Bor.
22	Oppositio η & ☉
28	♂ ad σ γ h. 8. m. 13. dist. centr. ♂ 56. m. Austr.

Planetæ in parallelis fixarum versantes.

η a γ ad finem in parallelo 54. Eridani.  
 π a ε ad 13 in parallelo 1 R. a γ ad finem α  
 Equales.  
 ♂ 1 α Orion. 2. β Ceti. 4. 5. α Aquil. 6. β Scap. min.  
 7. β c-n. min. 8. Pegaf. 8. Pegaf. 9. β Cephei. 10.  
 11. β Ceph. 12. 13. γ Aquil. 14. 15. δ Delph.  
 17. δ serp. 18. 19. δ serp. 20. 21. ε Δ 2. m.  
 21. ε π 22. ε m γ Lyr. 24. α Ophiuc. 25. α  
 Ophiuc. Regul. 26. Regulus. 27. 28. ν Ω. 29.  
 ν Ω β Delphin. 30. β Delphin γ Pegaf. 31.  
 γ Pegaf.  
 ♀ 1. 2. 3. 2 δ ε. 2 ad q. 1 & 2 δ ε. 10. 11.  
 1 δ ε. 12. 13. α → 14. 15. α → η Ω. 16.  
 17. η Ω. 18. 19. 20. 21. γ ν. 22. 23. ε ε  
 24. 25. 26. ε ε. c Pegaf. 27. ε Pegaf. 29. 30.  
 31. η Bootis.



## JULIUS.

Dies Mensis.	Ortus Planetarum apparens.		Tempus verum culminacionis Planetarum.		Longitudo Planetarum Sole culminante.		Latitudo Planetarum Sole culminante.		Declinatio Planetarum Sole culminante.		Occasus Planet. apparens.	
	H.	M.	H.	M.	G.	M.	G.	M.	G.	M.	H.	M.
<i>♄ Saturnus.</i>												
1	9	11	13	40	3	≈ 52	0	A 28	19	A 45	18	9
7	8	4	13	13	3	28	0	29	19	52	17	42
13	8	19	12	47	3	2	0	29	19	59	17	15
19	7	53	12	31	2	26	0	30	20	6	16	49
25	7	29	11	56	2	9	0	30	20	12	16	23
<i>♃ Jupiter.</i>												
1	11	43	18	4	12	√ 58	1	A 19	3	B 55	0	25
7	11	21	17	42	13	32	1	21	4	6	0	3
13	10	57	17	19	13	59	1	23	4	15	23	41
19	10	33	16	56	14	20	1	24	4	23	23	19
25	10	10	16	33	34	34	1	26	4	26	22	56
<i>♂ Mars.</i>												
1	12	11	18	47	23	√ 44	1	A 59	7	B 22	1	23
7	11	53	18	37	27	52	1	59	8	52	1	21
13	11	39	18	28	7	♄ 55	1	59	10	18	1	17
19	11	23	18	19	5	54	1	58	11	39	1	15
25	11	9	18	11	9	48	1	57	12	55	1	13
<i>♀ Venus.</i>												
1	14	1	21	21	2	□ 54	4	A 11	16	B 39	4	41
7	13	46	21	8	5	34	4	23	16	56	4	30
13	13	35	20	59	9	4	4	25	17	28	4	23
19	13	24	20	52	13	14	4	18	18	9	4	20
25	13	16	20	48	17	56	4	7	18	49	4	20
<i>☿ Mercurius.</i>												
1	14	57	22	48	22	□ 29	1	A 1	22	B 14	6	39
7	15	14	23	13	3	♄ 41	0	B 11	23	36	7	12
13	15	45	23	44	16	12	1	8	23	37	7	43
19	16	20	0	10	28	58	1	41	22	2	8	0
25	17	3	0	37	11	♄ 12	1	46	19	9	8	11



		<i>Julius</i>				1785
<i>Dies</i>	<i>Situs</i>	<i>Satellitum</i>	$\frac{1}{2}$	<i>tubo</i>	<i>Astron. hor. 12. noctis</i>	
1	4	2		l	.3	
2	.4				3	● l ● 2
3	.4				3.2	l ○
4		.4	3.2		.l	
5		3	.2 l .4			
6		.3			.l.4.2	
7			.l.3		2	.4
8		1	2		l .3	.4
9	● 2			.l		.3
10	l ○				.2	.4
11			2.3	.l		.4
12		3	.2 l			4
13		.3			.2.7	
14			l.3 4		2	
15		4	2		l.3	
16	4		.l.2			.3
17	4			l	.2 <sup>3</sup>	
18	.4					● l 2 ○ 3 ○
19	.4	3	.2 l			
20		.4	.3		.2.l	
21			.4.3 l		2	
22			2		.3	
23			.2.l			.4 .3
24				l	.2 3	.4
25	● 1			2.3		.4
26	l ○		2.3			
27		3			.2.l	.4
28			.3 l		2	.4
29			2		.3 .l	.4
30			.2.l		4	.3
31			4		l .2 .3	
<i>Dies</i>	<i>Situs</i>	<i>Satellitum</i>	$\frac{1}{2}$	<i>pro tempore Eclips. Vien. visib.</i>		
7	<i>Emers. III.</i>		.l.3	2		.4
9	<i>Immers. I.</i>	● 2	.l			.3
16		4	.l			.3 <i>Imers. II.</i>
16	● 2	4	.l			.3 <i>Imers. I.</i>
24	<i>Immers. I</i>		.l	3		.4





## AUGUSTUS. ○

Dies Astronom.	Dies Nona Civitas.	Dies Hebdomadae.	AUGUSTUS	Tempus me- dium Meri- dii veri ○		Decre- men- tum di- urnum tempo- ris me- dii.	Distantia ○ v a Meridiano.				Accelera- tio diurn. stellarum fixarum pra' motu ○ vero.				
				H. M. S. D.			H. M. S. D.					M. S. D.			
				H.	M.	S.	D.	S.	D.	H.	M.	S.	D.	M.	S.
212	1	Lun.	Petr. ad Vinc.	o. 5	51.	6	3.	9	15.	12.	23.	0	3.	52.	6
213	2	Mart.	Fest. Fortiunc.	o. 5.	47.	7	4.	5	15.	8.	30.	4	3.	52.	1
214	3	Merc.	Invent. S. Steph.	o. 5.	43.	2	5.	1	15.	4.	38.	3	3.	51.	4
215	4	Jovis	S. Dominicus.	o. 5	38.	1	5.	7	15.	0.	46.	9	3.	50.	8
216	5	Vener.	S. Mar. ad Niv.	o. 5.	32.	4	6.	4	14.	56.	56.	1	3.	50.	3
217	6	Sab.	Transfig. Dom.	o. 5.	26.	0	6.	9	14.	53.	5.	8	3.	49.	6
218	7	<i>B. Dom</i>	12. <i>post Pentec.</i>	o. 5.	19.	1	7.	4	14.	49.	16.	2	3.	49.	1
219	8	Lun.	S. Cyriacus	o. 5.	11.	7	8.	1	14.	45.	27.	1	3.	48.	5
220	9	Mart.	S. Romanus.	o. 5.	3.	6	8.	8	14.	41.	38.	6	3.	47.	8
221	10	Merc.	S. Laurentius	o. 4.	54.	8	9.	3	14.	37.	50.	8	3.	47.	2
222	11	Jovis.	S. Susanna	o. 4.	45.	5	9.	8	14.	34.	3.	6	3.	46.	7
223	12	Ven.	S. Clara,	o. 4.	35.	7	10.	5	14.	30.	16.	9	3.	46.	1
224	13	Sab.	S. Hypolitus. †	o. 4.	25.	2	11.	0	14.	26.	30.	8	3.	45.	5
225	14	<i>B. Dom</i>	13. <i>post Pentec.</i>	o. 4.	14.	2	11.	5	14.	22.	45.	3	3.	45.	1
226	15	Lun.	<i>Assumpt. B. V. M.</i>	o. 4.	2.	7	12.	0	14.	19.	0.	2	3.	44.	4
227	16	Mart.	S. Rochus.	o. 3.	50.	7	12.	6	14.	15.	15.	8	3.	43.	9
228	17	Merc.	S. Liberatus	o. 3.	38.	1	13.	1	14.	11.	31.	9	3.	43.	4
229	18	Jovis	S. Helena Imp.	o. 3.	25.	0	13.	6	14.	7.	48.	5	3.	42.	9
230	19	Ven.	S. Ludov. Tol.	o. 3.	11.	4	14.	1	14.	4.	5.	6	3.	42.	4
231	20	Sab.	S. Bernardus	o. 2.	57.	3	14.	6	14.	0.	23.	2	3.	41.	9
232	21	<i>B. Dom</i>	14. <i>post Pentec.</i>	o. 2.	42.	7	15.	1	13.	56.	41.	3	3.	41.	5
233	22	Lun.	S. Tim. & Soc.	o. 2.	27.	6	15.	4	13.	52.	59.	8	3.	41.	0
234	23	Mart.	S. Philipp. Hen.	o. 2.	12.	2	15.	9	13.	49.	18.	8	3.	40.	6
235	24	Merc.	S. Bartholom.	o. 1.	56.	3	16.	3	13.	45.	38.	2	3.	40.	4
236	25	Jovis	S. Ludov. R.	o. 1.	40.	0	16.	6	13.	41.	57.	8	3.	39.	8
237	26	Ven.	S. Zepherin.	o. 1.	23.	4	17.	0	13.	38.	18.	0	3.	39.	3
238	27	Sab.	S. Jol. Cal.	o. 1.	6.	4	17.	3	13.	34.	38.	5	3.	39.	2
239	28	<i>B. Dom</i>	15. <i>post Pentec.</i>	o. 0.	49.	1	17.	6	13.	30.	59.	3	3.	38.	9
240	29	Lun.	Decoil. S. Joan.	o. 0.	31.	5	17.	9	13.	27.	20.	4	3.	38.	6
241	30	Mart.	S. Rosa.	o. 0.	13.	6	18.	3	13.	23.	41.	8	3.	38.	3
242	31	Merc.	S. Raymund.	23.	59.	55.	3		13.	20.	3.	5			

## AUGUSTUS. ☉

*Solis in Meridiano versantis.*

17 Mense	Longitudo vera.	Motus horarius verus.	Ascensio recta.	Ascensio recta conversa	Declinatio vera bo- realis.	Altitudo Centri. ☉ vera.
	G. M. S.	M. S. D.	G. M. S.	H. M. S. D.	G. M. S.	G. M. S.
1	9. 27. 33	2. 23. 6	131. 54. 15	8. 47. 37. 0	17. 54. 29	59. 41. 53
2	10. 25. 3	2. 23. 6	132. 52. 24	8. 51. 29. 6	17. 39. 4	59. 16. 28
3	11. 22. 33	2. 23. 7	133. 50. 25	8. 55. 21. 7	17. 23. 20	59. 10. 44
4	12. 20. 4	2. 23. 7	134. 48. 16	8. 59. 13. 1	17. 7. 19	58. 54. 43
5	13. 17. 37	2. 23. 8	135. 45. 58	9. 3. 3. 9	16. 51. 2	58. 38. 26
6	14. 15. 11	2. 23. 8	136. 43. 33	9. 6. 54. 2	16. 34. 29	58. 21. 53
7	15. 12. 46	2. 23. 9	137. 40. 57	9. 10. 43. 8	16. 17. 38	58. 5. 2
8	16. 10. 22	2. 23. 9	138. 38. 13	9. 14. 32. 9	16. 0. 32	57. 47. 56
9	17. 7. 58	2. 24. 0	139. 35. 21	9. 18. 21. 4	15. 43. 12	57. 30. 36
10	18. 5. 35	2. 24. 0	140. 32. 18	9. 22. 9. 2	15. 25. 38	57. 13. 2
11	19. 3. 13	2. 24. 0	141. 29. 6	9. 25. 56. 4	15. 7. 47	56. 54. 11
12	20. 0. 52	2. 24. 1	142. 25. 46	9. 29. 43. 1	14. 49. 42	56. 37. 6
13	20. 58. 32	2. 24. 1	143. 22. 18	9. 33. 29. 2	14. 31. 22	56. 18. 46
14	21. 56. 14	2. 24. 2	144. 18. 40	9. 37. 14. 7	14. 12. 49	56. 0. 13
15	22. 53. 57	2. 24. 2	145. 14. 57	9. 40. 59. 3	13. 54. 2	55. 41. 26
16	23. 51. 40	2. 24. 3	146. 11. 3	9. 44. 44. 2	13. 35. 2	55. 22. 26
17	24. 49. 24	2. 24. 3	147. 7. 1	9. 48. 28. 1	13. 15. 51	55. 3. 15
18	25. 47. 9	2. 24. 4	148. 2. 52	9. 52. 11. 5	12. 56. 26	54. 43. 50
19	26. 44. 56	2. 24. 5	148. 58. 36	9. 55. 54. 4	12. 36. 49	54. 24. 13
20	27. 42. 44	2. 24. 5	149. 54. 12	9. 59. 36. 8	12. 16. 59	54. 4. 23
21	28. 40. 33	2. 24. 6	150. 49. 40	10. 3. 18. 7	11. 56. 57	53. 44. 21
22	29. 38. 24	2. 24. 7	151. 45. 3	10. 7. 0. 2	11. 36. 45	53. 24. 9
23	29. 36. 17	2. 24. 8	152. 40. 18	10. 10. 41. 2	11. 16. 21	53. 3. 45
24	29. 34. 12	2. 24. 9	153. 35. 27	10. 14. 21. 8	10. 55. 48	52. 43. 12
25	29. 32. 9	2. 25. 0	154. 30. 33	10. 18. 2. 2	10. 35. 3	52. 22. 27
26	3. 30. 7	2. 25. 1	155. 25. 30	10. 21. 42. 0	10. 14. 7	52. 1. 31
27	4. 28. 7	2. 25. 2	156. 20. 22	10. 25. 21. 5	9. 53. 2	51. 40. 26
28	5. 26. 9	2. 25. 3	157. 15. 10	10. 29. 0. 7	9. 31. 48	51. 19. 12
29	6. 24. 14	2. 25. 4	158. 9. 54	10. 32. 39. 6	9. 10. 23	50. 57. 47
30	7. 22. 21	2. 25. 4	159. 4. 33	10. 36. 18. 2	8. 48. 50	50. 36. 14
31	8. 20. 29	2. 25. 5	159. 59. 7	10. 39. 55. 5	8. 27. 0	50. 14. 33

## AUGUSTUS. ☉

Solis in Meridiano versantis.				Ortus centri ☉ verus	Occasus centri ☉ verus	Dies Mensis.	Phænomena & Observationes
Dies Mensis.	Diameter ☉ apparens.	Mora trans- itus disci ☉ per Meri- dianum.	Distanti- a ☉ a $\delta$ cujus dist. media 10000.				
	M. S.	M. S.		H. M.	H. M.		
1	31. 38. 8	2. 12. 8	10145	16. 35	7. 25		
2	31. 39. 0	2. 12. 7	10144	16. 36	7. 24	7	☉ in parallelo $\beta$ Ser- pentis culm. h. 6. m. 25.
3	31. 39. 3	2. 12. 6	10142	16. 37	7. 23		
4	31. 39. 5	2. 12. 5	10141	16. 39	7. 21		☉ in parallelo Aldeberan culm. h. 19. m. 10.
5	31. 39. 8	2. 12. 3	10139	16. 40	7. 20		
6	31. 40. 1	2. 12. 2	10137	16. 41	7. 19	11	☉ in parallelo $\alpha$ Del- phini culm. h. 11. m. 2.
7	31. 40. 4	2. 12. 0	10136	16. 43	7. 17		
8	31. 40. 8	2. 11. 9	10134	16. 45	7. 15	12	☉ in parallelo $\alpha$ Hercu- culm. h. 7. m. 34.
9	31. 41. 2	2. 11. 7	10132	16. 46	7. 14		
10	31. 41. 6	2. 11. 6	10130	16. 47	7. 13	14	☉ in parallelo Mark. culm. h. 13. m. 15.
11	31. 41. 9	2. 11. 4	10128	16. 49	7. 11		item ☉ in parall. <i>Algon</i> . culm. h. 14. m. 23.
12	31. 42. 2	2. 11. 2	10126	16. 51	7. 9		
13	31. 42. 6	2. 11. 0	10125	16. 53	7. 7	15	☉ in parallelo $\beta$ Delph- culm. h. 10. m. 45.
14	31. 43. 0	2. 10. 9	10123	16. 54	7. 6		
15	31. 43. 4	2. 10. 7	10121	16. 55	7. 5	22	Ingressus ☉ in $\alpha$ ♀ h. 8. m. 57.
16	31. 43. 8	2. 10. 5	10118	16. 57	7. 3	26	☉ in parallelo $\gamma$ Aquil- e culm. h. 9. m. 13.
17	31. 44. 1	2. 10. 4	10116	16. 58	7. 2		
18	31. 44. 6	2. 10. 3	10114	17. 0	7. 0	31	☉ in parallelo $\alpha$ Aquilæ culm. h. 8. m. 59.
19	31. 44. 9	2. 10. 1	10112	17. 1	6. 59		
20	31. 45. 4	2. 10. 0	10110	17. 3	6. 57		
21	31. 45. 8	2. 9. 9	10108	17. 5	6. 55		
22	31. 46. 1	2. 9. 8	10105	17. 6	6. 54		
23	31. 46. 6	2. 9. 7	10103	17. 8	6. 52		
24	31. 46. 9	2. 9. 6	10101	17. 10	6. 50		
25	31. 47. 4	2. 9. 5	10099	17. 11	6. 49		
26	31. 47. 8	2. 9. 4	10096	17. 13	6. 47		
27	31. 48. 3	2. 9. 3	10094	17. 15	6. 45		
28	31. 48. 8	2. 9. 2	10091	17. 17	6. 43		
29	31. 49. 3	2. 9. 1	10089	17. 19	6. 41		
30	31. 49. 8	2. 9. 0	10086	17. 20	6. 40		
31	31. 50. 2	2. 8. 8	10084	17. 21	6. 39		

## AUGUSTUS. ☽

Loca Luna Sole in Meridiano versante.

Dies Mensis.	Longitudo vera ☽	Latitudo vera ☽	Declinatio vera ☽	Notus ☽ ascendens.	Diame- ter ☽ horizon- talis.	Parallaxis ☽ horizon- talis.	Tempus veram culmin. ☽
	S. G. M. S.	G. M. S.	G. M. S.	G. M.	M. S.	M. S.	H. M.
1	☐ 27.54.12	B. 3. 43. 5	B. 27.12.44	☾ 12. 9.	31. 0	56. 53	21. 49
2	☉ 10.18. 7	2. 47. 51	25.53.16	12. 6.	30. 42	56. 21	22. 42.
3	22.58.20	1. 44. 28	23.15. 6	12. 3.	30. 20	55. 51	23. 31.
4	♌ 5.25.57	0. 37. 6 A.	19.33.13	12. 0.	30. 13	55. 24	♄
5	17.42.19	0. 31. 1	15. 3.37	11. 57.	29. 29	55. 0	0. 17.
6	29.48.53	1. 36. 49	10. 2.23	11. 54.	29. 48	54. 40	1. 0.
7	♍ 11.47.27	2. 37. 34	4.43.4 A.	11. 51.	29. 40	54. 24	1. 41. 2. 20.
8	23.40.13	3. 31. 0	0.42.29	11. 48.	29. 35	54. 14	
9	♎ 5.30. 1	4. 15. 7	6. 5. 4	11. 45.	29. 35	54. 13	2. 59.
10	17.29. 5	4. 48. 25	11.15. 6	11. 42.	29. 36	54. 18	3. 40.
11	29.14.17	5. 9. 33	16. 2.41	11. 39.	29. 44	54. 33	4. 25.
12	♏ 11.16.49	5. 17. 18	20.15.48	11. 36.	29. 58	54. 58	5. 9.
13	23.32. 3	5. 10. 18	23.42.36	11. 33.	30. 16	55. 32	5. 58.
14	♐ 6. 4.18	4. 50. 10	26. 8. 7	11. 30.	30. 39	56. 16	6. 51.
15	18.57.34	4. 14. 14	27.15.57	11. 26.	31. 8	57. 7	7. 48.
16	♑ 2.15. 7	3. 23. 44	26.52.39	11. 23.	31. 38	58. 2	8. 45.
17	15.58.41	2. 20. 7	24.51.58	11. 20.	32. 8	58. 58	9. 44.
18	≈ 0. 8. 7	1. 6. 2 B.	21.14.40	11. 17.	32. 35	59. 49	10. 41.
19	14.40.56	0. 14. 9	16.14.28	11. 14.	32. 57	60. 31	11. 37.
20	29.31.50	1. 34. 59	10.11.10	11. 11.	33. 12	60. 59	12. 52.
21	♒ 14.33.10	2. 50. 9	3.28.38 B.	11. 8.	33. 18	61. 9	13. 24.
22	29.36.11	3. 53. 30	3.25. 9	11. 5.	33. 13	61. 2	14. 16.
23	√ 14.32. 2	4. 40. 26	10. 2.56	11. 2.	33. 2	60. 40	15. 8.
24	29.13.14	5. 8. 4	16. 1.47	10. 59.	32. 44	60. 4	16. 1.
25	♈ 13.34.36	5. 15. 16	20.58.21	10. 56.	32. 21	59. 22	16. 57.
26	27. 33.29	5. 4. 14	24.36.27	10. 53.	31. 55	58. 36	17. 55.
27	☐ 11. 9.11	4. 35. 52	26.43.44	10. 50.	31. 31	57. 49	18. 53.
28	24.23. 0	3. 53. 23	27.13. 3	10. 47.	31. 7	57. 5	19. 50.
29	♉ 7.17. 0	3. 0. 2	26.17.27	10. 44.	30. 44	56. 24	20. 43.
30	19.54. 6	1. 59. 2	23.57.17	10. 41.	0. 26	55. 49	21. 33.
31	♊ 2.17.16	0. 53. 32	20.33.35	10. 38.	30. 10	55. 20	22. 21.



# AUGUSTUS. ☽

*Loca Lunæ media nocte*

*Congress. ☽ cum fixis & Plan*

Dies Mensis.	Longitudo vera ☽	Latitudo vera. ☽	Diame-ter ☽ Horiz.	Paralla-xis ☽ Horiz.	Dies Mensis.	Nomen & character fixarum & Planetarum.	Tempus ve-rum conjun-ctiois vera in longitu-dinem.		Distantia centri ☽ vera in latit.
	S. G. M.	G. M. S.	M. S.	M. S.			H. M.	G. M.	
		B.							
1	☉ 3.52.55	3.17. 0	30 50	56.36	9	q m 6	6	3	0 57 R
2	16.39.51	2.16.54	30 34	56. 6	13	b m 6	8	48	0 23 B
3	29.13.38	1.11. 6	30 15	55.37		A m 5	9	44	0 8 A
4	☾ 11.35.28	0. 2.56	30 5	55.12		π m 3	12	15	0 26 P
		A.			15	p p 6	9	32	0 29 B
5	23.46.43	1. 4.24	29 51	54.49	16	☽ i i 5	8	36	0 54 P
6	☿ 5.49. 2	2. 7.56	29 43	54.31		σ i i 3	12	35	0 34 R
7	17.44.23	3. 5.21	29 37	54.18		↓ i i 5	20	37	0 24 B
8	29.35.19	3.54.19	29 34	54.12	17	☿ i i 5	0	36	0 8 B
9	☽ 11.24.46	4.33.12	29 35	54.15		☿ i i 5	0	41	0 3 P
10	23.16.25	5. 0.33	29 40	54.24	18	☽ i i 5	17	40	0 26 B
11	♄ 5.14.14	5.15. 3	29 51	54.44	21	☿ i i 5	14	26	0 2 B
12	17.22.33	5.15.29	30 7	55.14	24	☿ i i 5	14	26	0 2 B
13	29.45.47	5. 2.31	30 28	55.53	25	ε γ 5	3	17	1 6 B
14	☽ 12.28. 6	4.34. +30	30 53	56.41		bPlejads	22	1	1 55 F
15	25.33.11	3.45.31	31 23	57.34		ηPlejads	3	23	1 1 4 P
16	☿ 9. 3.32	2.53.27	31 53	58.30	26	☿ i i 5	13	19	0 51 R
17	23. 0.15	1.44.10	32 22	59.24	28	ε η 3	23	21	0 59 B
18	☽ 7.21.54	0.26.24	32 47	60.12	29	η η 6	12	33	0 2 A
		B.			30	μ ☽ 5	12	47	0 5 B
19	22. 4.31	0.54.54	33 6	60.47					
20	☿ 7. 1.43	2.13.41	33 15	61. 6					
21	22. 5. 3	3.23.37	33 17	61. 8					
22	☿ 7. 5.30	4.19.17	33 9	60.53					
23	21.54.49	4.56.47	32 54	60.24					
24	☿ 6.26.39	5.14. 7	32 32	59.43					
25	20.36.59	5.11.23	32 9	58.59					
26	☽ 4.23.13	4.51.59	31 43	58.12					
27	17.48.44	4.16.11	31 19	57.27					
28	☽ 0.59.17	3.27.55	30 54	56.43					
29	13.37.29	2.30.19	30 34	56. 6					
30	26. 6.13	1.26.33	30 18	55.34					
31	☽ 8.24.33	0.20. 3	30 3	55. 7					

# AUGUSTUS.

Eror. Mensis.

Phænomena  
&  
Observationes ☽.

1	☽ ad ♀ η μ ν γ ε □
2	☽ ad ζ δ λ υ κ □
3	☽ ad ψ μ ε γ ω
4	☽ in nodo desc. & ad δ α ξ κ ω
5	☽ ad ε ο ν η π α Ω
6	☽ ad ς & ad ι ρ c χ Ω
7	☽ ad σ τ υ Ω
8	☽ Apogea & ad β c η π
9	☽ ad γ χ ψ θ π
10	☽ ad α ι π
11	☽ ad κ λ π
12	☽ ad α ν ι < γ
13	☽ ad η σ λ ε π β υ m
14	☽ ad α τ μ ε θ Ophiuc.
15	☽ ad γ μ δ
16	☽ ad λ ς α ζ τ ο π
17	☽ ad γ h ω A
18	☽ in nodo ascendente ☽ ad h & π ψ η θ ζ
19	☽ ad ε κ γ δ λ ζ
20	☽ ad ς σ κ λ ψ
21	☽ Perigea & ad κ λ η
22	☽ ad ψ & δ χ
23	☽ ad ε μ η π η
24	☽ ad ζ μ Ceti
25	☽ ad δ τ ν & Plejades
26	☽ ad ς & γ λ θ χ ε α
27	☽ ad ι ο β < δ
28	☽ ad η η μ ν λ ε η
29	☽ ad ζ δ λ υ κ □
30	☽ ad ς & ψ μ ε θ
31	☽ ad ε ε γ δ α κ ω

Phases Luna.

1	Novilunium h. 14. m. 38. in Ω gr. 12. m. 55.
13	Primus Quadrans h. 18. m. 34. in ♄ gr. 20. m. 45.
19	Plenilunium h. 20. m. 51. in ♀ gr. 27. m. 35.
26	Ultimus Quadrans h. 11. m. 17. in ♄ gr. 3 m. 57.

Eror. Mensis.

Phænomena & Observations  
Planetarum.

1	♃ ad α Ω h. 11. m. 17. dist. centr. ♃ 49. m. Bor.
2	♄ Stationarius
3	♃ ad ι ε Ω h. 12. m. 42. dist. centri ♃ 54. m. Bor.
7	♃ in digressionē maxima
11	♃ ad ν □ h. 11. m. 5. dist. centri ♃ 2. m. Austr.
16	♃ ad τ Ω h. 9. m. 32. dist. cent. ♃ 8. m. Bor.
19	♃ ad ζ □ h. 13. m. 56. dist. centri ♃ 29. m. Austr.
21	♄ ad η h. 18. m. 0. dist. centri ♄ 22. m. Austr.
28	♃ in digressionē maxima

Planetarum in Parallelis fixarum versantes.

h a. 1. ad 25. in parallelo ε ζ  
 ♄ niente toto in parallelo α Equulei  
 ♃ 1. 2 δ Delphin. 3. 4. ♃ Boot. ε Aquil  
 5. 6. 7. α Delphin. 8. 9. β Ω 10. β Ω  
 Aldetar. 11. Aldebar. 12. Aldebar. γ  
 Serp. 13. 14. γ Serp. γ □. 15. γ □ 2  
 8. 16. 17. 1 & 2 δ 18. 1. δ 19. 10. 20.  
 21. α 22. α 23. η Ω. 23. η Ω  
 γ ν. 25. 26. 27. γ ν. 28. 29. 30. 31. ε ζ.  
 ♃ 1. 2. 3. 4. 5. γ Herc. 6. 7. 1 χ Orion. 8.  
 9. 1 χ Orion. ν □. a 10 ad 25 1 χ Orion.  
 ν □. Arctur. 26. ν □ 1 χ Orion. 27. 1 χ  
 Orion. 28. 29. 30. 31. β ν. γ. Herc.  
 ♃ 7. ε Delph. 8. β θ. 9. π Ω. 10. α Aquil.  
 11. 1 ε Ceti 12. α Orion. 13. ζ η. 14.  
 Procyon. 15. ε Serp. 16. α Equulei 18. β nr.  
 19. γ Ceti 20. α). 22. η nr. 23. γ nr. 24.  
 ε Orion. 25. 1 Antinoi. 27. γ 28.  
 η Serp. 29. ζ Serp. 30. 0 Ceti mat. 31. θ nr.

# AUGUSTUS.

Dies Mensis.	Ortus Planetsrum apparentis.	H. M. M.	Tempus ve- rum culmi- nationis Pla- netarum.	H. M. M.	Longitudo Planetsrum Sole culmi- name.	G. M. M.	Latitudo Planetsrum Sole culmine.	G. M. M.	Declinatio Planetsrum Sole culmi- n.	G. M. M.	Occasus Planetsrum apparentis.	H. M. M.
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## ♄ Saturnus.

1	7	c	11	26	1	39	o	A 31	20	A 19	15	52
7	6	35	11	1	1	12	o	31	20	25	15	27
13	6	12	10	37	o	48	o	32	20	31	15	2
19	5	48	10	13	o	24	o	32	20	36	14	38
25	5	26	9	50	o	3	o	32	20	41	14	14

## ♃ Joviter.

1	9	43	16	6	14	v 42	1	A 28	4	B 27	22	29
7	9	20	15	43	14	41	1	30	4	25	22	6
13	8	57	15	20	14	33	1	31	4	20	21	45
19	8	34	14	56	14	17	1	33	4	13	21	18
25	8	12	14	33	13	55	1	34	4	3	20	54

## ♂ Mars.

1	10	52	18	o	14	8 12	1	A 54	14	B 18	1	8
7	10	37	17	51	17	54	1	52	15	25	1	5
13	10	24	17	43	21	25	1	48	16	24	1	2
19	10	11	17	34	24	49	1	45	17	18	o	57
25	9	57	17	25	28	3	1	40	18	8	o	53

## ♀ Venus.

1	13	11	20	47	23	4 59	3	A 46	19	B 34	4	23
7	13	10	20	48	29	31	3	25	20	3	4	26
13	13	10	20	50	5	19	3	2	20	20	4	30
19	13	13	20	53	11	23	2	35	20	23	4	33
25	13	18	20	57	17	36	2	9	20	10	4	36

## ♿ Mercurius.

1	17	50	1	1	1	20	1	B 25	14	B 47	8	12
7	18	25	1	10	1	32	o	50	10	39	8	7
13	18	55	1	27	13	48	o	4	6	27	7	59
19	19	20	1	34	22	8	o	A 49	2	23	7	48
25	19	40	1	37	29	23	1	45	1	A 22	2	34





Augustus

1785

*Dias* Situs Satellitum  $\frac{1}{2}$  tubo astron. hor. u. noctis

1	4.	2.3.	(0)		
2	4.	.3.		○	● 1 ● 2
3	.4	.3	1.	○	2.
4	.4		2.	○	.1 ● 3
5		.4	.2 <sup>1</sup> .	○	.3
6			.4	○	1.2 3.
7			.1	○	.4 2.3.
8		2.3.		○	1. .4
9	● 1 ● 2	3.		○	.4
10		.3	1.	○	.2 .4
11	● 3		2.	○	.1
12		.2 1.		○	.3 4.
13				○	.2.1 3. 4.
14			.1	○	2.3.4.
15		2.3.	(4. 1.	○	
17		4. .3		○	.2 1 ○
18	4.		.3	○	.1 2 ○
19	.4	.2 1.		○	.3
20	.4			○	.2.1 .3
21	.4		.1	○	2.3.
22		.4 2. 3.		○	1.
24		.3		○	.4 .2
25	● 1	.3	2.	○	.4
26		2. 1.		○	.3 .4
27				○	.2.1 .3
28		1.		○	2.3. 4.
29	3 ○		2.	○	1. 4.
30		3. 2.1		○	4.
31		.3		○	1. 2.

*Dias* Situs Satellitum  $\frac{1}{2}$  pro tempore Eclips. Vienn. visib.

8	Immersion. I.		.1	○	2.3.
9	Immersion. II.	3.	.2	○	.4 ● 1
11	Immersion. III.		.1	○	
16		3. 4.	.2.1	○	Immersion. I.
17	● 1	3. 4.	.2	○	Immersion. II
19	4.		.3	○	.1 2 ○ Immersion. III
24		3.	.2.1	○	Immersion. I.
24	● 1	3.	.2	○	Immersion. II.
24	● 1	3.	.2	○	Immersion. IV
24	● 1	3.	.4	○	Immersion. II.
31	Immersion. I.	3.	.2	○	4.



# S E P T E M B E R . ○

Dies Astrolog.	Dies Nativ. Civ.	Dies Hebdomad.	SEPTEMBER.	Tempus Meridiei veri ☉		Decrementum diurnum Temporis medi.	Distantia o V a Meridiano.	Acceleratio diurna stellarum fixarum præ motu ☉ vero.
				H. M. S. D.	S. D.			
243	1	Jov.	S. Aegidius.	23-59-36.7		18.	13.16.25.6	3. 37. 6
244	2	Ven.	S. Stephan. R.	23-59-17.8		19. 0	13.12.48.0	3. 37. 4
245	3	Sab.	S. Manfuetus	23-58-58.8		19. 3	13. 9.10. 6	3. 57. 2
246	4	<i>B.Dom.</i>	16. Fest. SS. Ang.	23-58-39.5		19. 5	13. 5.33. 4	
247	5	Lun.	S. Victorin.	23-58-20.0		19. 8	13. 1.56. 4	3. 37. 0
248	6	Mart.	S. Zachar. Pro.	23-58. 0.2		20. 0	12-58.19. 7	3. 36. 7
249	7	Merc.	S. Regina	23-57-40.2		20. 2	12-54.43. 2	3. 36. 5
250	8	Jov.	<i>Nativ. B. V. M.</i>	23-57-20.0		20. 4	12.51. 6. 9	3. 36. 3
251	9	Ven.	S. Corbinianus	23-56-59.6		20. 6	12.47-50. 7	3. 36. 2
252	10	Sab.	S. Nicol. Tol.	23-56-39.0		20. 8	12.43-54. 8	3. 35. 9
253	11	<i>B.Dom.</i>	17. <i>post Pentec.</i>	23-56-18.2		20. 9	12.40.19. 1	3. 35. 7
254	12	Lun.	S. Tobias.	23-55-57.3		20. 8	12.36.43. 4	3. 35. 6
255	13	Mart.	S. Mauric.	23-55-36.5		21. 0	12-33.17. 8	3. 35. 5
256	14	Merc.	Exalt. S. Crucis	23-55-15.5		21. 0	12-29.32. 3	3. 35. 4
257	15	Jov.	S. Hildegard.	23-54-54.5		21. 0	12.25.56. 9	3. 35. 4
258	16	Ven.	S. Ludmilla.	23-54-33.5		21. 1	12.22.21. 5	3. 35. 4
259	17	Sab.	S. Lambert.	23-54-12.4		21. 1	12.18.46. 0	3. 35. 5
260	18	<i>B.Dom.</i>	18. <i>post Pentec.</i>	23-53-51.3		21. 1	12.15.10. 6	3. 35. 4
261	19	Lun.	S. Constantia	23-53-30.2		21. 1	12.11.35. 2	3. 35. 4
262	20	Mart.	S. Eustachius	23-53. 9.1		21. 1	12. 7.59. 8	3. 35. 6
263	21	Merc.	<i>Quat. Temp. †</i>	23-52.48.2		20. 9	12. 4.24. 2	3. 35. 7
264	22	Jov.	S. Maurus.	23-52.27.4		20. 8	12. 0.48. 5	3. 35. 9
265	23	Ven.	S. Thecla. †	23-52. 6.8		20. 6	11.57.12. 6	3. 36. 0
266	24	Sab.	S. Gerardus †	23-51-46.3		20. 5	11.53-36. 6	3. 36. 2
267	25	<i>B.Dom.</i>	19. <i>post Pentec.</i>	23-51-26.0		20. 1	11.50. 0. 4	3. 36. 4
268	26	Lun.	S. Justina	23-51. 5.9		20. 1	11-46.24. 0	3. 36. 6
269	27	Mart.	SS. Cof. & Da.	23-50-46.0		19. 9	11-42.47. 4	3. 36. 8
270	28	Merc.	S. Wenceslaus	23-50-26.3		19. 7	11-39.10. 6	3. 37. 1
271	29	Jovis	S. Michael.	23-50. 6.9		19. 4	11.35.33. 5	3. 37. 4
272	30	Ven.	S. Hieronym.	23-49-47.7		1. 2	11.31.56. 1	

# S E P T E M B E R. ☉

*Solis in Meridiano versantis.*

Dies Mensis	Longitudo vera. m.			Morus horarius verus.	Ascensio recta.			Ascensio recta conversa				Declinatio vera Borealis.			Altitudo centri ☉ vera.			
	G.	M.	S.		M. S.			G. M. S. D.				G. M. S.			G. M. S.			
1	9.	18.	39	2.	25.	5	160.	53.36	10.43.34.4	8.	5.	19	49.	52.	43			
2	10.	16.	51	2.	25.	5	161.	48.0	10.47.12.0	7.	43.	21	49.	30.	45			
3	11.	15.	5	2.	25.	6	162.	42.21	10.50.49.4	7.	21.	15	49.	8.	39			
4	12.	13.	21	2.	25.	7	163.	36.39	10.54.26.6	6.	59.	2	48.	46.	26			
5	13.	11.	39	2.	25.	8	164.	30.54	10.58.3.6	6.	26.	45	48.	24.	9			
6	14.	9.	59	2.	25.	8	165.	25.4	11.1.40.3	6.	14.	19	48.	1.	43			
7	15.	8.	20	2.	25.	9	166.	19.12	11.5.16.8	5.	51.	46	47.	39.	10			
8	16.	6.	43	2.	25.	9	167.	13.16	11.8.53.1	5.	29.	7	47.	16.	31			
9	17.	5.	7	2.	26.	0	168.	7.19	11.12.29.3	5.	6.	24	46.	53.	48			
10	18.	3.	32	2.	26.	0	169.	1.18	11.16.5.2	4.	43.	37	46.	31.	1			
11	19.	1.	59	2.	26.	1	169.	55.13	11.19.40.9	4.	20.	43	46.	8.	7			
12	20.	0.	28	2.	26.	2	170.	49.9	11.23.16.6	3.	57.	45	45.	45.	9			
13	20.	58.	58	2.	26.	3	171.	43.3	11.26.52.2	3.	34.	44	45.	22.	8			
14	21.	57.	30	2.	26.	4	172.	36.55	11.30.27.7	3.	11.	58	44.	59.	2			
15	22.	56.	3	2.	26.	5	173.	30.46	11.34.3.1	2.	48.	29	44.	35.	53			
16	23.	54.	37	2.	26.	6	174.	24.37	11.37.38.5	2.	25.	17	44.	12.	41			
17	24.	53.	14	2.	26.	7	175.	18.30	11.41.14.0	2.	2.	4	43.	49.	28			
18	25.	51.	53	2.	26.	8	176.	12.21	11.44.49.4	1.	38.	45	43.	26.	9			
19	26.	50.	34	2.	26.	9	177.	6.12	11.48.24.8	1.	15.	25	43.	2.	49			
20	27.	49.	16	2.	27.	0	178.	0.3	11.52.0.2	0.	52.	5	42.	39.	29			
21	28.	48.	1	2.	27.	0	178.	53.57	11.55.35.8	0.	28.	41	42.	16.	5			
22	29.	46.	49	2.	27.	1	179.	47.52	11.59.11.5	0.	5.	16	41.	52.	40			
													Australis					
23	0.	45.	29	2.	27.	2	180.	41.51	12.2.47.4	0.	18.	10	41.	29.	14			
24	1.	44.	31	2.	27.	3	181.	35.51	12.6.23.4	0.	41.	36	41.	5.	48			
25	2.	43.	25	2.	27.	4	182.	29.55	12.9.59.6	1.	5.	2	40.	42.	22			
26	3.	42.	21	2.	27.	4	183.	24.0	12.13.36.0	1.	28.	29	40.	18.	55			
27	4.	41.	20	2.	27.	5	184.	18.9	12.17.12.6	1.	51.	55	39.	55.	29			
28	5.	40.	21	2.	27.	6	185.	12.21	12.20.49.4	2.	15.	21	39.	32.	3			
29	6.	39.	23	2.	27.	7	186.	6.37	12.24.26.5	2.	38.	45	39.	8.	39			
30	7.	38.	29	2.	27.	8	187.	0.58	12.28.9	3.	2.	8	38.	45.	16			



## S E P T E M B E R. ○

*Solis in Meridiano versantis.*

Dies Mensis.	Diameter ☉ apparent.		Mora trans- itus disci ☉ per Meridia- num.		Distantia ☉ & cuius distant. med. = 10000.	Ortus centri ☉ verus		Occasus centri ☉ verus		Des Mensis	Phænomena & Observationes ☉		
	M.	S.	D.	M.		S.	D.	H.	M.			H.	M.
	1	31.	50.	7		2.	8.	8	10032			17.	23
2	31.	51.	2	2.	8.	7	10080	17.	24	6.	36	3 ☉ in parallelo α Orionis culm. h. 18. m. 50.	
3	31.	51.	7	2.	8.	6	10077	17.	26	6.	34		
4	31.	52.	2	2.	8.	5	10074	17.	28	6.	32	☉ in parallelo α Serpen- tis culm. h. 4. m. 42.	
5	31.	52.	7	2.	8.	5	10071	17.	29	6.	31		
6	31.	53.	2	2.	8.	5	10068	17.	30	6.	30	6 ☉ in parallelo γ Orionis culm. h. 18. m. 9.	
7	31.	53.	7	2.	8.	5	10056	17.	31	6.	29	7 ☉ in parallelo Procyonis culm. h. 20. m. 20.	
8	31.	54.	3	2.	8.	5	10063	17.	33	6.	27		
9	31.	54.	8	2.	8.	5	10060	17.	35	6.	25	10 ☉ in parallelo β Ophiuchi culm. h. 6. m. 16.	
10	31.	55.	3	2.	8.	4	10057	17.	37	6.	23		
11	31.	55.	8	2.	8.	4	10055	17.	39	6.	21	14 ☉ in parallelo α Ceti culm. h. 15. m. 19.	
12	31.	56.	4	2.	8.	4	10052	17.	41	6.	19		
13	31.	56.	9	2.	8.	4	10049	17.	43	6.	17	15 ☉ in parallelo δ Aquilae culm. h. 7. m. 40.	
14	31.	57.	4	2.	8.	3	10046	17.	45	6.	15		
15	31.	57.	9	2.	8.	3	10043	17.	46	6.	14	18 ☉ in parallelo α Piscium culm. h. 14. m. 4.	
16	31.	58.	5	2.	8.	3	10042	17.	47	6.	13		
17	31.	59.	1	2.	8.	3	10040	17.	48	6.	12	21 ☉ in parallelo η Antioxi culm. h. 7. m. 45.	
18	31.	59.	6	2.	8.	3	10037	17.	50	6.	10		
19	32.	0.	2	2.	8.	3	10034	17.	52	6.	8	22 Ingressus ☉ in e Δ hor. 5. m. 23.	
20	32.	0.	7	2.	8.	4	10031	17.	54	6.	6		
21	32.	1.	2	2.	8.	5	10028	17.	57	6.	3	23 ☉ in parallelo δ Orion. culm. h. 17. m. 15.	
22	32.	1.	7	2.	8.	5	10025	17.	59	6.	1	24 Coniunctio ☉ & ♄ infer. ☉ in parallelo ε Orionis culm. h. 17. m. 12.	
23	32.	2.	3	2.	8.	6	10022	18.	0	6.	0	25	
24	32.	2.	8	2.	8.	7	10019	18.	1	5.	59	☉ in parallelo α culm. h. 9. m. 43.	
25	32.	3.	3	2.	8.	7	10016	18.	3	5.	57		
26	32.	3.	9	2.	8.	8	10014	18.	5	5.	55	28 ☉ in parallelo γ culm. h. 9. m. 48.	
27	32.	4.	6	2.	8.	8	10011	18.	7	5.	53		
28	32.	5.	0	2.	8.	9	10008	18.	5	5.	51		
29	32.	5.	6	2.	9.	0	10005	18.	11	5.	49		
30	32.	6.	2	2.	9.	1	10002	18.	13	5.	47		

# S E P T E M B E R. )

*Loca Luna Sole in Meridiano versante.*

Dies Mensis.	Longitudo vera ☽			Latitude vera ☽			Declinatio vera ☽			Nodus ascendens. ☽			Diameter ☽ horizontalis.		Parallaxis ☽ horizontalis.		Tempus culmin. ☽	
	S. G. M. S.			G. M. S.			G. M. S.			G. M.			M. S.		M. S.		H. M.	
	A.			B.			≈											
1	♋	14	29	34	0.	13.	25	16.	18.	10	10.	34.	29.	56	54.	56	23.	4
2		26.	33.	1	1.	18.	50	11.	27.	10	10.	31.	29.	45	54.	36	23.	46
3	♌	8	30.	20	2.	20.	0	6.	13.	37	10.	28.	29.	38	54.	20		
4		20.	23.	18	3.	14.	46	0.	49.	34	10.	25.	29.	33	54.	10	0.	26
5		A.			4.33.55			10. 22.			29. 30		54. 5		1. 6			
6	♍	14.	3.	19	4.	36.	14	9.	46.	47	10.	19.	20.	31	54.	7	1.	46
7		25.	54	35	5.	0.	16	14.	41.	17	10.	15.	29.	35	54.	14	2.	28
8	♎	7.	49.	58	5.	10.	38	19.	3.	16	10.	12.	29.	43	54.	30	3.	12
9		19.	52.	37	5.	7.	34	22.	41.	49	10.	9.	29.	56	54.	54	3.	59
10	♏	2.	6.	9	4.	51.	45	25.	24.	2	10.	6.	30.	13	55	26	4.	50
11		14.	54.	30	4.	21.	13	26.	55.	44	10.	3.	30.	35	56.	7	5.	42
12		27.	21.	45	3.	37.	5	27.	2.	11	10.	0.	31.	2	56.	57	6.	39
13	♐	10.	31.	48	2.	40.	26	25.	44.	59	9.	57.	31.	32	57.	52	7.	37
14		24.	7.	51	1.	32.	59	22.	51.	48	9.	53.	32.	3	58.	50	8.	33
15	♑	8.	11.	36	0.	17.	49	18.	33.	4	9.	50.	32.	34	59.	47	9.	29
		B.																
16		22.	42.	30	1.	0.	43	13.	1.	24	9.	47.	33.	0	60.	36	10.	23
17	♒	7.	36.	59	2.	17.	5	6.	36.	38	9.	44.	33.	19	61.	12	11.	17
		B.																
18		22.	48.	6	3.	25.	3	0.	16.	20	9.	41.	33.	30	61.	32	12.	10
19	♓	8.	6.	9	4.	18.	45	7.	11.	41	9.	38.	53.	30	61.	31	13.	3
20		23.	19.	59	4.	43.	46	13.	38.	10	9.	35.	33.	18	61.	11	13.	58
21	♈	8.	19.	14	5.	7.	35	19.	10.	44	9.	31.	33.	0	60.	35	14.	55
22		22.	55.	47	5.	0.	37	23.	24.	58	9.	28.	33.	34	59.	47	15.	54
23	♉	7.	5.	3	4.	36.	49	26.	5.	26	9.	25.	32.	6	58.	54	16.	54
24		20.	43.	41	3.	56.	50	27.	4.	38	9.	22.	31.	37	57.	59	17.	53
25	♊	3.	59.	2	3.	5.	18	26.	27.	10	9.	19.	31.	7	57.	4	18.	50
26		16.	48.	14	2.	5.	47	24.	30.	40	9.	16.	30.	39	56.	16	19.	41
27		19.	17.	27	1.	1.	50	21.	21.	0	9.	13.	30.	18	55.	36	20.	28
		A.																
28	♋	11.	31.	5	0.	3.	38	17.	18.	43	9.	10.	30.	0	55.	3	21.	12
29		23.	33.	40	1.	7.	51	12.	37.	51	9.	6.	29.	47	54.	38	21.	54
30	♌	5.	28.	56	2.	8.	15	7.	31.	23	9.	3.	29.	38	54.	21	22.	54





# S E P T E M B E R.

Phenomena

Phænomena & Observaciones

- 1 ad ζ ο ν π Ω
- 2 ad α Α j ε δ
- 3 ad c χ σ ρ τ Ω
- 4 ad δ c η η π
- 5 Δ Αρσγα & ad φ γ χ ψ Ω π
- 6 ad α j π π
- 7 ad x λ π
- 8 ad κ α ν j α
- 9 ad ζ γ η x θ λ ε δ π β μ
- 10 ad σ α τ μ ψ χ φ Οφιου.
- 11 ad ε θ Β Οφιου.
- 12 ad γ μ π λ α ω
- 13 ad ρ ο π ψ χ ω
- 14 ad η α β ψ δ
- 15 in nodo ascend. & η θ ν κ γ δ λ ζ
- 16 ad j ε ρ σ κ κ
- 17 ad λ ψ φ κ κ κ
- 18 ad Perig. & j χ
- 19 ad ι ε δ ε ζ μ ν κ
- 20 ad η π ο κ σ Ceti
- 21 ad μ ε δ ζ ν
- 22 ad Plejades γ δ θ χ ε α γ
- 23 ad ε j ο β γ
- 24 ad Η η Μ ν π
- 25 ad γ ε ζ δ λ η
- 26 ad ν κ θ π δ
- 27 in nodo descend. & ad c ε γ δ α θ
- 28 ad ε ω ο Ω
- 29 ad φ & ν η π α j Ω
- 30 ad c χ σ υ δ Ω

Phases

- Novilunium h. 6. m. 3. in up gr. 11. m. 30.
- 11 Primus Quadrans h. 9. m. 3. in → gr. 19. m. 24.
- 18 Plenilunium h. 5. m. 8. in κ gr. 26. m. 5.
- 24 Ultimus Quadrans h. 21. m. 32. in φ gr. 2. m. 37.

Phænomena

Phænomena & Observaciones Planetarum.

- 3 ♀ ad ζ h. 22. m. 23. dist. centr. ♀
- ♀ 53. m. Ret.
- 6 ad χ π h. 0. m. 0. dist. centri ♀
- 1. m. Austr.
- 9 ♂ ad ε h. 9. m. 14. dist. centr. ♂
- 1. g. 9. m. Bor.
- 10 ♀ ad δ θ h. 15. m. 2. dist. centri ♀
- 59. m. Austr.
- 11 ♂ Stationarius.
- 15 ♀ ad χ π h. 6. m. 32. dist. centr. ♀
- 27. m. Austr.
- 24 Conjunction ♀ & ☉ inferior
- 26 ♀ ad γ η h. 22. m. 37. dist. centri ♀
- 12. m. Bor.
- 28 ♀ ad α Ω h. 2. m. 3. dist. centr. ♀
- 10. m. Austr.

Planete in parallelis fixarum versantes.

in mense toto in parallelo β δ Leporis.  
 ♀ 1 ad 6 θ serp. dupl. a 10. ad 19. α Ceti  
 ♂ 1. 2. δ θ 3. 4. η Boot. 5. 6. η Bootis γ Herc. 7. γ Herc. 8. 9. 10. ι χ Orion. 11. 12. ι χ Orion. ν π. 13. 14. 15. 16. ι χ Orion. ν π Arctur. 17. ν π Arctur. 19. 20. ζ π. 21. 22. 23. 24. 25. ζ π γ δ. 26. γ δ. 27. 28. 29. 30. Α ε serp.  
 ♀ 1. 2. η Bootis. 4. 5. 6. 7. δ θ. 9. 10. γ ν. 11. 12. η δ. 13. 14. α → 15. 2. δ θ 16. 2. γ γ π. 17. γ π. 18. 19. β serp. Aldebar. 20. β δ. 21. 22. γ Delphin. 23. 24. ζ Bootis. 25. 26. α Pegasi. 27. ζ Aquil. 28. ζ Aquil. Regul. 29 Regul. α Oph. 30. α Ophinc.  
 ♀ 1. 2. Α Antuar. 3. 4. 17 Bridan. 5. 6. β → 7. φ κ 8. 9. φ κ ο Bridan. 11. ο Erid. α Hydr. 12. 13. α Hydr. Reliquis diebus in rañis solaribus.



## S E P T E M B E R.

Dies Mensis.	Ortus Planetarum apparens.		Tempus verum culminationis Planetarum.		Longitudo Planetarum Sole culminante.		Latitudo Planetarum Sole culminante.		Declinatio Planetarum Sole culminante.		Occasus Planetarum apparens.	
	H.	M.	H.	M.	G.	M.	G.	M.	G.	M.	H.	M.

## ♄ Saturnus.

1	5	0	9	23	29	♄ 41	0	A 63	20	A 46	13	46
7	4	37	9	0	29	25	0	33	20	50	13	23
13	4	15	8	38	29	13	0	33	20	53	13	1
19	3	53	8	16	29	3	0	33	20	55	12	39
25	3	32	7	54	28	57	0	34	20	56	12	16

## ♃ Jupiter.

1	7	46	14	6	13	♃ 21	1	A 36	3	B 43	20	26
7	7	23	13	42	12	46	1	37	3	34	20	1
13	7	0	13	18	12	6	1	38	3	17	19	56
19	6	37	13	54	11	22	1	39	2	59	19	11
25	6	13	12	29	10	36	1	39	2	41	18	45

## ♂ Mars.

1	9	41	17	14	10	♂ 56	1	A 34	18	B 59	0	47
7	9	26	17	4	4	25	1	28	19	56	0	42
13	9	14	16	53	6	59	1	21	20	11	0	32
19	8	59	16	41	9	17	1	13	20	40	0	23
25	8	44	16	28	11	18	1	4	21	6	0	12

## ♀ Venus.

1	13	28	21	4	25	♁ 5	1	A 37	19	B 32	4	40
7	13	39	21	10	1	♁ 40	1	10	18	40	4	41
13	13	51	21	16	8	22	0	44	17	30	4	41
19	14	5	21	22	15	10	0	18	16	1	4	39
25	14	20	31	28	22	4	0	B 6	14	16	4	36

## ☿ Mercurius.

1	19	54	1	34	6	♁ 7	2	A 50	5	A 2	7	14
7	19	55	1	25	9	46	3	36	7	10	6	55
13	19	37	1	5	10	25	4	1	7	49	6	33
19	18	56	0	31	7	7	3	42	6	14	6	6
25	17	50	23	42	0	47	2	20	2	27	5	34

# SEPTEMBER.

## *Eclipses Satellitum Jovis.*

I. SATELLES.				II. SATELL.			III. SATELL.			
Dies	Immerfiones.			Dies	Immerfiones.		Dies	H. M. S.		
	H.	M.	S.		H.	M.		S.	H.	M.
1	9*	41	6V	23	3*	31 12	3	8	5	20V.
3	4	10	11V	24	10*	0 24V	7	9	25	20M.
5	10	39	17M	26	4	29 39V	10	10*	45	24V.
7	5*	8	25M	28	10	58 53M	14	0	5	27V.
8	11*	37	35V	30	5	28 3M	18	1*	25	32M.
10	6	6	44V				21	2	45	38V.
12	0	35	55V				25	4*	5	43M.
14	7	5	6M				28	5	25	46V.
16	1*	34	19M							
17	8*	3	30V							
19	2	32	43V							
21	9	1	57M							

IV. SATELL.		
H. M. S.		
9	8	20 18 V. Im.
9	10*	12 18 V. Em.
26	2	49 32 V. Im.
26	4	26 6 V. Em.



		September			1785
Dies	Situs	Satellitum	$\frac{1}{2}$ tubo astron.	hor.	W. Vespere
1	4	○	.3	( ) 2°	● 1
2			4. 2°	( ) .3	1 ○
3		4.		( ) .1	.3 ● 2
4	4.		1°	( ) 2° 3°	
5			2°	( ) 3° .1	
6	.4		3° .2 .1	( )	
7		.4 3°		( ) 1° .2	
8			14. 3 .1	( ) 2°	
10				( ) .1	.4 .3
11			1°	( )	.2 3° .4
12				2°	3° .1 .4
13			3. 2. 1°	( )	
14		3.		( ) 2. 2	4°
15			.3 .1	( ) 2°	4°
16	● 3		2°	( ) 4°	4°
17	● 1			.2 ( ) 4°	.3
18			4. 1°	( )	.2 3°
19		4°		( ) .1 3°	2 ○
20	4.		.2 3. 1°	( )	
21		3°		( ) .2 2°	
22	.4		.3 .1	( ) 2°	
23	.4		2°	( ) 1°	● 3
25			.4	( )	.2 3°
26				( ) 3. 2. 1 3°	
27			.2 1. 3°	( )	.4
28		3°		( ) .2 .1	.4
29		.3	.1	( ) 2°	.4
30			2° .3	( ) 1°	4°
Dies	Situs	Satellitum	$\frac{1}{2}$ pro tempore	Eclips.	Vienn. visib
1	4	○	.3	( ) 2°	Immens. I.
7	.4		3° .2 .1	( )	Immens. I.
8		.4 3		( ) 2°	Immens. I.
9	1 ○		2°	( ) .3	Immens. IV.
10	Immens. II.			( ) .1	.4 .3
16	Immens. I.	.3		( ) 2°	4°
17	Immens. I.		.2	( ) 4°	.3
18	Immens. II.			( ) 4. 1	.3
23	.4		.3	( ) 2°	Immens. I.
23	.4		2°	( ) 1°	Immens. III.
24		.4	.2	( )	.3 Immens. I.
25		.4		( ) 1°	.3 Immens. II.





## OCTOBER. ☉

Dies Astronom.	Dies Mensis Civil.	Dies Hebdomad.	OCTOBER.	Tempus medium Meridiei veri ☉		Decrementum diurnum Temperis medii	Distantia o y a Meridiano.		Acceleratio diurna stellarum fixarum præ motu ☉ vero.
				H. M. S. D.	S. D.		H. M. S. D.	M. S. D.	
273	I	Ven.	S. Remigius.	23.49.28.	8	13. 5	11.28.18.	5	3.33. 0
274	2	<i>B. Dom</i>	20 post Pentec.	23.49.10.	3	13. 2	11.24.40.	5	3.38. 3
275	3	Lun.	S. Candidus	23.48.52.	1	17. 8	11.21. 2.	2	3.38. 7
276	4	Mart.	S. Franc. Ser.	23.48.34.	3	17. 5	11.17.23.	5	3.39. 0
277	5	Merc.	S. Placidus	23.48.16.	8	17. 1	11.13.44.	5	3.39. 3
278	6	Jovis	S. Bruno.	23.47.59.	7	16. 9	11.10. 5.	2	3.39. 8
279	7	Ven.	S. Justina	23.47.42.	8	16. 3	11. 6.25.	4	3.40. 1
280	8	Sab.	S. Birgitta.	23.47.26.	5	15. 9	11. 2.45.	3	3.40. 6
281	9	<i>B. Dom</i>	21 post Pentec.	23.47.10.	6	15. 4	10.59. 4.	7	3.41. 1
282	10	Lun.	S. Franc. Borg.	23.46.55.	2	14. 9	10.55.23.	6	3.41. 6
283	11	Mart.	S. Burchardus.	23.46.40.	3	14. 6	10.51.42.	0	3.41. 9
284	12	Merc.	S. Maximilian.	23.46.25.	7	14. 0	10.48. 0.	1	3.42. 5
285	13	Jov.	S. Colomannus.	23.46.11.	7	13. 5	10.44.17.	6	3.43. 1
286	14	Ven.	S. Callist. P. M.	23.45.58.	2	12. 9	10.40.34.	5	3.43. 6
287	15	Sab.	S. Theresia V.	23.45.45.	3	12. 5	10.36.50.	9	3.44. 1
288	16	<i>B. Dom</i>	22. post Pentec.	23.45.32.	8	11. 8	10.33. 6.	8	3.44. 7
289	17	Lun.	S. Hedwigis	23.45.21.	0	11. 3	10.29.22.	1	3.45. 2
290	18	Mart.	S. Luc. Evang.	23.45. 9.	7	10. 6	10.25.36.	9	3.45. 9
291	19	Merc.	S. Ferdinand.	23.44.59.	1	10. 0	10.21.51.	0	3.46. 6
292	20	Jov.	S. Felicianus	23.44.49.	1	9. 2	10.18. 4.	4	3.47. 3
293	21	Ven.	S. Ursul. & S. M.	23.44.39.	9	8. 6	10.14.17.	1	3.47. 9
294	22	Sab.	S. Cordula.	23.44.31.	3	7. 9	10.10.29.	2	3.48. 6
295	23	<i>B. Dom</i>	23 post Pentec.	23.44.23.	4	7. 3	10. 6.40.	6	3.49. 4
296	24	Lun.	S. Raphaël	23.44.16.	1	6. 4	10. 2.51.	2	3.50. 0
297	25	Mart.	S. Crispinus.	23.44. 9.	7	5. 7	9.59. 1.	2	3.50. 9
298	26	Merc.	S. Evaristus	23.44. 4.	0	5. 0	9.55.10.	3	3.51. 6
299	27	Jovis.	S. Sabina.	23.43.59.	0	4. 1	9.51.18.	7	3.52. 3
300	28	Ven.	S. Sim. & Jud.	23.43.54.	9	3. 4	9.47.26.	4	3.53. 2
301	29	Sab.	S. Zenobius	23.43.51.	5	2. 6	9.43.33.	2	3.53. 9
302	30	<i>B. Dom</i>	24 post Pentec.	23.43.48.	9	1. 7	9.39.39.	3	3.54. 9
303	31	Lun.	S. Wolfgang.	23.43.47.	2		9.35.44.		

## OCTOBER. ○

*Solis in Meridiano versantis.*

Dies Mens.	Longitudo vera $\Delta$			Motus horarius verus.	Ascensio recta.	Ascensio recta conversa in Tempus.	Declinatio vera Australis.	Altitudo centri $\odot$ vera	
	G.	M.	S.	M. S. D.	G. M. S.	H. M. S. D.	G. M. S.	G.	M. S.
1	8.	37.	37	2. 27. 9	187.55.22.	12.31. 41.5	3. 25. 28	38.	21. 56
2	9.	36.	48	2. 28. 0	188.49.52.	12.35. 19.5	3. 48. 49	37.	58. 35
3	10.	36.	1	2. 28. 0	189.44.27.	12.38. 57.8	4. 12. 5	37.	35. 19
4	11.	35.	16	2. 28. 1	190.39. 7.	12.42. 36.5	4. 35. 18	37.	12. 6
5	12.	34.	33	2. 28. 2	191.35.52.	12.46. 15.5	4. 58. 28	36.	48. 56
6	13.	33.	51	2. 28. 3	192.28.42.	12.49. 54.8	5. 21. 34	36.	25. 50
7	14.	33.	11	2. 28. 3	193.23.39.	12.53. 34.6	5. 44. 36	36.	2. 48
8	15.	32.	33	2. 28. 4	194.18.40.	12.57. 14.7	6. 7. 33	35.	39. 51
9	16.	31.	57	2. 28. 5	195.13.49.	13. 0. 55.3	6. 30. 25	35.	16. 59
10	17.	31.	23	2. 28. 6	196. 9. 6.	13. 4. 36.4	6. 53. 22	34.	54. 12
11	18.	30.	50	2. 28. 7	197. 4.30.	13. 8. 18.0	7. 15. 54	34.	31. 35
12	19.	30.	19	2. 28. 8	197.59.58.	13.11. 59.9	7. 38. 29	34.	8. 50
13	20.	29.	50	2. 28. 9	198.55.36.	13.15. 42.4	8. 0. 58	33.	46. 26
14	21.	29.	23	2. 28. 9	199.51.22.	13.19. 25.5	8. 23. 21	33.	24. 3
15	22.	28.	57	2. 29. 0	200.47.16.	13.23. 9.1	8. 45. 35	33.	1. 49
16	23.	28.	33	2. 29. 1	201.43.18.	13.26. 53.2	9. 7. 43	32.	39. 41
17	24.	28.	11	2. 29. 2	202.39.28.	13.30. 37.9	9. 29. 42	32.	17. 42
18	25.	27.	51	2. 29. 3	203.35.46.	13.34. 23.1	9. 51. 34	31.	55. 50
19	26.	27.	33	2. 29. 4	204.32.15.	13.38. 9.0	10. 13. 16	31.	34. 8
20	27.	27.	17	2. 29. 5	205.28.55.	13.41. 55.6	10. 34. 49	31.	12. 35
21	28.	27.	3	2. 29. 6	206.25.43.	13.45. 42.9	10. 56. 14	30.	51. 10
22	29.	26.	52	2. 29. 7	207.22.42.	13.49. 30.8	11. 17. 28	30.	29. 56
23	0. M.	26.	43	2. 29. 8	208.19.51.	13.53. 19.4	11. 38. 52	30.	8. 52
24	1.	26.	36	2. 29. 9	209.17.12.	13.57. 8.8	11. 59. 27	29.	47. 57
25	2.	26.	31	2. 30. 0	210.14.42.	14. 0. 58.8	12. 20. 10	29.	27. 14
26	3.	26.	29	2. 30. 0	211.12.25.	14. 4. 49.7	12. 40. 41	29.	6. 43
27	4.	26.	29	2. 30. 1	212.10.19.	14. 8. 41.3	13. 1. 1	28.	46. 23
28	5.	26.	31	2. 30. 2	213. 8.24.	14.12. 33.6	13. 21. 8	28.	26. 16
29	6.	26.	36	2. 30. 3	214. 6.42.	14.16. 26.8	13. 41. 4	28.	6. 20
30	7.	26.	43	2. 30. 4	215. 5.10.	14.20. 20.7	14. 0. 46	27.	46. 38
31	8.	26.	52	2. 30. 4	216. 3.54.	14.24. 15.6	14. 20. 15	27.	27. 9

## OCTOBER. ☉

*Solis in Meridiano versantis.*

Dies Mensis.	Diameter ☉ apprens.		Mora transitus disci ☉ per Meridianum.		Distantia ☉ a δ ejus distant. med. = TOCCO.	Ortus centri ☉ verus.		Occasus centri ☉ verus.		Dies Mensis.	Phænomena & Observationes ☉.
	M.	S.	M.	S.		H. M.	H. M.				
1	32.	6. 8	2.	9. 3	10000.	18. 16	5. 44				
2	32.	7. 4	2.	9. 4	9997.	18. 17	5. 43			1	☉ in distantia media.
3	32.	8. 0	2.	9. 5	9994.	18. 19	5. 41				Oppositio ☉ & ♃
4	32.	8. 6	2.	9. 6	9991.	18. 20	5. 40				
5	32.	9. 2	2.	9. 7	9988.	18. 22	5. 38			3	☉ in parallelo $\delta$ Ophiu. culm. h. 3. m. 28.
6	32.	9. 7	2.	9. 8	9985.	18. 24	5. 36			6	☉ in parallelo $\eta$ Eridani culm. h. 16. m. 5.
7	32.	10. 3	2.	9. 9	9982.	18. 25	5. 35				
8	32.	10. 9	2.	10. 1	9979.	18. 27	5. 33			9	☉ in parall. $\beta$ $\alpha$ culm. h. 4. m. 13.
9	32.	11. 4	2.	10. 2	9976.	18. 29	5. 31				
10	32.	11. 9	2.	10. 4	9973.	18. 30	5. 30			14	☉ in parallelo Rige culm. h. 15. m. 43.
11	32.	12. 5	2.	10. 6	9971.	18. 32	5. 28			17	☉ in parallelo $\kappa$ Orion culm. h. 16. m. 5.
12	32.	13. 1	2.	10. 8	9968.	18. 34	5. 26				
13	32.	13. 7	2.	11. 0	9965.	18. 36	5. 24			19	☉ in parallelo $\delta$ Eridani culm. h. 13. m. 43.
14	32.	14. 2	2.	11. 1	9962.	18. 38	5. 22				
15	32.	14. 8	2.	11. 3	9959.	18. 39	5. 21			22	☉ in parallelo $\eta$ Ceti culm. h. 11. m. 6.
16	32.	15. 3	2.	11. 4	9956.	18. 41	5. 19				Ingressus ☉ in $\circ$ $\mathcal{M}$ h. 13. m. 17.
17	32.	15. 9	2.	11. 6	9953.	18. 43	5. 17				
18	32.	16. 5	2.	11. 8	9951.	18. 45	5. 15			26	☉ in parallelo $\delta$ Ceti culm. h. 12. m. 22.
19	32.	17. 0	2.	12. 0	9948.	18. 46	5. 14				
20	32.	17. 5	2.	12. 2	9945.	18. 48	5. 12			27	☉ in parallelo $\alpha$ $\delta$ culm. h. 5. m. 56.
21	32.	18. 0	2.	12. 4	9942.	18. 50	5. 10			30	☉ in parallelo $\gamma$ Eridani culm. h. 13. m. 25.
22	32.	18. 5	2.	12. 5	9939.	18. 52	5. 8				
23	32.	19. 0	2.	12. 7	9937.	18. 53	5. 7				
24	32.	19. 6	2.	12. 9	9934.	18. 55	5. 5				
25	32.	20. 1	2.	13. 1	9931.	18. 56	5. 4				
26	32.	20. 6	2.	13. 4	9928.	18. 58	5. 2				
27	32.	21. 2	2.	13. 7	9926.	19. 0	5. 0				
28	32.	21. 7	2.	13. 9	9923.	19. 1	4. 59				
29	32.	22. 2	2.	14. 1	9921.	19. 3	4. 57				
30	32.	22. 6	2.	14. 4	9918.	19. 4	4. 56				
31	32.	23. 0	2.	14. 6	9916.	19. 6	4. 54				



## OCTOBER. ☽

Loca ☽<sup>na</sup> sole in Meridiano versante.

Dies Mensis.	Longitudo vera ☽	Laritudo vera ☽	Declinatio vera ☽	Nodus ☽ ascendens.	Diameter ☽ horiz.	Parallaxis ☽ horiz.	Tempus culm. ☽
	S. G. M. S.	G. M. S.	G. M. S.	G. M.	M. S.	M. S.	H. M.
		A.	B.	∞			
1	♈ 17.20.11	3. 2.33	1.43.29	9. 0.	29. 33	54. 9	23. 14
2	29.10. 0	3 48.42	3. 9.47	8. 57.	29. 30	54. 4	23. 54
3	♈ 11. 0.20	4.24.56	3.25.39	8. 54.	29. 30	54. 4	♂ 0. 36
4	22.52.50	4.49.42	3.22.55	8. 50.	29. 33	54. 10	♂ 0. 36
5	♈ 4.48.52	5. 1.45	17.52.46	8. 47.	29. 38	54. 20	♂ 1. 20
6	16.49.49	5. 0.13	21.42.14	8. 44.	29. 45	54. 36	2. 6
7	28.58.42	4.46.19	24.37.13	8. 41	29. 59	54. 59	2. 55
8	♈ 11.41.47	4.18.26	26.26.44	8. 37.	30. 15	55. 29	3. 47
9	23.43.59	3.37.32	26.55.55	8. 34.	30. 34	56. 5	4. 42
10	♈ 6.28.38	2.45.36	26. 0.21	8. 31.	30. 56	56. 47	5. 36
11	19.32.24	1.43.30	23.47. 9	8. 23.	31. 23	57. 35	6. 31
12	∞ 2.58.45	0.33.57	20. 5.21	8. 24.	31. 53	58. 30	7. 26
		B.					
13	16.50.24	0.39.41	15.11.58	8. 21.	23. 22	59. 24	8. 18
14	♈ 1. 8.22	1.53. 3	9.19.40	8. 18.	32. 47	60. 12	9. 7
15	15.51.18	3. 0.54	2.48.24	8. 15.	33. 9	60. 58	10. 1
		B.					
16	♈ 0.54.36	3.57.42	4. 0. 6	8. 11.	33. 24	61. 21	10. 54
17	16.10. 1	4.38.18	10.38.48	8. 8.	33. 29	61. 29	11. 48
18	♈ 1.26.52	4.58.52	16.40.53	8. 5.	33. 24	61. 19	12. 45
19	16.33.41	4.58.41	21.35.56	8. 2.	33. 7	60. 50	13. 45
20	♈ 1.20.23	4.38. 8	25. 1.41	7. 58.	32. 44	60. 6	14. 47
21	15.40. 1	4. 0.28	26.38.56	7. 55.	32. 14	59. 11	15. 48
22	29.29.27	3. 9.42	26.36.26	7. 52.	31. 44	58. 13	16. 46
23	♈ 12.48.58	2.10. 6	25. 1.59	7. 48.	31. 12	57. 15	17. 41
24	25.41.19	1. 5.43	22. 7.33	7. 44.	30. 43	56. 23	18. 31
		A.					
25	♈ 8.10.57	0. 0. 1	18.14.54	7. 41.	30. 19	55. 38	19. 16
26	20.22.55	1. 4.13	13.42.32	7. 38.	30. 0	55. 2	19. 58
27	♈ 2.22.39	2. 4.22	8.43.13	7. 35.	29. 45	54. 35	20. 39
28	14.14.38	2.38.24	3.28.26	7. 31.	29. 35	54. 16	21. 19
		A.					
29	26. 3.43	3.44.22	1.51.47	7. 28.	29. 32	54. 8	21. 58
30	♈ 7.53.20	5.20.37	7. 7.28	7. 25.	29. 32	54. 8	22. 30
31	19.46.12	4.45.37	12. 8.36	7. 23.	29. 34	54. 13	23. 22



# OCTOBER. ☾

*Loca Lune media nocte.*

*Congressus ☾ cum fixis & Planet.*

Dies Mensis	Loca Lune media nocte.				Dies Nostri	Nomen & Character fixatum & Planetarum.	Tempus verum conjunctionis vere in longitud.		Distantia centri ☾ vera in latitudinem.	
	Longitudo vera. ☾		Latitudo. ☾				H	M.		G.
	S.	G.	M.	S.			M.	S.	M.	S.
	A.									
1	♈	23.15.9	3.26.46	29.30	54.5	6	b m	6 22 21 0	39 <sup>B</sup>	
2	♈	5.5.1	4.8.10	29.29	54.3		A m	5 23 18 0	7 <sup>B</sup>	
3		16.56.16	4.38.48	29.30	54.6	7	v m	3 1 53 0	42 <sup>B</sup>	
4		28.50.19	4.57.24	29.35	54.15		z m	1 15 13 0	3 <sup>B</sup>	
5	♈	10.13.36	5.2.35	29.41	54.27	9	p	→ 6 0 58 0	48 <sup>B</sup>	
6		22.52.49	4.54.50	29.52	54.47	10	9	→ 5 1 17 1	13 <sup>B</sup>	
7	→	5.4.55	4.34.2	30.6	55.13		σ	→ 3 5 21 0	53 <sup>B</sup>	
8		17.27.40	3.59.40	30.24	55.45		ψ	→ 5 13 54 0	44 <sup>B</sup>	
9	↘	0.4.9	3.13.6	30.44	56.26		i z	→ 5 18 5 0	27 <sup>B</sup>	
10		12.57.57	2.15.39	31.9	57.11	12	z	→ 5 18 11 0	22 <sup>B</sup>	
11		26.12.34	1.9.23	31.38	58.2	15	9	z 5 13 21 0	39 <sup>B</sup>	
	B.									
12	≈	9.51.17	0.2.36	32.7	58.57	18	λ	κ 5 12 21 0	5 <sup>B</sup>	
13		23.56.6	1.16.41	32.35	59.49		μ	v 6 15 41 0	56 <sup>B</sup>	
14	κ	8.26.57	2.28.1	33.0	60.35	19	s	v 5 22 18 0	50 <sup>B</sup>	
15		23.20.51	3.31.2	33.18	61.9	20	b	Plej. 5 16 1 0	35 <sup>B</sup>	
16	v	8.31.23	4.20.19	33.28	61.28	22	η	Plej. 3 16 56 0	44 <sup>B</sup>	
17		23.48.59	4.51.21	33.27	61.26	24	z	→ 5 6 18 0	30 <sup>B</sup>	
18	♄	9.2.14	5.0.50	33.15	61.6		π	→ 3 13 25 0	35 <sup>B</sup>	
19		24.0.3	4.50.46	32.57	60.30		ϕ	→ 6 1 14 0	26 <sup>B</sup>	
20	♁	8.33.51	4.21.12	32.30	59.40		ϕ	→ 4 19 15 0	10 <sup>B</sup>	
21		22.33.35	3.36.27	31.59	58.42					
22	♁	6.12.49	2.40.44	31.28	57.44					
23		19.18.17	1.38.18	30.57	56.43					
24	♁	1.58.39	0.32.49	30.31	55.59					
	A.									
25		14.18.45	0.32.29	30.10	55.19					
26		26.23.56	1.34.57	29.52	54.47					
27	♈	8.19.14	2.52.17	29.40	54.25					
28		20.9.19	3.22.30	29.33	54.11					
29	♈	1.58.18	4.3.50	29.31	54.7					
30		13.49.16	4.34.37	29.33	54.10					
31		25.44.29	4.53.33	29.37	54.18					

# OCTOBER.

Dies Mensis.	Phænomena & Observationes.
1	ad ☿ & τ υ τ β η
2	Apogea & ε η γ χ η
3	ad ψ δ α j η
4	ad κ λ η
5	ad μ α ν
6	ad γ η κ θ λ Δ
7	ad δ π β ν σ α τ η
8	ad ε ρ β Ophiuc.
9	ad γ μ δ λ
10	ad θ σ ζ τ ο π ψ χ
11	ad η & ad β ο
12	in nodo ascend. & ad η θ υ j
13	ad ε γ δ λ μ
14	ad σ κ λ φ
15	ad κ λ η
16	ad ι ρ & δ ε κ
17	Perig. & ad ζ μ υ η π χ
18	ad ξ μ Ceti η
19	ad δ ζ τ ν & Plejades
20	ad ρ & γ δ η χ ε α j δ
21	ad ο β ζ θ
22	ad η μ ν γ ε ζ
23	ad δ λ υ κ φ
24	in nodo descend. & ad ψ μ ε γ δ θ
25	ad α κ σ ω ξ
26	ad ο ν π α
27	ad c χ u
28	ad σ τ υ η
29	Apog. ad ρ & β ο η γ η
30	ad χ ψ θ η
31	ad α j κ η

Phases Lunæ

2	Novilunium h. 23. m. 7. in Δ gr. 10. m. 34.
10	Primus Quadrans h. 21. m. 57. in ♄ gr. 18. m. 26.
17	Plenilunium h. 13. m. 56. in ♃ gr. 25. m. 3.
24	Ultimus Quadrans h. 12. m. 0. in ♄ gr. 1. m. 57.

Dies Mensis.	Phænomena & Observationes Planetarum.
1	Oppositio ♃ & ☉
3	♀ ad 1 ε ♄ h. 12. m. 10. dist. centr. ♀
	♀ 31. m. Bor.
	♃ Stationarius.
	♃ Stationarius.
4	♂ ad j ♃ h. 22. m. 9. dist. centr. ♂
	29. m. Bor.
	♃ in digressionē maxima
11	♀ ad χ ♄ h. 12. m. 5. dist. centr. ♀
	20. m. Austr.
	♃ ad η η h. 18. m. 11. dist. centr. ♃
	26. m. Bor.
13	♀ ad σ ♄ h. 0. m. 20. dist. centr. ♀
	31. m. Austr.
	♃ ad γ η h. 17. m. 32. dist. centr. ♃
	51. m. Austr.
20	♃ ad θ η h. 22. m. 33. dist. centr. ♃
	7. m. Bor.
	♃ Stationarius
23	♀ ad β η h. 0. m. 0. dist. centr. ♀
	42. m. Bor.
25	♀ ad η η h. 8. m. 53. dist. centr. ♀
	53. m. Bor.
30	♃ in nodo descendente

Planeta in parallelis fixarum.

h̄ mense toto in parallelo ε Ophiuc. δ β Leporis

1 ad 7 γ Ceti. 8 13. ad 19 α η

♂ 1. 2. 3. 4. 5. 22 θ δ η. 6. 7. 8. 28 θ δ

♄ β Herc. 9. 10. β Herc. 11. 12 β Herc.

γ θ. 13. β Herc. γ θ δ η α ν. 14. 15. 16.

17. 18. γ θ δ η α ν. 19. 20. γ θ δ η η

α ν μ η η. 21. 22. 23. 24. δ η μ η α ν.

25. 26. 27. 28. 29. η μ η. 30. 31. ♃ Androm

♀ 1 ε ♄. 2. ε η. 3. δ serp. 4. ε Delph. 5. β

Cephei 9. η η. 10. β can. min. 11. α Aquil.

12. 1 ε Ceti. 13. 2 ε Ceti. 14. α serp. 15. ε η

16. γ Orion. 17. Pocyon. 18. ε serp. 20.

c δ η. 21. τ η. 23. β η. 24. γ Ophiuc.

Austr. δ Aquil. 25. γ Ceti. 26. α η. 29. η

Aurinoi. 30. γ η. 31. δ Ceti.

## OCTOBER.

M. C.	Ortus Planetarum apparentis.		Tempus verum culminationis Planetarum.		Longitudo Planetarum Sole culminante.		Latitudo Planetarum Sole culminante.		Declinatio Planetarum Sole culminante.		Occasus Planetarum apparentis.	
	H.	M.	H.	M.	G.	M.	G.	M.	G.	M.	H.	M.

## ♄ Saturnus.

1	3	10	7	32	28	54	0	A 34	20	A 57	11	54
	2	48	7	10	28	55	0	34	20	57	11	32
13	2	26	6	48	29	0	0	34	20	56	11	10
19	2	4	6	26	29	8	0	34	20	55	10	48
25	1	41	6	4	29	19	0	34	20	52	10	27

## ♃ Jupiter.

1	5	50	12	4	9	47	1	A 59	2	B 22	18	18
7	5	28	11	40	8	59	1	39	2	3	17	52
13	5	4	11	15	8	12	1	39	1	45	17	26
19	4	41	10	50	7	27	1	38	1	28	16	59
25	4	16	10	24	6	46	1	57	1	12	16	32

## ♂ Mars.

1	8	26	16	13	12	57	0	A 54	21	B 30	0	0
7	8	7	15	56	14	14	0	42	21	50	23	45
13	7	46	15	37	15	3	0	30	22	8	23	28
19	7	24	15	16	15	23	0	15	22	25	23	8
25	6	58	14	52	15	13	0	0	22	39	22	46

## ♀ Venus.

1	14	36	21	35	29	Ω 4	0	B 28	12	B 15	4	34
7	14	52	21	40	6	♄ 8	0	48	10	0	4	28
13	15	8	21	45	13	17	1	5	7	34	4	22
19	15	24	21	50	20	28	1	19	4	59	4	16
25	15	41	21	54	27	44	1	30	2	17	4	7

## ☿ Mercurius.

1	17	2	23	10	26	♄ 2	0	A 20	1	B 16	5	18
7	16	43	22	56	26	57	1	B 14	2	21	5	9
13	16	55	23	0	3	♄ 7	1	57	0	33	5	5
19	17	22	23	11	12	2	1	59	2	A 55	5	0
25	17	51	23	25	21	54	1	37	7	2	4	56



## OCTOBER.

*Eclipses Satellitum Jovis.*

I. SATELLES.				II. SATELL.			III. SATELL.									
Dies Civill.	Immerfiones.			Dies Civill.	Emerfiones.			Dies Civill.	Immerfiones.			Dies Civill.	Emerfiones.			
	H.	M.	S.		H.	M.	S.		H.	M.	S.		H.	M.	S.	
1	11	57.19	V.	23	7.	56.46	M.	2	6.45.45.	M.	1	1*12.51	M.	I.		
	Emerfiones.			25	2*25.45.	M.		Emerfiones.			1	3*32.25	M.	E.		
3	8	36.36	V.	26	8	54.42.	V.	5	10*36.1.	V.	3	5*16.30	M.	I.		
5	3.	5.49.	V.	28	3.	23.37.	V.	9	11.55.46.	M.	8	7.34.59	M.	E.		
7	9.	34.58.	M.	30	9.	52.30.	M.	13	1*15.23.	M.	15	9.20.20	M.	I.		
9	4*	4.7.	M.					16	2.34.51.	V.	15	11.37.26	M.	E.		
10	10*	33.16.	V.					20	3*54.13.	M.	22	1.23.51.	V.	I.		
12	5.	2.24.	V.					23	5.13.26.	V.	22	3.39.38.	V.	E.		
14	11	31.30.	M.					27	6.32.30.	M.	29	5.26.49.	V.	I.		
16	6.	0.36.	M.					30	7*51.25.	V.	29	7*41.19.	V.	E.		
18	0*	29.41.	M.									SATELL. IV.				
19	6*	58.45.	V.									H. M. S.				
21	1.	27.46.	V.									13	9.18.18.	M.	I.	
												13	10.38.	2.	M.	E.
												30	3*49.40.	M.	I.	
												30	4.45.40.	M.	E.	





		October				1785
Dies	Situs Satellitum	¶ tubo astron. hor. 9. Vespere				
1		.2 .1	○	.3	4°	
2			○	.2 .3 4°		
3			○	.2° 3° 4°		
4		2° 1.3°	○			
5		3° 4°	○	.1	● 2	
6		4° .3 1°	○	.2°		
7	4°		○	.2°		
8		.2 .1	○	.3		
9	.4		○	.1° .2 .3		
10	.4		○	.2° 3°	● 1	
11	3○	.4 2° 1°	○			
12		3° .4	○	.1		
13		.3 1°	○	.4 2°		
14		.3 2°	○	.1° .4		
15		.2 .1	○	.3 .4		
16			○	.1° .2 .3		
17			○	.1° 2° 3° 4°		
18	1○	2°	○	.3° 4°		
19		3° .2	○	.1 4°		
20		.3 1°	○	.4° .2		
21		.3 4°	○	.1	2○	
22		4° .2 .1	○	.3		
23	4°		○	.1° 2° 3°		
24			○	.1 2° 3°		
25	.4	2°	○	.3°		
27	.4 3°	1°	○	.2		
28		.2 3°	○	.1		
30			○	.2 1° .4 .3		
31		.1	○	.2° 3° .4		
Dies	Situs Satellitum	¶ pro tempore Eclips. Vienn. visib.				
1	Immers. I.	.2	○	.3	4°	
13		3° .4	○	.2 .1	Emers. II.	
18	Emers. I.		○	.1 2° 3°	4°	
19	Emers. I.	3° .2	○	.1	4°	
20	Emers. II.	3°	○	.2 .1 .4		
23			○	.1 2° 3°	Emers. I.	
26	.4	3° .2	○	.1	Emers. I.	
29	● 4	.2 1°	○	.3	Emers. III.	
30		.2 .1	○	.4 .3	Immers. IV.	
30	Emers. II.		○	.2 1° .4 .3		
			○			



# N O V E M B E R.

Dies Atronom.	Dies Mercurii Civ.	Dies Hebdomad.	NOVEMBER.	Tempus medium Meridici veri.			Incrementum diurnum temporis meridii.	Distantia o v a Meridiano.			Acceleratio diurna stellarum fixarum pro motu o vero
				H.	M.	S. D.		S.	D.	H.	
304.	1	Mart.	Feft. OO. SS.	23.43.46.	1	0. 1	9.31.49.	0	3.56. 5		
305.	2	Merc.	Com. o. Fid. def.	23.43.46.	0	0. 7	9.27.52.	5	3.57. 3		
306.	3	Jovis	S. Hubertus	23.43.46.	7	1. 4	9.23.55.	2	3.57. 9		
307.	4	Ven.	S. Carol. B.	23.43.48.	1	2. 3	9.19.57.	3	3.58. 8		
308.	5	Sab.	S. Emericus	23.43.50.	4	3. 1	9.15.58.	5	3.59. 7		
309.	6	B. Dom	2c. post Pent.	23.43.53.	5	3. 9	9.11.58.	8	4. 0. 5		
310.	7	Lun.	S. Engelbertus	23.43.57.	4	4. 6	9. 7.58.	3	4. 1. 3		
311.	8	Mart.	S. G. defridus.	23.44. 2. 0	0	5. 6	9. 3.57.	0	4. 2. 1		
312.	9	Merc.	S. Theodorus	23.44. 7. 6	6	6. 4	8.59.54.	9	4. 2. 9		
313.	10	Jovis	S. Andr. Avell.	23.44.14. 0	0	7. 2	8.55.52.	0	4. 3. 8		
314.	11	Ven.	S. Martinus B.	23.44.21. 2	2	8. 1	8.51.48.	2	4. 4. 6		
315.	12	Sab. f	S. Martinus M.	23.44.29. 3	3	8. 9	8.47.43.	6	4. 5. 4		
316.	13	B. Dom	26. post Pent.	23.44.38. 2	2	9. 6	8.43.38.	2	4. 6. 3		
317.	14	Lun.	S. Jucundus	23.44.47. 8	8	10. 5	8.39.31.	9	4. 7. 0		
318.	15	Mart.	S. Leopoldus.	23.44.58. 3	3	11. 3	8.35.24.	9	4. 7. 9		
319.	16	Merc.	S. Edmundus	23.45. 9. 6	6	12. 1	8.31.17.	0	4. 8. 8		
320.	17	Jovis.	S. Grez Thaum.	23.45.21. 7	7	13. 1	8.27. 8. 2	2	4. 9. 6		
321.	18	Ven.	S. Eugenius.	23.45.34. 8	8	13. 9	8.22.58.	6	4.10. 5		
322.	19	Sab.	S. Elifabetha.	23.45.48. 7	7	14. 6	8.18.43.	1	4.11. 2		
323.	20	B. Dom	27 post Pent.	23.46. 2. 3	3	15. 5	8.14.36.	9	4.12. 1		
324.	21	Lun.	Præsent. R. M. V.	23.46.18. 8	8	16. 3	8.10.24.	8	4.12. 9		
325.	22	Mart.	S. Cæcilia.	23.46.35. 1	1	17. 2	8. 6.11. 9	4.13. 8			
326.	23	Merc.	S. Clemens P.	23.46.52. 3	3	17. 9	8. 1.58. 1	4.14. 5			
327.	24	Jovis.	S. Joan. a Cru.	23.47.10. 2	2	18. 7	7.57.43. 6	4.15. 2			
328.	25	Ven.	S. Catharina	23.47.28. 9	9	19. 4	7.53.28. 4	4.16. 1			
329.	26	Sab.	S. Conradus.	23.47.48. 3	3	20. 3	7.49.22. 3	4.16. 9			
330.	27	B. Dom	1. Adventus	23.48. 8. 6	6	21. 0	7.44.55. 4	4.17. 6			
331.	28	Lun.	S. Softenes	23.48.20. 6	6	21. 6	7.40.37. 8	4.18. 2			
332.	29	Mart.	S. Saturninus.	23.48.51. 2	2	22. 3	7.36.19. 6	4.18. 9			
333.	30	Merc.	S. Andreas A. †	23.49.13. 5	5		7.32. 0. 7				

## NOVEMBER. ☉

*Solis in Meridiano versantis.*

Diei Merid. h.	Longitudo vera. m			Motus horarius verus.	Ascensio recta.	Ascensio recta conversa	Declinatio vera Australis.	Altitudo Centri. ☉ vera.		
	G.	M.	S.	M. S.	G. M. S.	H. M. S. D.	G. M. S.	G.	M.	S.
	1	9.	27.	2	2. 30. 5	217. 2.45	14.28.11.0	14. 39. 29	27.	7.
2	10.	27.	15	2. 30. 5	218. 1.52	14.32. 7.5	14. 58. 29	26.	48.	55
3	11.	27.	30	2. 30. 6	219. 1.13	14.36. 4.8	15. 17. 16	26.	30.	8
4	12.	27.	46	2. 30. 6	220. 0.40	14.40. 2 7	15. 35. 47	26.	11.	37
5	13.	28.	4	2. 30. 7	221. 0.22	14.44. 1.5	15. 54. 2	25.	53.	22
6	14.	28.	23	2. 30. 8	222. 0.18	14.48. 1.2	16. 12. 3	25.	35.	21
7	15.	28.	44	2. 30. 8	223. 0.25	14.52. 1.7	16. 29. 45	25.	17.	39
8	16.	29.	6	2. 30. 9	224. 0.45	14.56. 3.0	16. 47. 12	25.	0.	12
9	17.	29.	29	2. 31. 0	225. 1.16	15. 0. 5.1	17. 4. 20	24.	42.	4
10	18.	29.	54	2. 31. 0	226. 2. 0	15. 4. 8.0	17. 21. 11	24.	26.	13
11	19.	30.	20	2. 31. 1	227. 2.57	15. 8.11.8	17. 37. 45	24.	9.	39
12	20.	30.	48	2. 31. 2	228. 4. 6	15.12.16.4	17. 53. 59	23.	53.	25
13	21.	31.	17	2. 31. 3	229. 5.27	15.16.21.8	18. 9. 56	23.	37.	28
14	22.	31.	47	2. 31. 4	230. 7. 1	15.20.28.1	18. 25. 33	23.	21.	51
15	23.	32.	19	2. 31. 4	231. 8.46	15.24.35.1	18. 40. 50	23.	6.	34
16	24.	32.	52	2. 31. 5	232.10.45	15.28.43.0	18. 55. 49	22.	51.	35
17	25.	33.	27	2. 31. 5	233.12.57	15.32.51.8	19. 10. 26	22.	36.	58
18	26.	34.	3	2. 31. 6	234.15.21	15.37. 1.4	19. 24. 41	22.	22.	43
19	27.	34.	41	2. 31. 7	235.17.58	15.41.11.9	19. 38. 37	22.	8.	47
20	28.	35.	20	2. 31. 8	236.20.46	15.45.23.1	19. 52. 12	21.	55.	12
21	29.	36.	0	2. 31. 8	237.23.48	15.49.35.2	20. 5. 24	21.	42.	0
22	0.	36.	43	2. 31. 9	238.27. 1	15.53.48.1	20. 18. 14	21.	29.	10
23	1.	37.	28	2. 32. 0	239.30.28	15.58. 1.9	20. 30. 42	21.	16.	42
24	2.	38.	14	2. 32. 0	240.34. 6	16. 2.16.4	20. 42. 46	21.	4.	38
25	3.	39.	2	2. 32. 1	241.37.54	16. 6.31.6	20. 54. 29	20.	52.	55
26	4.	39.	52	2. 32. 1	242.41.55	16.10.47.7	21. 5. 49	20.	41.	35
27	5.	40.	43	2. 32. 2	243.46. 9	16.15. 4.6	21. 16. 44	20.	30.	40
28	6.	41.	35	2. 32. 2	244.50.33	16.19.22.2	21. 27. 14	20.	20.	10
29	7.	42.	29	2. 32. 3	245.55. 6	16.23.40.4	21. 37. 19	20.	10.	5
30	8.	43.	24	2. 32. 3	246.59.40	16.28.59.3	21. 47. 2	20.	0.	22



## NOVEMBER. ☉

*Solis in Meridiano versantis.*

Dies Mensis.	Diameter ☉ apparens.			Mora transitus disci ☉ per Meri- dianum.			Distantia ☉ a ♀ cuius distant.med.			Ortus centri ☉ verus.		Occasus centri ☉ verus.		Dies Mensis.	Phænomena & Observationes ☉
	M.	S.	D.	M.	S.	D.	IXCO.	H.	M.	H.	M.				
1	32.	23.	4	2.	14.	9	9913.	19	7.	4.	53				
2	32.	23.	8	2.	15.	1	9910.	19	9	4.	51	3	☉ in Parallelo $\gamma$ <i>Ophi-</i> <i>chi</i> h. 2. m. 22.		
3	32.	24.	2	2.	15.	3	9908.	19	11	4.	49		Item ☉ in parallelo $\beta$		
4	32.	24.	6	2.	15.	5	9905.	19	13	4.	47		$\delta$ . culm. h. 5. m. 32.		
5	32.	25.	1	2.	15.	7	9903.	19	14	4.	46				
6	32.	25.	6	2.	15.	9	9900.	19	16	4.	44	6	☉ in parall. <i>Syrii</i> culm h. 15. m. 45.		
7	32.	26.	0	2.	16.	1	9898.	19	17	4.	43	7	☉ in nodo descend. $\zeta$		
8	32.	26.	5	2.	16.	2	9896.	19	19	4.	41	8	☉ in Parallelo $\delta$ $\approx$ culm. h. 7. m. 46.		
9	32.	27.	0	2.	16.	4	9893.	19	20	4.	40		☉ in parall. $\delta$ $\zeta$ culm h. 6. m. 34.		
10	32.	27.	4	2.	16.	6	9891.	19	21	4.	39	9			
11	32.	27.	9	2.	16.	9	9889.	19	22	4.	38	10	Conjunctio ☉ & $\zeta$ superior		
12	32.	28.	3	2.	17.	2	9887.	19	24	4.	36	11	☉ in Parallelo $\gamma$ $\zeta$ culm. h. 6. m. 19.		
13	32.	28.	8	2.	17.	5	9884.	19	26	4.	34				
14	32.	29.	2	2.	17.	8	9881.	19	27	4.	33	12	☉ in parallelo $\beta$ <i>Canis</i> <i>maj.</i> culm. h. 14. m. 59.		
15	32.	29.	6	2.	18.	0	9879.	19	28	4.	32		☉ in parallelo $\alpha$ <i>Lepo-</i> <i>risculm.</i> h. 14. m. 9.		
16	32.	30.	0	2.	18.	3	9877.	19	29	4.	31	17	☉ in parallelo $\beta$ <i>Coti</i> culm. h. 3. m. 58.		
17	32.	30.	4	2.	18.	5	9875.	19	30	4.	30				
18	32.	30.	8	2.	18.	7	9873.	19	31	4.	29	21	Ingressus ☉ in $\epsilon$ h. 9. m. 29.		
19	32.	31.	2	2.	18.	9	9871.	19	33	4.	27				
20	32.	31.	6	2.	19.	2	9869.	19	35	4.	25	2	☉ in parallelo $\beta$ <i>Leporis</i> culm. h. 13. m. 10.		
21	32.	31.	9	2.	19.	4	9867.	19	36	4.	24	27	☉ in parallelo $\epsilon$ <i>Corvi</i> culm. h. 19. m. 41.		
22	32.	32.	3	2.	19.	5	9866.	19	38	4.	22		Oppositio ☉ & $\delta$		
23	32.	32.	7	2.	19.	8	9865.	19	39	4.	21				
24	32.	33.	0	2.	20.	0	9863.	19	40	4.	20				
25	32.	33.	3	2.	20.	2	9862.	19	41	4.	19				
26	32.	33.	6	2.	20.	5	9861.	19	42	4.	18				
27	32.	33.	9	2.	20.	7	9860.	19	43	4.	17				
28	32.	34.	3	2.	20.	8	9858.	19	44	4.	16				
29	32.	34.	6	2.	20.	9	9856.	19	45	4.	15				
30	32.	34.	8	2.	21.	1	9855.	19	46	4.	14				

## NOVEMBER. )

Loca ☽ in Meridiano versante.

Dies Mensis	Longitudo vera ☽	Latitudo vera ☽	Declinatio vera ☽	Nodus ☽ ascens.	Diameter ☽ horizontalis.	Parallaxi ☽ horizontalis.	Tempus culm. ☽
	S. G. M. S.	G. M. S.	G. M. S.	G. M.	M. S.	M. S.	H. M.
1	♌ 1.44.15	4. 58. 5	16.45.19	7. 20.	29. 39	54. 22	☽
2	13.48.45	4. 57. 8	20.44.37	7. 17.	29. 46	54. 38	0. 7
3	26. 0.30	4. 43. 27	23.53.35	7. 14.	29. 57	54. 57	0. 56
4	♋ 8.20.14	4. 15. 53	25.56.58	7. 11.	30. 10	55. 20	1. 46
5	20.48.55	3. 35. 47	26.42.54	7. 7.	30. 25	55. 48	2. 40
6	♌ 3.27.56	2. 44. 24	26. 8.42	7. 4.	30. 42	56. 20	3. 35
7	16.19.14	1. 43. 46	24.13. 4	7. 1.	31. 1	56. 56	4. 30
8	29.25.16	0. 36. 26	20.55.10	6. 58.	31. 23	57. 35	5. 22
9	♌ 12.48.32	0. 34. 27	16.27.42	6. 55.	31. 45	58. 15	6. 13
10	26.31.24	1. 45. 5	11. 3.30	6. 51.	32. 7	58. 57	7. 3
11	♌ 10.35.19	2. 51. 8	4.58.30	6. 48.	32. 29	59. 38	7. 51
12	25. 0. 5	3. 48. 4	1.29.25	6. 45.	32. 47	60. 13	8. 41
13	♍ 9.43.13	4. 30. 59	8. 0.27	6. 42.	33. 2	60. 39	9. 32
14	24.39.17	4. 56. 15	14. 9.42	6. 39.	33. 8	60. 53	10. 27
15	♌ 9.40.12	5. 0. 38	19.30. 8	6. 35.	33. 7	60. 51	11. 25
16	24.36.23	4. 45. 47	23.35.33	6. 32.	32. 58	60. 32	12. 26
17	♌ 9.18.15	4. 11. 24	26. 3.28	6. 29.	32. 39	59. 58	13. 28
18	23.38. 8	3. 21. 45	26.38.44	6. 26.	32. 15	59. 12	14. 29
19	♌ 7.31.17	2. 31. 22	25.37.32	6. 23.	31. 48	58. 19	15. 26
20	20.56. 9	1. 14. 55	23. 6. 3	6. 19.	31. 18	57. 24	16. 20
21	♌ 3.54. 6	0. 6. 28	19.25. 5	6. 16.	30. 48	56. 32	17. 8
22	16.28.27	1. 0. 19	14.58.26	6. 13.	30. 24	55. 45	17. 52
23	28.43.51	2. 2. 40	10. 1.10	6. 10.	30. 3	55. 8	18. 33
24	♌ 10.45.28	2. 58. 24	4.47.23	6. 7.	29. 48	54. 40	19. 13
25	22.38.41	3. 45. 39	0.31.45	6. 3.	29. 39	54. 22	19. 52
26	♌ 4.27.34	4. 22. 58	5.48.20	6. 0.	29. 35	54. 15	20. 32
27	16.19.42	4. 49. 2	10.52.20	5. 57.	29. 36	54. 17	21. 14
28	28.15.52	5. 2. 14	15.34.52	5. 54.	29. 40	54. 25	21. 58
29	♌ 10.19.59	5. 2. 38	19.43.59	5. 50.	29. 49	54. 43	22. 45
30	22.34. 0	4. 49. 42	23. 6.44	5. 46.	30. 2	55. 5	23. 36

# NOVEMBER. )

*Loca Lune media nocte.*

*Congress. (cum fixis & Planetis)*

Dies Mensis.	Longitudo vera. ☽		Latitudo vera. ☽		Diameter ☽ horizontalis.		Parallaxis. ☽ horizontalis.		Dies Mensis.	Nomen & Character fixarum & Planetarum.	Tempus verum conjunctionis verae in longitudinem.		Distantia centri ☽ vera in latitudinem.	
	S.	G. M. S.	G. M. S.	M. S.	M. S.	M. S.	H.	M.			G.	M.		
	A.													
1	♄	7.45.40	4.59.10	29.43	54.30				4	p ♄ 6	11	20	0	26 B
2		19.53.42	4.52.14	29.52	54.47				6	♃ ♄ 5	6	56	0	28 B
3		2. 9.19	4.31.18	30. 3	55. 8				6	♃ ♄ 3	11	3	1	9 B
4		14.33.22	3.57.20	30.18	55.34				7	♃ ♄ 5	19	44	0	59 B
5		27. 7. 2	3. 6.16	30.34	56. 4				7	♃ ♄ 5	0	0	0	42 B
6	♃	9.51.56	2.15. 5	30.51	56.38				8	♃ ♄ 5	0	5	0	37 B
7		22.50.18	1.10.44	31.12	57.15				8	♃ ♄ 5	20	30	0	57 B
8	♃	6. 4.38	0. 1.13	31.34	57.54				11	♃ ♄ 5	21	40	0	17 B
	B.								15	♃ ♄ 6	2	39	0	57 B
9		19.37.26	1.10. 2	31.55	58.36				16	♃ ♄ 5	9	21	0	47 B
10	♃	3.30.44	1.18.57	32.20	59.19				16	b Plej. 5	2	56	0	32 B
11		17.45.11	3.21. 0	32.39	59.57				18	η Ple. 3	3	53	0	40 B
12	♃	2.19.37	4.11.27	32.51	60.28				18	♃ ♄ 5	17	8	0	23 B
13		17.10. 4	4.46. 2	33. 7	60.49				19	♃ ♄ 3	22	59	0	25 B
14	♃	2. 9.40	5. 1.30	33.10	60.54				19	m ♄ 6	10	38	0	18 B
15		17. 9.30	4.56. 3	33. 5	60.44				21	♃ ♄ 4	3	28	0	27 A
16	♄	1.59.40	4.30.45	32.48	60.16									
17		16.31.22	3.48.15	32.28	59.36									
18	♃	0.38.12	2.52.39	32. 0	58.46									
19		14.17.14	1.48.38	31.32	57.52									
20		27.28.22	0.40.41	31. 2	56.58									
	A.													
21	♃	10.13.59	0.27.19	30.35	56. 8									
22		22.38.13	1.32.11	30.13	55.25									
23	♃	4.46. 5	2.31.29	29.55	54.52									
24		16.42.50	3.23.10	29.43	54.30									
25		28.33.47	4. 5.39	29.36	54.17									
26	♄	10.23.44	4.37.29	29.35	54.15									
27		22.16.58	4.57.29	29.33	54.20									
28	♄	4.16.49	5. 4. 5	29.44	54.33									
29		16.25.44	4.57.41	29.55	54.53									
30		28.45. 6	4.37.45	30. 8	55.17									

# NOVEMBER.

Diei N.	Phænomena & Observationes ☽.
1	☽ ad ♄
2	☽ ad ♃
3	☽ ad ♃
4	☽ ad ♃
5	☽ ad ♃
6	☽ ad ♃
7	☽ ad ♃
8	☽ in nodo ascendente ☽ ad ♃
9	☽ ad ♃
10	☽ ad ♃
11	☽ ad ♃
12	☽ ad ♃
13	☽ ad ♃
14	☽ ad ♃
15	☽ ad ♃
16	☽ ad ♃
17	☽ ad ♃
18	☽ ad ♃
19	☽ ad ♃
20	☽ ad ♃
21	☽ in nodo descendente & ad ♃
22	☽ ad ♃
23	☽ ad ♃
24	☽ ad ♃
25	☽ ad ♃
26	☽ ad ♃
27	☽ ad ♃
28	☽ ad ♃
29	☽ ad ♃
30	☽ ad ♃

Phases Lunæ

1	Novilunium h. 16. m. 43. in ♀ gr. 10. m. 9.
9	Primus Quadrans h. 8. m. 51. in ♀ gr. 17. m. 52.
15	Plenilunium h. 23. m. 54. in ♀ gr. 24. m. 33.
23	Ultimus Quadrans h. 6. m. 18. in ♀ gr. 1. m. 53.

Diei N.	Phænomena & Observationes Planetarum.
1	☽ ad ♄ h. 6. m. 22. dist. centri ☽ 23. m. Bor.
1	♃ ad ♃ h. 16. m. 37. dist. centri ♃ 1. gr. 42. m. Bor.
6	♃ ad ♄ h. 6. m. 7. dist. centri ☽ o m.
8	♀ ad ♄ h. 7. m. 27. dist. centri ♀ 1 m. Austr.
10	Conjunctio ☽ & ☉ superior.
17	♃ ad ♄ h. 5. m. 37. dist. centri ☽ 1 gr. 5. m. Bor.
19	♃ ad ♃ h. 4. m. 10. dist. centri ♃ 35. m. Bor.
21	♃ ad ♃ h. c. m. 15. dist. centr. ☽ 20. m. Bor.
27	Oppositio ☽ & ☉
28	♃ ad ♄ h. 8. m. 19. dist. centr. ♃ 33. m. Bor.
29	♃ ad ♄ h. c. m. 27. dist. centri ♃ 1. gr. 7. m. Bor.
	♃ ad ♃ h. 1 m. 2. dist. centr. ♃ 1 gr. 12. m. Bor.
	♀ ad ♄ h. 6. m. 43. dist. centr. ♀ 28. n. Austr.
	♃ ad ♄ h. 8. m. 5. dist. centr. ☽ 5. m. Austr.
	☿ Stationarius.

Planetæ in parallelis fixarum.

♃ a 1 ad 13 in parallelo β ♃ Leporis a 13 ad  
finem s. 3.  
☿ a 7 ad finem in parallelo η ♃.  
♃ Mense toto in parallelo ζ Andromedæ.  
♀ 1 ζ η ≈ 2. ♃ Aquil 3. ♃ Orion. 4. γ ≈ 5.  
η serp. 7. o Ceti mut. 10. λ Antin. 11. 17.  
Erid. 13. β ≈ 14. ☉ ≈ 15. ♃ Erid. 16. ♃  
Ophiuc. 17. Rigel. 18. χ ≈ 19. ♃ Ceti.  
x Orion. 21. Spic. ♃ 22. ♃ Erid. 23. j. 2.  
26. λ m 27. ♃ Ceti. 28. 1 α 29. ψ Δ.  
30. γ Δ.  
☽ in radius solaribus.



## NOVEMBER.

Dies Mens.	Ortus Planetarum apprens.		Tempus verum culminationis Planetarum.		Longitudo Planetarum Sole culminante.		Latitudo Planetarum Sole culminante.		Declinatio Planetarum Sole culminante.		Occasus Planetarum apprens.	
	H.	M.	H.	M.	G.	M.	G.	M.	G.	M.	H.	M.
♄ Saturnus.												
1	1	15	5	38	29	37	0	A 34	20	A 49	10	1
7	0	53	5	16	29	56	0	35	20	45	9	35
13	0	29	4	53	0	≈ 19	0	35	20	40	9	17
19	0	6	4	30	0	44	0	35	20	35	8	54
25	23	42	4	7	2	12	0	35	20	29	8	32
♃ Jupiter.												
1	3	48	9	55	6	∇ 4	I	A 36	0	B 57	16	2
7	3	23	9	29	5	34	I	34	0	47	15	35
13	2	58	9	3	5	11	I	33	0	39	15	8
19	2	32	8	37	4	55	I	31	0	34	14	42
25	2	7	8	12	4	47	I	29	0	32	14	17
♂ Mars.												
1	6	25	14	21	14	□ 22	0	B 20	22	B 53	22	17
7	5	55	13	51	13	3	0	38	23	1	21	47
13	5	23	13	19	11	18	0	57	23	6	21	15
19	4	49	12	45	9	12	I	15	23	5	20	41
25	4	14	12	10	6	56	I	22	23	0	20	6
♀ Venus.												
1	15	59	21	58	6	♁ 16	I	B 39	I	A 0	3	57
7	16	15	22	1	13	37	I	44	3	47	3	47
13	16	31	22	4	21	1	I	46	6	34	3	37
19	16	46	22	7	28	26	I	45	9	18	3	28
25	17	2	22	10	5	♄ 52	I	41	11	24	3	18
♿ Mercurius.												
1	18	32	23	41	3	♄ 31	0	B 56	11	A 49	4	50
7	19	3	23	54	13	18	0	16	15	35	4	45
13	19	33	0	6	22	54	0	A 24	18	54	4	39
19	20	1	0	19	2	20	I	?	21	39	4	37
25	20	28	0	33	11	41	I	34	23	45	4	3

## NOVEMBER.

*Eclipses Satellitum Jovis:*

I. SATELLES.			II. SATELL.			III. SATELL.									
Dies Caelis	Emerfiones.			Die Civ	Emerfiones.			Die Civ	Emerfiones.						
	H.	M.	S.		H.	M.	S.		H.	M.	S.				
1	4.	21.	21.M.	24	4.	33	19M.	3	9.	10.	2M	5	9.*	29.	24. V.Im.
2	10.*	50.	12.V.	25	11.*	1.	40V	6	10.*	28.	32V	5	11.*	42.	31. V.Em.
4	5.	18.	59. V.	27	5.	29.	59V	10	11.	46.	52M	13	1.*	31.	26. M.Im.
6	11.	47.	45.M.	29	11.	58.	17M.	14	1.*	5.	0M	13	3.	43.	13. M.Em.
8	6.	16.	29.M.					17	2.	22.	55V	20	5.	32.	50. M.Im.
10	0.*	45.	10.M.					21	3.	40.	39M	20	7.	43.	15. M.Em
11	7.*	13.	48. V.					24	4.	58.	10V	27	9.	33.	33. M.Im.
13	1.	42.	24. V.					28	6.	15.	29M.	27	11.	42.	45. M.Em
15	8.	11.	0.M.												
17	2.*	39.	33.M.												
18	9.*	8.	4. V.												
20	3.	36.	32. V.												
22	10.	4.	57.M.												

IV. SAT.		
H. M. S.		
15	10.*	29. 21. V. I.
15	10.*	39. 7. V. E.



		November		1785
Dies	Situs Satellitum	Tubo astron. hor. 8. Vespere		
1		2.	( )	1.3. .4
2		3.2	( )	
3		3.	( )	.2 4.
4		.3	( )	2.1 4.
5		2. 1.	( )	4. ● 3
6	● 2		( )	4. .1 .3
7		4. .1	( )	2. 3.
8		4. 2.	( )	1.3.
9	4.	.2. .1	( )	
10	.1	3.	( )	.2 1 0
12	.4	2. 1.	( )	
13	.4		( )	.1 .3
14		.2.1	( )	2. 3.
15		2.	( )	.4 3.
16		.2 3.1	( )	.4
17		3.	( )	.2 .4
19		2. 1.3	( )	4.
20		.2	( )	.1 .3 4.
21		1.	( )	.2 .34.
22			( )	1. 4.3. 2 0
23		.2 .1.3.	( )	4 0
24		3. 4.	( )	1.2
25		4. .3	( )	2. ● 1
26	4.	2. .3 1.	( )	
27	.4	.2	( )	.1 .3
28	.4	1.	( )	.2 .3
29	.4		( )	.1 3. 2 0
30		.4 .2 .1	( )	3 0
Dies		Situs Satellitum pro tempore Eclips. Vienn. visib.		
2	Emers. I.	3. .2	( )	.1
5	Emers. III.	.2 .1	( )	.3 4.
6	Emers. II.		( )	.2 1. .3
10	4.	3. .2	( )	.1 Emers. I.
11	.4	.3	( )	.1 2. Emers. I.
13	.4	.2 .1	( )	.3 Immers. III.
14		.4	( )	.2 1. .3 Emers. II.
15		2.	( )	1.2 3. Immers. IV.
15		2.	( )	1.2 3. Emers. IV.
17	Emers. I.	3. .2	( )	.1 .4
18	Emers. I.	.3	( )	.1 2. .4
25		4. .3	( )	.1 2. Emers. I.





## D E C E M B E R. ○

Dies Aethiopi.	Dies Mensis Civilis.	Dies Hebraeorum.	DECEMBER.	Tempus medium meridiani veri ☉				Incrementum diurnum temporis medii.	Distantia a Meridiano.				Acceleratio stellarum fixarum præ motu æthero.
				H.	M.	S.	D.		S.	D.	H.	M.	
334	1	Jovis.	S. Eligius.	23.49.36.	4	23.	6	7.27.41.	2	4.20.	2		
335	2	Ven.	S. Bibiana V. †	23.50. 0.	0	24.	2	7.23.21.	0	4.20.	9		
336	3	Sab.	S. Franc. X.	23.50.24.	2	24.	8	7.19. 0.	1	4.21.	4		
337	4	<i>B. Dom</i>	2 <i>Adv.</i> Barbara.	23.50.49.	0	25.	3	7.14.38.	7	4.21.	9		
338	5	Lun.	S. Sabina	23.51.14.	3	25.	8	7.10.16.	8	4.22.	4		
339	6	Mart.	S. Nicolaus.	23.51.40.	1	26.	2	7. 5.54.	4	4.22.	9		
340	7	Merc.	S. Ambrosius †	23.52. 6.	3	26.	8	7. 1.31.	5	4.23.	4		
341	8	Jovis	<i>Conc. B. V. M.</i>	23.52.33.	1	27.	2	6.57. 8.	1	4.23.	9		
342	9	Ven.	S. Leocadia †	23.53. 0.	3	27.	5	6.52.44.	2	4.24.	2		
343	10	Sab.	S. Judith. V.	23.53.27.	9	27.	9	6.48.20.	0	4.24.	6		
344	11	<i>B. Dom</i>	3 <i>Adv.</i> Damasc.	23.53.55.	8	28.	3	6.43.55.	4	4.24.	9		
345	12	Lun.	S. Maximil.	23.54.24.	1	28.	6	6.39.30.	5	4.25.	1		
346	13	Mart.	S. Lucia V.	23.54.52.	7	28.	8	6.35. 5.	4	4.25.	6		
347	14	Merc.	<i>Quat. Temp.</i> †	23.55.21.	5	29.	1	6.30.39.	8	4.25.	8		
348	15	Jovis	S. Irenæus	23.55.50.	6	29.	3	6.26.14.	0	4.25.	9		
349	16	Ven.	S. Eusebius †	23.56.19.	9	29.	5	6.21.48.	1	4.26.	1		
350	17	Sab.	S. Lazarus †	23.56.49.	4	29.	7	6.17.22.	0	4.26.	3		
351	18	<i>B. Dom</i>	4 <i>Adv.</i> Gratian.	23.57.19.	1	29.	8	6.12.55.	7	4.26.	5		
352	19	Lunæ	S. Nemesius	23.57.48.	9	29.	9	6. 8.29.	2	4.26.	6		
353	20	Mart.	S. Amon	23.58.18.	8	29.	9	6. 4. 2.	6	4.26.	6		
354	21	Merc.	S. Thom. Ap. †	23.58.48.	7	30.	0	5.59.36.	0	4.26.	5		
355	22	Jovis.	S. Zeno M.	23.59.18.	7	30.	0	5.55. 9.	5	4.26.	7		
356	23	Ven.	S. Victoria. †	23.59.48.	7	30.	0	5.50.42.	8	4.26.	7		
357	24	Sab.	S. Ad. & Ev. †	0. 0.18.	7	30.	0	5.46.16.	1	4.26.	6		
358	25	<i>B. Dom</i>	<i>Nat. D. N. J. C.</i>	0. 0.48.	7	29.	9	5.41.49.	5	4.26.	5		
359	26	Lun.	<i>S. Steph Prot. M</i>	0. 1.18.	6	29.	7	5.37.23.	0	4.26.	4		
360	27	Mart.	S. Joannes Ev.	0. 1.48.	3	29.	6	5.32.56.	6	4.26.	2		
361	28	Merc.	S. Inocent. M.	0. 2.17.	9	29.	4	5.28.30.	4	4.26.	0		
362	29	Jov.	S. Thom Cant.	0. 2.47.	3	29.	2	5.24. 4.	4	4.25.	8		
363	30	Ven.	S. David Rex	0. 3.16.	5	29.	0	5.19.38.	6	4.25.	5		
364	31	Sab.	S. Sylvester. P.	0. 3.45.	5			5.15.13.	1				

## D E C E M B E R. ☉

*Solis in Meridiano versantis.*

Dies Mensis	Longitudo vera.			Motus horarius verus.			Ascensio recta.			Ascensio recta conversa in tempus.				Declinatio vera Australis.			Altitudo centri vera.		
	G.	M.	S.	M.	S.	D.	G.	M.	S.	H.	M.	S.	D.	G.	M.	S.	G.	M.	S.
1	9.	44.	21	2.	32.	3	248.	4.	42	16.	32.	18.	8	21.	56.	17	19.	51.	7
2	10.	45.	19	2.	32.	4	249.	9.	45	16.	36.	39.	0	22.	5.	8	19.	42.	16
3	11.	46.	17	2.	32.	4	250.	14.	58	16.	40.	59.	9	22.	13.	34	19.	33.	50
4	12.	47.	16	2.	32.	4	251.	20.	19	16.	45.	21.	3	22.	21.	34	19.	25.	50
5	13.	48.	16	2.	32.	5	252.	25.	48	16.	49.	43.	2	22.	29.	7	19.	18.	17
6	14.	49.	17	2.	32.	5	253.	31.	24	16.	54.	5.	6	22.	36.	15	19.	11.	9
7	15.	50.	19	2.	32.	5	254.	37.	7	16.	58.	28.	5	22.	42.	55	19.	4.	29
8	16.	51.	21	2.	32.	6	255.	42.	58	17.	2.	51.	9	22.	49.	5	18.	58.	19
9	17.	52.	23	2.	32.	6	256.	48.	57	17.	7.	15.	8	22.	54.	53	18.	52.	31
10	18.	53.	26	2.	32.	6	257.	55.	0	17.	11.	40.	0	23.	0.	13	18.	47.	11
11	19.	54.	29	2.	32.	7	259.	1.	9	17.	16.	4.	6	23.	5.	4	18.	42.	20
12	20.	55.	33	2.	32.	7	260.	7.	22	17.	20.	29.	5	23.	9.	28	18.	37.	56
13	21.	56.	37	2.	32.	7	261.	13.	39	17.	24.	54.	6	23.	13.	24	18.	34.	0
14	22.	57.	41	2.	32.	8	262.	20.	3	17.	29.	20.	1	23.	16.	53	18.	30.	31
15	23.	58.	46	2.	32.	8	263.	26.	30	17.	33.	46.	0	23.	19.	54	18.	27.	30
16	24.	59.	52	2.	32.	8	264.	32.	58	17.	38.	11.	9	23.	22.	27	18.	24.	57
17	26.	0.	58	2.	32.	8	265.	39.	30	17.	42.	38.	0	23.	24.	32	18.	22.	52
18	27.	2.	3	2.	32.	9	266.	46.	4	17.	47.	4.	3	23.	26.	9	18.	21.	25
19	28.	3.	12	2.	32.	9	267.	52.	42	17.	51.	30.	8	23.	27.	17	18.	20.	7
20	29.	4.	19	2.	32.	9	268.	59.	21	17.	55.	57.	4	23.	27.	56	18.	19.	28
21	0.	7.	5.	2.	32.	9	270.	6.	0	18.	0.	24.	0	23.	28.	7	18.	19.	17
22	1.	6.	37	2.	33.	0	271.	12.	37	18.	4.	50.	5	23.	27.	50	18.	19.	34
23	2.	7.	47	2.	33.	0	272.	19.	18	18.	9.	17.	2	23.	27.	5	18.	20.	19
24	3.	8.	58	2.	33.	0	273.	25.	58	18.	13.	43.	9	23.	25.	52	18.	21.	32
25	4.	10.	9	2.	33.	0	274.	32.	37	18.	18.	10.	5	23.	24.	10	18.	23.	14
26	5.	11.	20	2.	33.	0	275.	39.	15	18.	22.	37.	0	23.	21.	59	18.	25.	25
27	6.	12.	32	2.	33.	0	276.	45.	51	18.	27.	3.	4	23.	19.	21	18.	28.	3
28	7.	13.	44	2.	33.	0	277.	52.	25	18.	31.	29.	6	23.	16.	16	18.	31.	8
29	8.	14.	57	2.	33.	0	278.	58.	54	18.	35.	55.	6	23.	12.	42	18.	34.	42
30	9.	16.	10	2.	33.	0	280.	5.	21	18.	40.	21.	4	23.	8.	39	18.	38.	45
31	10.	17.	23	2.	33.	0	281.	11.	43	18.	44.	46.	9	23.	4.	9	18.	43.	15

## D E C E M B E R. ☉

*Solis in Meridiano versantis.*

Dies Mensis.	Diameter ☉ apparens.		Mora transitus disci ☉ per Meridianum.		Distantia ☉ a δ cujus distant. med.  = 1000.	Ortus centri ☉ verus.	Occasus centri ☉ verus.	Dies Mensis.	Phænomena & Observationes. ☉
	M. S.	M. S.	H. M.	H. M.					
1	32. 35. 1	2. 21. 3	9853.	19. 47	4. 13				
2	32. 35. 4	2. 21. 5	9852.	19. 48	4. 12			1	☉ in parallelo γ Hydræ culm. h. 20. m. 32.
3	32. 35. 7	2. 21. 6	9850.	19. 49	4. 11			5	☉ in nodo desc. ♀
4	32. 36. 0	2. 21. 7	9849.	19. 49	4. 11				☉ in parallelo γ Lep. culm. h. 12. m. 44.
5	32. 36. 2	2. 21. 8	9848.	19. 50	4. 10				
6	32. 36. 4	2. 21. 9	9847.	19. 50	4. 10				
7	32. 36. 6	2. 22. 1	9845.	19. 51	4. 9			17	☉ in parallelo α Corvi culm. h. 13. m. 12.
8	32. 36. 8	2. 22. 2	9844.	19. 52	4. 8				☉ in parallelo ρ scorpion culm. h. 22. m. 22.
9	32. 37. 0	2. 22. 3	9843.	19. 52	4. 8			20	Ingressus ☉ in o. ♀ h. 21. m. 51.
10	32. 37. 2	2. 22. 4	9842.	19. 53	4. 7				
11	32. 37. 4	2. 22. 4	9841.	19. 53	4. 7				
12	32. 37. 6	2. 22. 5	9840.	19. 54	4. 6			21	☉ in parallelo α Corvi culm. h. 17. m. 54.
13	32. 37. 8	2. 22. 6	9839.	19. 54	4. 6				
14	32. 38. 0	2. 22. 6	9838.	19. 55	4. 5			28	☉ in nodo descend. ♀
15	32. 38.	2. 22. 6	9837.	19. 55	4. 5				
16	32. 38. 2	2. 22. 7	9837.	19. 56	4. 4				
17	32. 38. 4	2. 22. 7	9837.	19. 56	4. 4				
18	32. 38. 5	2. 22. 7	9836.	19. 56	4. 4				
19	32. 38. 6	2. 22. 7	9835.	19. 56	4. 4				
20	32. 38. 7	2. 22. 7	9835.	19. 56	4. 4				
21	32. 38. 8	2. 22. 7	9834.	19. 56	4. 4				
22	32. 38. 8	2. 22. 7	9834.	19. 56	4. 4				
23	32. 38. 9	2. 22. 6	9833.	19. 56	4. 4				
24	32. 39. 0	2. 22. 6	9832.	19. 56	4. 4				
25	32. 39. 0	2. 22. 5	9832.	19. 56	4. 4				
26	32. 39. 1	2. 22. 5	9832.	19. 56	4. 4				
27	32. 39. 1	2. 22. 4	9832.	19. 56	4. 4				
28	32. 39. 1	2. 22. 4	9832.	19. 56	4. 4				
29	32. 39. 2	2. 22. 3	9831.	19. 55	4. 5				
30	32. 39. 2	2. 22. 2	9831.	19. 55	4. 5				
31	32. 39. 2	2. 22. 2	9831.	19. 54	4. 6				

## D E C E M B E R. )

*Loca Lunæ Sole in Meridiano versante.*

Dies Mensis	Longitudo vera	Latitudo vera	Declinatio vera	Nodus ascens.	Diameter horizon- talis.	Parallaxis horizon- talis.	Tempus culmin.
	S. G. M. S.	G. M. S.	G. M. S.	G. M.	M. S.	M. S.	H. M.
1	4.58.55	4.22.28	25.29.10	5.41.	30 15	55 31	♂
2	17.35. 2	3.42. 3	26.34. 3	5.37.	30 31	55 59	0 29
3	0.22.21	2.49.50	26.19.49	5.34.	30 47	56 29	1 24
4	13.20.44	1.48. 0	24.36.26	5.31.	31 3	56 58	2 18
5	26.30.13	0.39.21	21.32.35	5.28.	31 19	57 27	3 12
6	9.51. 9	0.32.36	17.18.10	5.24.	31 34	57 56	4 3
7	23.24. 9	1.43.53	12. 5.50	5.21.	31 50	58 24	4 52
8	7. 9.51	2.50.23	6.15.52	5.18.	32 3	58 50	5 40
9	21. 8.39	3.47.54	0. 2. 5	5.14.	32 17	59 15	6 27
10	5.20. 6	4.32.17	6.17.41	5.11.	32 28	59 35	7 15
11	19.42.37	5. 0.14	12.21.23	5. 8.	32 36	59 52	8 5
12	4.12.49	5. 9.11	17.48.14	5. 4.	32 40	59 58	9 0
13	18.45.56	4.58.46	22.12.58	5. 1.	32 38	59 56	9 58
14	3.15.48	4.29. 1	25.15.32	4.58.	32 32	59 43	10 58
15	17.35.48	3.42.34	26.33.44	4.54.	32 19	59 18	11 59
16	1.39.58	2.43.14	26. 8.13	4.51.	32 0	58 44	12 59
17	15.23.55	1.35.52	24.11. 9	4.48.	31 37	58 1	13 56
18	28.45.10	0.24.15	20.50.40	4.44.	31 12	57 15	14 47
19	11.43.37	0.46.28	16.33.18	4.41.	30 47	56 30	15 33
20	24.20.44	1.53. 4	11.39.13	4.38.	30 25	55 47	16 16
21	6.39.45	2.52.51	6.24.34	4.34.	30 4	55 11	16 57
22	18.44.49	3.43.45	1. 1.26	4.31.	29 51	54 44	17 36
23	0.40.40	4.24.16	4.19. 6	4.27.	29 41	54 27	18 15
24	12.32.18	4.53.15	9.28. 4	4.24.	29 38	54 21	18 56
25	24.24.47	5. 9.45	14.16.25	4.21.	29 40	54 26	19 39
26	6.22.44	5.12.47	18.35.18	4.18.	29 48	54 39	20 25
27	18.30.14	5. 2.11	22.12.52	4.14.	29 59	55 1	21 14
28	0.50.26	4.37.41	24.54. 2	4.11.	30 15	55 31	22 5
29	13.25.34	3.59.14	26.22.56	4. 8.	30 34	56 5	23 0
30	26.16.40	3. 7.55	26.31.44	4. 4.	30 53	56 41	23 56
31	9.23.58	2. 5.25	25. 9.24	4. 1.	31 13	57 17	♂



## D E C E M B E R. ☾

Loca Luna media nocte.

Congress. ☽ cum fixis &amp; Planet

Dies Mensis	Longitudo vera ☽.	Latitudo vera. ☽	Diameter ☽ horizontalis.	Parallaxis. ☽ horizontalis.	Dies Mensis.	Nomina & Character Fixarum & Planetarum.	Tempus verum conjunctionis verae in longitudinem.		Distantia centri ☽ vera in latitudinem.	
	G. M. S.	G. M. S.	M. S.	M. S.			H.	G.	G.	M.
	A									
1	→ 11.15.36	4. 3.51	30.24	55.44	4	♃ → 5	I	16	o	8 B
2	23.57.20	3.17.20	30.39	56.14	5	♃ → 5	5	27	o	53 B
3	♄ 6.50. 9	2.19.57	30.55	56.44	6	♃ → 5	5	32	c	48 B
4	19.54. 2	1.14.19	31.11	57.13	7	♃ → 5	I	46	1	10 B
5	≈ 3. 9.13	0. 3.34	31.26	57.42	8	♃ → 5	4	10	o	30 B
	B.									
6	16.36. 6	1. 8.35	31.42	58.10	9	♃ → 5	6	47	o	19 A
7	♃ 0.15.23	2.18. 1	31.56	58.37	10	♃ → 5	11	44	1	2 B
8	14. 7.40	3.20.30	32.10	59. 3	11	♃ → 5	11	36	o	53 B
9	28.12.54	4.11.58	32.22	59.26	12	♃ → 5	12	39	o	33 B
10	√ 12.30. 9	4.48.30	32.33	59.45	13	♃ → 5	13	37	o	41 B
11	26.57. 3	5. 6.36	32.38	59.56	14	♃ → 5	3	6	o	24 B
12	♃ 11.29.22	5. 5.55	32.39	59.58	15	♃ → 5	9	14	o	15 B
13	26. 1.42	4.46.11	32.35	59.50	16	♃ → 5	6	20	o	4 B
14	♃ 10.27.26	4. 7.41	32.26	59.32	17	♃ → 5	15	2	1	7 B
15	24.40.10	3.14.13	32.10	59. 2	18	♃ → 5	15	50	o	37 B
16	♃ 8.34.39	2.10. 5	31.49	58.23	19	♃ → 5	18	45	o	43 B
17	22. 7.25	1. 0. 5	31.24	57.38	20	♃ → 5	19	41	o	12 B
	A.									
18	♃ 5.17.11	0.11.25	30.59	56.52	21	♃ → 5	22	9	o	46 B
19	18. 4.39	1.20.28	30.35	56. 7	22	♃ → 5	11	45	o	13 B
20	♃ 0.32.16	2.23.57	30.14	55.28						
21	12.43.45	3.19.31	29.57	54.57						
22	24.43.35	4. 5.25	29.45	54.35						
23	♃ 6.36.43	4.40.18	29.39	54.23						
24	18.28.10	5. 3. 0	29.39	54.22						
25	♃ 0.22.48	5.12.34	29.47	54.31						
26	12.25. 4	5. 8.55	29.54	54.49						
27	24.38.35	4.51.44	30. 7	55.16						
28	→ 7. 6. 4	4.20. 7	30.28	55.48						
29	19.49. 5	3.35. 5	30.47	56.23						
30	♃ 2.48.17	2.38. 2	31. 4	57. 0						
31	16. 3.18	1.31. 6	31.23	57.36						

# DECEMBER.

Dies Mensis	Phænomena & Observaciones ☽.
1	☽ ad α τ μ γ ω Ophiuc.
2	☽ ad β & ρ B Ophiuc.
3	☽ ad λ λ ϑ σ τ α π →
4	☽ ad ψ χ η →
5	☽ in nodo ascendente ☽ ad η & β
6	☽ ad η θ ν ι ε γ δ λ ρ
7	☽ ad ι ϑ ρ σ κ ≡
8	☽ ad λ ψ φ ≡
9	☽ ad π & λ κ
10	☽ ad ϑ ε ζ η
11	☽ ad μ η π ο χ
12	Perigeæ & ad μ ε δ γ
13	☽ ad ζ & ad Plejades γ δ
14	☽ ad β γ ε α ο ι ϑ
15	☽ ad β ζ η H η □
16	☽ ad μ ν γ ε ζ η □
17	☽ ad δ λ υ κ □
18	☽ in nodo descendente & ad c e γ δ α σ
19	☽ ad ω ε ο Ω
20	☽ ad η π α A Ω
21	☽ ad c γ u σ τ Ω
22	☽ ad ν β c π τ
23	☽ ad η γ χ η π
24	Apogææ & ad ψ ϑ γ α ι π
25	☽ ad κ λ π
26	☽ ad μ α ν ι ε
27	☽ ad ζ η θ λ Δ δ π β M
28	☽ ad ν σ α τ μ
29	☽ ad ϑ & ρ B Ophiuc.
30	☽ ad γ μ δ λ ϑ σ →
31	☽ ad ζ τ ο π ψ χ →

Phates Lunæ.

- 1 Novilunium h. 9. m. 51. in → gr. 10. m. 9.
- 8 Primus Quadrans h. 17. m. 56. in χ gr. 17. m. 57.
- 15 Plenilunium h. 11. m. 44. in □ gr. 24. m. 28.
- 23 Ultimus Quadrans h. 3. m. 12. in Δ gr. 2. m. 16.
- 31 Novilunium h. 1. m. 44. in ρ gr. 10 m. 22.

Dies Mensis	Phænomena & Observaciones Planetarum.
2	♀ ad ν Δ h. 23. m. 2. dist. centr. ♀ 16. m. Bor.
9	♂ ad λ → h. 3. m. 30. dist. centri ♂ 10. m. Austr.
10	♀ ad κ Δ h. 3. m. 50. dist. centri ♀ 1. gr. 17. m. Bor.
12	♀ ad λ Δ h. 8. m. 0. dist. centr. ♀ 1. gr. 7. m. Bor.
13	♂ ad σ → h. 8. m. 9. dist. centr. ♂ 1. gr. 11. Bor.
14	♀ ad β μ h. 11. m. 50. dist. centri ♀ 9. m. Bor.
15	♀ ad ι ω η h. 21. m. 26. dist. centri ♀ 55. m. Bor.
16	♀ ad α ω η hor. 0. m. 28. dist. centr. ♀ 1. gr. 4. m. Bor.
17	♀ ad ν η hor. 16. m. 0. dist. centr. ♀ 32. m. Austr.
18	♂ ad ψ → hor. 19. m. 54. dist. centr. ♂ 51. m. Bor.
19	♂ ad λ → hor. 3. m. 30. dist. centr. ♂ 10. m. Austr.
22	♂ in digressionē maxima.
26	♀ in nodo descendente
30	♀ Stationarius.

Planetæ in Paralleli fixarum.

h a 1 ad 25. in parallelo 54 Eridani.  
 η a 1 ad 16. in parallelo n η π  
 ♂ 1. 2. 5 Andromedæ. 3. 4. 5. 6. μ □ 7. 9.  
 μ η □ α γ. 9. 10. 11. 12. 13. 14. μ η □  
 15. 16. μ □ δ □ γ ♂. 17. 18. 19. η δ □  
 α γ γ ♂. 20. ad 27. α γ δ □ γ ♂ ab  
 28. ad finem δ □ γ ♂.  
 ♀ 2. 2 τ ≈ 3. α Δ 4. 53. Erid. 5. 9 Δ 6.  
 Syrius. 8. δ ≈ 10. γ ρ 11. α Lep. 13.  
 19. ρ 14. ν μ 15. β Ceti. 16. λ Δ 18. 54.  
 Erid. 19. ε ρ 21. ρ Ophiuc. 22. ι μ →.  
 23. 24. π → ε Corv. 26. 27. δ m γ Hydr.  
 0 →. 28. γ Hydr. 0 → 29. 30. γ Lep. 21.  
 2. ν →.  
 ♀ 13. ι Erid. 14. 15. ρ μ 16. 17. 9 Ophiuc.  
 18. 19. Argonav. 20. 21. b → dupl. 22  
 23. ι ν → 24. 25. γ Lepor. 26. δ m Hydr.  
 π → 28. ι μ →. 29. ε. ρ. 30. 54 Erid.

## D E C E M B E R.

Dies Mense.	Ortus Planetarum apprens.		Tempus verum culminationis Planetarum.		Longitudo Planetarum Sole culminante.		Latitudo Planetarum Sole culminante.		Declinatio Planetarum Sole culminante.		Occasus Planetarum apprens.	
	H.	M.	H.	M.	G.	M.	G.	M.	G.	M.	H.	M.

## ♄ Saturnus.

1	23	17	3	43	1	≈ 42	0	A 55	20	A 22	8	6
7	22	52	3	19	2	15	0	35	20	15	7	46
13	22	28	2	55	2	50	0	36	20	7	7	22
19	22	3	2	31	3	27	0	36	19	59	6	59
25	21	39	2	8	4	5	0	36	19	50	6	27

## ♃ Jupiter.

1	1	41	7	46	4	√ 45	1	A 27	0	B 34	13	51
7	1	15	7	20	4	52	1	25	0	38	13	25
13	0	49	6	55	5	5	1	24	0	44	13	1
19	0	22	6	29	5	26	1	22	0	54	12	36
25	23	57	6	4	5	54	1	20	1	7	12	10

## ♂ Mars.

1	3	39	11	34	4	□ 40	1	B. 47	22	B 50	19	29
7	3	5	10	59	2	35	2	0	22	39	18	53
13	2	32	10	25	0	50	2	10	22	27	18	18
19	2	1	9	53	29	♄ 29	2	17	22	18	17	45
25	1	32	9	23	28	37	2	22	22	12	17	14

## ♀ Venus.

1	17	17	22	14	13	♃ 20	1	B 34	14	A 22	3	11
7	17	31	22	17	20	49	1	25	16	36	3	3
13	17	45	22	21	28	19	1	14	18	25	2	57
19	17	59	22	25	5	♄ 49	1	2	20	17	2	51
25	18	12	22	30	13	20	0	48	21	39	2	48

## ☿ Mercurius.

1	20	51	0	48	20	↔ 56	2	A 0	25	A 9	4	45
7	21	8	1	2	0	♄ 8	2	15	25	44	4	56
13	21	20	1	16	9	5	2	15	25	24	5	12
19	21	22	1	25	17	21	1	53	24	13	5	28
25	21	11	1	25	23	41	0	58	22	21	5	39

# D E C E M B E R.

## *Eclipses Satellitum Jovis.*

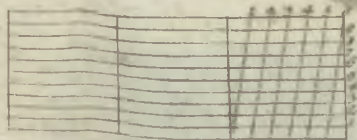
I. SATELLES.				II. SATELL.				III. SATELL.							
Dies Civiles	Emergones.			Dies Civiles	Emergones.			Dies Civiles	Emergones.			Dies Civiles	Emergones.		
	H.	M.	S.		H.	M.	S.		H.	M.	S.		H.	M.	S.
1	6	26	33 M	26	1.	0.	23. M	1	7.*	32.	36 V	4	1.	33.	36 V.Im.
3	0*	54	47 M	27	7.*	28.	28 V	5	8.	49.	37 M	4	3.	41.	40 V.Im.
4	7*	22	59 V	29	1.	56.	35. V	8	10.*	6.	28 V	II	5.	33.	24 V.Im.
6	1	51	10 V	31	8.	24.	44. M	12	II.	23.	12 M	II	7.*	40.	9 V.Im.
8	8	19	20 M					16	0.	39.	50 M	18	9.*	33.	4 V.Im.
10	2	47	29 M					19	1.	56.	23 V	18	II*	38.	24 V.Im.
11	9*	15	38 V					23	3.	12.	52 M	26	1.	32.	33 V.Im.
13	3	43	45 V					26	4.	29.	18 V	26	3.	35.	31 M.Im.
15	10	11	50 M					30	5.	45.	46 M				
17	4	39	57 M									IV. Satel. Coris			
18	II*	8	3 V									H. M.			
20	5	36	9 V									2	5.	7.	M. Sup.
22	0	4	14 V									10	1.	38.	V. Inf.
24	6	32	19 M									18	10.	18.	V. Sup.
												27	7.	18.	M. Inf.





		December				1785
Dies	Situs Satellitum	¶ tubo Astron. hor. 7. vespere				
1		3°	.4	○	1°	● 2
2		.3	.1	○	.2°	
3	1○		.3°	○		.4
4	● 1		.2	○	.3	.4
5			1°	○	.2	.3
6				○	.2° .1	.3° 4°
7		2° 1°		○	.3°	4°
8	● 2		.3°	○	1°	4°
9		.3	.1	○		4.2°
10			.3 2.4°	○	1°	
11		4°	.2	○		● 1 ● 3
12		4°		○	1°	.2 .3
13	4°			○	.2°	.3°
14	.4		2° 1°	○	.3°	
15	.4		.3°	○	1°	
16		.4 3°		○		2°
17			.3.4 2°	○	1°	
18			.2	○		● 3
19	1○			○	.2 .4 .3	
20				○	.1 2°	.3° .4
21			2° 1°	○	.3°	.4
22			.3° .2	○	.1	
23		.3°	.1	○		.2 4°
24	2○		.3	○	1°	4°
25			.2 .1	○		4°
26	1○			○	.4.2	.3
28		4°	2° 1°	○	.3°	
29	4°		.3.2	○	.1	
30	4°	.3°	1°	○		.2
31	.4	.3		○	1°	2○
Dies	Situs Satellitum	¶ pro tempore Eclips. Vien. visib.				
1		3°	.4	○	.1°	Emers. II.
3		.3		○	.1 2° .4	Emers. I.
4	Emers. I.		.2	○	.1 .3	.4
8	Emers. II.	.3°		○	.3°	4°
11	● 1	4°	.2	○	.3	Emers. III.
11		4°	.2	○	.1 .3	Emers. I.
18	● 1 ● 4		.2	○	.3	Immens. III.
18	● 3 ● 4		.2	○	.1	Emers. I.
18	● 4		.2	○	.1 .3	Emers. III.
27	Emers. I.	4°		○	.1 2°	.3°







Phases Veneris prima cujusvis Mensis die in partibus diametri 2000.  
 Item Diametri apparentes, & Parallaxes horizontales ad Annum 1783.

<p>1. Januarii.            Partes luminosae - - 1624.              Parall. 6. 9. Diam. 13. 4.</p>	<p>1. Februarii.            Partes luminosae - - 149.              Parall. 8. 2. Diam. 15. 8.</p>	<p>1. Martii.            Partes luminosae - - 1513.              Parall. 10. 2. Diam. 19. 5.</p>
<p>1. Aprilis.            Partes luminosae - - 378.              Parall. 14. 1. Diam. 27. 4.</p>	<p>1. Maji.            Partes luminosae - - 403.              Parall. 21. 9. Diam. 42. 0.</p>	<p>1. Junii.            Partes luminosae - - 4.              Parall. 59. 9. Diam. 57. 5.</p>
<p>1. Julii.            Partes luminosae - - 452.              Parall. 20. 4. Diam. 29. 8.</p>	<p>1. Augusti.            Partes luminosae - - 926.              Parall. 23. 3. Diam. 25. 6.</p>	<p>1. Septembris.            Partes luminosae - - 1223.              Parall. 5. 7. Diam. 18. 7.</p>
<p>1. Octobris.            Partes luminosae - - 1465.              Parall. 7. 8. Diam. 26. 0.</p>	<p>1. Novembris.            Partes luminosae - - 1654.              Parall. 6. 6. Diam. 22. 6.</p>	<p>1. Decembris.            Partes luminosae - - 2703.              Parall. 5. 9. Diam. 21. 4.</p>



## TABULA SYSTE-

Exhibens Planetarum magnitudines, distantias

Nomi- naPla- netarum.	Ratio dia- metrorum ad diamet- rum tel- luris.	Ratio superfi- ciorum ad su- perficiem tel- luris.	Ratio soliditatis ad soliditatem tel- luris.	Inclinatio orbitalium ad Eclipti- cam.	Inclina- tio orbi- tar. ad Æ- quato- rem ☉	Inclinatio orbitalium ad lios Æ- quatores
☉ Sol.	Centies major tel- lure.	Decies milia major.	Millionesies major.	- - -	- - -	- - -
♃ Merc	$\frac{1}{6}$ Tellu- ris.	$\frac{1}{8}$ Tellu- ris.	$\frac{1}{17}$ Telluris.	G. M. 6. 59 $\frac{1}{2}$ .	G. M. 3. 10.	- - -
♀ Ven.	$\frac{1}{19}$ Tellur.	$\frac{3}{24}$ Telluris.	Paulo minor quam $\frac{1}{3}$ Tel- luris.	G. M. 3. 27.	G. M. 4. 6.	G. M. 15. 0.
♁ Tel- lus.	Diam. tel- luris 1720. milliar. Germ.	Superficies tel- luris 928000. mill. quadrata.	Soliditas telluris 266556000 millia- ria cubica.	- - -	G. M. 7. 30.	G. M. 23. 28.
☾ Luna	$\frac{1}{4}$ Diam. telluris	$\frac{1}{13}$ Tellu- ris.	$\frac{1}{50}$ Telluris.	- - -	- - -	G. M. 7. 30.
♂ Mars	$\frac{2}{5}$ Tellu- ris.	$\frac{1}{2}$ Tellu- ris.	$\frac{1}{5}$ Telluris.	G. M. 11. 51.	G. M. 5. 50.	- - -
♃ Jupit.	Plus decies major tellure.	106 major tel- lure.	1170 major Tellu- re.	G. M. 1. 20.	G. M. 6. 22.	G. M. 5. 0.
♄ Satur- turn.	Minus quam decies major tellure.	99. major tel- lure.	920 major Tellu- re.	G. M. 2. 31.	G. M. 5. 53.	- - -

## Systema Jovis.

Satel- lites Jovis	Tempus periodicum circa Jovem.			Ratio Diametro- rum ad Diamet- rum Jovis.	Ratio Dia- metror. ad Diametrum Telluris.	Diametri orbita- rum.	
	D.	H.	M.			M.	S.
1.	1.	18.	29.	ut 1. ad 20.	1. ad 2.	3.	55.
2.	3.	13.	18.	1. - 20.	1. - 2.	6.	16.
3.	7.	4.	0.	1. - 18.	5. - 9.	9.	58.
4.	16.	18.	5.	1. - 20.	1. - 2.	17.	30.

## MATIS SOLARIS.

Inclinationes orbitarum, &amp; revolutionum Tempora.

Appa- rentes Diamet. in distan- tiamini- melluris.	Distantia mi- nima a Tellure in semidiametris Telluris.	Distantia a Sole in semidi- ametris Telluris.		Tempus perio- dicum circa solem.	Tempus revolu- tionis circa axes proprius.
		Distantia ma- xima a sole.	Distantia mi- nima a Sole.		
M. S. 32. 43.	21626.	- - -	- - -	- - -	D. H. M. 25. 12. 0.
M. S. 0. 15.	11352.	10274.	6754.	D. H. M. 87. 23. 15.	Incognitum.
M. S. 1. 19.	5600.	16016.	15796.	D. H. M. 224. 16. 48.	D. H. 0. 23.
- - -	- - -	22370.	21626.	365. D. 5. H. 48. m. 47. Sec. 56. Tert.	D. H. M. 0. 23. 56!
M. S. 33. 38.	54.	- - -	- - -	D. H. M. 27. 7. 43. circa tellurem.	D. H. M. 27. 7. 43.
M. S. 0. 30.	8184.	36630.	30426.	I. An. 221. D. 23. H. 30. m.	D. H. M. 1. 0. 40.
M. S. 0. 51.	86900.	119900.	108900.	11. An. 314. D. 12. H.	D. H. M. 0. 9. 56.
M. S. 0. 20.	176330.	221870.	197802.	29. An. 167. D. 22. H.	Incognitum.

## Systema Saturni.

## Annulus Saturni.

Satel- lites 9.	Tempus perio- dicum circa Saturnum.	*Diametri Orbitarum.	Diameter marginis exterioris annuli 42. Secunda.
	D. H. M.	M. S.	Diameter marginis interioris annuli 30. Secunda.
1.	1. 21. 18.	1. 27.	Inclinatio plani hujus annuli ad Aequi- pocam 23. gr. 30. m.
2.	2. 11. 41.	1. 53.	
3.	4. 12. 25.	2. 56.	
4.	15. 22. 41.	6. 0.	
5.	79. 7. 47.	17. 24.	

Catalogus Fixarum  
Bradlejanus cum supplemento de la Caillii ad principium A. 1785.

Nr. tel- læ Brad- le- jæ.	Nomen Stellæ & Character.	Ascensio recta in tempore.				Variatio annua.	Declinatio.	Variatio annua.
		H.	M.	S.	D.			
1	γ Pegasi Algenib.	2	0.	2.11.5	3. 1.	13.59.16.00. B	+ 20.04	
2	ι Ceti.	3	0.	8.15.3	3. 1.	10. 1.41.00. A	- 20.00	
3	θ Piscium.	5	0.	9.33.4	3. 1.	6.59.50.00. P	+ 20.40	
4	δ Andromedæ.	3	0.	27.51.1	3. 1.	29.40.20.25. B	+ 20.01	
5	α Cassiopeæ.	3	0.	28.18.8	3. 3.	55.21.25.75. P	+ 19.91	
6	β Ceti.	3	0.	32.47.0	3. 0.	19.10.10.60. A	- 19.86	
7	ζ Andromedæ.	4	0.	35.59.6	3. 2.	23. 5.44.90. B	+ 19.82	
8	20 Ceti.	5	0.	42. 2.5	3. 1.	2.18.54.50. A	- 19.74	
9	γ Cassiopeæ.	3	0.	43.52.7	3. 5.	59.32.56.75. B	+ 19.71	
—	α Polaris.	2	0.	48.34.9	10. 0.	88. 9.23.90. B	+ 19.70	
10	ι Piscium.	4	0.	51.46.4	3. 1.	6.44.43.60. B	+ 19.58	
11	e Piscium.	4	0.	57.19.4	3. 1.	4.30.35.50. B	+ 19.46	
12	β Andromedæ.	2	0.	57.45.2	3. 3.	34.28.33.25. B	+ 19.45	
13	η Ceti.	3	0.	57.46.4	3. 0.	11.19.32.75. A	- 19.45	
14	θ Cassiopeæ.	4	0.	58. 6.9	3. 5.	54. 0. 9.00. B	+ 19.44	
15	ζ Piscium.	4	1.	2.30.8	3. 1.	6.26. 2.50. P	+ 19.30	
16	δ Cassiopeæ.	3	1.	5.44.3	3. 7.	59. 6.48.00. B	+ 19.12	
17	θ Ceti.	3	1.	13.17.3	3. 0.	9.17.44.25. A	- 19.07	
18	μ Piscium.	5	1.	18.55.9	3. 1.	5. 1.53.00. B	+ 18.92	
19	η Piscium.	5	1.	20. 0.8	3. 2.	14.13.57.10. B	+ 18.88	
20	π Piscium.	5	1.	25.43.1	3. 1.	11. 2. 7.75. B	+ 18.71	
21	105 Piscium.	5	1.	28. 6.7	3. 2.	15.18.34.74. B	+ 18.63	
22	ν Piscium.	4	1.	30.15.3	3. 1.	4.23.36.00. B	+ 18.56	
23	ο Piscium.	4	1.	34. 2.9	3. 1.	8. 4. 8.25. B	+ 18.41	
24	ς Cassiopeæ.	3	1.	39. 6.9	4. 1.	62.36. 9.75. B	+ 18.27	
—	α Trianguli.	4	1.	40.50.8	3. 3.	28.31.38.92. B	+ 18.22	
25	γ Arietis.	4	1.	41.46.7	3. 3.	18.14. 2.00. B	+ 18.20	
26	β Arietis.	3	1.	42.48.2	3. 3.	19.45. 2.30. B	+ 18.10	
27	ι Arietis.	5	1.	45.47.7	3. 2.	16.45.39.00. B	+ 18.00	
28	λ Arietis.	5	1.	45.59.1	3. 3.	22.32.38.50. B	+ 18.50	
29	γ Andromedæ.	2	1.	50.46.6	3. 6.	41.17. 23.00. B	+ 17.80	
30	α Piscium.	3	1.	50.56.3	3. 1.	1.47. 4.00. B	+ 17.80	
31	α Arietis.	2	1.	55. 5.1	3. 3.	22.26.19.00. B	+ 17.60	
—	β Trianguli.	4	1.	56.47.5	3. 5.	33.57.46.76. B	+ 17.59	
32	19 Arietis.	5	2.	1.20.9	3. 2.	14.15.51.25. B	+ 17.37	
33	1.ξ Ceti	4	1.	1.25.4	3. 1.	7.50. 6.25. B	+ 17.37	

Catalogus Fixarum  
Bradsejanus cum supplemento de la Caillii ad principium Anni 1785.

Nr. Stel. in Brad lej.	Nomen Stelle & Character.	Ascensio recta in tempore.		Variatio annua.	Declinatio.	Variatio annua.
		M. S. D.	S. D.		G. M. S. C.	S. C.
34	1. $\xi$ Ceti.	5	2. 1.38.4	3. 2.	4.49.47.25. B	+ 17.37
—	$\gamma$ Trianguli.	4	2. 4.34.6	3. 5.	32.50.42.25. B	+ 17.25
35	1. $\beta$ Arietis.	5	2. 6.11.8	3. 3.	18.54.10.75. B	+ 17.15
36	$\sigma$ Ceti mutabilis.	2	2. 8.30.0	3. 0.	3.57.42.00. A	- 17.04
37	2. $\xi$ Ceti.	4	2. 16.43.8	3. 1.	7.27.44.75. B	+ 16.63
38	$\delta$ Ceti.	2	2. 28.29.1	3. 1.	0.36.30.00. A	- 16.00
39	$\epsilon$ Ceti.	3	2. 29.10.5	2. 9.	12.47.29.50. A	- 16.02
40	$\theta$ Persei.	4	2. 29.29.3	3. 5.	48.18.30.50. B	+ 16.02
41	35 Arietis	4	2. 30.53.3	3. 5.	26.46.51.00. B	+ 15.80
42	$\gamma$ Ceti.	3	2. 32.11.4	3. 1.	2.19.18.50. B	+ 15.80
43	$\mu$ Ceti.	4	2. 33.20.5	3. 2.	9.11.48.00. B	+ 15.80
44	* Ceti.	3	2. 33.53.1	2. 8.	14.46.40.75. A	- 15.7
45	$\tau$ Persei.	5	2. 39. 6.4	4. 1.	51.52.10.50. B	+ 15.50
46	3. $\epsilon$ Arietis.	5	2. 44.25.2	3. 3.	17. 9.23.00. B	+ 15.20
47	$\eta$ Eridani.	3	2. 45.55.7	2. 9.	9.45.40.50. A	- 15.10
48	$\nu$ Arietis.	5	2. 46.33.1	3. 4.	20.28.11.25. B	+ 15.05
49	$\gamma$ Persei.	3	2. 49.19.9	4. 2.	52.37.59.16. B	+ 14.93
50	$\alpha$ Ceti.	2	2. 51. 3.4	3. 1.	3.14. 8.00. B	+ 14.7
51	3 Persei Algol.	3	2. 54.15.0	3. 8.	40. 6.49.75. B	+ 14.63
52	$\delta$ Arietis.	4	2. 59.20.1	3. 3.	18.54. 4.75. B	+ 14.31
53	$\rho$ Arietis.	5	3. 2.34.6	3. 4.	20.14.12.75. B	+ 14.11
54	$\nu$ Eridani.	3	3. 2.55.3	2. 5.	29.51. 0.25. A	- 14.07
55	$\zeta$ Eridani	3	3. 5.24.2	2. 9.	9.37.45.00. A	- 13.92
56	$\alpha$ Persei.	2	3. 9. 4.3	4. 2.	49. 4.42.00. B	+ 13.72
57	2. $\tau$ Arietis.	5	3. 10.24.5	3. 4.	19.57.38.50. B	+ 13.62
58	f. Tauri.	4	3. 19. 9.6	3. 3.	11.11.16.25. B	+ 13.05
59	17 Eridani.	4.5	3. 19.56.3	2. 9.	5.49.30.00. A	- 13.00
—	$\epsilon$ Eridani.	3	3. 22.51.5	2. 9.	10.11.41.85. A	- 12.81
60	$\delta$ Persei.	3	3. 27.41.7	4. 2.	47. 5. 2.25. B	+ 12.40
61	b Plejadum.	5	3. 32. 8.3	3. 5.	23.25.20.25. B	+ 12.17
62	e Plejadum.	5	3. 32.25.9	3. 5.	23.46.47.50. B	+ 12.14
63	$\delta$ Eridani	3.4	3. 32.58.4	2. 9.	10.30.30.00. A	- 12.08
64	$\theta$ Plejadum.	5	3. 33.35.9	3. 5.	23.15.55.50. B	+ 12.06
65	$\eta$ Tauri.	3	3. 34.43.8	3. 5.	23.25.38.00. B	+ 12.00
—	f. Plejadum Atlas.	5	3. 36.23.8	3. 5.	23.22.59.10. B	+ 11.90
—	$\rho$ Persei.	3	3. 40.38.2	3. 7.	31.13.51.75. B	+ 11.61



Catalogus Fixarum  
Bradlejanus cum supplemento de la Caillii ad principium Anni 1785

Nr. Stel lae Brad le,	Nomen Stellae & Character.	Ascensio recta in tempore.	Variatio annua.		Declinatio. $\downarrow$	Variatio annua.
			H. M. S. D.	S. D.		
—	Persei.	3	3. 43.28.8	4. 0.	39.22.23.30. B	+ 11.42
—	b. Eridani.	4 5	3. 44.33.7	2. 5.	25.16.33.20. A	- 11.28
66	$\gamma$ Eridani.	2	3. 48. 0.2	2. 8.	14. 7.51.75. A	- 11.01
67	1. $\lambda$ Persei.	4	3. 50.34.8	4. 4.	49.45. 2.50. B	+ 10.86
68	A Tauri.	4	3. 51.59.8	3. 5.	21.28.51.50. B	+ 10.74
—	2 Eridani.	4	4. 1.22.8	2. 9.	7.24.32.55. A	- 10.05
69	$\delta$ Tauri.	5	4. 7.10.3	3. 7.	26.49.15.00. B	+ 9.60
70	$\gamma$ Tauri.	3	4. 7.33.3	3. 3.	15. 5.39.00. B	+ 9.60
71	$\chi$ Tauri.	5	4. 9.31.4	3. 6.	25. 6.24.10. B	+ 9.40
72	1. $\delta$ Tauri.	3	4. 10.33.2	3. 4.	17. 1.25.00. B	+ 9.34
73	1. $\delta$ Tauri.	4	4. 11.43.1	3. 4.	15.58.54.25. B	+ 9.25
74	1. $\chi$ Tauri.	5	4. 12.34.3	3. 5.	21.47.13.50. B	+ 9.18
75	2. $\chi$ Tauri.	4	4. 12.57.2	3. 5.	21.41.35.25. B	+ 9.17
76	3. $\delta$ Tauri.	5	4. 13. 3.7	3. 4.	17.25.17.25. B	+ 9.13
77	1. $\nu$ Tauri.	5	4. 13.27.1	3. 5.	22.18.39.50. B	+ 9.10
78	5. Tauri.	2	4. 16. 5.2	3. 5.	18.41.16.56. B	+ 8.93
79	1. $\theta$ Tauri.	5	4. 16.18.6	3. 4.	15.28.12.75. B	+ 8.87
80	2. $\theta$ Tauri.	5	4. 16.24.3	3. 4.	15.22.42.75. B	+ 8.87
81	Aldebaran.	1	4. 23. 5.8	3. 4.	16. 3.47.50. B	+ 8.30
—	Eridani.	3	4. 27.11.9	2. 3.	31. 0.40.10. A	- 8.10
—	53. Eridani.	3	4. 28.20.8	2. 7.	15.44. 3.70. A	- 7.94
82	$\tau$ Tauri.	5	4. 29.20.7	3. 5.	22.31.43.00. B	+ 7.84
—	54. Eridani.	3	4. 31. 4.0	2. 6.	20. 5.44.65. A	- 7.71
83	1. $\pi$ Orionis	4	4. 38.53.7	3. 2.	8.31. 2.50. B	+ 7.06
84	7 Camelopardi.	5	4. 40. 5.3	4. 7.	53.23.11.25. B	+ 7.01
85	1 Tauri.	4	4. 50.19.1	3. 5.	21.16. 2.50. B	+ 6.14
86	m Tauri.	5	4. 54.44.3	3. 5.	18.20.22.75. B	+ 5.75
87	105 Tauri.	5	4. 55. 4. 2	3. 5.	21.24.11.25. B	+ 5.73
88	h Eridani.	3	4. 57.17.3	2. 9.	5.22.38.35. A	- 5.53
89	Capella	1	5. 0.49.8	4. 4.	45.45.44.00. B	+ 5.28
90	Rigel	1	5. 4.56.4	2. 9.	8.27.46.50. A	- 4.94
91	$\nu$ Tauri.	2	5. 12.38.9	3. 7.	28.24.33.00. B	+ 4.20
92	$\gamma$ Orionis.	2	5. 13.36.6	3. 2.	6. 8.22.75. B	+ 4.15
—	1 Orionis	3	5. 13.40.3	3. 0.	2.36.26.05. A	- 4.17
93	2 Tauri.	5	5. 14.44.3	3. 6.	21.44.10.50. B	+ 4.06
94	2. $\nu$ Orionis	2	5. 15.34.5	3. 1.	2.53.40.50. B	+ 3.98

Catalogus fixarum  
Bradlejanus cum supplemento de la Caillii ad principium Anni 1785.

Nr. stellæ Bradlej.	Nomen Stellæ & Character.	Ascensio recta in tempore.				Variatio annua.	Declinatio.			Variatio annua.	
		A.	M.	S.	D.		S.	D.	G. M. S. C.		
95	β Leporis.	3	5.	19.	2.0	2.	5.	20.56.32.50.	A	-	3.66
96	δ Orionis.	2	5.	21.	2.7	3.	1.	0.28.22.50.	A	-	3.50
97	α Leporis.	3	5.	23.	14.9	2.	6.	17.59.20.50.	A	-	3.30
98	ζ Tauri.	3	5.	24.	47.3	3.	5.	20.59.42.00.	B	+	3.20
99	ι Orionis.	3	5.	24.	55.2	2.	9.	6.3.49.47.	A	-	3.21
99	ε Orionis.	2	5.	25.	17.2	3.	0.	1.21.14.75.	A	-	3.10
100	125. Tauri.	5	5.	26.	24.9	3.	7.	25.45.32.50.	B	+	3.06
100	ζ Orionis.	2	5.	29.	55.9	3.	0.	2.4.10.60.	A	-	2.78
100	α Columbæ.	2	5.	31.	22.6	2.	2.	34.11.51.25.	A	-	2.57
101	γ Leporis.	3	5.	35.	29.5	2.	4.	22.31.51.25.	A	-	2.23
102	132. Tauri.	4	5.	35.	50.3	3.	7.	24.28.39.25.	B	+	2.25
102	κ Orionis.	3	5.	37.	34.2	2.	8.	9.45.26.00.	A	-	2.10
103	136. Tauri.	5	5.	39.	48.3	3.	7.	27.32.38.50.	B	+	1.90
104	δ Aurigæ.	4	5.	41.	13.7	4.	9.	54.14.51.25.	B	+	1.77
105	1. χ Orionis.	3	5.	41.	39.1	3.	5.	20.13.16.75.	B	+	1.83
105	δ Leporis.	3	4.	5.	42.5.2	2.	6.	20.54.13.40.	A	-	1.70
106	2 χ Orionis.	5	5.	42.	12.5	3.	5.	19.40.58.90.	B	+	1.68
106	β Columbæ.	3	5.	43.	23.8	2.	1.	50.51.35.20.	A	-	1.56
107	α Orionis.	1	5.	43.	31.6	3.	2.	7.21.4.00.	B	+	1.56
107	β Aurigæ.	3	5.	43.	45.7	4.	4.	44.54.16.20.	B	+	1.64
108	9 Aurigæ.	4	5.	45.	44.7	4.	1.	37.10.43.00.	B	+	1.40
109	H Geminorum.	5	5.	51.	2.6	3.	6.	25.15.30.75.	B	+	0.91
110	κ Aurigæ.	5	6.	1.	40.5	3.	8.	29.33.39.50.	B	-	0.06
111	η Geminorum.	4	6.	1.	53.9	3.	6.	22.33.8.00.	B	-	0.00
112	μ Geminorum.	3	6.	9.	56.6	5.	6.	22.36.28.50.	B	-	0.70
112	β Can. major.	3	6.	12.	4.6	2.	3.	29.58.41.80.	A	+	0.94
112	ζ Can. major.	2	6.	13.	13.7	2.	6.	17.51.50.68.	A	+	1.20
113	ν Geminorum.	4	6.	16.	12.4	3.	6.	20.19.52.50.	B	-	1.30
114	23. Geminorum.	5	6.	23.	35.7	3.	5.				
115	γ Geminorum.	2	6.	25.	17.9	3.	5.	16.33.58.50.	B	-	2.10
116	26. Geminorum.	5	6.	29.	52.8	3.	5.	17.50.25.00.	B	-	2.48
117	ε Geminorum.	3	6.	30.	42.1	3.	7.	25.19.37.50.	B	-	2.50
118	28. Geminorum.	5	6.	31.	7.4	3.	8.	29.10.13.10.	B	-	2.50
119	Syrus.	1	6.	35.	41.8	2.	7.	16.25.22.25.	A	+	3.01
120	ι Canis majoris.	3	6.	50.	11.5	2.	4.	28.40.42.80.	A	+	4.26
120	ρ Geminorum.	4	6.	51.	21.5	3.	6.	20.52.9.75.	B	-	4.33

Catalogus Fixarum  
Bradlejanus cum supplemento de la Caillii ad principium Anni 1785.

Nr. Stell- in Brad- lej.	Nomen Stellæ & Character.	Ascensio recta in tempore.		Variatio annua.		Declinatio.		Variatio annua.					
		H.	M.	S.	D.	S.	D.	G.	M.	S.	C.	S.	C.
---	δ Canis majoris.	3	6.	59.	38.9	2.	4.	26.	3.48	60.	A	+	5.04
121	51 Geminorum.	5	7.	1.	1.8	3.	5.	16.30.	29.00.	B	-	5.16	
122	19 Lyncis.	5	7.	5.15	9	4.	9.	55.39.	54.50.	B	-	5.46	
123	λ Geminorum.	5	7.	5.32.	7	2.	5.	16.54	46.25.	B	-	5.55	
124	δ Geminorum.	3	7.	7.16.	6	3.	6.	22.21.	43.50.	B	-	5.70	
125	q Geminorum.	5	7.	9.15.	8	3.	6.	20.50.	000.	B	-	5.84	
126	i Geminorum.	5	7.	12.22.	5	3.	8.	28.12.	33.50.	B	-	6.10	
127	p Geminorum.	5	7.	14.58.	4	3.	6.	21.52.	9.90.	B	-	6.32	
---	β Canis minoris.	3	7.	15.29.	8	3.	3.	8.42.	41.25.	B	-	6.33	
128	η Canis majoris.	2	7.	15.36	3	2.	4.	28.53	37.50.	A	+	6.42	
129	Castor.	1	7.	20.52.	2	3.	9.	32.20.	34.00.	B	-	6.80	
130	v Geminorum.	4	7.	22.43.	0	3.	7.	27.21.	30.25.	B	-	6.95	
131	f. Geminorum.	5	7.	27.	3.5	3.	5.	18.	8.56.	50.	B	-	7.30
132	Procyon.	1	7.	28.	3.7	3.	2.	5.	46.18.	50.	B	-	7.42
133	x Geminorum.	5	7.	31.26	4	3.	6.	24.53.	54.25.	B	-	7.67	
134	Pollux.	1	7.	32.	9.2	3.	7.	28.31	50.00.	B	-	7.72	
135	g Geminorum.	5	7.	33.40.	3	3.	5.	19.	1.11.	75.	B	-	7.85
136	26 Lyncis.	5	7.	38.59	9	4.	4.	48.	6.15.	75.	B	-	8.25
---	ζ Argonavis.	3.4	7.	40.15.	2	2.	5.	24.19.	53.80.	A	+	8.38	
137	Φ Geminorum.	5	7.	40.18.	9	3.	7.	27.18.	24.82.	B	-	8.38	
138	3 Cancri.	5	7.	49.15.	7	3.	5.	18.49.	9.75.	B	-	9.09	
139	μ Cancri.	5	7.	53.43	5	3.	6.	13.14.	7.44.	B	-	9.42	
140	2 ↓ Cancri.	4	7.	57.28.	2	3.	6.	26.	8.57.	75.	B	-	9.73
---	ε Argonavis.	3.4	7.	57.42.	1	1.	4.	23.41	46.35.	A	+	9.79	
141	β Cancri.	3	8.	4.51.	1	3.	3.	9.50.	7.75.	B	-	10.29	
142	θ Cancri.	5	8.	19.18.	9	3.	4.	17.48.	27.35.	B	-	11.53	
143	η Cancri.	5	8.	20.15.	1	3.	5.	21.	9.35.	75.	B	-	11.37
144	γ Cancri.	4	8.	30.49	6	3.	5.	22.13.	46.75.	B	-	12.17	
145	δ Cancri.	4	8.	32.26	5	3.	4.	18.56.	2.80.	B	-	12.36	
---	ζ Hydræ.	4	3.	44.	10	3.	2.	6.45.	37.95.	B	-	13.03	
146	1 α Cancri.	4	8.	44.10.	6	3.	3.	12.26.	7.00.	B	-	13.20	
747	1. Urfæ majoris.	4	8.	44.25.	5	4.	2.	48.52.	33.25.	B	-	13.07	
148	2. α Cancri.	4	8.	46.43	0	3.	3.	12.40.	44.50.	B	-	13.30	
---	x Urfæ majoris.	4	8.	48.52.	5	4.	2.	2.59.	40.85.	B	-	13.31	
149	x Cancri.	5	3.	56.	5.7	3.	3.	3.31.	21.75.	B	-	13.85	
150	ξ Cancri.	6	8.	56.58.	6	3.	5.	22.54.	15.50.	B	-	13.90	

## Catalogus Fixarum

Bradlejanus eum supplemento de la Caillii ad principium Anni 1785.

Nr. Stellæ Bradlej.	Nomen Stellæ & Character.	Ascensio recta in Tempore.		Variatio annua.	Declinatio.	Variatio annua.
		H. M. S. D	S. D.			
151	ω Leonis.	5	9. 16.55.6	3. 2.	9.59. 0.25. B	- 15.11
152	α Cor. Hydræ.	2	9. 17. 2. .	3. 0.	7.44. 5.65. A	+ 15.13
153	β Ursæ majoris.	3.4	9. 18.25.9	4. 2.	52.39. 5.50. B	- 15.13
154	ε Leonis.	4	9. 20.21.5	3. 3.	12.14.32.75. B	- 15.31
155	10 Leonis.	5	9. 20.43.8	3. 2.	7.47.33.75. B	- 15.33
156	ο Leonis.	4	9. 29.39.6	3. 2.	10.51.42.85. B	- 15.83
157	ι Leonis.	3	9. 33.36.4	3. 4.	24.45.19.25. B	- 16.03
	μ Leonis.	3	9. 40.31.1	3. 5.	27. 0.41.65. B	- 16.35
158	ν Leonis.	5	9. 46.39.5	3. 3.	13.27.45.75. B	- 16.69
159	π Leonis.	4	9. 48.50.7	3. 2.	9. 4. 8.25. B	- 16.79
160	η Leonis.	4	9. 55.35.7	3. 3.	17.48.14.25. B	- 17.11
161	A Leonis.	5	9. 56.29.2	3. 2.	11. 2.40.25. B	- 17.15
162	Regulus	1	9. 56.55.7	3. 3.	13. 0.40.75. B	- 17.17
163	ζ Leonis.	3	10. 4.42.6	3. 4.	24.28.53.25. B	- 17.51
164	γ Leonis.	2	10. 8. 5.0	3. 3.	20.55.25.50. B	- 17.66
165	μ Ursæ majoris.	3	10. 9.27.1	3. 6.	42.34.27.50. B	- 17.70
166	ε Leonis.	4	10.21.29.5	3. 2.	10.24.28.75. B	- 18.17
167	48 Leonis.	5	10.23.26.1	3. 1.	8. 3.18.50. B	- 18.26
168	37 Sextantis.	6	10.34.50.7	3. 1.	7.29. 5.00. B	- 18.60
169	38 Sextantis.	6	10.35. 7.4	3. 1.	7.28.32.00. B	- 18.60
170	56 Leonis.	6	10.44.31.1	3. 1.	7.19.44.00. B	- 18.80
171	55 Leonis.	5	10.44.38.7	3. 1.	1.52.45.50. B	- 18.94
172	β Ursæ majoris.	2	10.48.44.6	3. 7.	57.31.49.75. B	- 19.05
	α Crateris	3	10.48.50.9	2. 2.	17. 9.33.40. A	+ 19.06
173	δ Leonis.	5	10.49.27.5	3. 1.	4.46. 7.40. B	- 19.10
174	c Leonis.	5	10.49.27.8	3. 1.	7.15.11.00. B	- 19.00
175	x Ursæ majoris.	1.2	10.50.19.6	3. 9.	62.54.29.75. B	- 19.07
176	χ Leonis.	5	10.53.56.7	3. 2.	8.29.43.25. B	- 19.15
177	δ Leonis.	3	11. 2.38.6	3. 2.	21.42. 2.00. B	- 19.4
178	θ Leonis	3	11. 2.57.3	3. 2.	16.56. 9.00. B	- 19.4
179	75 Leonis.	3	11. 6.13.5	3. 1.	3.11.30.80. B	- 19.4
180	6 Leonis.	5	11. 7.53.2	3. 1.	2.49.37.25. B	- 19.53
181	9 Leonis.	5	11.10. 2.7	3. 1.	7.12.19.60. P	- 19.50
182	79 Leonis.	5.6	11.13. 0.8	3. 1.	2.35.10.00. B	- 19.60
183	r Leonis.	4	11.16.40.8	2. 1.	4. 2.20.00. B	- 19.61
184	e Leonis.	5	11.19.20.8	3. 1.	1.49. 8.00. A	+ 19.7



Catalogus Fixarum  
Bradlejanus cum supplemento de la Caillii ad principium A. 1785.

Nr tel- le bra leij.	Nomen Stellæ & Character.	Ascensio recta in tempore.			Variatio annua.	Declinatio.	Variatio annua.
		H.	M.	S. D.	S. D.	G. M. S. C.	S. t.
185	υ Leonis.	4	11.25.57.1	3. 1.	0.21.43.00. I.	- 19.80	
186	1ξ Virginis.	5	11.33.54.3	2. 4.	4.27. 8.25. B.	- 19.91	
187	ν Virginis.	5	11.34.30.7	2. 4.	7.44. 7.00. B.	- 19.97	
188	β Leonis.	1.	11.38. 5.3	3. 1.	15.46.28.25 B.	- 19.95	
189	β Virginis.	3	11.39.28.9	3. 1.	2.58.43.00 B.	- 20.00	
190	γ Ursæ majoris.	2	11.42.26.0	3. 2.	54.53.24.25. B.	- 19.95	
191	π Virginis.	5	11.49.51.3	3. 1.	7.48.48.25. B.	- 20.00	
—	α Corvi.	4	11.57.22.2	3. 1.	23.31.44.35. A.	+ 20.05	
—	ε Corvi.	4	11.59. 7.0	3. 1.	21.25.23.35. A.	+ 20.05	
192	δ Ursæ Majoris.	4	12. 4.41.3	3. 0.	58.13.44.75. B.	- 20.05	
193	γ Corvi.	3	12. 4.47.3	3. 1.	16.20.48.00. A.	+ 20.04	
194	η Virginis.	5	12. 7.40.1	3. 1.	0.31.46.75. B.	- 20.05	
195	η Virginis.	3	12. 8.55.5	3. 1.	0.31.47.00. B.	- 20.00	
196	c Virginis.	3	12. 9.27.3	3. 1.	4.30.41.00. B.	- 20.04	
—	δ Corvi.	4	12.10.47.6	3. 1.	15.18.55.25. A.	+ 19.99	
—	β Corvi.	3	12.23. 7.4	3. 1.	22.12.16.90. A.	+ 19.96	
197	x Draconis.	3	12.24.13.4	2. 7.	70.58.33.00. B.	- 19.96	
198	χ Virginis.	5	12.28.10.7	3. 1.	6.48.31.00. A.	+ 19.9.	
199	γ Virginis.	3	12.30.48.4	3. 1.	0.16. 1.50. A.	+ 19.90	
200	ψ Virginis.	5	12.43.11.7	3. 1.	8.22. 0.10. A.	+ 19.72	
—	Ursæ majoris.	2	12.44.23.5	2. 7.	57. 7.51.05. B.	- 19.71	
201	δ Virginis.	3	12.44.47.1	3. 0.	4.34.14.50. B.	- 19.70	
202	ε Virginis.	3	12.51.29.4	3. 0.	12. 7. 7.75. B.	- 19.57	
203	κ Virginis.	5	12.56.39.2	3. 1.	9.35. 8.00. A.	+ 19.48	
204	δ Virginis.	4	12.58.50.6	3. 1.	4.23. 9.75. A.	+ 19.45	
—	γ Hydræ.	3	13. 7.15.9	3. 2.	22. 1.55.10. A.	+ 19.24	
—	ι Centauri.	3	13. 8.34.5	3. 3.	35.34.17.55. A.	+ 19.21	
205	Spica Virginis.	1	13.13.52.9	3. 1.	10. 2. 0.25. A.	+ 19.97	
206	ξ Ursæ majoris.	3	13.15.13.2	2. 4.	56. 3.10.75. B.	- 19.01	
207	ι Virginis.	4	13.15.23.9	3. 2.	11.34.57.25. A.	+ 19.01	
208	2b Virginis.	5	13.16.48.5	3. 1.	5. 8.20.50. A.	+ 18.80	
—	ζ Virginis.	3	13.23.46.1	3. 1.	0.30.27.50. B.	- 19.48	
209	m Virginis.	5	13.30.22.6	3. 2.	7.36.43.00. A.	+ 18.56	
210	η Ursæ majoris.	2	13.39. 4.1	2. 4.	50.23.32.00. B.	- 18.24	
—	η Bootis.	3	13.44.27.0	2. 9.	19.29.14.16. B.	- 18.07	
—	θ Centauri.	3	13.54. 8.2	3. 5.	37.17.52.70. A.	+ 17.70	

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Bradlejanus cum supplemento de la Caillii ad principium A. 1785.

Nr. 5 el le Brad lej	Nomen Stellæ & Character.	Ascensio recta in tempore.			Variatio annua.	Declinatio.	Variatio annua.	
		H.	M.	S. D.			S.	C.
211	α Draconis.	2	13.58.44.2	2. 0.	65.24.26.50. B	-	17.46	
212	x Virginis.	4	14. 1 24 7	3. 1.	9.15.54.25. A	+	17.37	
213	Arcturus.	1	14. 5.53.7	2. 8.	20.19.23.00. B	-	17.16	
214	λ Virginis.	4	14. 7.30 0	3. 2.	12.22.19.53. A	+	17 10	
215	β Bootis.	4	14.17.54.4	2. 1.	52.51.16.50. B	-	16.58	
	γ Bootis.	3	14.23.24.3	2. 4.	39.15.19.50. B	-	16.32	
	ζ Bootis.	3	14.30.53.5	2. 9.	14.39.39.05. E	-	15.95	
	ε Bootis.	3	14.35.36.0	2. 6.	27.59.22.55. B	-	15.69	
216	μ Libræ.	5	14.37.34.5	3. 3.	13.14.32.50. A	+	15.58	
217	α Libræ.	2	14.39. 1 4	3. 3.	15. 8.12.50. A	+	15.50	
218	2 ζ Libræ.	5	14.45. 7.4	3. 2.	10.31.49.75. A	+	15.15	
219	18 Libræ.	5	14.47.17.4	3. 2.	10.16. 3.75. A	+	15.05	
220	β Ursæ minoris.	3	14.51.33.1	-0. 3.	75. 2.10.00. B	-	14.68	
	β Bootis.	3	14.53.51.6	2. 3.	41.14.46.55. B	-	14.63	
221	1 ν Libræ.	5	14.54.40.1	3. 3.	15.24.39.75. A	+	14.59	
222	1 ι Libræ.	5	15. 0. 0.4	3. 4.	18.57.55.75. A	+	14.27	
223	β Libræ.	2	15. 5.28.0	3. 2.	8.34.40.25. A	+	13.93	
	δ Bootis.	3	15. 6.49.9	2. 4.	34. 7.39.30. B	-	13.84	
	ι Draconis.	3	15.20. 9.5	1. 3.	59.43.28.15. B	-	12.93	
224	4 ζ Libræ.	4	15.20.50.9	3. 3.	16. 6.34.25. A	+	12.85	
	γ Ursæ minoris.	3	15.21.18.8	-0.03.	72.35.59.90. B	-	12.80	
225	γ Libræ.	3. 4	15.23.31.1	3. 3.	14. 3.32.50. A	+	12.70	
	δ Serpentis.	3	15.24.33.4	2. 9.	11.25.51.89. B	-	12.69	
226	α Coronæ borealis.	2	15.25.35.2	2. 5.	27.26.56.50. B	-	12.60	
227	42 Libræ.	5	15.27.36.5	3. 5.	23. 6.15.00. A	+	12.48	
228	x Libræ.	4	15.29.35.7	3. 4.	18.57.59.50. A	+	12.34	
229	α Serpentis.	2	15.33.40.9	2. 9.	7. 6.48.25. B	-	12.03	
	β Serpentis.	3	15.36.17.0	2. 8.	16. 6.24.20. B	-	11.88	
	μ Serpentis.	4	15.38.25.0	3. 1.	2.45.30.00. A	+	11.74	
	ε Serpentis.	4	15.40. 6.4	3. 0.	5. 8.13.90. B	-	11.62	
230	A Scorpii.	5	15.40.45.1	3. 6.	24.40.11.40. A	+	11.56	
231	λ Libræ.	4	15.40.53.8	3. 5.	19.30.37.50. A	+	11.54	
232	β Libræ	4	15.41.36.9	3. 4.	16. 5 5.50. A	+	11.50	
233	ε Serpentis.	4	15.41.49.6	2. 6.	21.38. 4.75. A	-	11.45	
	ι Scorpii.	4	15.43.39.7	3. 7.	18.34.10.35. A	+	11.35	
234	κ Scorpii.	5	15.45.53.1	3. 6.	25.28.20.75. A	+	11.19	

Catalogus Fixarum  
Bradlejanus cum supplemento de la Caillii ad principium A. 1735.

Nr. Stel- lar Brad- lej.	Nomen Stellæ & Character.	Ascensio recta in tempore.		Variatio annua.	Declinatio.	Variatio annua.
		H. M. S. D'	S. D.			
235	↓ Libræ.	4	15.46.10.5	3. 3.	13.38.40.75. A	+ 11.15
	γ Serpentis.	3	15.46.31.1	2. 7.	16.23.13.60. B	- 11.14
236	δ Scorpil.	3	15.47.38.9	3. 5.	21.59.37.00. A	+ 11.00
237	β Scorpil.	2	15.52.52.5	3. 5.	19.12. 7.50. A	+ 10.70
238	1 ω Scorpil.	5	15.54.16.0	3. 5.	20. 4.17.00. A	+ 10.56
239	2 ω Scorpil.	5	15.54.49.9	3. 5.	20.16.21.00. A	+ 10.52
240	ν Herculis.	5	15.56. 6.7	1. 9.	46.38.12.00. B	- 10.38
	3 Draconis.	4	15.57.53.6	1. 1.	59. 8.21.60. B	- 10.24
241	ν Scorpil.	4	15.59.32.4	3. 5.	18.53.12.00. A	+ 10.16
242	δ Ophiuchi.	3	16. 3. 5.5	3. 1.	3. 7.33.25. A	+ 9.89
	ε Ophiuchi.	3	16. 6.58.5	3. 2.	4. 9.14.85. A	+ 9.63
243	19 Scorpil.	5	16. 7.34.2	3. 2.	23.38. 0.75. A	+ 9.55
244	σ Scorpil.	4	16. 8. 9.0	3. 6.	25. 3.39.25. A	+ 9.53
245	ψ Ophiuchi.	5	16.11.33.2	3. 5.	19.31. 7.25. A	+ 9.25
	χ Herculis.	3	16.12.25.7	2. 6.	19.40.10.43. B	- 9.25
246	g Ophiuchi.	5	16.12.44.1	3. 6.	22.56. 7.00. A	+ 9.16
247	α Antares.	1	16.16.14.6	3. 6.	25.56.16.25. A	+ 8.89
248	φ Ophiuchi.	4	16.18.50.9	3. 4.	16. 7.39.25. A	+ 8.69
249	ω Ophiuchi.	5	16.19.24.7	3. 5.	20.59.37.00. A	+ 8.64
	β Herculis.	3	16.21. 0.5	2. 6.	21.58.11.90. B	- 8.52
	η Draconis.	3	16.21. 6.6	0. 8.	62. 0.11.80. B	- 8.42
250	τ Scorpil.	4	16.22.31.8	3. 7.	27.45.12.25. A	+ 8.41
	ζ Ophiuchl.	3	16.25.22.5	3. 3.	10. 6. 1.10. A	+ 8.20
251	24 Scorpil.	5	16.29.10.2	3. 5.		
	ξ Herculis	3	16.33.12.7	2. 3.	31.59.57.00. B	- 7.52
	η Herculis.	3	16.35.42.7	3. 0.	39.20.32.90. B	- 7.32
	ι Scorpil.	3	16.36.18.0	3. 9.	33.52.36.45. A	+ 7.35
	θ Herculis.	3	16.52. 3.8	2. 3.	31.15.16.45. B	- 5.97
	η Ophiuchi.	2	16.58. 3.3	3. 4.	15.26.42.05. A	+ 5.57
252	λ Ophiuchi duplex.	5	17. 2.10.2	3. 7.	26.15.30.50. A	+ 5.14
253	μ Draconis.	4	17. 3.56.8	1. 2.	54.45.30.25. B	- 4.91
254	α Herculis.	3	17. 4.50.8	2. 7.	14.38.53.25. B	- 4.87
	δ Herculis.	3	17. 7.13.0	2. 5.	25. 6.23.70. B	- 4.70
255	γ Ophiuchi.	4	17. 8. 8.0	3. 6.	20.51.45.75. A	+ 4.63
256	9 Ophiuchi.	3	17. 8.50.2	3. 7.	24.45.56.25. A	+ 4.57
257	43 Ophiuchi.	5	17. 9.51.7	3. 8.	27.54.54.25. A	+ 4.49



Catalogus Fixarum  
Bradlejannus cum supplemento de la Caillii ad principium A. 1785.

Nr. stel læ Rra lej.	Nomen Stellæ & Charact.	Ascensio recta in tempore.		Variatio annua.	Declinatio.			Variatio annua.
		h. M. S. D	S. D.		G. M. S. C	S. C.		
258	β Ophiuchi.	4	17.13.14.6	3. 6.	23.57.28.75. A	+	4.19	
259	e Ophiuchi.	5	17.18.18.2	3. 6.	23.46.42.00. A	+	3.76	
260	α Ophiuchi.	2	17.24.56.3	2. 7.	12.43.52.25. F	-	3.15	
261	β Draconis.	3	17.25.34.9	1. 3.	53.28. 2.75. F	-	3.05	
262	μ Ophiuchi.	4	17.26.11.0	3. 3.	7.58.22.75. A	+	3.07	
263	D Ophiuchi.	5	17.37.35.9	3. 6.	21.33.37.75. A	+	2.71	
---	β Ophiuchi.	3	17.32.52.0	3. 0.	4.40.14.10. B	-	2.52	
264	p Sagittarii.	3	17.34. 3.0	3. 8.	27.43.45.85. A	+	2.41	
---	γ Oph. austr.	3	17.37. 7.7	3. 0.	2.48.15.45. B	-	2.15	
---	μ Herculis.	3	17.37.56.8	2. 2.	27.51.56.00. B	-	2.04	
265	b. Sagit. dupl.	4	17.46.41.2	3. 7.	23.46.38.50. A	+	1.30	
---	3 Herculis.	5	17.48.53.5	2. 1.	37.17.19.60. B	-	1.08	
---	ζ Serpentis.	3	17.49. 8.7	3. 2.	3.39.32.59. A	+	1.13	
---	γ Sagittarii.	4	17.51.17.3	3. 8.	29.34.16.30. A	+	0.96	
266	γ Draconis.	4	17.51.38.4	1. 4.	51.31.17.50. B	-	0.78	
267	γ Sagittarii.	5. 4	17.52. 1.2	3. 9.	30.24.18.00. A	+	0.84	
268	1μ Sagittarii.	2	18. 0.54.8	3. 6.	21. 5.46.75. A	-	0.05	
269	2μ Sagittarii.	4	18. 2.24.2	3. 6.	20.46.27.75. A	-	0.05	
270	δ Sagittarii.	4	18. 7.13.3	3. 8.	29.53.59.75. A	-	0.49	
271	ε Sagittarii.	2	18. 9.54.8	4. 0.	34.27.54.50. A	-	0.72	
---	η Serpentis.	3	18.10.12.7	3. 1.	2.56. 2.95. A	-	0.73	
272	λ Sagittarii.	4	18.14.42.7	3. 7.	25.31.12.25. A	-	1.15	
273	α Lyræ.	1	18.29.38.9	2. 0.	38.35.27.00. B	+	2.52	
274	φ Sagittarii.	3	18.32.13.8	3. 8.	27.11.33.00. A	-	2.68	
275	28 Sagittarii.	5	18.33.22.2	3. 6.	22.35.54.50. A	-	2.78	
276	C Draconis.	5	18.38.28.6	1. 2.	55.19.34.75. B	+	3.31	
277	1ν Sagittarii.	4	18.41.11.0	3. 6.	22.59.29.75. A	-	3.45	
278	σ Sagittarii.	3	18.41.52.5	3. 7.	26.32.59.50. A	-	3.54	
279	2ν Sagittarii.	4	18.42. 6.0	3. 6.	22.55.19.00. A	-	3.54	
280	β Lyræ.	3	18.42. 8.9	2. 2.	33. 7.41.75. F	+	3.59	
281	1ξ Sagittarii.	5	18.44.44.3	3. 6.	20.55.11.25. A	-	3.75	
282	2ξ Sagittarii.	5	18.45. 0.8	3. 6.	21.22.18.25. A	-	3.75	
283	3 Serpen. Duplex	3	18.45.32.7 18.45.33.9	3. 0.	3.56. 7.25. B 3.56.13.25. B	+	3.85	
---	δ Lyræ.	3	18.46.59.7	2. 1.	36.38.10.80. B	+	3.98	
284	ο Draconis.	4	18.48. 1.2	0. 9.	59. 7.48.50. B	+	4.14	
285	ζ Sagittarii.	4	18.48.55.3	3. 8.	30. 10. 7.25. A	-	4.11	



Catalogus Fixarum  
Bradlejanus cum supplemento de la Caillii ad principium A. 1785.

Nr. Stel- lar. Præ- leij.	Nomen Stellæ & Charact.	Ascensio recta in tempore.	Variatio annua.		Declinatio.	Variatio annua.	
			H. M. S. D.	S. D.		G. M. S. C.	S. C.
	ε Aquilæ.	4 18.49.52.1	2. 7.		14.47.24.65. B	+	4.19
	γ Lyræ.	3 18.50.53.4	2. 2.		32.24.24.15. F	+	4.31
286	ο Sagittarii.	3 18.51.47.8	3. 6.		22. 2 20.00 A	-	4.36
287	τ Sagittarii.	3 18.53.31.3	3. 8.		27.57.50.50. A	-	4.50
	λ Antinoi.	4 18.54.50.7	3. 2.		5.11.23.60. A	-	4.60
288	ζ Aquilæ	3 18.55.32.9	2. 8.		13.33.29.25. B	+	4.85
289	π Sagittarii.	4 18.56.58.7	3. 6.		21.20.53.00. A	-	4.80
290	ψ Sagittarii.	4 19. 2.23.8	3. 8.		25.36.31.10. A	-	5.26
291	φ Sagittarii.	4 19. 5. 2.4	3. 5.		19.19.14.00. A	-	5.30
292	χ Cygni.	4 19.12. 8.0	1. 4.		52.58.35.00. B	-	6.16
293	ΙΧ Sagittarii.	5 19.12.11.7	3. 7.		24.54.34.75. A	+	6.09
294	δ Draconis.	3 19.12.26.9	0.05.		67.17. 2.84. B	+	6.23
295	δ Aquilæ.	3 19.14.38.9	3. 0.		2.41.53.75. B	+	6.31
	β Cygni.	3 19.22. 2.7	2. 8.		27.31. 8.65. B	+	6.91
296	2 h Sagittarii.	5 19.23.47.2	3. 7.		25.20.33.13. A	-	7.03
297	i Cygni.	4 19.24.17.0	1. 5.		51.16.38.00. B	+	7.16
	ι Antinoi.	4 19.25.35.7	3. 1.		1.43.57.85. A	-	7.17
	α Sagittæ.	4 19.30.30.2	3. 7.		17.31.55.45. B	+	7.59
298	θ Cygni.	4 19.31. 0.2	2. 4.		49.43.39.00. B	+	7.68
299	f Sagittarii.	5 19.33.48.2	3. 5.		20.15.45.50. A	-	7.86
300	γ Aquilæ.	3 19.36. 4.1	2. 9.		10. 6. 5.75. B	+	8.07
301	δ Cygni.	3 19.38.16.0	1. 9.		44.36.47.75. B	+	8.27
302	α Aquilæ.	1 19.40.16.6	2. 9.		8.18.35.00. B	+	8.40
	η Antinoi.	4 19.41.31.8	3. 1.		0.28. 4.30. B	+	8.46
303	ω Sagittarii.	5 19.42.38.5	3. 7.		26.51.15.00. A	-	8.56
304	b Sagittarii.	4 19.43.44.1	3. 7.		27.43.23.00. A	-	8.64
305	β Aquilæ.	3 19.44.44.9	2. 9.		5.53.11.00. B	+	8.76
306	α Sagittarii.	5 19.45.50.6	3. 7.		26.45.40.75. A	-	8.81
307	ε Draconis.	5 19.49.19.0	0. 1.		69.43.22.25. B	+	9.17
308	θ Aquilæ.	3 20. 0.12.7	3. 1.		1.26.48.25. A	-	9.95
309	ε Draconis.	5 20. 1.47.3	0. 3.		67.15.43.75. B	+	10.15
310	ι Capricorni.	4 20. 5.42.8	3. 3.		13. 9.34.00. A	-	10.40
311	2 x Capricorni.	3 20. 6. 6.4	3. 3.		13.11.53.00. A	-	10.40
312	σ Capricorni.	5 20. 7. 0.31	3. 5.		19.46.33.25. A	-	10.42
313	β Capricorni.	5 20. 8.53.3	3. 3.		15.26.50.00. A	-	10.60
	γ Cygni.	3 20.14.29.6	2. 1.		39.34.39.25. B	+	10.01

Catalogus Fixarum.  
Bradlejanus cum supplemento de la Caillii ad principium A. 1785.

Nr. Stel- lar Brad- lej.	Nomen Stellæ & Charactèr.	Ascensio recta in tempore.			Variatio annua.	Declinatio	Variatio annua.
		H.	M.	S. D.			
314	e Capricorni.	5	20.16.34.5	3. 4.	18.30.38.85. A	- 11.15	
—	ε Delphini.	4	20.22.56.6	2. 9.	10.34. 6.35. B	+ 11.59	
—	ζ Delphini.	4	20.25 15.2	2. 8.	13.56 46.30. B	+ 11.76	
—	β Delphini.	3	20 27 28.3	2. 8.	13.51.31.40. B	+ 11.92	
315	v Capricorni.	5	20.27.46.8	3. 4.	18.52.58.00. A	- 11.96	
316	α Delphini.	3	20.29.39.7	2. 8.	15. 9.49. 50. B	+ 12.10	
—	δ Delphini.	4	20.33.25.0	2. 8.	14.18.49.15. B	+ 12.33	
317	α Cygni.	1	20.34. 5.9	2. 0.	44.31. 9.00. B	+ 12.44	
318	ε Aquarii.	4	20.36. 2.2	3. 3.	10.16.15.25. A	- 12.53	
—	γ Delphini.	4	20.36.41.8	2. 8.	15.21.43.00. B	+ 12.56	
319	ε Cygni.	3	20.37.30.6	2. 4.	33.10.10.50. B	+ 12.66	
320	μ Aquarii.	4	20.41. 2.0	3. 2.	9.46.41.75. A	- 12.87	
321	19 Capricorni.	4	20.42.37.9	3. 4.	18.43.33.50. A	- 12.98	
322	η Capricorni.	5	20.52. 8.4	3. 4.	20.41.34.25. A	- 13.59	
323	θ Capricorni.	4	20.53.50.7	3. 4.	18. 4.30.25. A	- 13.71	
324	1 χ Capricorni.	5	20.57.13.9	3. 5.	22. 2.51.43. A	- 13.85	
325	v Aquarii.	5	20.57.50.2	3. 2.	12.13.54.50. A	- 13.94	
326	φ Capricorni.	5	21. 3.21.4	3. 4.	21.32. 1.50. A	- 14.30	
—	ζ Cygni.	4	21. 3.46.1	2. 5.	29.21.14.70. B	+ 14.32	
327	29 Capricorni.	5	21. 3.49.3	3. 3.	16. 3.14.75. A	- 14.33	
328	α Equulei.	4	21. 5. 4.6	3 0.	4.22. 7.50. B	+ 14.42	
329	ι Capricorni.	5	21.10.16.0	3. 4.	17.44.23 00. A	- 14.72	
—	e Pegasi.	4	21.12. 0.9	2. 6.	18.53.33.55. B	+ 14.81	
330	α Cephei.	3	21.13.25.2	1. 4.	61.40.46.75. B	+ 14.95	
331	ζ Capricorni.	4	21.14.21.9	3. 5.	23.19.55.00. A	- 14.96	
332	b Capricorni.	5	21.16.24.5	3. 3.	22.43.59 00. A	- 15.08	
333	β Aquarii.	3	21.20.14.2	3. 2.	6.30.28.50. A	- 15.30	
334	ε Capricorni.	4	21.25. 1.6	3. 4.	20.25.10.00. A	- 15.60	
335	β Cephei.	3	21.25.49.3	0. 8.	69.37. 9.50. B	+ 15.66	
336	e Cygni.	4	21.25.58.8	2. 2.	44.38.54.00. B	+ 15.64	
337	ε Aquarii.	6	21.26.17.7	3. 2.	8.48.32.00. A	- 15.64	
338	γ Capricorni.	4	21.28. 8.9	3. 3.	17.37.26.50. A	- 15.70	
339	α Capricorni.	5	21.30.38.2	3. 4.	19.49.12.25. A	- 15.87	
—	ε Pegasi.	3	21.33.35.6	2. 9.	8.53.51.65. B	+ 16.01	
—	ε Cygni.	4	21.34.31.9	2. 7.	24.46.50.55. B	+ 16.07	
340	λ Capricorni.	5	21.34.56.3	3. 2.	12.20.56.50. A	- 16.10	

Catalogus Fixarum  
Bradlejanus cum supplemento de la Caillii ad principium Anni 1785.

Nr. Stel. la Brad lej.	Nomen Stellæ & Character.		Ascensio recta in tempore.		Variatio annua.	Declinatio.	Variatio annua.
			H. M. S. D.	S. D.			
341	♄ Capricorni.	3	21.35.10.0	3. 4.	17. 5.30.50. A	- 16.10	
342	♃ Cygni.	5	21.38.51.8	2. 2.	48.19.15.00. B	+ 16.32	
343	♄ Capricorni.	5	21.41.33.4	3. 3.	14.33.17.00. A	- 16.44	
344	♃ Aquarii.	3	21.52.11.1	3. 1.	3.11. 9.00. A	- 16.96	
345	♃ Aquarii.	3	21.54.44.6	3. 1.	1.21.25.50. A	- 17.10	
346	♃ Aquarii.	5	21.54.49.3	3. 3.	14.54.16.25. A	- 17.07	
347	♃ Aquarii.	5	21.57.10.0	3. 3.	19.33.50.50. A	- 17.18	
348	♃ Aquarii.	4	22. 5.29.1	3. 2.	8.50.46.45. A	- 17.54	
349	♃ Aquarii.	3	22. 8.53.1	3. 2.	8.53.47.75. A	- 17.60	
350	♃ Aquarii.	3	22.10.32.9	3. 1.	2.27.54.00. A	- 17.76	
351	♃ Aquarii.	4	22.14.18.3	3. 1.	0.17.32.75. B	+ 17.91	
352	♃ Aquarii.	4	22.17.45.5	3. 1.	1. 6.53.00. A	- 18.04	
353	♃ Aquarii.	5	22.19.15.7	3. 2.	11.46.19.75. A	- 18.09	
354	♄ Lacertæ.	4	22.22.27.3	2. 4.	49.10.53.75. B	+ 18.23	
355	♃ Aquarii.	5	22.22.54.4	3. 3.	21. 8. 6.25. A	- 18.23	
356	♃ Aquarii.	4	22.24.11.0	2. 8.	1.13. 3.50. A	- 18.58	
357	♃ Aquarii.	5	22.26.37.0	3. 1.	5.19.50.75. A	- 18.37	
	♄ Pegasi.	3	22.30.43.3	3. 0.	9.42.55.65. B	+ 18.45	
	♄ Pegasi.	3	22.32.28.2	2. 8.	29. 6. 7.35. B	+ 18.57	
358	♃ Aquarii.	5	22.36.17.1	3. 2.	15.11. 5.00. A	- 18.68	
359	♃ Aquarii.	4	22.38.11.9	3. 2.	14.43.20.25. A	- 18.75	
360	♃ Aquarii.	4	22.41.23.2	3. 1.	8.43. 9.00. A	- 18.84	
361	♄ Cephei.	4	22.42. 4.0	2. 1.	65. 4.23.00. B	+ 18.88	
362	♄ Aquarii.	3	22.43.13.7	3. 2.	16.57.34.50. A	- 18.90	
363	Fomalhaut.	1	22.45.43.1	3. 3.	30.45.19.75. A	- 18.97	
	♃ Andromedæ.	4	22.52. 2.4	2. 7.	41.10.25.50. B	+ 19.14	
364	♄ Piltcium.	4	22.52.57.2	3. 1.	2.39.57.25. B	+ 19.17	
365	♄ Pegasi.	2	22.53.23.0	2. 9.	26.55. 7.50. B	+ 19.18	
366	♄ Aquarii.	6	22.53.56.0	3. 1.	8.50.42.00. A	- 19.20	
367	♄ Pegasi. Markab.	2	22.54. 4.3	3. 0.	14. 3. 6.00. B	+ 19.20	
368	♄ Aquarii.	7	22.54. 6.4	3. 1.	8.54.10.00. A	- 19.20	
369	♄ Aquarii.	7	22.54.39.9	3. 1.	9. 5.36.00. A	- 19.20	
370	♄ Aquarii.	4	23. 3.10.0	3. 1.	7.12.12.75. A	- 19.42	
371	♄ Aquarii.	5	23. 4.36.	3. 1.	10.15.21.00. A	- 19.44	
372	♄ Aquarii.	6	23. 5.42.0	3. 1.	8.5.44.25. A	- 19.47	
373	♄ Aquarii.	5	23. 6.43.0	3. 1.	10.21.10.48. A	- 19.49	

Catalogus fixarum  
Bradlejanus cum supplemento de la Caillii ad principium A. 1784.

Nr. seculi Bradlejan.	Nomen Stellæ & Character.	Ascensio recta in tempore.			Variatio annua.	Declinatio.			Variatio annua.
		H. M. S.	S. D.	G. M. S. C.		S. C.			
374	♈ Aquarii	5	23. 7.42.6	3. 1	10.47.18	76. A	—	19.51	
375	♋ Aquarii	5	23. 8.11.4	3. 1.	6.18	747. A	—	19.57	
376	♌ Cassiopeæ	5	23.15.19.1	2. 6.	61.	5.59.84. B	+	19.66	
377	♍ Piscium	5	23.15.52.4	3. 1.	0.	4.33.84. B	+	19.66	
378	♎ Andromedæ	4	23.27. 2.4	2 9.	45.17.33	16. B	+	19.84	
---	♏ Cephei	4	23.30.36.5	2. 3.	76	25.26.53. B	+	19.87	
379	♐ Piscium	5	23.31. 2.8	3. 1.	0.35.37.12.	B	+	19.38	
380	♑ Piscium	5	23.36.22.7	3. 1.	2.17.20.32.	B	+	19.93	
381	♒ Piscium	5	23.47.37.4	3. 1.	—	—	—	—	
382	♓ Piscium	4	23.48.14.6	3. 1.	5.31.	7.43. B	+	20.02	
383	♈ Piscium	5	23.50.45.9	3. 1.	4.13.47	28. A	—	20.03	
384	♉ Piscium	5	23.50.53.4	3. 1.	7.12.52.28	A	—	20.03	
385	♊ Piscium	5	23.54.17.3	3. 1.	1.54.58.80.	A	—	20.05	
386	♋ Andromedæ	2	23.57.15.8	3. 1.	27.53	42.20. B	+	20.05	
387	♌ Cassiopeæ	3	23.57.43.2	3. 0.	57.57.16.20.	B	+	20.05	





N <sup>o</sup> . Stellæ	Nomen Stellæ & Character.	Ascensio recta.	Variatio in Annorum in Ascensionem rectam.			Variatio annua ejusdem.	Diferentia a de la Caille.	Aberra- tio ma- xima in Ascen- sionem rectam.
			S. G. M. S.	M. S. C.	S. C.			
1	γ Peg. Algenib.	2 0 0 13 35	7 42 00	46 20	- 8 6	18 8		
2	ι Ceti	3 0 1 44 28	7 44 00	46 40	-2.13.3*	18 7		
3	β Piscium	5 0 2 4 1	7 42 70	46 27	+ 8 8*	18 5		
4	δ Andromedæ	3 0 6 38 13 $\frac{1}{2}$	7 54 00	47 40	+ 7 6	21 1		
5	α Cassiopeæ	3 0 6 45 35	8 15 80	49 58	+15 2	32 1		
6	β Ceti	3 0 7 52 59	7 32 20	45 22	- 1 3 0	19 4		
7	κ Andromedæ	4 0 8 39 58	7 54 60	47 46		20 0		
8	20 Ceti	5 0 10 11 19	7 40 40	46 04	- 5 9*	18 4		
9	γ Cassiopeæ	3 0 10 26 19	8 44 20	52 42	+18 5	36 2		
10	ε Piscium	4 0 12 37 43	7 47 00	46 70	+11 1*	18 5		
11	e Piscium	5 0 14 0 30	7 45 50	46 55	+10 1*	18 6		
12	β Andromedæ	2 0 14 5 40	8 15 20	49 52	+24 4	22 3		
13	η Ceti	3 0 14 7 48	7 33 10	45 19	+ 0 8	18 9		
14	θ Cassiopeæ	4 0 14 9 48	8 49 0	52 90		31 4		
15	ζ Piscium	4 0 15 18 18	7 47 50	46 75	+10 7*	18 6		
16	δ Cassiopeæ	3 0 17 34 49	9 22 50	56 25	13 5	36 0		
17	θ Ceti	3 0 18 0 33	7 31 50	45 15	- 9 7	18 8		
18	μ Piscium	5 0 19 24 35	7 47 60	46 76	+ 8 8*	18 6		
19	η Piscium	5 0 19 40 14	7 58 80	47 88	+ 9 1*	19 2		
20	π Piscium	5 0 21 6 13	7 55 70	47 57	+ 9 6*	18 9		
21	105 Piscium	5 0 21 41 38	8 1 90	48 19	+ 7 0*	19 2		
22	ν Piscium	4 0 22 14 26	7 46 40	46 64	- 0 1*	18 7		
23	ε Piscium	4 0 23 11 14	7 52 80	47 28	+ 3 3*	18 8		
24	θ Cassiopeæ	3 0 24 21 0	10 21 00	62 18	+16 0	39 5		
25	γ Arietis	4 0 25 6 7	8 10 00	49 00	+13 9	19 6		
26	β Arietis	3 0 25 21 28	8 12 50	49 25	+13 4	19 7		
27	α Arietis	5 0 26 4 16	8 8 00	48 80	+ 9 5*	19 5		
28	λ Arietis	5 0 26 9 11	8 14 80	49 48		20 3		
29	γ Andromedæ	2 0 27 19 7	9 2 50	54 25	+11 3	24 9		
30	α Piscium	3 0 27 24 46	7 44 30	46 43	- 3 7	18 7		
31	α Arietis	2 0 28 25 28	8 26 00	50 60	- 1 2	20 2		
32	19 Arietis	5 1 0 0 8	8 7 10	48 71	+ 8 7*	19 4		
33	κ Ceti	4 1 0 4 35	7 55 50	47 55	+ 1 0*	19 0		
34	1 ξ Ceti	5 1 0 4 40	7 55 40	47 54		18 9		
35	1 θ Arietis	5 1 1 12 18	8 17 20	49 72	+ 2 8*	19 8		
36	0 Ceti variab.	2 1 1 48 41	7 34 10	45 41	+14 8	18 9		
37	2 ξ Ceri.	4 1 3 51 24	7 56 30	47 63	+ 2 5*	19 0		
38	δ Ceti	3 1 6 47 59 $\frac{1}{2}$	7 40 30	46 03	-13 8	18 9		
39	θ Persei	4 1 6 58 50	9 56 70	59 67		28 3		

Nomen Stellar.	Declinatio		Variatio to annorum.		Variatio annua.		Differencia a de la Caille.		Aberra tio maxi ma in De clin.		Longitudo.			Latitudo.	
	G. M. S.	M. S. C.	M. S. C.	S. C.	S. D.	S. D.	S. D.	S. D.	S. G. M. S.	G. M. S.	G. M. S.	G. M. S.			
γ	13.50.55	B	+3.20.40	+20.04	- 3. 5	8. 7	0. 5.48.46.½	12.35.34.½	B						
ι	10.10. 1	A	-3.20.00	-20.00	+39. 1*	8. 6	11.27.30.16.	10. 0.47. A							
δ	6.51.20	B	+3.24.00	+20.40	- 4. 4*	8. 3	0. 4.37.55	5.27.52.½	B						
α	29.32. 0	B	+3.20.10	+20.01	-43. 1	11. 5	0.18.27.49.	24.20.11. B							
ε	55.13. 8	B	+3.19.10	+19.91	+ 5. 6	16. 5	1. 4.27.25.	46.36.21. B							
β	19.18.27	A	-3.18.60	-19.86	- 1. 4	10. 5	11.29.12.22.	20.47. 7. A							
ζ	22.57.30	B	+3.18.20	+19.82		10. 0	0.17.14.52.	17.36.35. B							
20	2.27. 8	A	-3.17.40	-19.74	+ 4. 7*	8. 2	0. 8.23.31.	6.17.38. A							
γ	59.24.44,		+3.17.10	+19.71	+ 3. 0	17. 0	1.10.36. 5.	48.47.41. B							
ε	6.36.34.	B	+3.15.80	+19.53	+57. 4*	7. 8	0.14.11.15	1. 5.37. B							
e	4.22.29	B	+3.14.60	+19.46	- 6. 7*	7. 8	0.14.35.14.½	1.29.56. A							
β	34.20.27	B	+3.14.50	+19.45	- 5. 3	11. 6	0.27. 3.36.	25.56. 8. B							
n	11.27.39	A	-3.14.50	-19.45	+ 6. 8	9. 5	0. 8.23.56.	16. 6.50. A							
δ	53.52. 3.	B	+3.14.40	+19.44		15. 6	1. 8.27.10.	43. 6.28. B							
ζ	6.18. 0	B	+3.13.00	+19.30	- 4. 2*	7. 7	0.16.31.15.	0.18.11 A							
δ	58.58.50	B	+3.11.20	+19.12	+ 6. 4	16. 3	1.14.34.45.	46. 23.29 B							
δ	9.25.41	A	-3.10.70	-19.07	- 3. 8	9. 3	0.12.52.48.	15.46. 1. A							
κ	4.54. 0	B	+3. 9.20	+18.92	- 4. 6 <sup>1</sup>	7. 6	0.19.46. 6.	3. 4. 4 A							
π	14. 6. 5	B	+3. 8.80	+18.88	+ 2. 0*	7. 7	0.23.28. 4.½	5.21.45. B							
η	10.54.20	B	+3. 7.10	+18.71	- 1. 4. 7*	7. 5	0.23.24.11.	1.53.32. B							
105	15.10.49	B	+3. 6.30	+18.63	- 1. 0. *	7. 4	0.25.41.50.	5.37.49. B							
i	4.15.52	B	+3. 5.60	+18.56	- 6. 9 <sup>+</sup>	7. 6	0.22. 9.17	4.42. 7. B							
ε	7.56.28	B	+3. 4.10	+18.41	- 5. 1 <sup>+</sup>	7. 4	0.24.23.11.½	1.38.17. A							
o	62.28.33.	B	+3. 2.70	+18.27	+ 4. 1	16. 4	1.21.25.56.½	47.31.36. B							
γ	18. 6.27.	B	+3. 2.00	+18.20	-12. 5	7. 7	0.29.50. 8.	7. 9. 7. B							
γ	19.37.30	B	+3. 1.00	+18.10	- 5. 1	7. 9	1. 0.37.13.	8.23.38.½B							
β	16.38. 9	B	+3. 0.00	+18.00	- 2. 3 <sup>+</sup>	7. 5	1.0. 10. 2	5.26.32.½B							
λ	22.24.56	B	+3. 5.00	+18.50		8. 1	1. 2.21. 6.	10.48.23. B							
γ	41. 9.58	B	+2.58.00	+17.80	- 1. 6	11. 3	1.10.53. 6.	27.47.13. B							
α	1.35.39	B	+2.58.00	+17.80	- 8. 0	7. 8	0.26. 1.20.	9. 4.41. A							
α	22.18.59.	B	+2.56.00	+17.60	- 4. 2	7. 9	0. 4.18.28.	9.57.30. B							
19	14. 8.37	H	+2.53.70	+17.37	- 4. 0*	7. 0	1. 2.50.35.	1.46.40. B							
15	7.42.52	B	+2.53.70	+17.37	+10. 6*	7. 1	1. 0.41.30.	4.16.54. A							
1E	4.42.33	B	+2.53.70	+17.37		7. 5	0.29.38.48.	7. 6. 5. A							
19	18.47. 2.	B	+2.51.50	+17.15	+17. 0*	7. 1	1. 5.31.36	5.44.22. B							
o	4. 4.48	A	-2.50.40	-17.04	+11. 1	8. 8	0.28.10.17.	15.56.32. A							
25	7.20.49	B	+2.46.30	+16.63	-2.36.9*	7. 0	1. 4. 6.22.	5.53.54. A							
δ	0.43.10.	A	-2.40.00	-16.00	+ 4.3.	8. 0	1. 4.12.50.	14.28.54. A							
9	48.11.50	B	+2.40.20	+16.02		12. 2	1.21.18.10.½	31.36.12. B							

Nr. stellæ.	Nomen Stellæ & Character.	Ascensio recta.	Variatio in Annorum in Asc. rectam.		Variatio annua in Asc. rectam.	Differencia a de la Caille.	Aberratio maxima in Ascensionem rectam
			S. G. M. S.	M. S. C.			
40 $\epsilon$	Ceti 3	1 6 59 31	7 14 20	43 42	- 7 7	19 4	
41 35	Arietis. 4	1 7 21 28	8 43 00	52 30		21 2	
42 $\gamma$	Ceti. 3	1 7 43 27	7 46 50	46 65	+ 5 1	19 0	
43 $\mu$	Ceti. 4	1 8 0 6	8 1 60	48 16	+ 8 3*	19 2	
44 $\pi$	Ceti. 3	1 8 10 39	7 8 90	42 89		19 7	
45 $\tau$	Persei. 5	1 9 20 51	10 23 20	62 32		0 9	
46 3 $\epsilon$	Arietis. 5	1 10 43 55	8 21 90	50 19	+ 1 1*	19 9	
47 $\eta$	Eridani. 3	1 11 10 45	7 18 80	43 88		19 4	
48 $\epsilon$	Arietis. 5	1 11 17 3	8 31 10	51 11	-5'55.0*	20 5	
49 $\gamma$	Persei. 3	1 11 53 38	10 36 50	63 65	+ 8 5	31 1	
50 $\alpha$	Ceti. 2	1 12 26 24	7 49 00	46 90	+ 19 0	19 1	
51 $\beta$	Persei Algol. 3	1 13 9 52	9 37 00	57 70	+ 14 3	24 4	
52 $\delta$	Arietis. 4	1 14 29 11	8 29 70	50 97	+ 0 8*	20 3	
53 $\zeta$	Arietis. 5	1 15 17 19	8 34 10	51 41	+ 8 5*	20 5	
54 12	Eridani. 3	1 15 28 7	6 19 40	37 94		22 2	
55 $\zeta$	Eridani. 3	1 16 2 54	7 17 10	43 70	- 5 1	19 5	
56 $\alpha$	Persei. 2	1 16 49 57	10 30 00	63 00	- 5 4	29 4	
57 2 $\tau$	Arietis. 5	1 17 14 48	8 35 00	51 50	+ 4 7*	20 6	
58 $\iota$	Tauri. 4	1 19 26 48	8 14 50	49 45	+ 59 6*	59 7	
59 17	Eridani. 4.5	1 19 40 47	7 25 00	41 50		19 4	
60 $\delta$	Persei. 3	1 21 29 11	10 30 10	36 10	+ 9 0	28 5	
61 b	Plejadum. 5	1 22 40 7	8 50 60	53 06	+ 8 5	21 1	
62 e	Plejadum. 5	1 22 44 3	8 51 90	53 19	+ 7 1*	21 2	
63 $\delta$	Eridani. 3.4	1 22 56 33	7 11 90	43 19	- 10 4	19 7	
64 $\beta$	Plejadum. 5	1 23 2 1	8 50 40	53 04	+ 7 2*	21 2	
65 $\eta$	Tauri. 3	1 23 18 58 $\frac{1}{2}$	8 51 30	53 13	+ 6 8	21 2	
66 $\gamma$	Eridani. 2	1 26 42 35	6 59 40	41 94	- 15 3	20 2	
67 $\iota$	$\lambda$ Persei. 4	1 27 12 6	10 6 50	66 05		30 4	
68 A	Tauri. 5	1 27 38 1	8 48 20	52 82	- 4 2*	20 9	
69 $\Phi$	Tauri. 5	2 1 34 32	9 16 60	55 06	- 12 0*	21 9	
70 $\gamma$	Tauri. 3	2 1 32 23	8 29 00	50 90	+ 5 3	20 3	
71 $\chi$	Tauri. 5	2 0 16 2	9 4 60	54 46	+ 11 3*	21 7	
72 1	$\delta$ Tauri. 4	2 2 16 57	8 36 00	51 60	+ 7 7	20 6	
73 2	$\delta$ Tauri. 4	2 2 34 25	8 36 00	51 60	+ 6 0	20 6	
74 1 $\kappa$	Tauri. 5	2 2 46 34	8 52 80	53 28	+ 5 2*	21 2	
75 2 $\kappa$	Tauri. 5	2 2 47 18	8 52 60	53 26	+ 1 6*	21 2	
76 3 $\delta$	Tauri. 5	2 2 54 33	8 37 70	51 77	+ 5 4*	20 5	
77 1 $\nu$	Tauri. 5	2 2 59 43	8 55 00	53 50	+ 7 2*	21 2	
78 $\epsilon$	Tauri. 5	2 3 39 29	8 42 00	52 20	+ 7 0	20 8	



Nom Stel- lar.	Declinatio.		Variatio to. Anorum in Declina- tionem.	Variatio annua in Declina- tionem.	Differentia a de la Caille.	Aber- ratio max. in Declin- at.	Longitudo.		Latitudo.			
	G.	M.	S.	M.	S.	C.	S.	D.	S.	G.	M.	S.
ε	12	54.10	A	-2.40.20	-16	02	+ 0 3	10. 9	0.29.58.32	26. 0.10	A	
35	16	40.16	B	+2.38. 5	+15	30		7. 5	1.13.35.20	11.17.25	B	
γ	2	12.42	B	+2.38.60	+15	36	+ 4 2	8. 3	1.16. 5.33	12. 0.41	A	
μ	9.	5.13	B	+2.38. 0	+15	30	- 5 7 <sup>+</sup>	6. 6	1. 8.34.25	5 34.54	A	
π	14	53.15	A	-2.37.70	-15	77		6. 4	1. 0.23.37	28.15.59	A	
τ	51	45.43	B	+2.35.00	+15	50		13. 0	10. 5.25.45	34.20.43	B	
3 ρ	17.	3. 3	B	+2.32.00	+15	20	- 3 2 <sup>*</sup>	6. 1	1.13.33 47 <sup>1/2</sup>	1.10.30	B	
η	9	51.58	A	-2.31.00	-15	10		10. 5	1. 5.23.22 <sup>3/4</sup>	24.33. 8	A	
ε	20	21.55	B	+2.30.50	+15	05	- 3 0 <sup>*</sup>	6. 3	1.15. 3 40	4.10.43	B	
γ	52	31.46	B	+2.29.30	+14	93	-62 1	12. 7	1.26.40.26	34 29.13	B	
δ	3.	8. 0 <sup>2</sup>	B	+2.27.00	+14	70	- 2 8	7. 4	1.10.58. 4	12.36.16	A	
β	40.	0.44	B	+2.26.30	+14	63	- 2 3	9. 7	1.22.49.33	22.24. 4	B	
ζ	18.	48. 7	B	+2.22 10	+14	31	- 4 4 <sup>*</sup>	5. 9	1.17.29.34	1.48. 7	B	
ζ	20.	8.20	B	+2.21.10	+14	11	-57 3 <sup>*</sup>	5. 8	1.18.35.49	2.25.14 <sup>1/2</sup>	B	
12	29	56 52	A	-2.20.70	-14	07		15. 1	1. 1.10.58	44.44.31	A	
ζ	9	43.33	A	-2.19.20	-13	92	+ 2 2	10. 2	1.10.28. 5	25.56.53	A	
α	48	59. 9	B	+2.17.20	+13	72	- 0 2	11. 4	1.28.44.17	30. 5.58	B	
2 τ	19	51.58	B	+2.16.20	+13	62	+ 3 7 <sup>*</sup>	5. 5	1.20.17.31	2. 6. 5 <sup>1/2</sup>	B	
f	12.	5.50	B	+2.10.50	+13	05	- 7 0 <sup>*</sup>	5. 7	1.20.16.15	5.56.56 <sup>1/2</sup>	A	
17	5	54.55	A	-2.10.00	-13	00		9. 5	1.15.29. 5	23.21.50	A	
δ	46	59.50	B	+2. 4.90	+12	49	+ 0 5	10. 6	2. 1.27. 22	27.16.33	B	
b	23	20.16	B	+2. 1.70	+12	17	-41 6	5. 2	1.26. 3.46	4. 9.50	B	
e	23	41.44	B	+2. 1.40	+12	14	+ 3 7 <sup>*</sup>	5. 1	1.26.12.55	4.29.40	B	
δ	10	35.32	A	-2. 0.80	-12	08	+ 2 7	10. 5	1.17.29.43	28.45. 9	A	
9	23	10.54	B	+2. 0.60	+12	06	-62 2 <sup>*</sup>	5. 1	1.26.21. 5	3.55.52	B	
η	23	20.38	B	+2. 0.00	+12	00	- 1 6	5. 0	1.26.38.34	4. 1.36	B	
γ	14	12.27	A	-1.50.10	-11	01	- 1 7	11. 7	1.20.30.10	33.13.13	A	
1 λ	49	40.31	B	+1.48.60	+10	86		10. 7	2. 6.24.23 <sup>1/2</sup>	28.51.37	B	
A	21	24.23	B	+1.47.40	+10	74	+ 7 0 <sup>*</sup>	4. 4	2. 0. 5.53	1.14.15	B	
Φ	26	45.15	B	+1.36.00	+ 9	60	- 0 1 <sup>*</sup>	4. 4	2. 4.33.50	5.46.37	A	
γ	15.	1 39	B	+1.36.00	+ 9	60	- 5 3	4. 5	2. 2.26.50	5.45.30	A	
χ	35.	2.29	B	+1.34 00	+ 9	40	+27 0 <sup>*</sup>	4. 1	2. 4.45.58	3.49.37	A	
1 δ	16	57.31 <sup>1/2</sup>	B	+1.33.4 <sup>+</sup>	+ 9	34	- 6 4	4. 2	2. 3.30 52	3.59.46	A	
2 δ	16	52. 3	B	+1.32.50	+ 9	25	- 3 9	4. 2	2. 3.46 19	4. 8.14	A	
1 x	21	43.24	B	+1.31.80	+ 9	18	+ 4 4 <sup>*</sup>	3- 7	2. 4.50.57	0.36. 7	B	
2 x	21	37.46	B	+1.31.70	+ 9	17	+63 1 <sup>*</sup>	3- 7	2. 4.50.35	0.30.27	A	
3 δ	7	21.29	B	+1.31.30	+ 9	13	- 5 6 <sup>*</sup>	3. 8	2. 4.10.41	3.42.48	B	
1 υ	22	14.52	B	+1.31.00	+ 9	10	- 8 9 <sup>*</sup>	3. 7	2. 5. 8.39 <sup>1/2</sup>	1. 4.51	A	
z	18	37.34	B	+1.29.00	+ 8	90	- 3 3	3. 8	2. 5. 6.27	2.35.37	B	



Nr. Stel. lz.	Nomen Stelz & Charact.	Ascensio recta.			Variatio Annorum in Ascensionem reflat.			Variatio annua in Ascensionem reflat.		Differentia a de la Caille.		Aberratio maxima in Ascensionem reflat.				
		S.	G.	M. S.	M.	S.	C.	S.	C.	S.	D.	S.	D.			
79	$\theta$ Tauri	5	2	3	43	22	8	31	40	51	14	+ 5	3*	20	4	
80	$2\theta$ Tauri	5	2	3	44	47	8	31	40	51	14	- 59	3*	20	4	
81	Aldebaran	1	2	5	32	38	7	8	34	10	51	41	+ 2	1	20	6
82	$r$ Tauri	5	2	6	58	5	8	58	20	53	82	+ 5	9*	21	3	
83	$\iota$ $\pi$ Orionis	4	2	9	23	16	8	9	70	48	97			20	0	
84	$\gamma$ Camelopardi	5	2	9	31	48	11	54	20	71	42			33	4	
85	$\iota$ Tauri	4	2	12	12	43	8	56	00	53	60	+ 77	1*	21	3	
86	$m$ Tauri	5	2	13	19	13	8	45	40	52	54	+ 7	8*	20	9	
87	$105$ Tauri	5	2	13	23	58	8	57	00	53	70	+ 10	5*	21	3	
88	$h$ Eridani	3	2	14	1	5	7	23	30	44	33	- 3	9	20	0	
89	Cappella	1	2	14	44	59	11	0	30	66	03	+ 6	1	28	7	
90	Rigel	1	2	15	45	10	7	12	80	43	28	- 11	9	20	1	
91	$\beta$ Tauri	2	2	17	47	7	9	28	00	56	80	+ 12	5	22	6	
92	$\gamma$ Orion.	2	2	18	4	8	8	2	80	48	28	+ 4	1	20	0	
93	$\theta$ Tauri	5	2	18	18	35	9	0	00	54	00	+ 10	5*	21	5	
94	$2\psi$ Orionis	5	2	18	34	9	7	51	70	47	17			20	0	
95	$\beta$ Leporis	3	2	19	29	40	6	27	20	38	72	+ 2	8	21	4	
96	$\delta$ Orion	2	2	19	56	22	7	40	20	46	02	- 9	5	19	9	
97	$\alpha$ Leporis	3	2	20	32	21	6	37	50	39	75	- 7	4	21	0	
98	$\zeta$ Tauri	3	2	20	49	43	8	58	00	53	80	+ 5	0	21	4	
99	$\beta$ Orionis	2	2	21	0	41	7	37	10	45	71	- 6	5	20	0	
100	$125$ Tauri	5	2	21	13	4	9	17	40	55	74	+ 1	3*	22	3	
101	$132$ Tauri	4	2	23	31	30	9	12	50	55	25	+ 8	2*	21	9	
102	$\gamma$ Leporis	3	2	23	37	3	6	19	10	37	91	- 1	4	21	6	
103	$136$ Tauri	5	2	24	33	46	9	25	90	56	59	+ 10	5*	22	6	
104	$\delta$ Aurigæ	4	2	24	46	44	12	19	20	73	92			34	2	
105	$1\chi$ Orionis	5	2	25	2	44	8	55	30	53	53	+ 12	9*	21	1	
106	$2\chi$ Orionis	5	2	25	11	7	8	53	30	53	33			21	1	
107	$\alpha$ Orionis	1	2	25	32	47	8	7	50	48	75	- 1	7	20	1	
108	$\beta$ Aurigæ	4	2	25	50	21	10	13	40	61	34	+ 1	4	25	0	
109	$H$ Geminorum	5	2	27	23	1	9	7	90	54	79	+ 7	2*	21	8	
110	$\alpha$ Aurigæ	5	3	0	1	18	9	35	60	57	56			22	9	
111	$\eta$ Geminorum	4	3	?	5	54	9	5	00	54	50	+ 9	0	21	6	
112	$\mu$ Geminorum	3	3	2	6	35	9	5	00	54	50	+ 8	3	21	7	
113	$\nu$ Geminorum	4	3	3	40	42	8	56	00	53	60	+ 12	3*	21	3	
114	$23$ Geminorum	5	3	5	32	4	8	43	40	52	34			-	-	
115	$\gamma$ Geminorum	2	3	5	57	40	8	41	00	52	10	+ 8	5	20	8	
116	$26$ Geminorum	5	3	7	6	20	8	45	90	52	59	+ 0	7*	22	1	
117	$r$ Geminorum	3	3	7	17	23	9	16	00	55	60	+ 1	0	22	1	

Nomen stellæ	Declinatio.		Variatio io Annotum in Declina- tionem.	Variatio annua in Declin.	Differentia a de la Calle.	Aber- ratio maxi- ma in Declina- tionem.	Longitudo.		Latitudo.
	G. M. S.	M. S. C.	S. C.	S. D.	S. D.	S. G. M. S.	G. M. S.		
I. 3	15.24.31 B	+1.28.70	+ 8.87	- 6. 0*	4. 2	2. 4.35.51	5. 46.17 A		
2.9	15.19. 1 B	+1.28.70	+ 8.87	- 8. 9*	4. 2	2. 4.36.13	5. 51.55½ A		
Al.	16. 0.20 B	+1.23.00	+ 8.30	- 6. 8	3. 8	2. 6.26.10½	5. 29. 2 A		
r	22.28.27 B	+1.18.40	+ 7.84	+ 3. 1*	3. 1	2. 8.48.15	0. 41. 6 B		
1.	8.28. 6 B	+1.10.60	+ 7.06	S. 6	5. 6	2. 9. 0.56	13.30.39 A		
7.C.	53.20.16 B	+1.10.10	+ 7.01		10. 5	2. 15.55.14	30.51.54 B		
1	21.13.29 B	+1. 1.40	+ 6.14	- 0. 9*	2. 8	2. 13.27. 3	1. 13.41 A		
m.	18.17.59 B	+0.57.50	+ 5.75	- 6. 0*	2. 9	2. 14. 8.29	4. 15.20 A		
105	21.21.48 B	+0.57.30	+ 5.73	- 3. 3*	2. 7	2. 14.32.58	1. 13.14 A		
h	5.24.57 A	-0.55.30	- 5.53	+ 4. 7	9. 5	2. 11.56. 0	27.53.16 A		
Cap.	45.43.32 B	+0.52.80	+ 5.28	- 2. 0	7. 8	2. 18.30.19	22.51.46 B		
R	8.29.50 A	-0.49.40	- 4.91	+ 3. 9	10. 4	2. 13.28.34	31. 9.10 A		
β	28.22.48 B	+0.42.00	+ 4.20	- 1. 9	2. 7	2. 19.13.27	5. 21.59 B		
γ	6. 6.39 B	+0.41.50	+ 4.15	+ 0. 4	6. 1	2. 17.35.51	16.10.47 A		
0	21.42.29 B	+0.40.60	+ 4.06	- 61.2*	2. 0	2. 19. 8.47	1. 19.19 A		
2-↓	2.52. 1 B	+0.39.80	+ 3.98		7. 0	2. 17.49.50	20. 7.15 A		
β	20.58. 4 A	-0.36.60	- 3.66	+ 0. 8	13. 9	2. 16.19.24	+3.56.26 A		
δ	0.29.50 A	-0.25.00	- 3.50	- 6. 5	9 9	2. 19. 0.44	23.35. 0 A		
α	18. 0.43 A	-0.33.00	- 3.30	- 0. 6	13. 2	2. 18. 1.47	41. 5.20½ A		
ε	20.58.22 B	+0.32.00	+ 3.20	- 3. 6	1. 8	2. 21.26. 5	2. 13.29 A		
ε	1.22.33 A	-0.31.30	- 3.13	+ 3. 7	8. 4	2. 20. 6.49	24.33.15½ A		
125	25.44.16 B	+0.30.60	+ 3.06	+ 1. 7*	1. 8	2. 22. 5.14	2. 31.22 B		
132	24.27.43 B	+0.22.50	+ 2.25	- 0. 2*	1. 1	2. 24. 9.10	1. 7.21 B		
γ	22.32.47 A	-0.22.30	- 2.23	+1.3 7	14. 4	2. 22.34.27	31.41. 6 A		
136	27.31.51 B	+0.19.00	+ 1.90	+ 3. 7*	1. 8	2. 25.10. 2	4. 9. 6 B		
δ	54.14. 7 B	+0.17.70	+ 1.77		10. 3	2. 26.26.56	30.49.43 B		
1.χ	20.12.31 B	+0.18.30	+ 1.83	- 1. 0*	1. 6	2. 25.18.46	3. 10.49 A		
2.χ	19.40.17 B	+0.16.80	+ 1.68		1. 7	2. 25.27.26	3. 43.21 A		
α	7.20.25 B	+0.15.60	+ 1.56	- 5. 6	5. 6	2. 25.24.13	16. 3.31 A		
9	37.10. 8 B	+0.14.00	+ 1.40	+ 0. 9	4. 8	2. 26.35.15	13.44.54 A		
H.	23.15. 8 B	+0. 9.10	+ 0.91	- 2. 0*	0. 9	2. 27.35.46½	0. 11.45 A		
κ	29.33.41 B	-0. 0.60	- 0.06		2. 1	3. 0. 1. 8½	6. 5.29 B		
η	22.33. 8 B	0 0. 0. 0	0.00	- 5. 8	0. 6	3. 0. 5.27	0. 55. 4 A		
μ	22.36.46 B	-0. 7. 0	- 0.70	- 4. 5	0. 6	3. 1.56.52	2. 50.34 A		
ν	20.20.25 B	-0.13.00	- 1.30	- 9. 2*	1. 5	3. 3.27.13	3. 5. 8 A		
23		-0.19.20	- 1.92						
γ	16.34.51 B	-0.21.00	- 2.10	- 7. 5	2. 5	3. 4.45.10	6. 46.12 A		
16	17.51.27 B	-0.24.80	- 2.48	- 4. 3*	2. 0	3. 6.47.32½	5. 26.41 B		
ε	25.20.40 B	-0.25.00	- 2.50	+ 2. 5	1. 3	3. 6. 35.20	2. 2.28 A		

Nr. stellæ	Nomen stellæ & character.		Ascensio recta.				Variatio in Annorum in Ascensionem rectam.	Variatio annua in Ascensionem rectam.	Differentia a de la Caille.	Aberratio maxima in Ascensionem rectam.
			S.	G.	M.	s.	M. S.	S. C.	S. D.	S. D.
118	28 Geminorum	5	3	7	23	5	9 32 90	57 29		22 9
119	Syrius	1	3	8	38	36 8	6 41 50	40 35	- 8 6	20 8
120	ζ Geminorum	4	3	12	27	57	8 56 70	53 67	+14 2	21 5
121	51 Geminorum	5	3	14	53	40	8 39 40	51 94	+ 6 6*	20 7
122	19 Lyncis	5	3	15	48	8	12 24 80	74 48		35 2
123	λ Geminorum	5	3	16	4	22	8 40 60	50 06	+11 0*	20 8
124	δ Geminorum	3	3	16	26	38	9 2 00	54 20	+1 9	21 1
125	q Geminorum	5	3	16	56	31	8 55 00	53 50	+ 6 2*	21 3
126	i Geminorum	5	3	17	42	2	9 24 50	56 45	+19 5*	22 5
127	p. Geminorum	5	3	18	22	8	8 58 40	53 84	+17 8*	21 4
128	η Canis majoris	2	3	18	39	8	5 57 20	35 72	+ 6 5	22 7
129	Castor	1	3	19	48	45 7	9 41 50	58 15	+ 3 3	23 4
130	ν Geminorum	4	3	20	17	33	9 19 40	55 94	+65 7*	22 3
131	f Geminorum	5	3	21	24	2	8 43 30	52 33	- 0 9*	20 8
132	Procyon	1	3	21	40	56 8	8 0 80	48 08	- 1 2	19 9
133	κ Geminorum	5	3	22	28	59	9 8 10	54 81	-58 1*	21 9
134	Pollux	1	3	22	39	3 7	9 22 70	56 27	+ 2 8	22 4
135	g Geminorum	5	3	23	3	12	8 45 70	52 57	+13 7*	20 8
136	26 Lyncis	5	3	24	17	24	11 5 90	66 59		29 6
137	φ Geminorum	5	3	24	41	34	9 16 10	55 61	+ 7 2*	22 2
138	3 Cancrī	5	3	26	57	4	8 43 00	52 30		20 9
139	μ Cancrī	5	3	28	0	54	8 58 10	53 81		20 2
140	2.ψ Cancrī	4	3	28	59	26	9 8 30	54 83	+ 8 9*	21 8
141	β Cancrī	3	4	0	52	13	8 11 90	49 19	- 2 8	19 9
142	θ Cancrī	5	4	4	28	16	8 38 50	51 85	+ 7 5*	20 5
143	η Cancrī	5	4	4	41	53	8 46 10	52 61		20 8
144	γ Cancrī	4	4	7	20	30	8 47 20	52 72	+ 4 0	21 0
144	δ Cancrī	4	4	7	45	17	8 36 50	51 65	+ 0 6	20 5
146	ι Urfæ majoris	4	4	10	40	2	10 36 60	63 66	+19 8	29 5
147	1.ζ Cancrī	4	4	10	42	0	8 16 00	49 60		19 8
148	2.ζ Cancrī	4	4	11	20	6	8 16 00	49 60	+10 0	19 8
149	κ Cancrī	5	4	13	40	53	8 11 70	49 17		19 6
150	π Cancrī	6	4	13	52	48	8 43 00	52 30	+69 5*	21 0
151	ν Leonis	5	4	18	53	50	8 5 30	48 53	-21 4*	19 3
152	κ Cor Hydræ	2	4	18	56	57	7 24 10	44 41	- 6 9	19 2
153	3 Urfæ maj.	3.4	4	19	10	9	10 34 20	63 42	- 2 0	31 8
154	ι Leonis	4	4	19	44	49	8 10 50	49 03	+ 3 9*	19 4
155	10 Leonis	5	4	19	50	58	7 59 80	47 98		19 8
156	ν Leonis	4	4	22	4	55	8 4 80	48 48	+ 2 2	19 4



Nomen stellae	Declinatio.			Variatio in Annotum in Declinationem.	Variatio annua in Declinationem.	Differentia a de la Caille	aberratio maxima in Declinationem.	Longitudo.	Latitudo.
	°. M. S.	M. S. C.	±. C.	±. C.	S. D.	S. D.	S. G. M. S.	G. M. S.	
28 Syr	19 11.18. B	-0.25.80	- 2.58			2. 2	3. 6.28.37	5.53. 4 B	
	16 24 7. A	+0.30.10	+ 3.01	+ 2. 0	12. 2	3.10 46.34	39 32.55 A		
	0 53.58. B	-0.43.30	- 4.33	- 5. 0	2 1	3.11 38.29	2. 4. 4 A		
I	16.32.38. B	-0.51.60	- 5.16	-13. 9*	3. 1	3.14.20.59	6.11.11 A		
	15.42 11. B	-0.54.60	- 5.46		11. 2	2.19.28 50	39.48.33 <sup>1</sup> / <sub>2</sub> B		
19 λ	16 57. 5 B	-0 55 50	- 5.55	-13. 6*	2. 8	3.15.25. 2 <sup>1</sup> / <sub>2</sub>	5. 1. 4 A		
q	22.24. 6 B	-0.57.00	- 5.70	- 4. 6	2. 7	3.15.10.19	0.12.19 A		
	20 52.26. B	-0 58.40	- 5.84	- 4. 6*	2. 6	3.15.48.24	1.40.13 A		
i	28.15. 6. B	-1. 1.00	- 6.10	-56. 3*	3. 3	3.15.35. 3	5.44.17 B		
P	21.54.48. B	-1. 3.20	- 6.32	- 0. 5*	2. 7	3.17. 0 1	28.41 A		
Cait	28.50.57. A	+1. 4.20	+ 6.42	- 3. 7	15. 5	3.26.12.34	50.38. 1 A		
	32.23.24. B	-1. 8.00	- 6.80	- 4 0	4. 3	3.16 53 59	10. 4.35 B		
o	27.24.24. B	-1. 9.50	- 6.95	+ 0 5*	3. 3	3.18. 0.31	5.11.53 B		
f	18 11.59. B	-1.13.00	- 7.30	- 7. 3*	3. 3	3.20 19.38 <sup>1</sup> / <sub>2</sub>	3.46.15 A		
Proc	5 49.24. B	-1.14.20	- 7.42	- 4. 0	6. 1	3.22.28.37 <sup>1</sup> / <sub>2</sub>	15 58. 8 A		
	24.57. 6. B	-1.16.70	- 7.67	- 0. 5*	3. 3	3.20.19. 0	3. 3.20 B		
Pol	28.35. 3. B	-1.17.20	- 7.72	- 2. 5	3. 7	3.19.54.24	6.40. 4 <sup>1</sup> / <sub>2</sub> B		
g	19. 4.28. B	-1.18.50	- 7.85	- 3. 0*	3. 4	3.21.44.45	2.40.12 A		
26 φ	48. 9.42. B	-1.22.50	- 8.25		9. 3	3.17.48.15	26.11. 2 B		
	27.21.54. B	-1.23.80	- 8.38	+ 7. 9*	3. 9	3.21.53.37	5.45.17 B		
3	18.52.57. B	-1.30.90	- 9.09		3. 8	3.25.24.53	2.14.18 A		
μ	13.18. 3. B	-1.34.20	- 9.42		4. 7	3.27.28.23	7.31.56 <sup>1</sup> / <sub>2</sub> A		
2. ↓	26.13. 1. B	-1.37.30	- 9.73	-54 1*	4. 3	3.25.53.34	5.19. 7 B		
β	9.54.25. B	-1.42.90	-10.29	- 1. 1	5. 3	4. 0.54.47	10.18.28 A		
9	17.53 16. B	-1 55.30	-11.53	-10.4.7*	4. 5	4. 2.36.28	1.45.38 A		
η	21.14.20. B	-1 53.70	-11.37		4. 7	4. 2. 3.30	1.33. 7 B		
γ	22 18.51. B	-2. 1.70	-12.17	- 6. 3	4. 9	4. 4 11.41	3.10.22 B		
δ	19. 1.12. B	-2. 3.80	-12.38	- 6. 8	4. 8	4. 5.21.59	0. 4.13 B		
i	48.57.57. B	-2.10.70	-13.07	+ 5. 2	11. 0	3. 0.31.58	29.34.35 <sup>1</sup> / <sub>2</sub> B		
1. κ	12.31.37. B	-2.12.00	-13.20		5. 8	4. 9.45.21	5.29.50 A		
2. κ	12.46.16. B	-2.13 00	-13.30	- 8 0	5. 7	4.10.17.31	5. 5.59 A		
κ	11.37 8 B	-2.18.50	-13.85		5. 7	4.12.49.20	5.35.19 A		
ι	23. 0. 3. B	-2.19.00	-13.90	- 8. 9*	5. 9	4. 9.51.31	5.24.12 B		
ω	10. 5.18. B	-2.31.10	-15.11	- 4. 4*	6. 3	4.18 11.37 <sup>1</sup> / <sub>2</sub>	5.34.21 A		
α	7.37.48. A	+2.31.30	+15.13	+ 4. 8	18. 3	4.23.56.36	22.23.51 A		
9	52.45.25. B	-2.31.80	-15.18	+ 1. 8	10. 4	4. 3.57.23	34.56. 0 B		
ε	12.20.55 <sup>1</sup> / <sub>2</sub> B	-2.33.10	-15.31	-73. 0*	6. 3	4.18.18.13	3. 9.57 A		
10	7.54. 2. B	-2.33.30	-15.33		6. 7	4.19.45.55	7.22.13 A		
π	10.58.19. B	-2.38.30	-15.88	- 6. 0	6 5	4.20.54.28	3.46. 1 A		



Nr. Del. ta.	Nomen stellæ & charact.		Ascensio recta.				Variatio to Annorum in Ascensionem rectam.			Variatio annua in Ascensionem rectam.		Differentia a de la Caille.		Aberra- tio ma- xima in Ascen- sionem rectam.		
			S.	G.	M.	S.	M.	S.	C.	S.	C.	S.	D.	S.	D.	
157	ε Leonis	3	4	23	2	44	8	37	60	51	76	+	3	4	20	9
158	ν Leonis	5	4	26	19	20	8	10	30	49	03	+	3	1*	19	4
159	π Leonis	4	4	26	52	44	7	59	60	47	96	+	2	6*	19	1
160	η Leonis	4	4	28	33	18	8	15	70	49	57	+	11	1	19	8
161	Α Leonis	5	4	28	47	16	8	2	40	48	24	+	3	7*	19	1
162	Regulus	1	4	28	53	32	8	6	00	48	60	+	3	8	19	4
163	ζ Leonis	3	5	0	49	28	8	26	70	50	67	+	8	9	20	6
164	γ Leonis	2	5	1	40	35	8	18	40	49	84	+	13	6	20	1
165	μ Urfæ majoris	3	5	1	59	9	9	8	70	54	87				25	4
166	ρ Leonis	4	5	5	2	25	7	57	50	47	75	+	10	4	18	9
167	48 Leonis	5	5	5	34	0	7	53	80	47	38				18	8
168	37 Sextantis	6	5	8	23	10	7	52	00	47	20				18	8
169	38 Sextantis	0	5	8	42	21	7	52	00	47	20				18	8
170	55 Leonis	5	5	10	50	19	7	44	10	46	41	-	4	1*	18	5
171	56 Leonis	6	5	10	53	17	7	52	00	47	20				18	7
172	β Urfæ majoris	2	5	11	47	56	9	20	80	56	08	+	10	6	34	6
173	θ Leonis	5	5	12	2	29	7	47	00	46	70	+	6	1*	18	6
174	ε Leonis	5	5	12	4	30	7	50	00	47	00	+	5	6*	18	6
175	α Urfæ majoris	1.2	5	12	10	35	9	42	50	58	25	+	9	1	41	2
176	χ Leonis	5	5	13	9	26	7	50	70	47	07	+	4	8*	18	7
177	δ Leonis	3	5	15	19	38	8	2	20	48	22	+	11	8	19	9
178	9 Leonis	3	5	15	24	23	7	57	00	47	70	+	11	9	19	3
179	5 Leonis	5	5	16	14	1	7	44	60	46	46	-	1	6*	18	5
180	76 Leonis	5	5	16	38	57	7	44	20	46	42				18	5
181	π Leonis	5	5	17	11	17	7	47	50	46	75	-	2	4*	18	6
182	79 Leonis	5.6	5	17	55	51	7	44	00	46	40	-	5	2*	18	4
183	r Leonis	4	5	18	53	51	7	44	60	46	46	-	20	2*	18	
184	e Leonis	5	5	19	30	53	7	40	80	46	08				18	4
185	υ Leonis	4	5	21	9	57	7	42	00	46	20				18	4
186	1.ξ Virginis	5	5	23	13	35	7	45	80	46	58	-	2	1*	18	6
187	η Virginis	5	5	23	22	41	7	45	00	46	50	-	17	5*	18	6
188	β Leonis	1.2	5	24	11	59	7	44	60	46	46	-	1	7	19	1
189	β Virginis	3	5	24	32	53	7	43	00	46	30	+	6	6	18	4
190	γ Urfæ majoris	2	5	25	16	25	8	5	40	48	54	+	14	3	32	3
191	π Virginis	5	5	27	8	28	7	43	20	46	32	-	11	2*	18	6
192	δ Urfæ majoris	3	6	0	51	27	7	37	00	45	70	+	4	6	35	3
193	γ Corvi	3	6	0	52	30	7	42	00	46	20	+	2	0	19	1
194	* Virginis	5	6	1	35	43	7	41	80	46	18				18	3
195	n Virginis	3	6	1	54	33	7	42	00	46	20	-	1	7	18	3

Nomen stellae	Declinatio.		Variatio annua in Declinationem.	Variatio annua in Declinationem.	Differentia de la Caille	Aber- ratio maxi- mum Declina- tionem.	Longitude.		Latitudo.
	G. M. S.	M. S. C.	S. C.	S. D.	S. D.	S. G. M. S.	G. M. S.		
$\epsilon$	24.52. 0	B -2.40.30	-16.03	+ 0. 7	7.4	4.17.21.11	9.41.59	B	
$\nu$	13.34.43	B -2.46.90	-16.69	- 2. 9*	6.6	4.23.59.22	0.27.36	B	
$\pi$	9.11. 8	B -2.47.90	-16.79	- 4. 2*	6.9	4.25.58. 2	3.55.20	A	
$\eta$	17.55.22	B -2.51.10	-17.11	- 8. 4	7.0	4.24.33.13	4.51. 9	B	
A	11. 9.49	B -2.51.50	-17.15	- 5. 6*	6.9	4.27. 4.10	1.25.33	A	
Reg.	13. 7.50	B -2.51.70	-17.17	-10. 1	6.8	4.26.29.39	0.27.27	B	
$\zeta$	24.36.11	B -2.55.10	-17.51	- 2. 3	7.9	4.24.12.30 $\frac{1}{2}$	11.51. 2 $\frac{1}{2}$	B	
$\gamma$	21. 2.47	B -2.56.60	-17.66	- 7. 0	7.6	4.26.14.17	3.48.15 $\frac{1}{2}$	B	
$\mu$	42.41.50	E -2.57.00	-17.70		12.0	4.17.52.42	28.58.56	B	
$e$	10.32. 3	B -3. 1.70	-18.17	- 8. 9	7.4	5. 3. 2.15	9. 8.29	B	
48	8.10.55	B -3. 2.60	-18.26		7.4	5. 4.22.34	1.51.49	A	
37	7.36.50	B -3. 6.00	-18.60		7.4	5. 7.11.31	1.21.53	A	
38	7.36.17	B -3. 6.00	-18.60		7.4	5. 7.28.54	1.15.32	A	
55	2. 0.39	B -3. 9.40	-18.94	- 3. 4*	7.9	5.11.53.16 $\frac{1}{2}$	5.39. 1	A	
56	7.27.34	B -3. 8.00	-18.80	- 5. 5*	7.7	5. 9.14.11	0.42.34	A	
$\beta$	57.39.46	B -3.10.50	-19.05	- 0. 5	16.0	4.16. 3.19	45. 6.39	B	
3	4.54. 5	B -3.11.00	-19.10	-20. 9*	7.6	5.11.34.17	2.31.14	A	
c	7.23. 6	B -3.10.00	-19.00	- 5. 8*	7.6	5.10.39.36	0. 7.18	A	
$\alpha$	63. 2.27	B -3.10.90	-19.09	- 2. 7	17.0	4.11.49.33 $\frac{1}{2}$	49.40.10	B	
$\chi$	8.37.43	B -3.11.90	-19.19	- 5. 6*	7.6	4.11.10.45	1.20.53	B	
$\delta$	21.50. 7	B -3.14.00	-19.40	- 3. 5	9.0	5. 7.56.43	14.19.52	B	
$\theta$	16.44.14	B -3.14.00	-19.40	- 8. 2	8.2	5.10. 4.13	9.40.30	B	
75	3.19.38	B -3.14.80	-19.48	- 1. 6*	7.8	5.16. 2.37	2.22.17	A	
76	2.57.45	B -3.15.10	-19.51		7.8	5.16.33.55	2.32.49	A	
$\sigma$	7.20.29	B -3.15.60	-19.56	- .6 4*	7.9	5.15.21.37	1.41.50	B	
79	2.43.20	B -3.16.00	-19.60	- 4. 9*	7.9	5.17.50.21	2.16.14	A	
$\tau$	4.10.32	B -3.16.80	-19.68	- 4. 0*	7.9	5.18. 9.37	0.33.21	A	
$e$	1.40.55	A +3.17.20	+19.72		8.2	5.21. 1.44	5.42.10	A	
$\nu$	0.29.58	B -3.18.00	-19.80		8.0	5.21.41.22	3. 2.51	A	
I. $\xi$	4.35.26	B -3.19.10	-19.91	- 1. 8*	8.3	5.19.58.42	6. 6.50	B	
$\nu$	7.52.25	B -3.19.20	-19.92	+59. 4*	8.2	5.20.48. 6	4.35.52	B	
$\delta$	15.54.47	B -3.19.50	-19.95	- 3. 5	8.9	5.18.17.17	12.17. 8	B	
$\beta$	3. 7. 3	B -3.20.00	-20.00	- 2. 7	8.0	5.23.45.37	0.41.36	B	
$\gamma$	55. 1.44	B -3.19.90	-19.99	- 1. 8	16.6	4.27. 5.26	47. 7.28	B	
$\pi$	7.57. 9	B -3.20.30	-20.03	+53. 3*	8.3	5.24.12.13	6. 9.21	B	
$\delta$	58.22. 6	B -3.20.50	-20.05	- 1. 4	17.4	4.27.39.52	51.38.36	B	
$\gamma$	16.12.27	A +3.20.40	+20.04	- 3. 5	9.4	6. 7.23.41	14.29.17	A	
$\eta$	0.40. 8	E -3.20.50	-20.05	+78.0*	8.0	6. 1.11.50	1.14.57	B	
$\eta$	0.40. 7	E -3.20.00	-20.00	- 9. 0	8.0	6. 1.29. 6	1.22.24	B	

Nr Rel- læ.	Nomen stellæ.	Ascensio recta.			Variatio 10 annorum in Ascensionem rectam.	Variatio annua in Ascensionem rectam.	Differentia de la Caille.	Aberra- tio ma- xima in Ascen- sionem rectam.			
		S.	G.	M.	3	M.	S.	C.	S.	D.	S.
106	ε Virginis	3	6	2	2	32	7 41 00	46 10	+ 1 9*	18	4
197	κ Draconis	3	6	5	46	32	6 42 80	40 28		56	7
198	χ Virginis	5	6	6	43	19	7 44 50	46 45	+ 0 7*	18	5
199	γ Virginis	3	6	7	22	47	7 42 00	46 20	- 1 8	18	4
200	δ Virginis	5	6	10	28	32	7 47 00	46 70	- 0 8*	18	6
201	δ Virginis	3	6	10	52	54	7 38 70	45 87	- 4 2	18	5
202	ε Virginis	3	6	12	33	31	7 34 20	45 42	+ 5 5	18	8
203	θ Virginis	5	6	13	50	21	7 49 70	46 97	- 4 6*	18	6
204	θ Virginis	4	6	14	23	16	7 45 60	46 56	+ 1 5	18	6
205	Spica Virginis	1	6	18	8	44	7 52 70	47 27	- 3 0	18	8
206	ι Virginis	3	6	18	31	4	7 54 80	47 48	- 6 4*	18	9
207	ζ Ursæ majoris	4	6	18	33	12	6 6 50	36 65	+ 15 8	33	5
208	2 b. Virginis	5	6	18	52	44	7 47 70	46 77		18	6
209	m. Virginis	5	6	22	15	44	7 51 70	47 17	- 0 7*	18	7
210	η Ursæ majoris	2	6	24	31	1	6 0 80	36 08	- 0 6	29	4
211	α Draconis	2	6	29	28	28	4 5 00	24 50	+ 1 0	45	3
212	κ Virginis	4	7	0	1	50	7 44 50	46 45	+ 5 4	19	0
213	Arcturus	1	7	1	10	53	7 3 20	42 32	- 9 2	20	0
214	λ Virginis	4	7	1	32	26	8 4 70	48 47	+ 0 2	19	2
215	θ Bootis	4	7	4	15	32	5 12 20	31 22		31	4
216	μ Libræ	5	7	9	3	4	8 11 10	49 11	+ 0 5*	19	5
217	α Libræ	2	7	9	24	42	8 16 00	49 60	+ 3 4	19	7
218	2.2 Libræ	5	7	10	56	46	8 5 90	48 60	- 3 5*	19	4
219	18 Libræ	5	7	11	29	16	8 5 50	48 55	+ 3 2*	19	5
220	β Ursæ minoris	3	7	12	55	17	-0 52 80	-5 28	+ 14 8	75	0
221	1. ν Libræ	5	7	13	19	19	8 19 30	49 93	+ 0 7*	19	9
222	1. ι Libræ	3	7	14	38	51	8 30 00	51 00	+ 1 0*	20	2
223	β Libræ	2	7	16	1	57	8 3 30	48 38	+ 2 3	19	4
224	4 ζ Libræ	4	7	19	52	0	8 21 10	50 11	+ 51 6*	20	2
225	γ Libræ	3.4	7	20	32	5	8 20 00	50 00	- 0 2	20	0
226	4 Coronæ Boreal.	2	7	21	8	6	6 20 50	38 05	+ 8 2	22	0
227	42 Libræ	5	7	21	32	17	8 48 20	52 82		21	1
228	κ Libræ	4	7	22	2	34	8 36 00	51 60	- 5 0*	20	5
229	α Serpentis	2	7	23	7	5	7 21 50	44 15	- 2 9	19	6
230	1.A. Scorpion	5	7	24	48	51	8 56 50	53 65		21	4
231	λ Libræ	4	7	24	51	40	8 39 70	51 97	+ 1 4*	20	5
232	θ Libræ	4	7	25	2	58	8 30 10	51 01	+ 1 0*	20	2
233	ε Serpentis.	3	7	25	11	3	6 36 20	39 62		20	9
234	κ Scorpil	3	7	26	5	47	9 0 90	54 09	+ 0 6	21	7



Nomen Stellar.	Declinatio.			Variatio annorum in Declinatione		Variatio annua		Differentia a de la Caille.		aberra- tio ma- ximain Declina- tionem.		Longitudo.				Latitudo.		
	G.	M.	S.	M.	S.	S.	C.	S.	D.	S.	D.	S.	G.	M.	S.	G.	M.	S.
c	4.39.	2 B		-3.20.40		-20.04		-	13.2*	8.	2	6. 0. 1. 0				5. 4.42		A
x	71. 6.52	B		-3.19.60		-19.96				19.	3	4.12.52. 1 $\frac{1}{2}$				51.44.47 $\frac{1}{2}$		B
γ	6.40.13	A		+3.19.20		+19.92		-	11.3*	8.	0	6. 8.48.40 $\frac{1}{2}$				3.27.13 $\frac{1}{2}$		B
δ	0. 7.44	A		+3.19.00		+19.90		+	5.0	8.	0	6. 6. 49.31				2.48.57		B
ε	8.13.47	A		+3.17.20		+19.72		-	7.8*	7.	9	6.12.51.13				3.25. 8		B
ζ	4.42.27	B		-3.17.00		-19.70		-	5.4	8.	3	6. 8. 8 4				8.38.20		B
η	12.15.17	B		-3.15.70		-19.57		-	4.3	9.	5	6. 6.36. 2				10.13.11		B
θ	9.27. 1	A		+3.14.80		+19.48		-	60.4	7.	8	6.16.23.46				3.14.48.		B
ι	4.15. 4	A		+3.14.30		+19.43		+	4.8	7.	9	6.14.53.19				1.45.33		A
κ	9.54. 4	A		+3. 9.70		+18.97		+	3.9	7.	6	6.20.29.40				2. 2.11		B
λ	11.27. 2	A		+3.10.10		+19.01		+	3.8*	7.	7	6.21.25.13				3.19.56		B
μ	56.11. 6	B		-3.10.10		-19.01		-	1.8	18.	3	5.12.17.26				56.22.10		B
ν	5. 0.29	A		+3. 8.60		+18.86				7.	6	6.19.19. 8				2.46. 9		B
ξ	7.28.58	A		+3. 5.60		+18.56		-	8.9*	7.	4	6.23.21.55 $\frac{1}{2}$				1.43.39		B
ο	50.31. 8	B		-3. 2.40		-18.24		-	0.7	17.	9	5.23.33. 6 $\frac{1}{2}$				54.23.45		A
π	65.31.43	B		-2.54.60		-17.46		-	1.9	19.	6	5. 4. 2.46				66.21.15 $\frac{1}{2}$		B
ρ	9. 8.40	A		+2.53.70		+17.37		+	4.8	7.	1	7. 1. 8.39				2.55.26		B
σ	20.26.32	B		-2.51.60		-17.16		+	15.7	12.	3	6.20.53.12				30.54.10 $\frac{1}{2}$		B
τ	12.15.12	A		+2.51.00		+17.10		-	2.4	6.	9	7. 3.35.13				0.30.39		A
υ	52.58.11	B		-2.45.80		-16.58				18.	5	5.29.11.51				60. 8.50		B
φ	13. 8. 3	A		+2.35.80		+15.58		-	8.6*	6.	3	7.10.49.15				2. 3.30 $\frac{1}{2}$		B
χ	15. 1.45	A		+2.35.00		+15.50		+	1.7	6.	3	7.11.44.19				0.21.48		B
ψ	10.25.31	A		+2.31.50		+15.15		-	155.0*	6.	3	7.11.45.39				5.12.17		B
ω	10. 9.48	A		+2.30.30		+15.03		-	5.1*	6.	3	7.12. 6.53 $\frac{1}{2}$				6.17. 9		B
ι	75. 8.17	B		-2.26.80		-14.6		-	7.4	20.	0	4. 9.53.18				72.58.10		B
κ	15.18.35	A		+2.25.90		+14.59		-	8.5*	6.	1	7.15.25.27				1.13.26 $\frac{1}{2}$		B
λ	18.51.59	A		+2.22.70		+14.27		+	1.3*	5.	8	7.17.39.27				1.49.14		A
μ	8.28.52	A		+2.19.30		+13.93		+	4.0	6.	4	7.16. 1.35				8.31.28		B
ν	16. 1.12	A		+2. 8.90		+12.89		-	9.0*	5.	3	7.21.40.56				2.15.56		B
ξ	13.58.15	A		+2. 7.00		+12.70		+	1.0	5.	6	7.21.46.59				4.24.41		B
ο	27.32.11 $\frac{1}{2}$	B		-2. 6.00		-12.60		-	4.0	14.	7	7. 8.54.48				44.21. 0		B
π	23. 1. 3	A		+2. 4.80		+12.48				5.	2	7.24.58.22				4. 6.31		A
ρ	18.52.51	A		+2. 3.40		+12.34		-	7.1*	4.	9	7.24.24.37				0. 1. 1		B
σ	7.11.49	B		-2. 0.30		-12.03		-	5.0	9.	8	7.18.42.52				25.31.44		B
τ	24.35.22	A		+1.55.60		+11.56				5.	1	7.28.16.14				4.55. 0		A
υ	19.25.49	A		+1.55.40		+11.54		+	6.7*	4.	6	7.27. 7.36				0. 6.53		B
φ	16. 0.18	A		+1.55.00		+11.50		+	8.5*	4.	9	7.26.31. 2				3.29.24		B
χ	21.42.51	B		-1.54.50		-11.45				13.	6	7.16. 9.24				40. 1.35 $\frac{1}{2}$		B
ψ	25.23.41	A		+1.51.90		+11.19		-	24.8	4.	9	7.29.35.25				5.26.15		A



Nr. Stellæ.	Nomen Stellæ & Character		Ascensio recta.			Variatio in annorum in Ascensionem rectam.		Variatio annua in Ascensionem rectam.		Differentia a de la Caille.		Aberratio maxima in Ascensionem rectam.			
			S.	G.	M.	S.	M.	S.	C.	S.	D.	S.	D.		
235	♄ Libræ	4	7	26	11	53	8	22	00	50	20	+ 5	5*	20	2
236	♏ Scorpii	3	7	26	32	47	8	49	00	52	90	- 0	7	21	0
237	♏ Scorpii	2	7	27	52	49	8	41	00	52	10	- 3	2	20	6
238	♍ Scorpii	5	7	28	12	9	8	43	60	52	36	+ 0	5*	21	1
239	♍ Scorpii	5	7	28	20	37	8	44	40	52	44	+ 1	9*	21	1
240	♌ Herculis	5	7	28	50	11	4	39	70	27	97			28	
241	♏ Scorpii	4	7	29	31	18	8	40	70	52	07	+ 3	0	20	7
242	♏ Ophiuchi	3	8	0	26	54	7	51	10	47	11	+ 2	4	19	6
243	♏ Scorpii	5	8	1	33	35	7	58	70	53	87			21	4
244	♏ Scorpii	4	8	1	39	40	9	4	20	54	42	- 3	4	21	6
245	♏ Ophiuchi	5	8	2	31	27	8	44	40	52	44	+ 1	1*	20	8
246	♏ Ophiuchi	5	8	2	48	34	8	56	80	53	68	+ 3	9*	21	4
247	♏ Antares	1	8	3	41	09	9	8	90	54	89	- 3	1	21	9
248	♏ Ophiuchi	4	8	4	21	24	8	34	00	51	40	- 4	2*	20	5
249	♏ Ophiuchi	5	8	4	29	14	8	50	80	53	08	+ 3	6*	21	1
250	♏ Scorpii	4	8	5	14	48	9	17	40	55	74	- 0	8	22	2
251	♏ Scorpii	5	8	6	55	47	8	39	10	51	91				
252	♏ Ophiu. duplex	5	8	15	9	24	9	17	00	55	70			22	2
253	♏ Draconis	4	8	15	49	0	3	6	30	18	63			34	6
254	♏ Herculis	3	8	15	55	45	6	50	90	41	09	+ 2	4	20	6
255	♏ Ophiuchi	4	8	16	39	35	8	56	10	53	61	- 0	9*	21	3
256	♏ Ophiuchi	3	8	16	49	28	9	12	00	55	20	+ 2	2	21	8
257	♏ Ophiuchi	5	8	17	4	19	9	24	90	56	49			22	6
258	♏ Ophiuchi	4	8	17	56	4	9	8	90	54	82			21	8
259	♏ Ophiuchi	5	8	19	11	56	9	8	30	54	83			21	8
260	♏ Ophiuchi	2	8	20	57	4	6	53	00	41	30	+ 7	9	20	4
261	♏ Ophiuchi	4	8	21	12	13	8	9	60	48	96			20	2
262	♏ Draconis	3	8	21	15	23	3	23	60	20	36	+ 2	2	32	8
263	♏ Ophiuchi	5	8	22	15	59	9	0	00	54	00	- 4	5*	21	5
264	♏ Sagittarii	3	8	23	7	5	9	26	50	56	65			22	6
265	♏ Sagit. dupl.	5	8	26	17	18	9	9	40	54	94			21	9
266	♏ Sagittarii	3. 4	8	27	36	0	9	40	00	58	00	- 2	2	23	1
267	♏ Draconis	2	8	27	45	50	3	25	60	20	56	+ 24	9	32	2
268	♏ Sagittarii	4	8	29	51	13	8	59	10	53	91	- 4	2	21	4
269	♏ Sagittarii	4	9	0	15	35	8	59	00	53	90	- 0	6*	21	4
270	♏ Sagittarii	6	9	1	24	27	9	37	00	57	70	+ 14	7	23	1
271	♏ Sagittarii	2	9	2	3	44	9	59	50	59	95	- 2	1	24	2
272	♏ Sagittarii	4	9	3	17	32	9	17	50	55	75	+ 3	0	22	3
273	♏ Lyræ	1	9	7	12	11 0	5	3	20	30	32	+ 3	6	25	6

Nomen stelle	Declinatio.			Variatio in annorum in Declina- tionem.		Variatio in Declina- tionem.		Differencia a de la Caille.		Aber- ratio maxima in Declina- tionem.		Longitudo.			Latitudo.		
	G.	M.	S.	M	S. C.	S. C.	S. D.	S. D.	S. D.	S.	G.	M.	S.	G.	M.	S.	
♃	13.34.	2	A	+1.51.50		+11.15	+ 4. 5*	5.0		7.27.	3.	3	6.	6.56	B		
	21.55.	2	A	+1.50.00		+11.00	- 2. 3	4.8		7.29.	13.	18	1.	57.17	A		
♄	19.	7.40	A	+1.47.00		+10.70	+ 0. 1	4.3		7.29.	50.	23	1.	2.18	B		
	19.59.	53	A	+1.45.60		+10.56	+ 0. 3*	4.3		8.	0.	19.13	0.	15. 5	B		
♅	20.11.	58	A	+1.45.20		+10.52	+45. 5*	4.3		8.	0.	29.31	0.	4.57	B		
	46.42.	31	B	-1.43.50		-10.38		18.5		7.	5.26.	12	64.	10.54	B		
♆	18.48.	58	A	+1.41.60		+10.16	+ 2. 1	4.2		8.	1.	17.40	1.	30.52	B		
	3.	3.27	A	+1.38.90		+ 9.89	+ 3. 7	7.1		7.28.	56.	58	17.	16.56	B		
♁	23.34.	2	A	+1.35.50		+ 9.55		4.0		8.	4.	5.20	2.	37.20	A		
	24.59	41	A	+1.35.30		+ 9.53	+ 9. 4*	4.1		8.	4.	27. 3	4.	0.23	A		
♂	19.27.	17	A	+1.32.50		+ 9.25	+ 6. 0*	3.8		8.	4.	12. 7	1.	35. 6 $\frac{1}{2}$	B		
	22.52.	18	A	+1.31.60		+ 9.16	- 6. 5*	3.7		8.	5.	5.19	1.	43.31	A		
♆	25.52.	34	A	+1.28.90		+ 8.89	- 1. 4	4.0		8.	6.	24.48	4.	32.17	A		
	16.	4. 2	A	+1.26.90		+ 8.69	+ 1. 2*	3.3		8.	5.	19. 0	5.	15.47	B		
♁	20.55.	51	A	+1.26.40		+ 8.64	- 5. 9*	3.6		8.	5.	5. 9	0.	27.32	B		
	27.41.	42	A	+1.24.10		+ 8.41	+ 6, 7	4.0		8.	8.	6.32	6.	5.21	B		
♂	26.13.	22	A	+2.51.40		+ 5.14		2.6		8.	16.	41.22 $\frac{1}{2}$	3.	26.13	A		
	54.47.	33	B	-0.49.10		- 4.91		19.2		7.22	58.	35	76.	25.53 $\frac{1}{2}$	B		
♁	14.40.	55	B	-0.48.70		- 4.87	- 2. 7	12.4		8.	12.	48. 0	37.	18.52	B		
	20.49.	50	A	+0.46.30		+ 4.63	+ 2. 9*	2.3		8.	17.	32.17	2.	3.34	B		
♂	24.44.	2	A	+0.45.70		+ 4.57	- 0. 9	2.2		8.	18.	2.45	1.	48.35	A		
	27.53.	2	A	+0.44.90		+ 4.49		2.7		8.	18.	23. 6	4.	55.37	A		
♁	23.55.	44	A	+0.41.90		+ 4.19		1.7		8.	18.	59. 1	0.	55.11	A		
	23.45.	8	A	+0.37.60		+ 3.76		1.6		8.	20.	7.22	0.	39. 9	A		
♁	12.45.	11	B	-0.31.50		- 3.15	- 6. 7	11.7		8.	19.	5.12	35.	52.49	B		
	7.57.	6	A	+0.30.70		+ 3.07		5.5		8.	20.	58. 7	15.	14.34	B		
♂	52.29.	19	B	-0.30.50		- 3.05	- 0. 3	19.3		8.	8.	35.32	75.	18.30	B		
	21.32.	30	A	+0.27.10		+ 2.71	+ 4. 0*	1.6		8.	22.	48.22 $\frac{1}{2}$	1.	44. 6 $\frac{1}{2}$	B		
♁	27.42.	45.6	A	+0.24.10		+ 2.41		2.0		8.	23.	53.34 $\frac{1}{2}$	4.	23.19	B		
	23.46.	6	A	+0.13.00		+ 1.30		0.8		8.	26.	36.12 $\frac{1}{2}$	0.	20.32	A		
♁	30.23.	57	A	+0. 8.40		+ 0.84	- 2. 2	2.5		8.	27.	54.53	6.	56.48	A		
	51.31.	37	B	-0. 7.80		- 0.78	+ 2. 0	19.3		8.	14.	38. 3	74.	57.28	B		
♁	21.	5.48	A	-0. 0.50		- 0.05	- 5. 4	0.9		8.	29.	51.48	2.	21.24	B		
	20.46.	29	A	-0. 0.50		- 0.05	+ 4. 3*	1.0		9.	0.	12.33	2.	41.42	B		
♁	29.54.	12	A	-0. 4.90		- 0.49	+ 1. 5	2.3		9.	1.	13.41	6.	26.27	A		
	34.28.	12 $\frac{1}{2}$	A	-0. 7.20		- 0.72	+ 3. 8	3.8		9.	1.	43.55	11.	0.45	B		
♁	25.31.	41	A	-0.11.50		- 1.15	- 2. 4	1.4		9.	2.	58.21	2.	5.31	A		
	38.34.	24	B	+0.25.20		+ 2.52	- 2. 6	17.7		9.	11.	57. 3	61.	44.40	B		

Nr. stelle.	Nomen stella & character.	Ascensio recta.				Variatio IO Annotum in Ascensio- nem rectam.	Variatio annua in Ascensio- nem rectam.	Differentia a de la Caille	Aberra- tio ma- xima in Ascensio- nem rectam.	
		S.	G.	M.	S.	M.	S.	C.	S.	D.
274	♄ Sagittarii	3	9	7	39 49	9	24 00	56 40	- 8 1	23 4
275	28 Sagittarii	5	9	7	57 59	9	4 30	54 43		21 6
276	c Draconis	5	9	9	29 44	2	56 20	17 62		53 6
277	1. v Sagittarii	4	9	9	55 9	9	6 00	54 60	+ 3 5 <sup>+</sup>	21 8
278	σ Sagittarii	3	9	10	5 40	9	20 00	56 00	+ 1 0	22 3
279	2 v Sagittarii	4	9	10	8 59	9	2 00	54 20	- 4 1*	21 3
280	β Lyrae	3	9	10	18 26	5	33 20	33 32	+ 8 2	23 8
281	1. ξ Sagittarii	6	9	10	46 8	8	57 50	53 75	+ 0 5*	21 4
282	2. ξ Sagittarii	5	9	10	51 5	8	57 00	53 70	- 3 8*	21 5
283	3 Serpentis dupl.	3	9	11	4. 27. 4. 25. }	7	28 40	44 84	+ 5. 8. i. } + 23. 8. i. }	20 0
284	ξ Sagittarii	4	9	11	49 59	9	36 00	57 60	+ 7 7	23 0
285	ο Draconis	4	9	11	54 46	2	14 00	13 40		38 7
286	ο Sagittarii	3	9	12	34 26	9	1 00	54 10	+ 3 4	21 5
287	τ Sagittarii	3	9	12	59 9	9	26 00	56 60	+ 4 1	22 6
288	ζ Aquilæ	3	9	13	35 50	6	54 90	41 49	+ 7 0	20 4
289	π Sagittarii	4	9	13	52 14	8	57 50	53 75	+ 0 7	21 3
290	↓ Sagittarii	4	9	15	12 11	9	32 00	57 20		22 1
291	9 Sagittarii	4	9	15	53 43	8	45 00	52 50	- 8 6 <sup>+</sup>	21 0
292	1. χ Sagittarii	5	9	17	39 48	9	15 50	55 05		21 8
293	κ Cygni	4	9	17	53 20	3	25 50	20 55 <sup>?</sup>		33 1
294	δ Draconis	3	9	18	6 35	0	7 50	05	+ 8 2	
295	δ Aquilæ	3	9	18	20 56	7	33 00	45 30	- 1 7	19 9
296	2 h. Sagittarii	5	9	20	31 10	9	10 70	55 07		21 9
297	1 Cygni	4	9	20	54 49	3	48 60	22 86		31 6
298	9 Cygni	4	9	22	30 0	6	3 60	24 36		30 9
299	f. Sagittarii	5	9	23	5 6	8	50 00	53 00	- 3 6 <sup>+</sup>	21 0
300	γ Aquilæ	3	9	23	42 47	7	9 30	42 93	+ 10 0	20 0
301	δ Cygni	3	9	24	22 9	4	41 90	28 19	+ 1 0	28 1
302	α Aquilæ	1	9	24	46 0 7	7	15 40	43 54	- 1 6	20 0
303	ω Sagittarii	5	9	25	16 31	9	13 60	55 36		22 1
304	b Sagittarii	4	9	25	32 52	9	17 20	55 72		22 2
305	β Aquilæ	3	9	25	52 53	7	23 30	44 33	- 0 4	19 8
306	α Sagittarii	5	9	26	4 34	9	12 60	55 26		22 2
307	ε Draconis	5	9	27	20 27	0	19 20	- 1 92		56 6
308	3 Aquilæ	3	9	29	43 46	7	46 40	46 64	+ 2 1	19 6
309	ε Draconis	5	10	0	24 52	0	50 60	5 06		50 5
310	1. α Capricorni	4	10	1	4 57	8	22 00	50 20	+ 5 5	20 1
311	2. α Capricorni	3	10	1	10 51	8	22 00	50 20	+ 5. 59. 5	20 1



Nomen Stellaris	Declinatio.		Variatio in Declin.	Variatio annua in Declin.	Differentia a de la Caille.	aberra- tio, maxi- ma in De- clin.	Longitudo.		Latitudo.	
	G.	M. S.	M. S.	S. C.	S. D.	S.	S.	G. M. S.	G. M. S.	
Φ	27.12.40	A	-0.26.50	- 2.68	- 3. 0	1.7	9.	6.49.38	3. 55.22	A
	22.37. 4	A	-0.27.80	- 2.78		1. 4	9.	7.21. 2	0. 38.56	B
	55 18.12	R	+0.23.10	+ 3.31		19. 6	9.	26.35.55	77.53.35	B
	23. 0.56	A	-0.34.50	- 3.45	+15. 3*	1. 6	9.	9. 7.21	0. 8.26	B
	26.34. 8	A	-0.35.40	- 3.54	- 4. 9	1. 9	9.	9. 2. 7	3. 24.55	A
β	22.56.47	A	-0.35.40	- 3.54	+19. 2*	1. 6	9.	9.20.21	2. 11.41	E
	33. 6.12	B	+0.35.90	+ 3.59	+ 9. 5	19. 6	9.	15.33.17	6. 1. 2	B
	20.56.45	A	-0.37.50	- 3.75	- 5. 2*	2. 0	9.	10. 3.24	2. 8.54	B
	21.23.52	A	-0.37.50	- 3.75	+ 4. 5*	2. 0	9.	10. 5.59	1. 41.32	B
	22.54.31	B	+0.38.50	+ 3.85	- 13. 8.1	9. 2	9.	12. 24. 22	26. 54. 8.1	B
γ	13.54.37	B	+0.38.50	+ 3.85	- 7. 8.1	9. 2	9.	12. 24. 53	26. 54. 13.1	B
	30.11.50	A	-0.41.10	- 4.11	- 1. 9	2. 9	9.	10.17.23	7. 8.58	B
	59. 6. 5	R	+0.41.40	+ 4.14		19. 8	10.11	29.30	80.49.25	B
	22. 4. 9	A	-0.43.60	- 4.36	- 5. 0	1. 9	9.	11.38.26	0. 53.36	B
	27.59.43	A	-0.45.00	- 4.50	- 3. 5	2. 3	9.	11.29.22	5. 2.33	A
δ	13.31.28	B	+0.43.50	+ 4.35	- 6. 3	11. 9	9.	16.27.33	36.13.11	A
	21.22.53	A	-0.48.00	- 4.80	- 4. 6	2. 2	9.	12.54.11	1. 28. 7	B
	25.38.43	A	-0.52.60	- 5.26		2. 4	9.	13.41.33	2. 53.45	B
	19.21.26	A	-0.53.00	- 5.30	+ 6. 4*	2. 7	9.	15. 0. 1	5. 17.15	B
	24.57. 7	A	-1. 0.00	- 6.09		2. 8	9.	15.58.59	2. 27.29	A
ε	52.56. 1	B	+1. 1.60	+ 6.16		19. 4	10.11	37.30	73.48.57	B
	67.14.27	R	+1. 2.30	+ 6.23	+ 2. 9	20. 0	0.	14. 0 5	82.52.51	B
	2. 39.16	B	+1. 3.10	+ 6.31	- 7. 3	8. 8	9.	20.16.30	24.50.26	B
	25.23.29	A	-1.10.30	- 7.03		3. 0	9.	18.29.31	3. 13.50	B
	51.13.39	R	+1.11.60	+ 7.16		19. 2	10.14	40.38	71.27.44	R
ζ	49.40.27	R	+1.16.80	+ 7.68		19. 1	10.15	20. 1	69.37.21	B
	20.19. 2	A	-1.18.60	- 7.86	+ 3. 9*	3. 4	9.	21.34.52	1. 26.16	B
	10. 2.44	R	+1.20.70	+ 8.07	- 0. 5	10. 8	9.	27.35.58	31.16. 8	B
	44.33. 21	B	+1.22.70	+ 8.27	- 3. 1	18. 0	10.12	56.24	65.25.53	B
	8. 15. 5	B	+1.24.00	+ 8.40	- 4. 1	10. 3	9.	28.23.21	29.18.36	B
η	26.54.49	A	-1.25.60	- 8.56		4. 0	9.	22.29. 1	5. 23.50	A
	27.46.59	A	-1.26.40	- 8.64		4. 2	9.	22.34.23	6. 17.44	A
	5. 49.32	R	+1.27.60	+ 8.76	- 5. 9	9. 7	9.	29. 5.17	26.42.59	B
	26.49.21	A	-1.28.10	- 8.81		4. 0	9.	23.12.22	5. 25.54	A
	69.39.33	B	+1.31.70	+ 9.17		20. 0	0.	29.29. 2	79.28.30	B
θ	1. 30.57	A	-1.39.50	- 9.95	+ 2. 8	7. 6	10.	1.34. 4	18.45. 5	B
	67.11.30	I	+1.41.50	+10.15		20. 0	0.	17. 7.40	78. 8.59	A
	13.13.54	A	-1.44.00	-10.40	- 2.22.5	4. 8	10.	0.21.16	7. 0.44	B
	13.16.13	A	-1.44.00	-10. 0	- 3. 5	4. 8	10.	0.30.27	6. 57.16	B



Nr. Stelle. 12.	Nomen Stelle & Character.	Ascensio recta				Variatio in Annum in Asc. rectam.		Variatio annua in Asc. rectam.		differentia a de la Caille.		Aberratio maxima in Ascensionem rectam.	
		S.	G.	M.	S.	M.	S.	C.	S.	C.	S.		D.
312	♄ Capricorni	5	10	1	22	43	8	43	50	52	55	- 8 9	20 8
313	♄ Capricorni	3	10	1	52	34	8	23	00	50	30	+ 7 8	20 4
314	♄ Capricorni	5	10	3	47	15	8	37	80	51	73	+ 2 4 <sup>+</sup>	20 6
315	♄ Capricorni	5	10	6	35	19	8	37	00	51	70	- 6 7 <sup>+</sup>	20 5
316	♃ Delphini	1	10	7	7	27	6	58	70	45	87	+ 8 2	20 1
317	♃ Cygni	3	10	8	18	51	5	7	50	30	75	+ 7 8	27 0
318	♃ Aquarii	4	10	8	40	1	8	10	50	49	05	- 2 6 <sup>+</sup>	19 6
319	♃ Cygni	3	10	9	7	39	6	0	40	36	04	+ 20 9	23 1
320	♃ Aquarii	4	10	9	55	23	8	8	70	48	87	- 2 1 <sup>+</sup>	19 6
321	♄ Capricorni	4	10	10	18	10	8	33	90	51	39	- 1 8 <sup>+</sup>	20 5
322	♄ Capricorni	5	10	12	40	44	8	37	80	51	78	+ 0 1 <sup>+</sup>	20 7
323	♄ Capricorni	4	10	13	6	26	8	30	00	51	00	+ 0 4 <sup>+</sup>	20 3
324	♄ Capricorni	5	10	13	41	40	8	40	70	52	07	- 1 3 <sup>+</sup>	20 8
325	♃ Aquarii	5	10	14	7	30	8	3	00	48	30	- 8 9 <sup>+</sup>	19 6
326	♄ Capricorni	5	10	15	29	5	8	37	40	51	74	+ 1 3 <sup>+</sup>	20 6
327	♄ Capricorni	5	10	15	36	34	8	22	40	50	24		20 0
328	♃ Equulei	5	10	15	57	23	7	31	40	45	14	+ 18 9	19 2
329	♄ Capricorni	5	10	17	12	50	8	25	60	50	56	+ 2 3 <sup>+</sup>	20 1
330	♄ Cephei	3	10	18	12	28	3	35	50	21	55	+ 14 0	39 9
331	♄ Capricorni	4	10	18	13	42	8	39	70	51	97		20 8
332	♄ Capricorni	5	10	18	45	5	8	37	40	51	74	+ 1 2 <sup>+</sup>	20 7
333	♃ Aquarii	3	10	19	43	40	7	57	00	47	70	- 7 0	19 2
334	♄ Capricorni	4	10	20	54	11	8	29	00	50	90	+ 6 7 <sup>+</sup>	20 4
335	♃ Aquarii	5,6	10	21	14	24	8	1	50	48	15	- 5 0 <sup>+</sup>	19 2
336	♃ Cygni	4	10	21	14	34	5	38	30	33	83		26 6
337	♄ Cephei	3	10	21	28	13	2	6	70	12	67	+ 36 6	54 2
338	♄ Capricorni	4	10	21	41	28	8	22	00	50	20	+ 8 0	20 0
339	♄ Capricorni	5	10	22	18	23	8	26	20	50	62	- 0 2 <sup>+</sup>	20 3
340	♄ Capricorni	5	10	23	23	57	8	8	20	48	82	+ 2 6 <sup>+</sup>	19 4
341	♄ Capricorni	3	10	23	26	30	8	19	00	49	90	+ 2 8	19 8
342	♃ Cygni	5	10	24	29	11	5	31	40	33	14		28 3
343	♄ Capricorni	5	10	25	2	46	8	12	00	49	20	- 5 1 <sup>+</sup>	19 6
344	♃ Aquarii	5	10	27	43	23	7	47	50	46	75	- 5 8 <sup>+</sup>	19 0
345	♃ Aquarii	5	10	28	21	47	8	10	00	49	00	+ 1 9 <sup>+</sup>	19 5
346	♃ Aquarii	5	10	28	21	47	7	45	00	46	50	+ 0 2	18 9
347	♃ Aquarii	5	10	28	56	50	8	18	70	49	87		20 0
348	♃ Aquarii	4	11	1	2	20	7	57	20	47	72	- 2 3 <sup>+</sup>	19 0
349	♃ Aquarii	5	11	1	53	20	7	57	00	47	70	- 1 2 <sup>+</sup>	18 9

Nomen stellae	Declinatio.	Variatio in annorum in Declina- tionem.	Variatio annua in Declina- tionem.	Differentia a de la Caille	aberra- tio ma- xima in De- clinatio- nem	Longitudo.	Latitudo.
	G. M. S.	M. S. C.	S. C.	S. D.	S. P.	S. G. M. S.	G. M. S.
σ	19.50.54 A	-1 44.30	-10.43	- 0. 2 <sup>y</sup>	4.2	9. 29. 19. 33 - 29. 23. 0	10. 28. 48. B 10. 28. 48. B
β	5.31.15 A	-1.46.00	-10.60	+ 1. 0	4.5	10. 0.41.45	4.36.46 B
γ	18.35.18 A	-1.51.50	-11.15	- 5. 7 <sup>y</sup>	4.5	10. 1.49. 5	1 13.22 B
υ	18.57.57 A	-1.59.60	-11 96	+ 0. 5 <sup>y</sup>	4.8	10. 4 18.46	0.14.49 B
α	15. 4.47 B	+2. 1.00	+12.10	- 5. 5	11.9	10.14. 2.34	33. 2.32 B
ε	44 25.58 B	+2. 4.40	+12.44	- 1. 7	18.1	11. 2. 1.43	59.54.58 <sup>1</sup> / <sub>2</sub> B
ζ	10.21.28 <sup>1</sup> / <sub>2</sub> A	-2. 5.30	-12 53	- 3. 1 <sup>*</sup>	6.0	10. 8.22.31	8. 6.16 B
η	33. 4.54 B	+1. 6.60	+12.66	- 6. 1	16.0	10.24.22.48	49.25.27 B
μ	9.52. 3 <sup>1</sup> / <sub>2</sub> A	-2. 8.70	-12.87	- 2. 5 <sup>*</sup>	6 0	10. 9.40.40	8.16.18 B
ι9	18.48.58 A	-2. 9.80	-12.58	- 4. 5 <sup>y</sup>	5.1	10. 7.45.17	0.28.41 A
η	20.47.14 A	-2.15.90	-13.59	+ 0. 4 <sup>y</sup>	5.5	0. 9.23.29	2.58 10 A
θ	18.10.13 A	-2 17.10	-13.71	- 1 2 <sup>*</sup>	5.4	10.10.29.13	0.33.37 A
κ	22. 8.36 A	-2.18.50	-13.55	+ 5. 3	5.9	10. 9.55.51	4.31.56 A
υ	12.19.43 A	-2.19.40	-13.94	- 3 1 <sup>*</sup>	5.8	10.13. 2,36	4.47.11 B
φ	21.37.59 A	-2.23.00	-14.30	+ 3. 1 <sup>*</sup>	6.0	10.11 40.27 <sup>1</sup> / <sub>2</sub>	4.30.30
χ	16. 9.13 A	-2.23.30	-14.33	- 6. 4	8.8	10 13.20 53	0.42.40 A
ψ	4.16. 7 B	+2.24.20	+14.42	- 6. 4	8.8	10.19.46.33	20 .8.39 <sup>1</sup> / <sub>2</sub> A
ω	17 50.31 A	-2.27.20	-14.7	+ 1. 6 <sup>*</sup>	5.9	10.11 19.18 <sup>1</sup> / <sub>2</sub>	1.20.53
α	61.34.33 B	+2.29.50	+14.95	+ 1. 9	6.6	0. 9.29. 1	68.54.43 B
β	23.26. 9 A	-2.39.60	-14.96	- 3 1 <sup>*</sup>	6.5	10 13.34. 2	6.58.21 A
γ	22.50.16 A	-2.39.80	-15.08	+14. 1 <sup>*</sup>	6.5	10.14.13.24	6.32.46 A
δ	6 .36.51 A	-2.33 00	-15.00	+ 2. 2	6.8	10.20. 2.54	8.37.54 B
ε	20.31.40 A	-2.36.00	-15 60	- 4. 5 <sup>*</sup>	6.5	10.16.50.50	4 57.31 A
ζ	8. 55. 3 A	-2.36.40	-15.64	- 6. 5 <sup>*</sup>	6.6	10.20.45.55	5.58.39 B
					Dubia.		
β	44.32.22 B	+2.36.40	+ 5 64		17.5	11 16 50.28	55.11.37 B
γ	59.30.38 B	+2.36.60	+ 5.66	+ 1. 8	19.9	1. 2.15.53	71 7.57 <sup>1</sup> / <sub>2</sub> B
δ	17. 3.59 A	-2.37.00	-15.76	- 4. 1	6.3	10.18.25.43	2.32. 6 A
ε	19.56.49 A	-2.38.70	-15.87	- 3. 1 <sup>*</sup>	5.6	10.18.17. 5	4.49.10 A
ζ	12.27.39 A	-2.41.00	-16. 0	- 1. 3 <sup>*</sup>	6.5	10.21.39.37 <sup>1</sup> / <sub>2</sub>	1.56.42 B
η	17.12.13 A	-2.41.00	-16 10	- 0. 3	6 6	10.20.10 55	2 33.40 A
θ	48.12.27 B	+2.43.30	+ 6.32		18.0	11.23 52.47	56.56.11 B
ι	14.40. 8 A	-2.44.40	-16.44	+ 0. 8 <sup>*</sup>	6.6	10.22.27.44	0.40. 3 A
κ	3.18.13 A	-2.49. 0	-16.96	+ 6. 0 <sup>*</sup>	7.6	10.28.45.41	9.10.33 I
λ	15. 12.3 A	-2.50.70	-17 07	- 2. 3 <sup>*</sup>	6.9	10.25.22. 7	2. 3.47
μ	1.28.33 A	-2.51.00	-17.10	+ 1. 7	7.8	11. 0. 0.27	10.40.25 A
ν	19.41. 0 A	-2.51.80	-17.18		7.3	10.24.17.56	6.38. 1
ξ	8.58. 5 A	-2.55.40	-17.54	+ 3. 0 <sup>*</sup>	7.2	10.29.54.32	2.43.22 I
ο	9. 1.10 A	-2.56.90	-17.69	+ 7. 7 <sup>*</sup>	7.2	11. 0 40.41	2.21.50 I

Nr. stellæ	Nomen stellæ & character.	Ascensio recta.	Variatio in annorum in Ascensionem rectam		Variatio in annorum in Ascensio. rectam.		Differenti- a de Cælie.	Aberra- tio ma- xima in Ascen- sionem rectam.
			S. G. M. S.	M. S. C.	S. C.	S. D.		
350	γ Aquarii	3	11 2 18 49	7 46 00	46 60	- 2 1	18 7	
351	π Aquarii	4	11 3 15 16	7 41 70	46 17		18 7	
352	ζ Aquarii	4	11 4 7 1	7 43 70	46 37	- 6 3*	18 7	
353	6 Aquarii	5	11 4 28 55	8 0 00	48 00	- 3 6*	19 1	
354	7 Lacertæ	4	11 5 21 45	6 5 40	36 54		28 4	
355	υ Aquarii	5	11 5 22 48	3 15 50	49 55	- 0 5*	20 0	
356	η Aquarii	4	11 5 45 18	7 0 00	42 00	-26 7*	18 6	
357	κ Aquarii	5	11 6 19 48	7 49 50	46 95	+ 0 5*	18 7	
358	ι r. Aquarii	5	11 8 44 17	8 0 30	48 03	+ 1 6*	19 2	
359	2 τ. Aquarii	4	11 9 12 59	8 0 70	48 07	+ 0 9*	19 2	
360	λ Aquarii	4	11 10 1 18	7 52 50	47 25	- 3 6	18 8	
361	Cephei	4	11 10 17 54	5 13 20	31 32		13 8	
362	δ Aquarii	3	11 10 28 24	8 2 50	48 25	+ 6 0	19 4	
363	Fomalhaut	1	11 11 5 5	8 20 60	50 06	+ 2 2	21 6	
364	β Piscium	4	11 12 55 2	7 39 20	45 92	- 1 2*	18 5	
365	β Pegasi	2	11 13 2 40	7 12 50	43 25	+15 8	20 8	
366	1. h Aquarii	6	11 13 9 31	7 51 00	47 10	- 6 5*	18 7	
367	2. h Aquarii	7	11 13 12 7	7 51 00	47 10		18 7	
368	α Pegasi	2	11 13 12 23	7 27 50	44 75	+ 8 0	19 0	
369	3. h. Aquarii	7	11 13 20 32	7 50 80	47 08		18 7	
370	Φ Aquarii	4	11 15 28 18	7 48 30	46 83	- 0 2	18 6	
371	1. ψ. Aquarii	5	11 15 49 36	7 50 80	47 08	0 0	18 7	
372	χ Aquarii	6	11 16 6 3	7 49 50	46 95	+ 0 7*	18 7	
373	2. ψ. Aquarii	5	11 16 21 18	7 50 70	47 07	+ 1 2*	18 8	
374	3. ψ Aquarii	5	11 16 36 58	7 50 80	47 08	- 2 6*	18 8	
375	96 Aquarii	5	11 16 44 13	7 46 90	46 69		18 6	
376	9 Cassiopeæ	5	11 18 34 10	6 30 20	39 02		37 9	
377	1. x Piscium	5	11 18 39 34	7 41 80	46 18	+ 5 2*	18 4	
378	1. λ Andromedæ	4	11 21 28 16	7 11 90	43 19		26 0	
379	λ Piscium	5	11 22 27 10	7 41 60	46 16	+ 4 7*	18 4	
380	19 Piscium	5	11 23 32 9	7 40 90	46 09	+ 2 9*	18 4	
381	27 Piscium	5	11 26 35 49	7 40 00	46 00	- 1 1*	—	
382	ω Piscium	4	11 26 45 4	7 43 00	46 30	+ 1 9*	18 4	
383	29 Piscium	5	11 27 22 56	7 42 50	46 25	+ 1 2*	18 4	
384	30 Piscium	5	11 27 24 47	7 43 00	46 30	+ 1 8*	18 4	
385	33 Piscium	5	11 28 15 47	7 42 50	46 25	- 2 0*	18 5	
386	α Andromedæ	2	11 29 0 25	7 40 00	46 00	+ 4 1	18 7	
387	β Cassiopeæ	3	11 29 7 40	7 37 00	45 70	+22 5	34 6	



Nomen Stelle	Declinatio		Variatio io Anorum in Declinationem.		Variatio annua in Declinationem.		Differencia à de la Caille.		Aber- ratio maxi- ma in Declina- tionem.		Longitudo.		Latitudo.	
	G. M. S.		M. S. C.		S. C.		S. D.		S. C.		S. G. M. S.		G. M. S.	
γ	0.35.18	A	-2.57.60	-17.76	+ 4. 5	7. 7	II. 3.21.37 $\frac{1}{2}$	8.14.48	B					
α	0.1 5	B	+2.59.10	+17.91		8. 0	II. 5. 7.49 $\frac{1}{2}$	10.10.15	B					
β	1 14.24	A	-3. 0.40	-18.04	+ 4. 9*	7. 9	II. 5.33. 4	8.51.25	A					
3	11.53.52	A	-3. 0.90	-18.09	- 1. 9*	7. 2	II. 2. 2.18	1.12.56	A					
6	49. 3.18	B	+3. 2.30	+18.23		17. 7	0. 4.49.14	53.17.16	B					
7	21.15.42	A	-3. 2.30	-18.23	-40.15.4*	8. 2	10.29.10.39	10.52.27	A					
η	1.20.48	A	-3. 5.80	-18.58	+ 2. 1*	7. 8	II. 7. 3.12 $\frac{1}{2}$	8. 9.36	B					
κ	5.27.30	A	-3. 3.70	-18.37	- 6. 6*	7. 5	II. 6. 4.35	4. 7.26	B					
17	15.18.52	A	-3. 6.80	-18.68	-50. 5*	7. 7	II. 4.38.28	5.54.36 $\frac{1}{2}$	A					
2 τ	14.51. 9	A	-3. 7.50	-18.75	- 4. 3*	7. 7	II. 5.14.43	5.39.15	A					
λ	8.51. 0	A	-3. 8.40	-18.84	+ 2. 0	7. 6	II. 8.13.32 $\frac{1}{2}$	0.22.56 $\frac{1}{2}$	A					
ι	54.56.31	B	+3. 8.80	+18.88		19. 2	0.29.57.24	62.35.53 $\frac{1}{2}$	B					
δ	17. 5.27	A	-3. 9.00	-18.90	+ 0. 8	8. 0	II. 5.31.25	8.10.58	A					
β Form	30.53.14	A	-3. 9.70	-18.97	+ 2. 0	10. 3	II. 0.28.55	21. 6.28	A					
β	2.31.58	B	+3.11.70	+19.17	+ 3. 5*	8. 9	II.15.15.25 $\frac{1}{2}$	9. 3.24	B					
1 h	26.47. 8	B	+3.11.80	+19.18	+ 0. 5	12. 9	II.26. 1.34	31. 8. 6	B					
2 h	8.59. 2	A	-3.12.00	-19.20	-10. 0*	7. 6	II.11. 2.42	1.40.37 $\frac{1}{2}$	A					
α	9. 2.40	A	-3.12.00	-19.20		7. 5	II.11. 3.41	1.44.57 $\frac{1}{2}$	A					
5 h	13.55. 6	B	+3.12.00	+19.20	- 5. 1	10. 2	II.20. 8.38	19.24.37 $\frac{1}{2}$	B					
Φ	9.13.36	A	-3.12.00	-19.20		7. 6	II.11. 7.11 $\frac{1}{2}$	1.58.14	A					
1 ψ	7.20.18	A	-3.14.10	-19.41	+ 2. 6	7. 7	II.13.47.29	1. 2. 7 $\frac{1}{2}$	A					
χ	10.23.27	A	-3.14.40	-19.44	- 3. 1*	7. 9	II.12.56. 5 $\frac{1}{2}$	3.59.11	A					
2 ↓	9. 1.51	A	-3.14.70	-19.47	+ 0. 4*	7. 9	II.13.42.43	2.50.14	A					
3 ↓	10.29.18	A	-3.14.90	-19.49	- 1. 3*	7. 9	II.13.22.38	4.16.40	A					
96	10.55. 7	A	-3.15.10	-19.51	- 0. 1*	8. 0	II.13.26.44	4.46.26	A					
β	6.25.56	A	-3.15.20	-19.52		7. 8	II.15.18.20 $\frac{1}{2}$	0.40.22	A					
1 κ	60.58. 8	B	+3.16.60	+19.66		13. 6	0.28.39.45	57.10.27	B					
1 λ	0. 3.81	A	-3.16.60	-19.66	+ 2. 6*	8. 0	II.19.33.16 $\frac{1}{2}$	4.26.28	B					
λ	45. 9.37	B	+3.18.40	+19.84		15. 9	0.14.58.19	43.47.39	B					
19	0.27.40	B	+3.18.80	+19.88	+ 3. 3*	8. 0	II.23.15.12 $\frac{1}{2}$	2.26.37	B					
27	2. 9.22	B	+3.19.30	+19.93	- 5. 2*	8. 1	II.24.55.24	4.32.57	B					
ω	5.32. 7	B	+3.20.20	+19.93										
29	4.21.48	A	-3.20.30	-20.02	- 8. 4*	8. 4	II.29.13.54	6.22.13	B					
30	7.20.53	A	-3.20.30	-20.03	+ 6. 5*	8. 1	II.25.51.41	2.57.38	A					
33	7. 3. 0	A	-3.20.50	-20.05	- 1. 4*	8. 2	II.24.41.42	5.42.35	A					
α	27.45.41	B	+3.20.50	+20.05	- 3. 1	11. 7	0.10.57.59	25.40.52	B					
β	57.49.35	B	+3.20.50	+20.05	+ 2. 9	17. 5	1 .1.45.52	51.13.3	B					



Supplementum earum Stellarum, quæ in Catalogo Bradlejano non habentur  
 e Catalogo D. de la Caille ad Annum 1750.

Nomina Stellarum e Catalogo de la Caille.	Ascensio recta.	Variatio Anorum.	Declinatio pro Anno 1750.	Variatio Anorum.	Aberra-	Aberra-
					tioma- xima in Asc. rectam.	tioma- xima in Declina- tione.
	S. G. M. S.	M. S.	G. M. S.	M. S.	S.	S.
Polaris $\alpha$ 2	0.10.40.56.0	25 8 8	87.58. 2.4B	+ 3.17.0	51 9	19 8
Triang. $\alpha$ 4	0.24.43 25.4	8 27 0	21.21. 1.4B	+ 3. 2.2	21 2	9 4
Triang. $\beta$ 4	0.28.41.12.9	8 46 3	33.47.31.2B	+ 2.55.9	22 7	9 7
Triang. $\gamma$ 4	1. 0.37.58.2	8 47 3	32.40.39.0B	+ 2.52.5	22 4	9 4
Eridani $\epsilon$ 3	1.20.17.33.6	7 13 7	10.19.10.2A	- 2. 8.1	19 7	10 5
Plej Atlas f 5	1.23.35. 7.9	8 51 2	33.16. 2.6B	+ 1.59.0	21 2	5 0
Persei $\zeta$ 3	1.24.37. 1.8	9 20 5	31. 7. 5.4B	+ 1.56.1	22 7	6 1
Persei $\eta$ 3	1.25.17.21.3	9 56 6	39.15.43.6B	+ 1.54.2	25 1	8 0
Eridani $\iota$ 4.5	1.25.46.11.8	6 23 2	25.22. 8.0A	- 1.52.8	21 5	14 3
Eridani $\theta$ 4	1.29.55.23.9	7 19 0	7.30.24.3A	- 1.40.5	19 7	9 9
Eridani $\nu$ 3	2. 6.27.43.8	5 51 0	31. 5.22.9A	- 1.20.1	23 1	16 0
Eridani $\xi$ 3	2. 6.41.20.4	6 53 1	14.48.40.7A	- 1.19.4	20 4	12 2
Eridani $\zeta$ 3	2. 7.23. 9.7	6 33 8	20.10.14.5A	- 1.17.1	21 0	13 5
Orion $\eta$ 3	2.17.58.46.1	7 32 6	2.38.56.0A	- 0.41.7	19 9	8 9
Orion $\iota$ 3	2.20.48 16.5	7 20 7	6. 5.41.8A	- 0.32.1	20 1	9 8
Orion $\zeta$ 2	2.22. 2 34.3	7 34 5	2. 5.47 8A	- 0.27.8	20 0	8 7
Columb. $\alpha$ 2	2.23.59.12.7	5 26 5	34.13.21.2A	- 0.25.7	24 1	16 9
Columb. $\chi$ 3	2.23.58.59.0	7 7 4	9.46.39.5A	- 0.21.0	20 3	10 9
Leporis $\delta$ 3.4	2.25. 8.46.8	6 25 4	20.55.12.9A	- 0.17.0	21 4	13 9
Aurigæ $\beta$ 3	2.25.17 55.6	11 0 9	44.53.18.2B	+ 0.16.4	28 4	7 4
Columbæ $\beta$ 3	2.25.32 31.5	5 17 2	35.52.39.3A	- 0.15.6	24 7	17 2
Can. major $\zeta$ 3	3. 2.40.59. 7	5 46 3	29.58. 8.9A	+ 0. 9.4	23 1	16 1
Can. major $\beta$ 2	3. 2.55.26.0	6 37 3	17.51. 8.8A	+ 0.12.2	21 0	13 2
Can. major $\epsilon$ 3	3.12.12. 8.1	5 54 7	28.38.56.8A	+ 0.42.4	22 6	15 9
Can. major $\delta$ 2	3.14.33.27.1	6 7 1	26. 0.52.6A	+ 0.50.4	22 2	15 1
Can. minor $\beta$ 3	3.18.23.44.2	8 11 1	8.46.23.6B	- 1. 3.3	20 1	5 3
Argonav. $\zeta$ 3.4	3.24.41.47.2	6 19 7	24.15. 0.5A	+ 1.23.8	21 6	14 5
Argonav. $\epsilon$ 3.4	3.29.13.26.4	6 25 3	23.36. 3.7A	+ 1.37.9	21 5	14 2
Hydræ $\zeta$ 3.4	4.10.32.15.1	8 0 2	6.53.14.0B	- 2.10.3	19 4	6 5
Urfæ maj. $\nu$ 4	4.11.36.25.6	10 29 0	48. 7.26.7B	- 2.13.1	28 8	11 0
Leonis $\mu$ 3	4.24.37.18.8	8 41 4	27.10.14.9B	- 2.43.5	21 3	7 7
Crateris $\alpha$ 3	5.11.54.14.4	7 22 8	16.58.26.3A	+ 3.10.6	19 4	10 9

Supplementum earum Stellarum, quæ in Catalogo Bradlejano non habentur  
e Catalogo D. de la Caille ad Annum 1750.

Nomina Stellarum e Catalogo D. de la Caille.	Ascensio recta.	Variatio io annorum.	Declinatio Pro Anno 1750.	Variatio io annorum.	Aberra- tio ma- xima in ascen- rectam.	
					S.	S.
	S. G. M. S. D.	M. S.	G. M. S.	M. S.	S.	S.
Corvi $\alpha$ 4	5.28.53.34.0	7 40 2	23.20. 2.6A	+3 20 5	20 0	10 8
Corvi $\epsilon$ 4	5.29.19.47.5	7 40 9	21.13.41.6A	+3 20 5	19 8	10 3
Corvi $\delta$ 4	6. 4.14.32.0	7 45 8	15. 7.15.6A	+3 19 9	19 0	9 0
Corvi $\beta$ 3	6. 5.19.34.4	7 49 5	32. 0.36.7A	+3 19 6	19 8	9 9
Ursæ major. $\epsilon$ 2	6.10.44. 3.5	6 43 7	7.19.20.9B	-3 17 1	34 0	18 05
Hydræ $\gamma$ 3	6.16.20.49.1	8 5 0	21.50.40.5A	+3 12 4	19 8	8 9
Centauri $\iota$ 3	6.16.39.30.1	8 22 6	35.23. 5.2A	+3 12 1	22 5	7 6
Virginis $\zeta$ 3	6.20.29.33.2	7 41 0	0.41.29.5B	-3 7 8	18 5	8 5
bootis $\eta$ 3	6.25.41.32.3	7 10 7	19.39.46.6B	-3 0 7	19 8	11 5
Centauri $\theta$ 3	6.28. 1. 4.5	8 48 1	85. 7.33.2A	+2 57 0	22 8	10 3
Bootis $\gamma$ 3	7. 5.29.53.0	6 6 1	39.24.50.5B	-2 43 2	24 4	16 2
Bootis $\zeta$ 3	7. 7.18.12.2	7 9 6	13.48.57.3B	-2 39 5	19 6	9 7
Bootis $\epsilon$ 3	7. 8.31. 1.6	6 35 0	28. 8.31.7B	-2 36 9	21 6	12 5
Bootis $\beta$ 3	7.13. 7.55.9	5 41 0	41.23.18.7B	-2 26 4	25 2	17 2
Bootis $\delta$ 3	7.16.21.23.0	6 3 0	34.15.43.7B	-2 18 4	23 1	15 9
Draconis $\iota$ 3	7.19.50.57.6	3 17 9	59.51. 0.7B	-2 9 3	38 6	19 5
Ursæ mih. $\gamma$ 3	7.20.19.55.0	— 5 5	72.43.27.9B	-2 8 0	65 0	20 0
Serpentis $\delta$ 3	7.20.43. 8.6	7 10 5	11.23.32.3B	-2 6 9	19 8	10 9
Serpentis $\beta$ 3	7.23.39.51.8	6 54 8	16.13.20.0B	-1 58 8	20 3	12 1
Serpentis $\mu$ 4	7.24. 8.59.0	7 49 3	2.38.39.1A	+1 57 4	19 4	7 5
Serpentis $\epsilon$ 4	7.24.35.30.6	7 26 8	5.15. 0.6B	-1 56 2	19 6	9 1
Scorpii $\epsilon$ 4	7.25.22.42.3	9 11 5	28.27.32.7A	+1 53 9	22 2	5 2
Scorpii $\gamma$ 3	7.26.13.53.4	6 52 4	16.29.43.5B	-1 51 4	19 6	12 1
Draconis $\theta$ 4	7.29.18.32.7	2 52 1	59.14.23.8B	-1 42 2	33 4	19 6
Ophiuchi $\epsilon$ 3	8. 1.16.50.5	7 54 3	4. 3.36.8A	+1 36 3	19 6	6 9
Herculis $\gamma$ 3	8. 2.43.26.7	6 37 7	19.45.32.2B	-1 31 9	20 9	13 4
Herculis $\beta$ 3	8. 4.52.25.4	6 28 3	22. 3.70.1B	-1 25 2	21 2	14 0
Draconis $\eta$ 3	8. 5. 9.42.3	1 58 3	62. 5. 6.5B	-1 24 2	42 2	19 9
Ophiuchi $\zeta$ 3	8. 5.51.18.7	8 14 2	10. 2.14.1B	+1 22 0	20 0	5 2
Herculis $\zeta$ 3	8. 7.58. 3.5	5 45 7	32. 4.20.2B	-1 15 2	23 4	16 2
Scorpii $\epsilon$ 3	8. 8.30.19.2	9 46 8	33.48.39.2A	+1 13 5	23 8	5 0
Herculis $\eta$ 3	8. 8.34.56.7	5 8 4	39.24.49.1B	-1 13 2	25 5	17 7

Supplementum earum Stellarum, quæ in Catalogo Bradlejano non habentur  
e Catalogo D. de la Caille ad Annum 1750.

Nomina Stellarum e Catalogo D. de la Caille.	Ascensio recta ad Annum 1750.	Variatio to Annorum.	Declinatio ad Annum 1750.	Variatio to annorum.	Aberra- tio ma- xima in Asc. rectam		Abe- r- ratio maxima in De- clina- tione.	
					S.	S.	S.	S.
	G. M. S.	M. S.	G. M. S.	M. S.	S.	S.	S.	S.
Herculis $\epsilon$ 3	8.12.40.49.5	5 45 3	31 18 45.4B	-0 59 7	23 1	16 1		
Ophiuchi $\eta$ 2	8.14. 0.56.0	3 34 9	15.23.25.9A	+0 55 7	20 6	3 5		
Herculis $\delta$ 3	8.16.26.32.5	6 10 3	25. 9. 8.2 B	-0 47 0	21 9	14 8		
Ophiuchi $\beta$ 3	8.22.46.54.3	7 25 4	4.41.42.3 B	-0 25 2	20 0	9 3		
Oph. Aust. $\gamma$ 3	8.23.50.37.5	7 32 0	2.49.30.2 B	-0 21 5	20 0	8 9		
Herculis $\mu$ 4	8.24.10. 6.8	5 26 2	27.53. 7.4B	-0 20 4	22 6	15 6		
Serpentis $\zeta$ 4	8.26.49.22.4	7 54 6	3.38.53.7A	+0 11 1	20 0	6 8		
Herculis $\theta$ 3	8.26.55.12.9	5 9 3	37.17.57.4B	-0 10 3	25 0	17 4		
Sagittæ $\gamma$ 4	8.27.15.55.6	9 35 4	29.33.42.7A	+0 9 6	23 0	2 3		
Serpentis $\eta$ 3	9. 2. 5.48.2	7 52 1	2.56.28.5A	-0 7 3	20 0	7 0		
Lyræ $\delta$ 3	9.11.26.33.3	5 15 8	36.35.51.5B	+0 39 8	24 8	17 2		
Aquilæ $\epsilon$ 4	9.12. 4.15.0	6 50 2	14.44.58.0B	+0 41 9	20 6	12 4		
Lyræ $\gamma$ 3	9.12.23.51.5	5 37 7	32.21.52.5B	+0 43 1	23 6	16 5		
Antinoid $\lambda$ 4	9.13.14.40.0	7 59 7	5.14. 4.6B	-0 46 0	20 0	6 4		
Cygni $\beta$ 3	9.20. 9.32.6	6 4 0	27.27. 6.8B	+1 9 1	22 3	15 2		
Antinoid $\iota$ 4	9.20.56.45.0	7 47 8	1.49. 8.8A	-1 11 7	19 8	7 4		
Sagittæ $\alpha$ 4	9.22.13.58.0	6 43 4	17.27.29 8 B	+1 15 9	20 7	12 4		
Antinoid $\eta$ 4	9.24.55.58.8	7 40 6	0.23. 8.2 B	+1 24 6	19 7	8 1		
Cygni $\gamma$ 3	10. 3.18.47.6	5 23 8	39.28.15.9B	+1 50 1	25 3	17 3		
Delphini $\epsilon$ 4	10. 5.18.53.8	7 11 6	10.28.20.8B	+1 55 9	19 7	10 6		
Delphini $\zeta$ 4	10. 5.54.15.1	7 1 8	13.49.53.5B	+1 57 6	20 0	11 7		
Delphini $\beta$ 3	10. 6.27.31.3	7 2 3	13.44.23.2B	+1 59 2	20 0	11 7		
Delphini $\delta$ 4	10. 7.56.42.1	7 1 8	14.11.37.6B	+2 3 3	20 1	11 7		
Delphini $\gamma$ 4	10. 8.46. 0.0	6 50 2	15.14.23.4B	+2 5 6	20 0	11 9		
Cygni $\zeta$ 4	10.15.34.24.0	6 23 3	29.12.53.5B	+2 23 2	22 0	14 8		
Pegasi $\epsilon$ 4	10.17.37.26.6	6 31 9	18.44.55.2B	+2 28 1	20 2	12 5		
Pegasi $\delta$ 3	10.22.58.17.2	7 23 2	8.44.31.3B	+2 40 1	19 2	10 3		
Cygni $\mu$ 4	10.23.14.38.1	6 39 0	27.37.28.1B	+2 40 7	21 4	14 2		
Pegasi $\zeta$ 3	11. 7.14.27.3	7 28 8	9.32. 8.5B	+3 4 9	18 9	9 4		
Pegasi $\eta$ 3	11. 7.49.33.2	7 0 0	28.55.17.5B	+3 5 7	21 2	13 8		
Androm. $\circ$ 4	11.12.36.49.5	6 49 8	40.59.15.6B	+3 11 4	24 5	15 9		
Cephei $\gamma$ 4	11.22.19.20.0	5 52 4	76.14.11.0B	+3 18 7	77 2	19 6		



# TABULA I.

Acceleratio fixarum culminantium in tempore solari medio,  
Itemque Retardatio culminationum Solis motu medio incedentis  
in Tempore solari fixarum supputata.

Culminationes	Acceleratio fixarum culminantium in tempore solari medio.				H.	Pars proportionalis Accelerationis Fixarum in tempore medio pro Horis, & Minutis.				Culminat. ☉	Retardatio Culminationum solis motu medio incedentis in Tempore fixarum.			
	H.	M.	S.	T.		H.	M.	S.	T.		Q.	H.	M.	S.
1	0.	3.	55.	54.						1	0.	3.	56.	33.
2	0.	7.	51.	48.	1	0.	9.	49.	45	2	0.	7.	53.	6.
3	0.	11.	47.	42.	2	0.	19.	39.	30.	3	0.	11.	49.	40.
4	0.	15.	43.	36.	3	0.	29.	29.	15.	4	0.	15.	46.	13.
5	0.	19.	39.	30.	4	0.	39.	19.	0.	5	0.	19.	42.	47.
6	0.	23.	35.	24.	5	0.	49.	8.	45.	6	0.	23.	39.	20.
7	0.	27.	31.	18.	6	0.	58.	58.	30.	7	0.	27.	35.	54.
8	0.	31.	27.	12.	7	1.	8.	48.	15	8	0.	31.	32.	27.
9	0.	35.	23.	6.	8	1.	18.	38.	0.	9	0.	35.	29.	1.
10	0.	39.	19.	0.	9	1.	28.	27.	45.	10	0.	39.	25.	34.
11	0.	43.	14.	54.	10	1.	38.	17.	30.	11	0.	43.	22.	8.
12	0.	47.	10.	48.	11	1.	48.	7.	15.	12	0.	47.	18.	41.
13	0.	51.	6.	42.	12	1.	57.	57.	0.	13	0.	51.	15.	15.
14	0.	55.	2.	36.	13	2.	7.	46.	45.	14	0.	55.	11.	49.
15	0.	58.	58.	30.	14	2.	17.	36.	30.	15	0.	59.	8.	22.
16	1.	2.	54.	24.	15	2.	27.	26.	15.	16	1.	3.	4.	56.
17	1.	6.	50.	18.	16	2.	37.	16.	0.	17	1.	7.	1.	29.
18	1.	10.	46.	12.	17	2.	47.	5.	45.	18	1.	10.	58.	3.
19	1.	14.	42.	6.	18	2.	56.	55.	30.	19	1.	14.	54.	36.
20	1.	18.	38.	0.	19	3.	6.	45.	15.	20	1.	18.	51.	10.
21	1.	22.	33.	54.	20	3.	16.	36.	0.	21	1.	22.	47.	43.
22	1.	26.	29.	48.	21	3.	26.	24.	45.	22	1.	26.	44.	17.
23	1.	30.	25.	42.	22	3.	36.	14.	30.	23	1.	30.	40.	50.
24	1.	34.	21.	36.	23	3.	46.	4.	15.	24	1.	34.	37.	24.
25	1.	38.	17.	30.	24	3.	55.	54.	0.	25	1.	38.	33.	57.
26	1.	42.	13.	24.	25	4.	5.	43.	45.	26	1.	42.	30.	31.
27	1.	46.	9.	18.	26	4.	15.	33.	30.	27	1.	46.	27.	4.
28	1.	50.	5.	12.	27	4.	25.	23.	15.	28	1.	50.	23.	38.
29	1.	54.	1.	6.	28	4.	35.	13.	0.	29	1.	54.	20.	11.
30	1.	57.	57.	0.	29	4.	45.	2.	45.	30	1.	58.	16.	45.
60	3.	55.	54.	1.	30	4.	54.	52.	30.	60	3.	56.	33.	30.
90	5.	53.	51.	2.						90	5.	54.	50.	15.



## T a b u l a II.

Variatio annua fixarum in denos quosque dies distributa.

## V a r i a t i o a n n u a .

Dies Anni.	1	2	3	4	5	6	7	8	9	10	11	12
	S.D.	S.D.	S.D.	S.D.	S.D.	S.D.	S.D.	S.D.	S.D.	S.D.	S.D.	S.D.
Januar.	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	11	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3
	21	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6
	31	0.0	0.1	0.2	0.3	0.4	0.4	0.5	0.6	0.7	0.8	0.9
Feb.	10	0.0	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.1	1.1
	20	0.1	0.2	0.4	0.5	0.6	0.8	0.9	1.0	1.2	1.3	1.6
Mart.	2	0.1	0.3	0.4	0.6	0.8	0.9	1.1	1.3	1.4	1.6	1.9
	12	0.1	0.3	0.5	0.7	0.9	1.1	1.3	1.5	1.7	1.9	2.2
	22	0.1	0.4	0.6	0.8	1.1	1.3	1.5	1.7	1.9	2.2	2.6
April.	1	0.2	0.4	0.7	0.9	1.2	1.4	1.7	1.9	2.2	2.4	2.9
	11	0.2	0.5	0.8	1.0	1.3	1.6	1.9	2.1	2.4	2.7	3.2
	21	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.9	3.3	3.6
Maji.	1	0.3	0.6	0.9	1.3	1.6	1.9	2.3	2.6	2.9	3.2	3.9
	11	0.3	0.7	1.0	1.4	1.7	2.1	2.4	2.8	3.2	3.5	4.2
	21	0.3	0.7	1.1	1.5	1.9	2.2	2.6	3.0	3.4	3.9	4.5
	31	0.4	0.8	1.2	1.6	2.0	2.4	2.8	3.2	3.6	4.1	4.9
Junii.	10	0.4	0.8	1.3	1.7	2.1	2.6	3.0	3.5	3.9	4.3	5.2
	20	0.4	0.9	1.3	1.8	2.3	2.7	3.2	3.7	4.1	4.6	5.5
Julii.	30	0.4	0.9	1.4	1.9	2.4	2.9	3.4	3.9	4.4	4.9	5.9
	10	0.5	1.0	1.5	2.0	2.6	3.1	3.6	4.1	4.6	5.2	6.2
	20	0.5	1.0	1.6	2.1	2.7	3.2	3.8	4.3	4.9	5.4	6.5
	30	0.5	1.1	1.7	2.3	2.8	3.4	4.0	4.6	5.1	5.7	6.8
Aug.	9	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0	7.2
	19	0.6	1.2	1.8	2.5	3.1	3.7	4.4	5.0	5.6	6.3	7.5
Sept.	29	0.6	1.3	1.9	2.6	3.2	3.9	4.6	5.2	5.9	6.5	7.8
	8	0.6	1.3	2.0	2.7	3.4	4.0	4.7	5.4	6.1	6.8	8.1
	18	0.7	1.4	2.1	2.8	3.5	4.2	4.9	5.6	6.3	7.1	8.5
	28	0.7	1.4	2.2	2.9	3.7	4.4	5.1	5.9	6.6	7.4	8.9
Octob.	8	0.7	1.5	2.2	3.0	3.8	4.5	5.3	6.1	6.8	7.6	9.1
	18	0.7	1.5	2.3	3.1	3.9	4.7	5.5	6.3	7.1	7.9	9.4
Nov.	28	0.8	1.6	2.4	3.2	4.1	4.9	5.7	6.5	7.3	8.2	9.8
	7	0.8	1.6	2.5	3.3	4.2	5.0	5.9	6.7	7.6	8.5	10.1
	17	0.8	1.7	2.6	3.5	4.3	5.2	6.1	7.0	7.8	8.7	10.2
	27	0.9	1.8	2.7	3.6	4.5	5.4	6.3	7.2	8.1	9.0	10.8
Dec.	7	0.9	1.8	2.7	3.7	4.6	5.5	6.5	7.4	8.3	9.3	11.1
	17	0.9	1.9	2.8	3.8	4.7	5.7	6.7	7.6	8.6	9.5	11.4
	27	0.9	1.9	2.9	3.9	4.9	5.9	6.9	7.9	8.8	9.8	11.6

# T a b u l a II.

Variatio annua fixarum in denos quosque dies distributa.

V a r i a t i o   a n n u a												
DiesAnni	13	14	15	16	17	18	19	20	21	22	23	24
	S. D.	S. D.	S. D.	S. D.	S. D.	S. D.	S. D.	S. D.	S. D.	S. D.	S. D.	S.
Januar.	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	11	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.6
	21	0.7	0.7	0.8	0.8	0.9	0.9	1.0	1.0	1.1	1.2	1.3
	31	1.0	1.1	1.2	1.3	1.3	1.4	1.5	1.6	1.7	1.8	1.9
Febr.	10	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.2	2.2	2.4	2.6
	20	1.7	1.9	2.0	2.1	2.2	2.4	2.6	2.7	2.8	3.0	3.2
Mart.	2	2.1	2.3	2.4	2.6	2.7	2.9	3.1	3.2	3.4	3.6	3.9
	12	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.5
	22	2.8	3.0	3.2	3.4	3.6	3.9	4.1	4.4	4.6	4.8	5.2
April.	1	3.2	3.4	3.7	3.9	4.1	4.4	4.6	4.9	5.1	5.4	5.9
	11	3.5	3.8	4.1	4.3	4.6	4.9	5.1	5.5	5.7	6.0	6.5
	21	3.9	4.2	4.5	3.8	5.0	5.4	5.6	6.0	6.2	6.6	7.2
Maji.	1	4.2	4.6	4.9	5.2	5.5	5.9	6.2	6.5	6.8	7.2	7.8
	11	4.6	4.9	5.3	5.6	6.0	6.4	6.7	7.1	7.4	7.8	8.5
	21	4.9	5.3	5.7	6.1	6.4	6.8	7.2	7.6	8.0	8.4	9.1
	31	5.3	5.7	6.1	6.5	6.9	7.3	7.7	8.2	8.6	9.0	9.8
Junii.	10	5.6	6.1	6.5	7.0	7.4	7.8	8.2	8.7	9.1	9.6	10.4
	20	6.0	6.5	6.9	7.4	7.8	8.3	8.8	9.2	9.7	10.2	11.1
	30	6.4	6.9	7.4	7.9	8.3	8.8	9.3	9.8	10.3	10.8	11.8
Julii.	10	6.7	7.2	7.8	8.3	8.8	9.3	9.8	10.4	10.9	11.4	12.4
	20	7.1	7.6	8.2	8.7	9.2	9.8	10.4	10.9	11.5	12.0	13.1
	30	7.4	8.0	8.6	9.2	9.7	10.3	10.9	11.5	12.0	12.6	13.7
Aug.	9	7.8	8.4	9.0	9.6	10.2	10.8	11.4	12.0	12.6	13.2	14.4
	19	8.1	8.8	9.4	10.0	10.6	11.3	11.9	12.6	13.1	13.8	15.0
	29	8.5	9.2	9.8	10.5	11.1	11.8	12.4	13.1	13.7	14.4	15.7
Sept.	8	8.8	9.5	10.2	10.9	11.6	12.3	13.0	13.7	14.3	15.0	16.3
	18	9.2	9.9	10.6	11.3	12.0	12.7	13.5	14.3	14.9	15.6	17.0
	28	9.6	10.3	11.1	11.8	12.5	13.2	14.0	14.8	15.5	16.2	17.7
Octob.	8	9.9	10.7	11.5	12.2	13.0	13.7	14.5	15.3	16.0	16.8	18.3
	18	10.3	11.1	11.9	12.7	13.4	14.2	15.1	15.9	16.6	17.4	19.0
	28	10.6	11.5	12.3	13.1	13.9	14.7	15.6	16.4	17.2	18.0	19.6
Nov.	7	11.0	11.8	12.7	13.5	14.4	15.2	16.1	17.0	17.7	18.6	20.3
	17	11.3	12.2	13.1	14.0	14.8	15.7	16.6	17.5	18.3	19.2	20.9
	27	11.7	12.6	13.5	14.4	15.3	16.2	17.1	18.1	18.9	19.8	21.6
Dec.	7	12.1	13.0	13.9	14.9	15.8	16.7	17.7	18.6	19.5	20.4	22.3
	17	12.4	13.4	14.3	15.3	16.2	17.2	18.2	19.1	20.1	21.0	22.9
	27	12.8	13.8	14.8	15.8	16.7	17.7	18.7	19.7	20.7	21.7	23.6

## T A B U L A II.

Variatio annua fixarum in denos quosque dies distributa.

## Variatio annua.

Dies Anni	25	26	27	28	29	30	31	32	33	34	35	36
	S. D.	S. D.	S. D.	S. D.	S. D.	S. D.	S. D.	S. D.	S. D.	S. D.	S. D.	S. D.
Januarii	1 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	11 0.6	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.9	0.9	0.9	0.9
	21 1.3	1.4	1.4	1.5	1.5	1.6	1.6	1.7	1.8	1.8	1.8	1.9
	31 2.0	2.1	2.2	2.3	3.3	2.4	2.5	2.6	2.7	2.7	2.8	2.9
Febr.	10 2.7	2.8	3.9	3.0	3.1	3.2	3.3	3.4	3.6	3.6	3.7	3.9
	20 3.4	3.5	3.7	3.8	3.9	4.0	4.2	4.3	4.5	4.5	4.7	4.
Martii.	2 4.1	4.2	4.4	4.6	4.7	4.9	5.1	5.2	5.4	5.5	5.7	5.9
	12 4.7	4.9	5.1	5.3	5.5	5.7	5.9	6.0	6.3	6.4	6.6	6.9
	22 5.4	5.6	5.9	6.1	6.3	6.5	6.7	6.9	7.2	7.3	7.5	7.8
April.	1 6.1	6.4	6.6	6.9	7.1	7.4	7.6	7.8	8.1	8.3	8.5	8.8
	11 6.8	7.1	7.3	7.6	7.9	8.2	8.4	8.7	9.0	9.2	9.5	9.8
	21 7.5	7.8	8.1	8.4	8.7	9.0	9.3	9.6	9.9	10.1	10.4	10.8
Maji.	1 8.2	8.5	8.8	9.2	9.5	9.8	10.2	10.5	10.8	11.1	11.4	11.8
	11 8.8	9.2	9.5	9.9	10.3	10.6	11.0	11.3	11.7	12.0	12.3	12.8
	21 9.5	9.9	10.3	10.7	11.1	11.4	11.8	12.2	12.6	12.9	13.3	13.7
	31 10.2	10.6	11.0	11.5	12.9	12.3	12.7	13.1	13.5	13.9	14.2	14.7
Junii.	10 10.9	11.3	11.8	12.2	13.7	13.1	13.5	14.0	14.4	14.8	15.2	15.7
	20 11.6	13.0	12.5	13.0	14.5	13.9	14.4	14.9	15.3	15.7	16.2	16.7
Julii.	30 12.3	12.8	13.3	13.8	14.3	14.8	15.3	15.8	16.3	16.7	17.2	17.7
	10 12.9	13.5	14.0	14.5	15.0	15.6	16.1	16.6	17.2	17.6	18.1	18.7
	20 13.6	14.2	14.7	15.3	15.8	16.4	16.9	17.5	18.1	18.5	19.1	19.7
	30 14.3	14.9	15.5	16.1	16.6	17.2	17.8	18.4	19.0	19.5	20.0	20.6
Augusti.	9 15.0	15.6	16.2	16.8	17.4	18.0	18.6	9.2	19.9	20.4	21.0	21.6
	19 15.7	16.3	16.9	17.6	18.2	18.8	19.5	0.1	20.8	21.3	21.9	22.6
Septemb.	29 16.4	17.0	17.7	18.4	19.0	19.7	20.4	21.0	21.7	22.3	22.9	23.6
	8 17.0	17.7	18.4	19.1	19.8	20.5	21.2	21.8	22.6	23.2	23.9	24.6
	18 17.7	18.4	19.2	19.9	20.6	21.3	22.0	22.7	23.5	24.1	24.8	25.5
	28 18.4	19.2	19.9	20.7	21.4	22.2	23.9	23.6	24.4	25.1	25.8	26.5
Octobr.	8 19.1	19.9	20.6	21.4	22.2	23.0	23.7	24.5	25.	26.0	26.8	27.5
	18 19.6	20.6	21.4	22.2	23.0	23.8	24.6	25.4	26.2	26.9	27.7	28.5
Nov.	28 20.5	21.3	22.1	23.0	23.8	24.6	25.5	26.3	27.1	27.9	28.7	29.5
	7 21.1	22.0	22.9	23.7	24.6	25.4	26.3	27.1	28.0	28.8	29.7	30.5
	17 21.8	22.7	23.6	24.5	25.4	26.2	27.1	28.0	28.9	29.7	30.6	31.5
	17 22.5	23.5	24.3	25.3	26.2	27.1	28.0	28.9	29.8	30.7	31.6	32.5
Decemb.	7 23.2	24.2	25.1	26.0	27.0	27.9	28.8	29.8	30.7	31.6	32.6	33.5
	17 23.9	24.9	25.9	26.8	27.8	28.7	29.7	30.7	31.6	32.5	33.5	34.5
	27 24.6	25.6	26.6	27.6	28.6	29.6	30.6	31.6	32.6	33.5	34.5	35.5



## T A B U L A II.

Variatio annua fixarum in denos quosque dies distributa.

## Variatio annua.

DiesAnni	37	38	39	40	41	42	43	44	45	46	47	48
	S. D.	S. D.	S. D.	S. D.	S. D.	S. D.	S. D.	S. D.	S. D.	S. D.	S. D.	S. D.
Januar. I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
II	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.3
21	2.0	2.1	2.1	2.1	2.2	2.3	2.5	2.4	2.4	2.4	2.5	2.9
31	3.0	3.1	3.2	3.2	3.3	3.4	3.3	3.6	3.7	3.7	3.8	3.2
Febr. 10	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.8	4.9	4.9	5.1	5.5
20	5.0	5.2	5.3	5.4	5.5	5.7	5.8	6.0	6.1	6.2	6.4	6.6
Martii. 2	6.0	6.2	6.4	6.5	6.7	6.8	7.0	7.2	7.4	7.5	7.7	7.8
12	7.0	7.2	7.4	7.6	7.8	8.0	8.2	8.1	8.6	8.8	9.0	9.1
22	8.1	8.3	8.5	8.7	9.0	9.2	9.4	9.6	9.8	10.0	10.3	10.4
April. 1	9.1	9.3	9.6	9.8	10.1	10.3	10.6	10.8	11.1	11.3	11.6	11.8
11	10.1	10.3	10.6	11.0	11.2	11.4	11.7	12.0	12.3	12.5	12.8	13.1
21	11.1	11.3	11.7	12.1	12.3	12.5	12.9	13.2	13.5	13.8	14.1	14.4
Maji. 1	12.1	12.4	12.8	13.1	13.4	13.7	14.1	14.4	14.8	15.1	15.4	15.7
11	13.1	13.4	13.9	14.2	14.5	14.8	15.2	15.6	16.0	16.3	16.7	17.0
21	14.1	14.4	15.0	15.3	15.6	16.0	16.4	16.8	17.2	17.6	18.0	18.3
31	15.1	15.5	16.0	16.4	16.8	17.2	17.6	18.0	18.5	18.9	19.3	19.6
Junii. 10	16.1	16.5	17.1	17.4	17.9	18.3	18.8	19.2	19.7	20.1	20.6	20.9
20	17.2	17.6	18.1	18.5	19.0	19.5	20.0	20.4	20.9	21.4	21.9	22.2
Julii. 30	18.2	18.7	19.2	19.7	20.2	20.7	21.2	21.7	22.2	22.7	23.2	23.6
10	19.2	19.7	20.2	20.8	21.3	21.9	22.4	22.9	23.4	23.9	24.4	24.9
20	20.2	20.8	21.3	21.9	22.4	23.0	23.5	24.1	24.6	25.1	25.7	26.2
30	21.2	21.8	22.4	23.0	23.5	24.1	24.7	25.3	25.9	26.4	26.0	27.5
Augusti 9	22.2	22.8	23.4	24.0	24.6	25.2	25.9	26.5	27.1	27.6	27.3	28.8
19	23.3	23.9	24.5	25.2	25.7	26.3	27.0	27.7	28.3	29.0	29.6	30.1
Sept. 29	24.3	24.9	25.6	26.3	26.9	27.5	28.2	28.9	29.6	30.2	30.9	31.4
8	25.3	26.0	26.6	27.4	28.0	28.6	29.4	30.1	30.8	31.4	32.2	32.7
18	26.3	27.0	27.7	28.5	29.1	29.8	30.6	31.3	32.0	32.7	33.5	34.0
Octob. 28	27.4	28.1	28.8	29.6	30.3	31.0	31.8	32.5	33.3	34.0	34.8	35.4
8	28.4	29.1	29.8	30.7	31.4	32.1	32.9	33.7	34.5	35.2	36.0	36.7
18	29.4	30.2	30.9	31.8	32.5	33.2	34.1	34.9	35.7	36.5	37.3	38.0
Nov. 28	30.4	31.2	32.0	32.9	33.6	34.4	35.3	36.1	37.0	37.8	38.6	39.1
7	31.4	32.2	33.0	34.0	34.7	35.5	36.4	37.3	38.2	39.0	39.9	40.6
17	32.5	33.3	34.1	35.1	35.8	36.7	37.6	38.5	39.4	40.3	41.2	41.9
27	33.5	34.3	35.2	36.2	37.0	37.9	38.8	39.7	40.7	41.6	42.5	43.3
Decem. 7	34.5	35.4	36.3	37.2	38.1	39.0	40.0	40.9	41.9	42.8	43.8	44.6
17	35.5	36.4	37.4	38.3	39.2	40.2	41.2	42.1	43.1	44.1	45.1	45.9
27	36.5	37.5	38.5	39.5	40.4	41.4	42.4	43.4	44.4	45.4	46.4	47.3



## T a b u l a II.

Variatio annua Fixarum in denos quosque dies distributa.

## V a r i a t i o a n n u a .

Dies anni.	49	50	51	52	53	54	55	56	57	58	59	60
	S. .	S. D.	S. D.	S. D.	S. D.	S. D.	S. .	S. D.	S. D.	S. D.	S. D.	S. D.
Jan.	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	11	1.3	1.3	1.3	1.4	1.4	1.4	1.5	1.5	1.5	1.6	1.6
	21	2.6	2.7	2.7	2.8	2.8	2.9	3.0	3.0	3.0	3.1	3.2
	31	4.0	4.1	4.1	4.2	4.3	4.4	4.5	4.6	4.6	4.7	4.8
Februar.	10	5.3	5.4	5.5	5.6	5.7	5.8	6.0	6.1	6.1	6.3	6.4
	20	6.6	6.8	6.9	7.0	7.3	7.5	7.5	7.6	7.7	7.9	8.1
Mart.	2	8.0	8.2	8.3	8.5	8.6	8.8	9.0	9.2	9.3	9.5	9.6
	12	9.3	9.5	9.7	9.9	10.0	10.3	10.5	10.7	10.8	11.1	11.2
	22	10.6	10.9	11.1	11.3	11.5	11.8	12.0	12.2	12.4	12.7	12.8
April	1	12.0	12.3	12.5	12.8	13.0	13.3	13.5	13.8	14.0	14.3	14.5
	11	13.3	13.6	13.9	14.2	14.4	14.7	15.0	15.3	15.5	15.8	16.1
	21	14.6	15.0	15.3	15.6	15.8	16.2	16.5	16.8	17.1	17.4	17.7
Maji.	1	16.0	16.4	16.7	17.0	17.3	17.7	18.0	18.4	18.7	19.0	19.3
	11	17.3	17.7	18.1	18.4	18.7	19.1	19.5	19.9	20.2	20.6	20.9
	21	18.7	19.1	19.5	19.8	20.2	20.6	21.0	21.4	21.8	22.2	22.5
	31	20.1	20.5	20.9	21.3	21.7	22.1	22.5	23.0	23.4	23.8	24.2
Jun.	10	21.4	21.8	22.3	22.7	23.1	23.6	24.0	24.5	24.9	25.4	25.8
	20	22.7	23.2	23.7	24.1	24.6	25.1	25.5	26.0	26.5	27.0	27.4
	30	24.1	24.6	25.1	25.6	26.1	26.6	27.1	27.5	28.1	28.6	29.1
Jul.	10	25.4	25.9	26.5	27.0	27.5	28.0	28.6	29.1	29.6	30.1	30.7
	20	26.7	27.3	27.9	28.4	28.9	29.5	30.1	30.6	31.1	31.7	32.3
	30	28.1	28.7	29.3	29.8	30.4	31.0	31.6	32.2	32.7	33.3	33.9
	Aug.	9	29.4	30.0	30.7	31.2	31.8	32.4	33.1	33.7	34.2	34.9
19	30.8	31.4	32.1	32.7	33.3	33.9	34.6	35.2	35.8	36.5	37.1	
Sept.	29	32.2	32.8	33.5	34.1	34.8	35.4	36.1	36.8	37.4	38.1	38.7
	8	33.5	34.1	34.9	35.5	36.2	36.9	37.6	38.3	38.9	39.7	40.3
	18	34.8	35.5	36.3	36.9	37.7	38.4	39.1	39.8	40.5	41.3	41.9
	28	36.2	36.9	37.7	38.4	39.2	39.9	40.7	41.4	42.1	42.9	43.6
Octob.	8	37.5	38.2	39.1	39.8	40.6	41.3	42.2	42.9	43.6	44.4	45.2
	18	38.8	39.6	40.5	41.3	42.0	42.8	43.7	44.4	45.2	46.0	46.8
Novemb.	28	40.2	41.0	41.9	42.7	43.5	44.3	45.2	46.0	46.8	47.6	48.4
	7	41.5	42.3	43.3	44.1	44.9	45.8	46.7	47.5	48.3	49.2	50.0
	17	42.9	43.7	44.7	45.5	46.4	47.3	48.2	49.0	49.9	50.8	51.6
Dec.	27	44.3	45.1	46.1	47.0	47.9	48.8	49.7	50.6	51.5	52.4	53.3
	7	45.6	46.5	47.5	48.4	49.3	50.3	51.2	52.1	53.0	54.0	54.9
	17	46.9	47.9	48.9	49.8	50.8	51.8	52.7	53.6	54.6	55.6	56.5
27	48.3	49.3	50.3	51.3	52.3	53.3	54.3	55.2	56.2	57.2	58.2	

**TABULA III.**  
Pro inveniendō Argumento annuo aberrationis in Ascens. rectæ.

**ARGUMENT.**  
Ascensio recta stellæ.

Adde Ascensioni rectæ

Gr.	o. 6.	1. 7.	2. 9.	5.
Gr.	G.M.	G.M.	G.M.	Gr.
0	0. 0	2. 8	2. 8	30
1	0. 6	2. 11	2. 6	29
2	0. 11	2. 13	2. 3	28
3	0. 16	2. 15	2. 0	27
4	0. 21	2. 17	1. 57	26
5	0. 26	2. 19	1. 54	25
6	0. 31	2. 21	1. 50	24
7	0. 36	2. 23	1. 47	23
8	0. 41	2. 24	1. 43	22
9	0. 46	2. 25	1. 39	21
10	0. 51	2. 26	1. 35	20
11	0. 56	2. 27	1. 31	19
12	1. 0	2. 27	1. 27	18
13	1. 5	2. 28	1. 23	17
14	1. 10	2. 28	1. 19	16
15	1. 14	2. 28	1. 14	15
16	1. 19	2. 28	1. 10	14
17	1. 23	2. 28	1. 5	13
18	1. 27	2. 27	1. 0	12
19	1. 31	2. 27	0. 56	11
20	1. 35	2. 26	0. 51	10
21	1. 39	2. 25	0. 46	9
22	1. 43	2. 24	0. 41	8
23	1. 47	2. 23	0. 36	7
24	1. 50	2. 21	0. 31	6
25	1. 54	2. 19	0. 26	5
26	1. 57	2. 17	0. 21	4
27	2. 0	2. 15	0. 16	3
28	2. 3	2. 13	0. 11	2
29	2. 6	2. 11	0. 6	1
30	2. 8	2. 8	0. 0	0

11. 5. 10. 4. 9. 3.

Subtr. ab Ascens. rectæ

**TABULA IV.**  
Pro inveniendō Argumento annuo aberrationis in Declinationem.

Arg. in fronte, Declinatio stellæ ad ænosgradus.  
Arg. in latere, Ascensio recta stellæ ad ænosgradus.

Stellæ Bor.		Declinatio Stellæ.			Stellæ Aust.	
Subtr. a 12. Sig.	add. ad 6. Sig.	6. G. M.	17. S. G. M.	18. S. G. M.	Adde ad 6. Sig.	Subtr. 6. Sig.
IX. o	IX. o	0. 0	0. 0. 0	0. 0. 0	III. o	III. o
24	6	1. 16	0. 2. 9	0. 2. 48	6	24
18	12	2. 33	0. 4. 18	0. 5. 36	12	18
12	18	3. 48	0. 6. 25	0. 8. 23	18	12
6	24	5. 1	0. 8. 32	0. 11. 9	24	6
VIII. o	X. o	6. 14	0. 10. 37	0. 13. 54	IV. o	II. o
24	6	7. 23	0. 12. 40	0. 16. 38	6	24
18	12	8. 31	0. 14. 44	0. 19. 20	12	18
12	18	9. 35	0. 16. 38	0. 22. 0	18	12
6	24	10. 35	0. 18. 32	0. 24. 37	24	6
VII. o	XI. o	11. 31	0. 20. 22	0. 27. 12	V. o	I. o
24	6	12. 23	0. 22. 8	0. 29. 44	6	24
18	12	13. 8	0. 23. 47	1. 2. 13	12	18
12	18	13. 48	0. 25. 21	1. 4. 37	18	12
6	24	14. 21	0. 26. 47	1. 6. 57	24	6
VI. o	XII. o	14. 47	0. 28. 5	1. 9. 12	VI. o	XII. o
24	6	15. 14	0. 29. 17	1. 11. 20	6	24
18	12	15. 12	1. 0. 9	1. 13. 22	12	18
12	18	15. 10	1. 0. 52	1. 15. 14	18	12
6	24	14. 57	1. 1. 19	1. 16. 57	24	6
V. o	I. o	14. 34	1. 1. 27	1. 18. 27	VII. o	XI. o
24	6	13. 58	1. 1. 13	1. 19. 40	6	24
18	12	13. 10	1. 0. 31	1. 20. 31	12	18
12	18	12. 8	0. 29. 17	1. 20. 51	18	12
6	24	11. 0	0. 27. 26	1. 20. 31	24	6
IV. o	II. o	9. 28	0. 25. 50	1. 19. 11	VIII. o	X. o
24	6	7. 51	0. 21. 26	1. 16. 20	6	24
18	12	6. 3	0. 17. 8	1. 11. 8	12	18
12	18	4. 5	0. 11. 58	1. 2. 14	18	12
6	24	2. 5	0. 6. 12	0. 18. 24	24	6
III. o	III. o	0. 0	0. 0. 0	0. 0. 0	IX. o	IX. o

Inventam æquationem applica o. vel 12. signis, si Stella borealis sit, si vero sit australis, 6. signis proæ imperant Tabula tituli, dabitur locus solis in eclipica tempore maxime aberrationis, ab eo loco auferet longitudinem solis æqualem, residuum erit argumentum annuum aberrationis in Declinationem.

## Residuum T A B U L Æ IV.

Pro inveniendi Argumento annuo aberrationis in Declinationem.

Argumentum in fronte, *Declinatio stellæ ad senos gradus.*  
Argumentum in latere, *Ascensio recta stellæ ad senos gradus.*

Stellæ Bor.		Declinati. Stellæ.					Stellæ Aust.	
Snbtr. a 12. Sig.	adde ad o. Sig.	18.	25.	30.	36.	42.	Adde ad 6. Sig.	Snbtr. a 6. Sig.
		S. G. M.	S. G. M.	S. G. M.	S. G. M.	S. G. M.		
IX. o	IX. o	o. o. o	o. o. o	o. o. o	o. o. o	o. o. o	III. o	III. o
	24 6	o. 2.48	o. 3.19	o. 3. 6	o. 4. 6	o. 4.25		6 24
	18 12	o. 5.36	o. 6.38	o. 7.24	o. 8.11	o. 8.50		12 18
VIII. o	12 18	o. 8.23	o. 9.53	o.11.11	o.12.16	o.13.14	IV. o	18 12
	6 24	o.11. 9	o.13.13	o.14.54	o.16.21	o.17.37		24 6
	X. o	o.13.54	o.16.36	o.18.37	o.20.26	o.22. 1		II. o
VII. o	24 6	o.16.38	o.19.45	o.22.19	o.24.29	o.26.24	V. o	6 20
	18 12	o.19.20	o.23. 0	o.26. 1	o.28.33	1. 0.46		12 18
	12 18	o.22. 0	o.26.12	o.29.41	1. 2.36	1. 5. 8		18 12
VI. o	6 24	o.24.37	1.29.26	o. 3.21	1. 6.39	1. 9.30	VI. o	24 6
	XI. o	o.27.12	1. 2.37	1. 7. 1	1.10.42	1.13.52		I. o
	24 6	o.29.44	1. 5.47	1.10. 4	1.14.46	1.18.15		6 24
V. o	18 12	1. 2.15	1. 8.55	1.14.20	1.18.50	1.22.29	VII. o	12 18
	12 18	1. 4.37	1.12. 1	1.18. 0	1.22.56	1.27. 5		18 12
	6 24	1. 6.57	1.15. 6	1.21.41	1.27. 4	2. 1.57		24 6
IV. o	VI. o	1. 9.12	1.18.10	1.25.23	2. 1.16	2. 6. 8	VIII. o	VI. o
	24 6	1.11.20	1.21.13	1.29. 8	2. 5.32	2.10. 7		6 24
	18 12	1.13.22	1.24.15	2. 2.57	2. 9.55	2.15.34		12 18
III. o	12 18	1.15.14	1.27.15	2. 6.50	2.14.25	2.20.30	IX. o	18 12
	V. o	1.16.57	2. 0.15	2.10.51	2.19. 8	2.25.39		24 6
	I. o	1.18.27	2. 3.40	2.15. 2	2.24. 5	3. 1. 4		II. o
II. o	24 6	1.19.40	2. 6.16	2.19.26	2.29.21	3. 6.49	X. o	6 24
	18 12	1.20.31	2. 9.17	2.24. 8	3. 5. 2	3.12.59		12 18
	12 18	1.20.51	2.12.19	2.29.16	3.11.15	3.19.40		18 12
I. o	6 24	1.20.31	2.15.25	3. 5. 3	3.18.14	3.27. 0	XI. o	24 6
	IV. o	1.19.11	2.18.37	3.11.46	3.26.11	4. 5. 8		III. o
	24 6	1.16.20	2.22. 2	3.19.58	4. 5.27	4.14.12		6 24
X. o	18 12	1.11. 8	2.25.51	4. 0.31	4.16.21	4.24.32	XII. o	12 18
	12 18	1. 2.14	3. 0.40	4.14.57	4.29.14	5. 5.27		18 12
	6 24	o.18.24	3. 9.28	5. 4.48	5.13.58	5.17.27		24 6
IX. o	III. o	o. o. o	6. o. o	6. o. o	6. o. o	6. o. o	IX. o	IX. o

NB. Quod si Stella Tropico simul, & colure solstitialium propinqua sit, æquatio requirenda in Supplemento, post hanc Tabulam IV. relato latitudinis autem erit in id Tropici, colurive vicinia, eam intra gradum, sesquialteramve accipere.



## Residuum TABULÆ IV.

Pro inveniendō argumento annuo aberrationis in Declinationem.

Argumentum in fronte, *Declinatio Stellæ ad senos gradus.*  
Argumentum in latere, *Ascensio recta Stellæ ad senos gradus.*

Stellæ Bor.		Declinatio Stellæ.					Stellæ Auf.	
Subtr. a 12. Sig.	Adde ad 6. Sig.	6	7.	78.	84.	90.	Adde ad 6. Sig.	Subtr. a 6. Sig.
		S. G. M.	S. G. M.	S. G. M.	S. G. M.	S. G. M.		
IX. 0	IX. 0	0. 0. 0	0. 0. 0	0. 0. 0	0. 0. 0	0. 0. 0	III. 0	III. 0
24	6	0. 5. 29	0. 5. 44	0. 5. 59	0. 6. 15	0. 6. 32	6	24
18	12	0. 10. 57	0. 11. 27	0. 11. 57	0. 12. 29	0. 13. 3	12	18
12	18	0. 16. 24	0. 17. 9	0. 17. 54	0. 18. 40	0. 19. 30	18	12
6	24	0. 21. 50	0. 22. 48	0. 23. 47	0. 24. 49	0. 25. 54	24	6
VIII. 0	X. 0	0. 28. 14	0. 28. 26	0. 29. 38	1. 0. 53	1. 2. 11	IV. 0	II. 0
24	6	1. 2. 35	1. 4. 0	1. 5. 25	1. 6. 52	1. 8. 23	6	24
18	12	1. 7. 55	1. 9. 35	1. 11. 8	1. 12. 46	1. 14. 28	12	18
12	18	1. 13. 13	1. 15. 0	1. 16. 47	1. 18. 35	1. 20. 27	18	12
6	24	1. 18. 28	1. 20. 26	1. 22. 22	1. 24. 19	1. 26. 19	24	6
VII. 0	XI. 0	1. 23. 42	1. 25. 49	1. 27. 54	1. 29. 59	2. 2. 6	V. 0	I. 0
24	6	1. 28. 41	2. 1. 12	2. 3. 23	2. 5. 35	2. 7. 47	6	24
18	12	2. 4. 9	2. 6. 32	2. 8. 50	2. 11. 7	2. 13. 24	12	18
12	18	2. 9. 23	2. 11. 53	2. 14. 17	2. 16. 38	2. 18. 58	18	12
6	24	2. 14. 39	2. 17. 14	2. 19. 42	2. 22. 7	2. 24. 30	24	6
VI. 0	XII. 0	2. 19. 56	2. 22. 37	2. 25. 10	2. 27. 36	3. 0. 0	VI. 0	XII. 0
24	6	2. 25. 17	2. 28. 4	3. 0. 37	3. 3. 7	3. 5. 30	6	24
18	12	3. 0. 44	3. 3. 33	3. 6. 11	3. 8. 39	3. 11. 2	12	18
12	18	3. 6. 23	3. 9. 12	3. 11. 48	3. 14. 15	3. 16. 36	18	12
6	24	3. 12. 5	3. 14. 56	3. 17. 31	3. 19. 55	3. 22. 13	24	6
V. 0	I. 0	3. 17. 59	3. 20. 49	3. 23. 21	3. 25. 42	3. 27. 54	VII. 0	XI. 0
24	6	3. 24. 5	3. 26. 51	3. 29. 19	4. 1. 34	4. 3. 41	6	24
18	12	4. 0. 25	4. 3. 6	4. 5. 27	4. 7. 35	4. 9. 23	12	18
12	18	4. 7. 0	4. 9. 32	4. 11. 44	4. 13. 43	4. 15. 32	18	12
6	24	4. 13. 50	4. 16. 7	4. 18. 12	4. 19. 59	4. 21. 37	24	6
0	II. 0	4. 20. 58	4. 23. 3	4. 24. 50	4. 26. 23	4. 27. 49	VIII. 0	X. 0
24	6	4. 28. 23	5. 0. 8	5. 1. 38	5. 2. 56	5. 4. 6	6	24
18	12	5. 6. 2	5. 7. 25	5. 8. 35	5. 9. 35	5. 10. 30	12	18
12	18	5. 13. 54	5. 14. 51	5. 15. 39	5. 16. 21	5. 16. 57	18	12
6	24	5. 21. 54	5. 22. 24	5. 22. 48	5. 23. 9	5. 23. 28	24	6
III. 0	III. 0	6. 0. 0	6. 0. 0	6. 0. 0	6. 0. 0	6. 0. 0	IX. 0	IX. 0



## Residuum T A B U L Æ IV.

Pro inveniendò argumento annuo aberrationis in Declinationem.

Argumentum in fronte, *Declinatio Stellæ ad fenos gradus.*  
 Argumentum in latere, *Ascensio recta Stellæ ad fenos gradus.*

Stellæ Bor.		Declinatio Stellæ.					Stellæ Aust	
Subtr. a 2. Sig.	Adde ad 0. Sig.	42. S. G. M.	48. S. G. M.	54. S. G. M.	60. S. G. M.	66. S. G. M.	Adde ad 6. Sig.	Subtr. a 6. Sig.
IX. °	IX. °	0. 0. 0	0. 0. 0	0. 0. 0	0. 0. 0	0. 0. 0	III. °	III. °
24	6	0. 4.25	0. 4.42	0. 4.58	0. 5.14	0. 5.29	6	24
18	12	0. 8.50	0. 9.24	0. 9.56	0.10.27	0.10.57	12	18
	18	0.13.14	0.14. 6	0.14.54	0.15.40	0.16.24	18	12
	24	0.17.37	0.18.46	0.19.50	0.20.51	0.21.50	24	6
VIII. °	X. °	0.22. 1	0.23.27	0.24.46	0.26. 1	0.27.14	IV. °	II. °
24	6	0.26.24	0.28. 6	0.29.41	I. 1.10	I. 2.35	6	24
18	12	I. 0.46	I. 2.45	I. 4.34	I. 6.17	I. 7.55	12	18
12	18	I. 5. 8	I. 7.23	I. 9.27	I.11.22	I.13.13	18	12
	24	I. 9.30	I.12. 1	I.14.19	I.16.27	I.18.38	24	6
VII. °	XI. °	I.13.52	I.16.26	I.19.11	I.21.31	I.23.42	V. °	I. °
24	6	I.18.15	I.21.18	I.24. 3	I.26.34	I.28.41	6	24
	12	I.22.29	I.25.58	I.28.57	2. 1.18	2. 4. 9	12	18
	18	I.27. 5	2. 0.41	2. 3.51	2. 6.43	2. 9.23	18	12
	24	2. 1.57	2. 5.26	2. 8.49	2.11.51	2.14.39	24	6
VI. °	XII. °	2. 6. 8	2.10. 8	2.13.51	2.17. 3	2.19.56	VI. °	XII. °
24	6	2.10.47	2.15.11	2.18.59	2.22.18	2.25.17	6	24
18	12	2.15.34	2.20.16	2.24.14	2.27.42	3. 0.44	12	18
	18	2.20.30	2.25.25	2.29.35	3. 3.13	3. 6.23	18	12
	24	2.25.39	3. 0.54	3. 5.13	3. 8.54	3.12. 5	24	6
V. °	I. °	3. 1. 4	3. 6.35	3.11. 3	3.14.47	3.17.59	VII. °	XI. °
24	6	3. 6.49	3.12.34	3.17. 9	3.20.55	3.24. 5	6	24
18	12	3.12.59	3.18.56	3.23.35	3.27.19	4. 0.25	12	18
12	18	3.19.40	3.25.45	4. 0.22	4. 4. 1	4. 7. 0	18	12
	24	3.27. 0	4. 3. 6	4. 7.36	4.11. 3	4.13.50	24	6
IV. °	II. °	4. 5. 8	4.11. 3	4.15.16	4.18.28	4.20.58	VIII. °	X. °
24	6	4.14.12	4.20. 4	4.23.26	4.26.12	4.28.23	6	24
	12	4.24.32	4.28.58	5. 2. 4	5. 4.19	5. 6. 2	12	18
	18	5. 5.27	5. 8.55	5.11. 8	5.12.42	5.13.54	18	12
	24	5.17.27	5.19.18	5.20.29	5.21. 7	5.21.54	24	60
III. °	III. °	6. 0. 0	6. 0. 0	6. 0. 0	6. 0. 0	6. 0. 0	IX. °	IX. °

Supplementum TABULÆ IV.

Pro inveniendō argumento annuo aberrationis in Declinationem Stellarum Eclipticæ, & coluro solstitiorum vicinorum.

Argumentum in fronte, Declinatio stellæ ad singulos gradus.

Argumentum in latere, Ascensio recta stellæ ad singulos gradus.

Stell. Bor.		Declinatio Stellæ.							Stell. Auf.	
Subtr. a 12. Sig.	add. ad 6. Sig.	19. S. G. M.	20. S. G. M.	21. S. G. M.	22. S. G. M.	23. S. G. M.	24. S. G. M.	add. ad 6. Sig.	Subtr. a 6. Sig.	
II.									VIII	
11	19	1. 6. 41	1. 14. 33	1. 24. 18	2. 5. 52	2. 18. 46	3. 1. 45	19	11	
10	20	1. 4. 26	1. 12. 17	1. 22. 17	2. 4. 3	2. 18. 36	3. 2. 52	20	10	
9	21	1. 1. 58	1. 9. 43	1. 19. 55	2. 2. 57	2. 18. 18	3. 4. 8	21	9	
8	22	0. 29. 16	1. 6. 49	1. 17. 6	2. 0. 52	2. 17. 49	3. 5. 37	22	8	
7	23	0. 26. 20	1. 3. 32	1. 13. 46	1. 28. 14	2. 17. 4	3. 7. 22	23	7	
6	24	0. 23. 9	0. 29. 52	1. 9. 48	1. 24. 49	2. 15. 56	3. 9. 28	24	6	
5	25	0. 19. 45	0. 25. 46	1. 5. 7	1. 20. 23	2. 14. 11	3. 12. 20	25	5	
4	26	0. 16. 7	0. 21. 16	0. 29. 18	1. 14. 32	2. 11. 26	3. 16. 15	26	4	
3	27	0. 12. 17	0. 16. 22	0. 23. 17	1. 6. 49	2. 6. 47	3. 22. 8	27	3	
2	28	0. 8. 17	0. 11. 8	0. 16. 6	0. 26. 45	1. 28. 3	4. 2. 13	28	2	
1	29	0. 4. 11	0. 5. 38	0. 8. 15	0. 14. 14	1. 9. 16	4. 22. 36	29	1	
0	30	0. 0. 0	0. 0. 0	0. 0. 0	0. 0. 0	0. 0. 0	6. 0. 0	0	0	
II. III.									IX. IX.	

Stell. Bor.		Residuum supplementi.						Stell. Auf.	
Subtr. a 12. Sig.	add. ad 6. Sig.	Declinatio Stellæ.						add. ad 6. Sig.	Subtr. a 6. Sig.
II.		25.	26.	27.	28.	29.	30.	VIII	
11	19	3. 13. 38	3. 23. 43	4. 1. 54	4. 8. 26	4. 13. 39	4. 17. 51	19	11
10	20	3. 15. 49	3. 26. 36	4. 4. 45	4. 11. 38	4. 16. 48	4. 20. 54	20	10
9	21	3. 18. 19	3. 29. 44	4. 8. 28	4. 15. 6	4. 20. 10	4. 24. 7	21	9
8	22	3. 21. 15	4. 3. 23	4. 12. 18	4. 18. 51	4. 23. 46	4. 27. 31	22	8
7	23	3. 24. 46	4. 7. 34	3. 16. 34	4. 22. 56	4. 27. 35	5. 1. 6	23	7
6	24	3. 29. 5	4. 12. 26	4. 21. 18	4. 27. 21	5. 1. 39	5. 4. 48	24	6
5	25	4. 4. 20	4. 18. 5	4. 26. 35	5. 2. 7	5. 5. 57	5. 8. 45	25	5
4	26	4. 11. 4	4. 24. 39	5. 2. 23	5. 7. 13	5. 10. 28	5. 12. 48	26	4
3	27	4. 19. 44	5. 2. 10	5. 8. 42	5. 12. 36	5. 15. 10	5. 17. 0	27	3
2	28	5. 0. 48	5. 10. 46	5. 15. 31	5. 18. 15	5. 20. 1	5. 21. 17	28	2
1	29	5. 14. 30	5. 20. 9	5. 22. 40	5. 24. 5	5. 25. 0	5. 25. 38	29	1
0	30	6. 0. 0	6. 0. 0	6. 0. 0	6. 0. 0	6. 0. 0	6. 0. 0	30	0
II. III.								IX. IX.	

**TABULA V.**

Correctio Nodi Lunæ, qui adhiberi debet pro Argumentis Tabularum Nutationis. In Longit. Ascension. Rect. & Declinationem.

ARG. Longitudo Nodi Lunæ.

Sub.	O.		I.	II.	Sub.
Sub.	VI.		VII.	VIII.	Sub.
G.	G.	M.	G.	M.	G.
0	0	0	6 45	7 49	30
1	0	15	6 54	7 41	29
2	0	30	7 3	7 33	28
3	0	46	7 12	7 24	27
4	1	1	7 20	7 15	26
5	1	16	7 28	7 5	25
6	1	31	7 36	6 54	24
7	1	47	7 43	6 43	23
8	2	2	7 49	6 31	22
9	2	17	7 55	6 18	21
10	2	32	8 0	6 5	20
11	2	46	8 5	5 51	19
12	3	0	8 10	5 36	18
13	3	15	8 14	5 21	17
14	3	29	8 17	5 5	16
15	3	43	8 20	4 48	15
16	3	57	8 23	4 31	14
17	4	10	8 25	4 14	13
18	4	24	8 26	3 56	12
19	4	37	8 26	3 38	11
20	4	50	8 26	3 20	10
21	5	3	8 25	3 1	9
22	5	16	8 24	2 42	8
23	5	28	8 22	2 22	7
24	5	40	8 19	2 2	6
25	5	52	8 15	1 42	5
26	6	3	8 11	1 21	4
27	6	14	8 7	1 1	3
28	6	25	8 2	0 41	2
29	6	35	7 56	0 21	1
30	6	45	7 49	0 0	0
adde	V.		IV.	III.	adde
adde	XI.		X.	IX.	adde

**TABULA VI.**

Æquatio prima Ascensionis rectæ veræ stellarum fixarum ob nutationem axis Telluris.

ARG. Long. Nodi ☽ per Tab. V. corr.

Sub.	O.	I.	II.	Sub.
adde	VI.	VII.	VIII.	adde
G.	S.	S.	S.	G.
0	0 0	10 4	17 9	30
1	0 3	10 7	18 1	29
2	0 6	11 0	18 3	28
3	1 0	11 3	18 4	27
4	1 4	11 6	18 6	26
5	1 8	11 9	18 7	25
6	2 2	12 2	18 9	24
7	2 6	12 5	19 0	23
8	2 9	12 8	19 2	22
9	3 3	13 0	19 3	21
10	3 6	13 3	19 5	20
11	3 9	13 6	19 6	19
12	4 3	13 9	19 7	18
13	4 7	14 1	19 8	17
14	5 0	14 4	19 9	16
15	5 4	14 6	20 0	15
16	5 7	14 9	20 1	14
17	6 0	15 1	20 2	13
18	6 4	15 4	20 3	12
19	6 7	15 6	20 3	11
20	7 1	15 9	20 4	10
21	7 5	16 1	20 4	9
22	7 8	16 3	20 5	8
23	8 1	16 5	20 5	7
24	8 5	16 8	20 6	6
25	8 8	17 0	20 6	5
26	9 1	17 2	20 7	4
27	9 4	17 4	20 7	3
28	9 7	17 6	20 7	2
29	10 1	17 8	20 7	1
30	10 4	17 9	20 7	0
Sub.	V.	IV.	III.	Sub.
adde	XI.	X.	IX.	adde



# T A B U L A VII.

Æquatio secunda Ascensionis rectæ veræ Stellarum  
fixarum ob nutationem axis Telluris.

Ascensio recta Stella- rum — lon- gitud. nodi Lunæ.	Declinatio Borealis Stellarum fixarum.										Subtrahere Addere								
	G.6	G.12	G.18	G.24	G.30	G.36	G.42	G.48	G.54										
	S.	S.	S.	S.	S.	S.	S.	S.	S.	S.									
S. G.																			
O. VI. 0	0	9	1	9	2	9	4	0	5	2	6	5	8	1	10	0	12	4	O. VI. XII.
6	0	9	1	9	2	9	4	0	5	2	6	5	8	1	9	9	12	3	24
12	0	9	1	9	2	9	3	9	5	1	6	4	7	9	9	8	12	1	18
18	0	9	1	8	2	8	3	8	4	9	6	2	7	7	9	5	11	8	12
24	0	9	1	7	2	7	3	7	4	7	6	0	7	4	9	1	11	3	6
I. VII. 0	0	8	1	7	2	5	3	5	4	5	5	7	7	0	8	7	10	7	O. V. XI.
6	0	8	1	5	2	4	3	2	4	2	5	3	6	6	8	1	10	0	24
12	0	7	1	4	2	2	3	0	3	9	4	8	6	0	7	4	9	2	18
18	0	6	1	3	2	0	2	7	3	5	4	3	5	4	6	7	8	3	12
24	0	6	1	1	1	7	2	4	3	1	3	8	4	8	5	9	7	3	6
II. VIII. 0	0	5	0	9	1	5	2	0	2	6	3	3	4	1	5	0	6	2	O. IV. X.
6	0	4	0	8	1	2	1	6	2	1	2	7	3	3	4	1	5	0	24
12	0	3	0	6	0	9	1	2	1	6	2	0	2	5	3	1	3	8	18
18	0	2	0	4	0	6	0	8	1	1	1	4	1	7	2	1	2	6	12
24	0	1	0	2	0	3	0	4	0	5	0	7	0	8	1	0	1	3	6
III. IX. 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	O. III. IX.
	S.	S.	S.	S.	S.	S.	S.	S.	S.	S.	S.	S.	S.	S.	S.	S.	S.	S.	G.
Subtrahere Addere	G.6	G.12	G.18	G.24	G.30	G.36	G.42	G.48	G.54	Ascensio recta Stella- rum — lon- gitud. nodi Lunæ.									
	Declinatio Borealis Stellarum fixarum.																		



T A B U L A VII.

Æquatio secunda Ascensionis rectæ veræ Stellarum fixarum ob mutationem axis Telluris.

Ascensio recta Stellarum — longitud. nodi Lunæ.		Declinatio Borealis Stellarum fixarum.						Adda	Subtrahenda
		G. 60	G. 66	G. 72	G. 78	G. 81	Stell. Pol.		
S.	G.	S.	S.	S.	S.	S.	M. S.		
U. VI.	0	15 6	20 2	27 7	42 3	56 8	4 14 5	0 VI. XII	
	6	15 5	30 1	27 5	42 1	56 5	4 13 2	24	
	12	15 2	19 8	27 1	41 4	55 6	4 9 0	18	
	18	14 8	19 2	26 3	40 3	54 0	4 2 1	12	
I. VII.	24	14 2	18 5	25 0	38 7	51 9	3 52 5	6	
	0	13 5	17 5	24 0	36 7	49 2	3 40 4	0 V. XI.	
II. VIII.	6	12 6	15 4	22 4	34 2	46 0	3 25 9	24	
	12	11 6	15 0	20 6	31 5	42 2	3 9 2	18	
	18	10 4	13 5	18 5	28 3	38 0	2 50 3	12	
	24	9 2	11 9	16 3	24 9	33 4	2 29 6	6	
	0	7 8	10 1	13 8	21 2	28 4	2 7 3	0 IV. X.	
III. IX.	6	6 3	8 2	11 3	17 2	23 1	1 43 5	24	
	12	4 8	6 2	8 6	13 1	17 6	1 18 7	18	
	18	3 2	4 2	5 8	8 3	11 8	0 52 9	12	
	24	1 6	2 1	2 9	4 4	5 9	0 26 6	6	
	0	0 0	0 0	0 0	0 0	0 0	0 0 0	0 III. IX	
		S.	S.	S.	S.	S.	M. S.	G.	S.
Subtrahenda	Adda	G. 60	G. 66	G. 72	G. 78	G. 81	Stel. Pol.	Ascensio recta Stellarum — longitud. nodi Lunæ.	
		Declinatio Borealis Stellarum fixarum.							

T A B U L A VII.

Æquatio Secunda Ascensionis rectæ veræ Stellarum fixarum ob mutationem axis telluris.

Ascensio recta stella- rum — lon- gitud. nod. Lunæ.		Declinatio Australis Stellarum.										Subtrahere Addere									
		G.6	G.12	G.18	G.24	G.30	G.36	G.42	G.48	G.54											
		S.	S.	S.	S.	S.	S.	S.	S.	S.											
S. O. VI.	G. <sub>1</sub>	0	9	1	9	2	9	4	0	5	2	6	5	8	1	10	0	12	4	o. VI. XII	
	6	0	9	1	9	2	9	4	0	5	2	6	5	8	1	9	9	12	3		24
	12	0	9	1	9	2	9	3	9	5	1	6	4	7	9	9	8	12	1		18
	18	0	9	1	8	2	8	3	8	4	9	6	2	7	7	9	5	11	8		12
	24	0	9	1	7	2	7	3	7	4	7	6	0	7	4	9	1	11	3		6
I. VII.	0	0	8	1	7	2	5	3	5	4	5	5	7	7	0	8	7	10	7	o. V. XI.	
		6	0	8	1	5	2	4	3	2	4	2	5	3	6	6	8	1	10	0	24
		12	0	7	1	4	2	2	3	0	3	9	4	8	5	0	7	4	9	2	18
		18	0	6	1	3	2	0	2	7	3	5	4	3	5	4	6	7	8	3	12
		24	0	6	1	1	1	7	1	4	3	1	3	8	4	8	5	9	7	3	6
II. VIII.	0	0	5	0	9	1	5	2	0	2	6	3	3	4	1	5	0	6	2	o. IV. X.	
		6	0	4	0	8	1	2	1	6	2	1	2	7	3	3	4	1	5	0	24
		12	0	3	0	6	0	9	1	2	1	6	2	0	2	5	3	1	3	8	18
		18	0	2	0	4	0	6	0	8	1	1	1	4	1	7	2	1	2	6	12
		24	0	1	0	2	0	3	0	4	0	5	0	7	0	8	1	0	1	3	6
III. IX.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	o. III. IX.	
		S.	S.	S.	S.	S.	S.	S.	S.	S.	S.	S.	S.	S.	S.	S.	S.	S.	S.	G.	S.
Addere Subtrahere	G.6	G.12	G.18	G.24	G.30	G.36	G.42	G.48	G.54	Ascensio recta Stella- rum — lon- gitud. nod. Lunæ.											
	Declinatio Australis Stellarum fixarum.																				

# T A B U L A VII.

Æquatio secunda Ascensionis rectæ veræ Stellarum  
fixarum ob nutationem axis Telluris.

Ascensio recta Stellarum — Longitud. nodi Lunæ		Declinatio Australis Stellarum fixarum.										Addere	Subtrahere				
		G. 60		G. 65		G. 72		G. 78		G. 81		Stella Polaris					
		S.	S.	S.	S.	S.	S.	S.	S.	S.	M. S.						
J. VI.	0	15	6	20	2	27	7	42	3	56	8	4	14	5	o. VI.	XII.	
	6	15	5	20	1	27	5	42	1	56	5	4	13	1		24	
	12	15	2	19	8	27	1	41	4	55	6	4	9	0		18	
	18	14	8	19	2	26	3	41	3	54	0	4	2	1		12	
	24	14	2	18	5	25	0	38	7	51	9	3	52	5		6	
L. VII.	0	13	5	17	5	24	0	36	7	49	2	3	40	4	o. V.	XI.	
			6	12	6	16	4	22	4	34	0	46	0	3	25	9	24
			12	11	6	15	0	20	6	31	5	42	2	3	9	2	18
			18	10	4	13	5	18	5	28	3	38	0	2	50	3	12
			24	9	2	11	9	16	3	24	9	33	4	2	29	6	6
II. VIII.	0	7	8	10	1	13	8	21	2	28	4	2	7	3	o. IV.	X.	
			6	6	3	8	2	11	3	17	2	23	1	1	43	5	24
			12	4	8	6	2	8	6	13	1	17	6	1	18	7	18
			18	3	7	4	2	5	8	8	8	11	8	0	52	9	12
			24	1	6	2	1	2	9	4	4	5	9	0	26	6	6
III. IX.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	o. III.	IX.	
			S.	S.	S.	S.	S.	S.	S.	M. S.			G.	S.			
			G. 60	G. 66	G. 72	G. 78	G. 81	Stella Polaris.		Ascensio recta Stellarum — Longitud. nodi Lunæ.							
	Addere		Declinatio Australis Stellarum fixarum.														
	Subtrahere.																

T A B U L A VIII.  
 Reductio Aberrationum maximarum ad actuales Aberrationes.

Signa Argumenti anni aberrationum.

Subtrahere descendendo

O.

Addere descendendo

VI.

Aberrationes maximæ Stellarum.

G.	4.		8.		12.		16.		20.		24.		28.		32.		G.
	S.	O.	S.	O.	S.	O.	S.	O.	S.	O.	S.	O.	S.	O.			
0	4	0	8	0	12	0	16	0	20	0	24	0	28	0	32	0	30
1	4	0	8	0	12	0	16	0	20	0	24	0	28	0	32	0	29
2	4	0	8	0	12	0	16	0	20	0	24	0	28	0	32	0	28
3	4	0	8	0	12	0	16	0	20	0	24	0	28	0	32	0	27
4	4	0	8	0	12	0	16	0	19	9	23	9	27	9	31	9	26
5	4	0	8	0	12	0	15	9	19	9	23	9	27	9	31	9	25
6	4	0	8	0	11	9	15	9	19	9	23	9	27	9	31	8	24
7	4	0	7	9	11	9	15	9	19	8	23	8	27	8	31	8	23
8	4	0	7	9	11	9	15	8	19	8	23	8	27	7	31	7	22
9	4	0	7	9	11	9	15	8	19	8	23	7	27	7	31	6	21
10	3	9	7	9	11	8	15	8	19	7	23	6	27	6	31	5	20
11	3	9	7	9	11	8	15	7	19	7	23	6	27	5	31	4	19
12	3	9	7	8	11	7	15	6	19	6	23	5	27	4	31	3	18
13	3	9	7	8	11	7	15	6	19	5	23	4	27	3	31	2	17
14	3	9	7	8	11	7	15	5	19	4	23	3	27	2	31	0	16
15	3	9	7	7	11	6	15	4	19	3	23	2	27	0	30	9	15
16	3	9	7	7	11	6	15	4	19	2	23	1	26	9	30	8	14
17	3	9	7	6	11	5	15	3	19	1	22	9	26	8	30	7	13
18	3	8	7	6	11	4	15	2	19	0	22	8	16	6	30	4	12
19	3	8	7	6	11	4	15	1	18	9	22	7	26	5	30	3	11
20	3	8	7	5	11	3	15	0	18	8	22	6	26	3	30	1	10
21	3	8	7	5	11	3	14	9	18	7	22	4	26	1	30	0	9
22	3	7	7	4	11	2	14	8	18	5	22	2	26	0	29	7	8
23	3	7	7	4	11	1	14	7	18	4	22	1	25	8	29	4	7
24	3	7	7	3	11	0	14	6	18	3	21	9	25	6	29	2	6
25	3	7	7	2	10	9	14	5	18	1	21	7	25	4	29	0	5
26	3	6	7	2	10	8	14	4	18	0	21	6	25	2	28	8	4
27	3	6	7	1	10	7	14	3	17	9	21	4	25	0	28	5	3
28	3	6	7	1	10	6	14	2	17	7	21	2	24	7	28	3	2
29	3	5	7	0	10	5	14	1	17	5	21	0	24	5	28	0	1
30	3	5	6	9	10	4	13	9	17	3	20	8	24	2	27	7	0

V.

Addere ascendendo.

XI.

Subtrahere ascendendo.

Signa Argumenti anni Aberrationum.

NB. Pars proportionalis sedulo inquirenda.

Si maxima Aberratio intra quatuor secunda computat, assumatur ejus duplum, vel triplum, quæ-  
 tur reductio in Tabula, & ejus semissa, vel triens erit quantitas quaesita.  
 Si maxima Aberratio ultra 4. secunda computat, assumatur ejus semissa, vel triens quæratu-  
 ræ ductio in hæc Tabula, & ejus duplum, vel triplum erit quantitas quaesita.



Continuatio TABULÆ VIII.  
 Reductio Aberrationum maximarum ad actuales Aberrationes.

Signa Argumenti anni Aberrationum.

Subtrahe descendo

I.

Adde descendo

VII.

Aberrationes maximæ Stellarum.

G.	4. o		8. o		12. o		16. o		20. o		24. o		28. o		32. o		36. o		G.
	S.	S.	S.	S.	S.	S.	S.	S.	S.	S.	S.	S.	S.	S.	S.	S.	S.		
0	3	5	6	9	10	4	13	9	17	3	20	8	24	2	27	7	31	2	30
1	3	4	6	8	10	3	13	7	17	2	20	5	24	0	27	4	30	9	29
2	3	4	6	8	10	2	13	6	17	0	20	3	23	7	27	1	30	5	48
3	3	4	6	7	10	1	13	4	16	8	20	1	23	5	26	3	30	2	27
4	3	3	6	6	9	9	13	3	16	6	19	9	23	2	26	5	29	8	26
5	3	3	6	6	9	8	13	1	16	4	19	7	22	9	26	2	29	5	25
6	3	2	6	5	9	7	12	9	16	2	19	4	22	6	25	9	29	1	24
7	3	2	6	4	9	6	12	7	16	0	19	2	22	4	25	5	28	7	23
8	3	2	6	3	9	5	12	6	15	8	18	9	22	1	25	2	28	4	22
9	3	1	6	2	9	4	12	4	15	6	18	6	21	8	24	9	28	0	21
10	3	1	6	1	9	2	12	3	15	3	18	4	21	5	24	5	27	6	20
11	3	1	6	0	9	1	12	1	15	1	18	1	21	1	24	1	27	2	19
12	3	0	5	9	9	0	11	9	14	9	17	8	20	8	23	8	26	7	18
13	3	0	5	8	8	8	11	7	14	6	17	5	20	5	23	5	26	3	17
14	2	9	5	8	8	7	11	5	14	4	17	3	20	1	23	0	25	9	16
15	2	9	5	7	8	5	11	3	14	1	17	0	19	8	22	6	25	5	15
16	2	8	5	6	8	4	11	1	13	9	16	7	19	5	22	2	25	0	14
17	2	8	5	5	8	2	10	9	13	7	16	4	19	1	21	8	24	6	13
18	2	7	5	3	8	0	10	7	13	4	16	0	18	7	21	4	24	1	12
19	2	7	5	2	7	9	10	5	13	1	15	7	18	4	21	0	23	6	11
20	2	6	5	1	7	8	10	3	12	9	15	4	18	0	20	6	23	1	10
21	2	6	5	0	7	6	10	1	12	6	15	1	17	6	20	1	22	7	9
22	2	5	4	9	7	4	9	9	12	3	14	8	17	2	19	7	22	2	8
23	2	5	4	8	7	3	9	7	12	0	14	5	16	9	19	3	21	7	7
24	2	4	4	7	7	1	9	4	11	8	14	1	16	5	18	8	21	2	6
25	2	4	4	6	6	9	9	2	11	5	13	8	16	1	18	3	20	6	5
26	2	3	4	5	6	7	9	0	11	2	13	4	15	6	17	9	20	1	4
27	2	2	4	4	6	1	8	8	10	9	13	1	15	2	17	4	19	6	3
28	2	2	4	2	6	4	8	5	10	6	12	7	14	8	17	0	19	1	2
29	2	1	4	1	6	2	8	3	10	3	12	4	14	4	16	5	18	5	1
30	2	0	4	0	6	0	8	0	10	0	12	0	14	0	16	0	18	0	0

IV.

Adde ascendendo.

X.

Subtrahe ascendendo.

Signa Argumenti anni Aberrationum.

NR. Pars proportionalis sedulo inquirenda.  
 Si maxima Aberratio intra 4, secunda consistat, assumatur ejus duplum, vel triplum, quærat  
 reductio in hac Tabula, & ejus semitas vel triens, erit quantitas quaerita.  
 Si maxima Aberratio ultra 36, secunda consistat, assumatur ejus semitas, vel triens, quærat  
 reductio in hac Tabula, & ejus duplum, vel triplum, erit quantitas quaerita.

Continuatio TABULÆ VIII.

Signa Argumenti annui Aberrationum.

Subtrahē descendendo II.

Adde descendendo VII.

Aberrationes maximæ Stellarum.

G.	4.		8.		12.		16.		20.		24.		28.		32.		G.
	S.	o	S.	o	S.	o	S.	o	S.	o	S.	o	S.	o	S.	o	
0	2	0	4	0	6	0	8	0	10	0	12	0	14	0	16	0	30
1	2	0	3	9	5	8	7	8	9	7	11	6	13	6	15	5	29
2	1	9	3	8	5	6	7	5	9	4	11	3	13	1	15	0	28
3	1	8	3	6	5	4	7	3	9	1	10	9	12	7	14	5	27
4	1	8	3	5	5	3	7	0	8	8	10	5	12	3	14	0	26
5	1	7	3	4	5	1	6	8	8	4	10	1	11	8	13	5	25
6	1	6	3	3	4	9	6	5	8	1	9	8	11	4	13	0	24
7	1	6	3	1	4	7	6	3	7	8	9	4	10	9	12	5	23
8	1	5	3	0	4	5	6	0	7	5	9	0	10	5	12	0	22
9	1	4	2	9	4	3	5	7	7	2	8	6	10	0	11	5	21
10	1	4	2	7	4	1	5	5	6	8	8	2	9	6	10	9	20
11	1	3	2	6	3	9	5	2	6	5	7	8	9	1	10	4	19
12	1	2	2	5	3	7	4	9	6	2	7	4	8	6	9	9	18
13	1	2	2	3	3	5	4	7	5	9	7	0	8	2	9	3	17
14	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	16
15	1	0	2	1	3	1	4	1	5	2	6	2	7	2	8	3	15
16	1	0	1	9	2	9	3	9	4	8	5	8	6	8	7	7	14
17	0	9	1	8	2	7	3	6	4	5	5	4	6	3	7	2	13
18	0	8	1	7	2	5	3	3	4	2	5	0	5	8	6	6	12
19	0	8	1	5	2	3	3	0	3	8	4	6	5	3	6	1	11
20	0	7	1	4	2	1	2	3	3	5	4	2	4	9	5	5	10
21	0	6	1	3	1	9	2	5	3	1	3	8	4	4	5	0	9
22	0	6	1	1	1	7	2	2	2	8	3	3	3	9	4	4	8
23	0	5	1	0	1	5	1	9	2	4	2	9	3	4	3	9	7
24	0	4	0	8	1	3	1	7	2	1	2	5	2	9	3	3	
25	0	3	0	7	1	0	1	4	1	7	2	1	2	4	2	8	6
26	0	3	0	6	0	8	1	1	1	4	1	7	2	0	2	2	54
27	0	2	0	4	0	6	0	8	1	0	1	3	1	5	1	7	3
28	0	1	0	3	0	4	0	6	0	7	0	8	1	0	1	1	2
29	0	1	0	1	0	2	0	3	0	4	0	4	0	5	0	6	1
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

III. Adde ascendendo.

IX. Subtrahē ascendendo.

Signa Argumenti annui Aberrationum.

III. Pars proportionalis sedulo inquirenda.  
 Si maxima Aberratio intra quatuor secunda consistat, assumatur ejus duplum, vel triplum. Quarta-  
 tur redutio in Tabula, & ejus semitris, vel triens erit quantitas quæsitæ.  
 Si maxima Aberratio ultra 30. secunda consistat, assumatur ejus semitris, vel triens quatuor-  
 tesimo in hac Tabula, & ejus duplum, vel triplum erit quantitas quæsitæ.

## TABULA IX.

Nutatio fixarum in Declinationem.

Pro fixis habentibus Declinationem Borealem.					Pro fixis habentibus Declinationem Australem.														
Ascensio recta Stel- larum — Long. No- di Lunæ.	O.	I.	II.	Adde.	Ascensio recta Stel- larum — Long. No- di Lunæ.	O.	I.	II.	Subtrahe										
	VI.	VII.	VIII.	Subtrahe		VI.	VII.	VI.	Adde.										
	S.	S.	S.			S.	S.	S.											
G. 0	0	0	4	5	7	8			30	G. 0	0	0	4	5	7	8			30
1	0	1	4	7	7	9			29	1	0	1	4	7	7	9			29
2	0	3	4	8	7	9			28	2	0	3	4	8	7	9			28
3	0	4	4	9	8	0			27	3	0	4	4	4	8	0			27
4	0	6	5	0	8	1			26	4	0	6	5	0	8	1			26
5	0	8	5	1	8	1			25	5	0	8	5	1	8	1			25
6	0	1	5	3	8	2			24	6	0	9	5	3	8	2			24
7	1	3	5	4	8	3			23	7	1	1	5	4	8	3			23
8	1	5	5	5	8	3			22	8	1	3	5	5	8	3			22
9	1	6	5	7	8	4			21	9	1	5	5	7	8	4			21
10	1	8	5	8	8	5			20	10	1	6	5	8	8	5			20
11	1	8	5	9	8	6			19	11	1	8	5	9	8	6			19
12	1	9	6	0	8	6			18	12	1	9	6	0	8	6			18
13	2	0	6	1	8	7			17	13	2	0	6	1	8	7			17
14	2	2	6	3	8	7			16	14	2	2	6	3	8	7			16
15	2	3	6	3	8	7			15	15	2	3	6	4	8	7			15
16	2	5	6	5	8	7			14	16	2	5	6	5	8	7			14
17	2	7	6	6	8	8			13	17	2	7	6	6	8	8			13
18	2	8	6	7	8	8			12	18	2	8	6	7	8	8			12
19	2	9	6	8	8	9			11	19	2	9	6	8	8	9			11
20	3	1	6	9	8	9			10	20	3	1	6	9	8	9			10
21	3	3	7	0	8	9			9	21	3	3	7	0	8	9			9
22	3	4	7	1	8	9			8	22	3	4	7	1	8	9			8
23	3	6	7	2	9	0			7	23	3	6	7	2	9	0			7
24	3	7	7	3	9	0			6	24	3	7	7	3	9	0			6
25	3	8	7	4	9	0			5	25	3	8	7	4	9	0			5
26	3	9	7	5	9	0			4	26	3	9	7	4	9	0			4
27	4	0	7	6	9	0			3	27	4	0	7	6	9	0			3
28	4	2	7	6	9	0			2	28	4	2	7	6	9	0			2
29	4	4	7	7	9	0			1	29	4	4	7	7	9	0			1
30	4	5	7	8	9	0			0	30	4	5	7	8	9	0			0
Adde	V.	IV.	III.	Ascensio recta Stel- larum — Long. no- di Lunæ						Subtrahe.	V.	IV.	III.	Ascensio recta Stel- larum — Long. No- di Lunæ.					
Subtrahe.	XI.	X.	IX.							Adde.	XI.	X.	IX.						

NB. Nutatio ex hac Tabula invenit a correctione eorum Tabulæ X.



# TABULA X.

Correctio semper subtractiva a Nutationibus fixarum  
reperitis per Tabulas VI. VII. IX. & XIII.

ARG. in latere Locus Nodi ☉ per Tab. V correctus.		ARG. in fronte, Nutatio reperta per Tabulas VI. VII. IX. & XIII.										ARG. in latere Locus Nodi ☉ per Tab. V. correctus.	
S. G. S.		2	4	6	8	10	12	14	16	18		S. G. S.	
		Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.			
O. o VI.	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	VI. 30 XII	
12	0 0	0 0	0 1	0 1	0 1	0 1	0 1	0 2	0 2	0 2	0 2	18	
18	0 0	0 1	0 1	0 2	0 2	0 3	0 3	0 3	0 4	0 4	0 4	12	
23	0 1	0 1	0 2	0 3	0 3	0 4	0 5	0 5	0 5	0 6	0 6	7	
26	0 1	0 2	0 3	0 4	0 4	0 5	0 6	0 6	0 7	0 7	0 8	4	
I. o VII.	0 1	0 2	0 3	0 5	0 6	0 7	0 8	0 9	0 9	1 0	1 0	V. o XI	
2	0 2	0 3	0 4	0 6	0 7	0 8	1 0	1 0	1 0	1 1	1 2	28	
5	0 2	0 3	0 5	0 6	0 8	0 9	1 1	1 1	1 2	1 4	1 4	25	
8	0 2	0 4	0 5	0 7	0 9	1 0	1 2	1 2	1 4	1 6	1 6	22	
10	0 2	0 4	0 6	0 8	1 0	1 2	1 4	1 4	1 6	1 8	1 8	20	
13	0 2	0 4	0 7	0 9	1 1	1 3	1 6	1 6	1 8	2 0	2 0	17	
16	0 2	0 5	0 7	1 0	1 2	1 5	1 7	1 7	2 0	2 2	2 2	14	
18	0 3	0 5	0 8	1 1	1 3	1 6	1 9	1 9	2 1	2 4	2 4	12	
21	0 3	0 6	0 9	1 2	1 4	1 7	2 0	2 0	2 3	2 6	2 6	9	
23	0 3	0 6	0 9	1 2	1 6	1 9	2 1	2 1	2 5	2 8	2 8	7	
26	0 3	0 7	1 0	1 3	1 7	2 0	2 3	2 3	2 6	3 0	3 0	5	
28	0 4	0 7	1 1	1 4	1 8	2 1	2 5	2 5	2 8	3 2	3 2	3	
II. o VIII.	0 4	0 8	1 1	1 5	1 9	2 3	2 6	3 0	3 4	3 4	3 4	IV. o X.	
4	0 4	0 8	1 2	1 6	2 0	2 4	2 8	3 2	3 6	3 6	3 6	16	
7	0 4	0 8	1 3	1 7	2 1	2 5	3 0	3 4	3 8	3 8	3 8	22	
10	0 4	0 9	1 3	1 8	2 2	2 7	3 1	3 6	4 0	4 0	4 0	20	
14	0 5	0 9	1 4	1 9	2 3	2 8	3 3	3 7	4 2	4 2	4 2	16	
20	0 5	1 0	1 5	2 0	2 5	2 9	3 4	3 9	4 4	4 4	4 4	10	
III. o IX.	0 5	1 0	1 5	2 0	2 6	3 1	3 6	4 1	4 6	4 6	4 6	III. o IX	
S. G. S.		2	4	6	8	10	12	14	16	18		S. G. S.	



# T A B U L A X I

Aberratio longitudinis stellarum fixarum.

Digressio stellarum fixarum a Sole.	Latitudo stellarum fixarum.												Subtrahere Adde.
	G.	G.	G.	G.	G.	G.	G.	G.	G.	G.	G.	G.	
	0	10	20	30	40	50	60	64	68	70	72	74	
	S.	S.	S.	S.	S.	S.	S.	S.	S.	S.	S.	S.	
<b>S. G.</b>													<b>VI. XII</b>
O. VI. 0	20	20	21	22	26	31	39	45	53	58	64	72	0
6	20	20	21	23	26	31	39	45	52	57	63	71	24
12	19	20	20	22	25	30	39	44	51	56	62	70	18
18	19	19	20	22	24	29	38	43	50	55	61	68	12
24	18	18	19	21	23	28	36	41	48	53	58	65	6
I. VII. 0	17	17	18	20	22	27	34	40	46	50	55	62	O. V. XI
6	16	16	17	18	21	25	32	36	43	47	52	58	24
12	15	15	16	17	19	23	29	33	39	43	47	53	18
18	13	13	14	15	17	21	26	30	35	39	43	48	12
24	12	12	12	13	15	18	23	26	31	34	38	42	6
0	10	10	10	11	13	15	20	22	26	29	32	36	O. IV. X
<b>II. VIII</b>													
6	8	8	9	9	10	12	16	18	21	23	26	29	24
12	0	6	6	7	8	9	12	14	16	18	20	22	18
18	0	4	4	5	5	6	8	9	10	12	13	15	12
24	0	2	2	2	3	3	4	5	5	6	7	7	6
0	0	0	0	0	0	0	0	0	0	0	0	0	O. III. XI
<b>III. IX</b>	S.	S.	S.	S.	S.	S.	S.	S.	S.	S.	S.	S.	G. S.
	G.	G.	G.	G.	G.	G.	G.	G.	G.	G.	G.	G.	Digressio stellarum fixarum a Sole.
	0	10	20	30	40	50	60	64	68	70	72	74	
<b>Subtrahere Adde.</b>	<b>Latitudo stellarum fixarum.</b>												

## T A B U L A X I.

Aberratio longitudinis stellarum fixarum.

Digressio stellarum fixarum a Sole.	Longitudo stellarum fixarum.												Substantive Addo.
	G. 76		G. 78		G. 80		G. 81		G. 82		G. 83		
	M.	S.	M.	S.	M.	S.	M.	S.	M.	S.	M.	S.	
S. G.													
O. VI. o	1	21	1	35	1	54	2	6	2	22	2	42	o VLXII
6	1	21	1	34	1	53	2	5	2	21	2	41	24
12	1	20	1	33	1	51	2	3	2	19	2	38	18
18	1	18	1	30	1	48	2	0	2	15	2	34	12
24	1	14	1	27	1	44	1	55	2	9	2	28	6
I. VII. o	1	11	1	22	1	38	1	49	2	3	2	20	o V. XI.
6	1	6	1	17	1	32	1	42	1	55	2	11	24
12	1	1	1	10	1	24	1	34	1	45	2	0	18
18	o	55	1	3	1	16	1	24	1	35	1	48	12
24	o	48	o	56	1	7	1	14	1	28	1	35	6
II. VIII. o	o	41	o	47	o	57	1	3	1	11	1	21	o IV. X.
6	o	33	o	39	o	46	o	51	o	58	1	6	24
12	o	25	o	29	o	35	o	39	o	44	o	50	18
18	o	17	o	20	o	24	o	26	o	29	o	34	12
24	o	9	o	10	o	12	o	13	o	15	o	17	6
III. IX. o	o	0	o	0	o	0	o	0	o	0	o	0	o III. IX.
												G. S.	
		M. S.	M. S.	M. S.	M. S.	M. S.	M. S.	M. S.	M. S.				
		G. 76	G. 78	G. 80	G. 81	G. 82	G. 83						Digressio stellarum fixarum a Sole.
Latitudo stellarum fixarum.													

# TABULA XI.

Aberratio longitudinis stellarum fixarum.

Digressio stellarum fixarum a Sole.	Latitudo stellarum fixarum.												Subtrahite Anni.
	G. 84		G. 85		G.85.30		G.85.45		G.86. 0		G.86. 15		
	M.	S.	M.	S.	M.	S.	M.	S.	M.	S.	M.	S.	
S. G.													
O. VI. 0	3	9	3	46	4	11	4	26	4	43	5	1	0 VI. XII.
6	3	8	3	45	4	10	4	25	4	41	5	0	24
12	3	4	3	41	4	6	4	20	4	36	4	55	18
18	2	59	3	35	3	59	4	13	4	29	4	47	12
24	2	52	3	27	3	49	4	3	4	18	4	35	6
I. VII. 0	2	43	3	16	3	38	3	50	4	5	4	21	0 V. XI.
6	2	33	3	3	3	23	3	35	3	49	4	4	24
12	2	20	2	48	3	7	3	18	3	30	3	44	18
18	2	6	2	31	2	48	2	58	3	9	3	22	12
24	1	51	2	13	2	28	2	36	2	46	2	57	6
II. VIII. 0	1	34	1	53	2	6	2	13	2	21	2	31	0 IV. X.
6	1	17	1	32	1	42	1	48	1	55	2	3	24
12	0	58	1	10	1	18	1	22	1	27	1	33	18
18	0	39	0	47	0	52	0	55	0	59	1	3	12
24	0	20	0	24	0	26	0	28	0	30	0	31	6
III. IX. 0	0	0	0	0	0	0	0	0	0	0	0	0	0 III. IX.
	M.	S.	M.	S.	M.	S.	M.	S.	M.	S.	M.	S.	G. S.
Subtrahite	G. 84	G. 84	G.85.30	G.85.45	G.86. 0	G.86.15.	Digressio stellarum fixarum a Sole.						
	Latitudo stellarum fixarum.												

# T A B U L A X I.

Aberratio longitudinis stellarum fixarum.

Dignatio stellarum fi- xarum a sole	Latitudo stellarum fixarum.						Subtrahit Addit
	G. 86 30	G 87. 0	G. 87. 30	G. 87. 45	G 88 0	G. 88 12	
	M. S.	M. S.	M. S.	M. S.	M. S.	M. S.	
<b>S. G.</b>							
O. VI. 0.	5 23	6 17	7 32	8 22	9 25	10 28	o VI. XII
6	5 21	6 15	7 29	8 19	9 22	10 24	24
12	5 16	6 8	7 22	8 11	9 12	10 14	18
18	5 7	5 58	7 10	7 57	8 57	9 57	12
24	4 55	5 44	6 53	7 39	8 36	9 33	6
I. VII. 0	4 40	5 26	6 31	7 15	8 9	9 3	o V. XI.
6	4 21	5 5	6 6	6 46	7 37	8 28	24
12	4 0	4 40	5 36	6 13	7 0	7 46	18
18	3 36	4 12	5 2	5 36	6 18	7 0	12
24	3 10	3 41	4 26	4 55	5 32	6 9	6
II. VIII. 0	2 41	3 8	3 46	4 11	4 42	5 13	o IV. X.
6	2 11	2 33	3 4	3 24	3 50	4 15	24
12	1 40	1 56	2 20	2 35	2 54	3 14	18
18	1 7	1 18	1 34	1 44	1 57	2 10	12
24	0 34	0 39	0 47	0 52	0 59	1 6	6
III. IX. 0	0 0	0 0	0 0	0 0	0 0	0 0	o III. IX G. S.
	M. S.	M. S.	M. S.	M. S.	M. S.	M. S.	
	G. 86. 30	G. 87. 0	G. 87. 30	G. 87. 45	G. 88. 0	G 88. 12	Dignatio stellarum fi- xarum a sole.
	Latitudo stellarum fixarum.						



# TABULA XI.

Aberratio longitudinis stellarum fixarum.

Digressio stellarum fixarum a Sole.	Latitudo stellarum fixarum.												Subtrahat Addat
	G.88.24		G.88.36		G.88.42		G.88.48		G.88.54		G.89.		
	M.	S.	M.	S.	M.	S.	M.	S.	M.	S.	M.	S.	
S. G.													
O. VI. 0	11	46	13	27	14	29	15	41	17	7	18	49	0 VI. XII.
6	11	42	13	22	14	24	15	36	17	1	18	43	24
12	11	31	13	9	14	10	15	21	16	44	18	25	18
18	11	11	12	47	13	45	14	55	16	17	17	54	12
24	10	45	12	17	13	14	14	20	15	38	17	12	6
I. VII. 0	10	11	11	39	12	32	13	35	14	49	16	18	0 V. XI.
6	9	31	10	53	11	43	12	41	15	51	15	14	24
12	8	45	10	0	10	46	11	39	13	43	13	59	18
18	7	52	9	0	9	41	10	30	12	27	12	36	12
24	6	55	7	54	8	31	9	13	11	4	11	4	6
II. VIII. 0	5	53	6	43	7	14	7	51	8	33	9	25	0 IV. X.
6	4	47	5	28	5	53	6	23	6	58	7	39	24
12	3	38	4	9	4	28	4	51	5	17	5	49	18
18	2	27	2	48	3	1	3	16	3	33	3	55	12
24	1	14	1	24	1	31	1	38	1	47	1	58	6
III. IX. 0	0	0	0	0	0	0	0	0	0	0	0	0	0 III. IX.
													G. S.
	M.	S.	M.	S.	M.	S.	M.	S.	M.	S.	M.	S.	
Subtrahat Addat	G.88.24		G.88.36		G.88.42		G.88.48		G.88.54		G.89. 0		Digressio stellarum fixarum a Sole.
	Latitudo stellarum fixarum.												

## T A B U L A X I.

Aberratio longitudinis stellarum fixarum.

Digressio stellarum fixarum a sole.	Latitudo stellarum fixarum.										Subtrahere Addere		
	G.89.10		G.89.15		G.89.20		G.89.25		G.89.30			G. 90	
	M.	S.	M.	S.	M.	S.	M.	S.	M.	S.		M.	S.
<b>S. G.</b>													
<b>O. VI.</b> 0	23	35	25	6	28	14	32	16	37	38			0 VI. XII.
6	22	28	24	54	28	5	32	5	37	26			24
12	22	6	24	33	27	37	31	34	36	44			18
18	21	29	23	52	26	51	30	41	35	48			12
24	20	38	22	56	25	48	29	29	34	23			6
<b>I. VII.</b> 0	19	34	21	44	24	27	27	57	32	36			0 V. XI.
6	13	16	20	18	22	6	26	6	30	27			24
12	16	47	18	39	21	2	23	59	27	59			18
18	15	7	16	48	18	54	22	37	25	11			12
24	13	17	14	45	16	36	18	58	22	8			6
<b>II. VIII.</b> 0	11	17	12	33	14	7	16	8	18	49			0 IV. X.
6	9	11	10	12	11	29	13	7	15	19			24
12	7	0	7	45	8	43	9	58	11	38			18
18	4	42	5	13	5	52	6	43	7	50			12
24	2	21	2	37	3	53	3	22	3	56			6
<b>III. IX.</b> 0	0	0	0	0	0	0	0	0	0	0			0 III. IX G. S.
	M.	S.	M.	S.	M.	S.	M.	S.	M.	S.	M.	S.	
	G.89.10	G.89.15	G.89.20	G.89.25	G.89.30	G. 90						Digressio stellarum fixarum a sole.	
	Latitudo stellarum fixarum.												

Longitudo stellæ apprens tribus signis minor est  
longitudine Solis.

# T A B U L A XII.

Aberratio latitudinis stellarum fixarum.

Digrēssio stellarum fixarum a sole.		Latitudo stellarum fixarum.						Subtractio Additio
		G. 10.	G. 20.	G. 30.	G. 40.	G. 50.	G. 60.	
S.	G.	S.	S.	S.	S.	S.	S.	
O. VI. 0		0 0	0 0	0 0	0 0	0 0	0 0	0 VI. XII.
	6	0 3	0 7	1 0	1 3	1 6	1 8	24
	12	0 7	1 4	2 0	2 6	3 1	3 5	18
	18	1 0	2 1	3 0	3 9	4 7	5 3	12
	24	1 4	2 7	4 0	5 1	6 1	6 9	6
I. VII. 0		1 7	3 3	4 9	6 3	7 5	8 5	0 V. XI.
	6	2 0	3 9	5 8	7 4	8 9	10 0	24
	12	2 3	4 5	6 6	8 3	10 1	11 4	18
	18	2 5	5 0	7 3	9 4	11 2	12 7	12
	24	2 8	5 4	7 9	10 2	12 2	13 8	6
II. VIII. 0		2 9	5 8	8 5	10 9	13 1	14 8	0 IV. X.
	6	3 1	6 2	9 0	11 6	13 8	15 6	24
	12	3 2	6 4	9 4	12 0	14 4	16 2	18
	18	3 3	6 6	9 6	12 4	14 8	16 7	12
	24	3 4	6 7	9 8	12 6	15 0	16 9	6
III. IX. 0		3 4	6 7	9 9	12 7	15 1	17 0	0 III. IX.
		S.	S.	S.	S.	S.	S.	G. S.
		G. 10.	G. 20.	G. 30.	G. 40.	G. 50.	G. 60.	Digrēssio stellarum fixarum a sole.
		Latitudo stellarum fixarum.						

## T A B U L A XII.

Aberratio latitudinis stellarum fixarum.

Digressio stellarum fixarum a Sole	Latitudo stellarum fixarum.						Substantive Addit
	G. 70.	G. 80.	G. 83.	G. 86.	G. 89.	G. 90.	
	S.	S.	S.	S.	S.	S.	
S. G.							
O. IV. 0	0 0	0 0	0 0	0 0	0 0	19 7	o VI. XII.
6	1 9	2 0	2 0	2 0	2 0	19 7	24
12	3 8	4 0	4 0	4 1	4 1	19 7	18
18	5 7	6 0	6 0	6 1	6 1	19 7	12
24	7 5	7 9	7 9	8 0	8 1	19 7	6
I. VII. 0	9 3	9 7	9 8	9 8	9 8	19 7	o. V. XI
6	10 9	11 4	11 5	11 5	11 6	19 7	24
12	12 4	12 9	13 1	13 1	13 2	19 7	18
18	13 8	14 4	14 5	14 6	14 6	19 7	12
24	14 9	15 7	15 8	15 9	15 9	19 7	6
II. VIII. 0	16 0	16 8	16 9	17 0	17 0	19 7	o. IV. X
6	16 9	17 7	17 9	17 9	18 0	19 7	24
12	17 6	18 4	18 6	18 7	18 7	19 7	18
18	18 3	18 9	19 1	19 2	19 7	19 7	12
24	18 4	19 3	19 4	19 5	19 6	19 7	6
III. IX. 0	18 5	19 4	19 6	19 7	19 7	19 7	o. III. IX G. S.
	S.	S.	S.	S.	S.	S.	
Substantive Addit	G. 70.	G. 80.	G. 83.	G. 86.	G. 89.	G. 90.	Digressio stellarum fixarum a Sole.
	Latitudo stellarum fixarum.						



## T A B U L A XIII.

*Æquatio 1. Longitudinis Veræ Stellarum fixarum ob nutationem axis Telluris.*

ARGUMENT. Longitudo Nodi ascendentis  $\mathcal{D}$ .

G.	o. Sig.	I. Sig.	II. Sig.	III. Sig.	IV. Sig.	V. Sig.	G.
	Subtr.	Subtra.	Subtra.	Subtra.	Subtra.	Subtra.	
0	Sec. 0	Sec. 9	Sec. 16	Sec. 18	Sec. 16	Sec. 9	30
5	2	10	16	18	15	8	25
10	3	12	17	18	14	6	20
15	5	13	17	17	13	5	15
20	6	14	18	17	12	3	10
25	8	15	18	16	10	2	5
30	Sec. 9	Sec. 16	Sec. 13	Sec. 16	Sec. 9	Sec. 0	0
	Adde	Adde	Adde	Adde	Adde	Adde	G.
	XI.	X.	IX.	VIII.	VII.	VI.	

ARGUMENT. Longitudo Nodi ascendentis  $\mathcal{D}$ .

## T A B U L A XIV.

*Æquatio 2da. Longitudinis Veræ Stellarum fixarum ob nutationem axis Telluris.*

ARGUMENT. Longitudo vera Solis.

G.	o. Sig.	I.	II.	III.	IV.	V.	G.
	Subtra.	Subtra.	Subtra.	Adde	Adde	Adde	
0	Sec. 0	Sec. I	Sec. I	Sec. 0	Sec. I	Sec. I	30
5	0	I	I	0	I	I	25
10	0	I	I	0	I	I	20
15	I	I	I	I	I	I	15
20	I	I	0	I	I	0	10
25	I	I	0	I	I	0	5
30	Sec. I	Sec. I	Sec. 0	Sec. I	Sec. I	Sec. 0	0
	Adde	Adde	Adde	Subtra.	Subtra.	Subtra.	G.
	IX.	X.	XI.	VIII.	VII.	VI.	

ARGUMENT. Longitudo vera Solis.

FORMULA XVI  
 Refractio nullæ Syderum stante Mercurio in Barometro ad 28. pollices et Ther. metro iteumur, ad grad. 10

Altit. appa. G.	Refractio.		Refractio.	
	M. S.	G.	M. S.	G.
6.	8. 42. 0	48.	1. 0. 0	
7.	7. 41. 0	49.	0. 57. 9	
8.	6. 51. 0	50.	0. 55. 8	
9.	5. 10. 0	51.	0. 57. 8	
10.	5. 37. 0	52.	0. 51. 9	
11.	5. 9. 0	53.	0. 50. 1	
12.	4. 45. 0	54.	0. 48. 3	
13.	4. 24. 0	55.	0. 46. 6	
14.	4. 5. 0	56.	0. 44. 9	
15.	3. 49. 0	57.	0. 43. 2	
16.	3. 35. 0	58.	0. 41. 6	
17.	3. 23. 0	59.	0. 40. 0	
18.	3. 12. 0	60.	0. 38. 4	
19.	3. 3. 0	61.	0. 36. 9	
20.	2. 54. 7	62.	0. 35. 4	
21.	2. 47. 0	63.	0. 33. 9	
22.	2. 39. 8	64.	0. 32. 4	
23.	2. 33. 0	65.	0. 31. 0	
24.	2. 26. 0	66.	0. 29. 6	
25.	2. 20. 5	67.	0. 28. 2	
26.	2. 14. 7	68.	0. 26. 8	
27.	2. 9. 2	69.	0. 25. 5	
28.	2. 4. 0	70.	0. 24. 2	
29.	1. 59. 1	71.	0. 22. 9	
30.	1. 54. 4	72.	0. 21. 6	
31.	1. 50. 0	73.	0. 20. 3	
32.	1. 45. 8	74.	0. 19. 1	
33.	1. 41. 8	75.	0. 17. 8	
34.	1. 38. 1	76.	0. 16. 6	
35.	1. 34. 6	77.	0. 15. 4	
36.	1. 31. 2	78.	0. 14. 1	
37.	1. 28. 0	79.	0. 12. 9	
38.	1. 24. 9	80.	0. 11. 7	
39.	1. 21. 9	81.	0. 10. 5	
40.	1. 19. 0	82.	0. 9. 3	
41.	1. 16. 3	83.	0. 8. 2	
42.	1. 13. 7	84.	0. 7. 0	
43.	1. 11. 2	85.	0. 5. 8	
44.	1. 8. 8	86.	0. 4. 6	
45.	1. 6. 5	87.	0. 3. 5	
46.	1. 4. 3	88.	0. 2. 3	
47.	1. 2. 1	89.	0. 1. 1	
3.	1. 0. 0	90.	0. 0. 0	

TABULA XI.

Variatio Refractionis pro vario Atmosphere statu, expressa p. r. denominatore fractionis, cujus numerator = 1.

Altitudo Mercurii in Barometro pollicibus 28. lineis Parisiensibus expressa.

	27. 4 27. 6 27. 7 27. 8 27. 10					Gradus Thermometri Reaumuriani supra terminum congelationis.
	ub.	Subt	Sub	Subt	Subt	
26	12	13	14	15	17	6
25	13	14	15	16	18	5
24	13	14	16	17	19	4
23	14	15	17	18	21	3
22	15	16	18	20	23	2
21	15	17	19	22	25	1
20	16	18	20	24	27	0
19	17	20	22	26	30	1
18	19	22	24	28	34	2
17	20	23	26	31	39	3
16	22	25	30	35	45	4
15	24	28	33	41	55	5
14	26	31	38	48	68	6
13	29	35	45	58	90	7
12	32	40	53	75	135	8
11	36	46	65	105	270	9
10	42	54	85	167	+	10
9	50	70	123	435	270	11
8	61	95	227	+	135	12
7	79	147	+	196	90	13
6	111	323	333	114	68	14
5	189	+	149	80	55	15
4	+	233	96	62	45	16
3	476	125	71	50	39	17
2	172	86	56	42	34	18
1	105	65	46	37	30	19
0	76	52	40	33	27	20
1	59	43	35	29	25	21
2	48	37	31	26	23	22
3	41	32	28	24	21	23
4	36	29	25	22	19	24
5	32	27	23	20	18	25
6	28	25	22	19	17	26
	Subt	Subt	Subt	Subt	Subt	
	28. 8	28. 6	28. 4	28. 2	28. 0	

NB. Si quando numerus in hac Tabula inventus, superat 200, Re' fractio nulla indiget correctione, quia de ducentef. Refractionis parte constare non potest.

T A B U L A XVII.

Refractiões Astronomicæ Parisiis, & ad caput bonæ spei.

Alti- tudo appa- rens. supr. horiz- ont	Ad ca- put bo- næ spei. Refrac- tio.		Parisiis. Refrac- tio.	Alti- tudo appa- rens. supr. horiz- ont	Ad ca- put bo- næ spei. Refrac- tio.		Parisiis. Refrac- tio.	Alti- tudo appa- rens. supr. horiz- ont	Ad ca- put bo- næ spei. Refrac- tio.		Parisiis. Refrac- tio.
	G.	M. S.			M. S.	G.			M. S.	M. S.	
6	8.28.0	8.41.0		34	1.35.6	1.38.0		62	34.7.	35.5.	
7	7.28.0	7.39.0		35	1.52.2	1.34.6		63	33.2.	34.0.	
8	6.37.0	6.47.0		36	1.28.9	1.31.2		64	31.8.	32.5.	
9	5.54.0	6. 3.0		37	1.25.8	1.28.0		65	30.4.	31.1.	
10	5.19.0	5.27.0		38	1.22.8	1.24.9		66	29.0.	29.7.	
11	4.51.0	4.57.0		39	1.19.9	1.21.9		67	27.7.	28.3.	
12	4.26.0	4.32.0		40	1.17.1	1.19.0		68	26.4.	26.9.	
13	4. 6.0	4.12.0		41	1.14.5	1.16.3		69	25.1.	25.6.	
14	3.50.0	3.56.0		42	1.12.0	1.13.7		70	23.8.	24.2.	
15	3.37.0	3.42.0		43	1. 9.6	1.11.2		71	22.5.	22.9.	
16	3.26.0	3.31.0		44	1. 7.2	1. 8.8		72	21.2.	21.6.	
17	3.16.0	3.21.0		45	1. 4.9	1. 6.5		73	19.9.	20.3.	
18	3. 8.0	3.12.0		46	1. 2.7	1. 4.3		74	18.7.	19.1.	
19	3. 0.0	3. 4.0		47	1. 0.5	1. 2.1		75	17.5.	17.8.	
20	2.51.9	2.56.0		48	0.58.4	1. 0.0		76	16.3.	16.5.	
21	2.44.2	2.48.7		49	0.56.4	0.57.9		77	15.1.	15.3.	
22	2.36.9	2.40.0		50	0.54.5	0.55.8		78	13.9.	14.1.	
23	2.30.0	2.33.7		51	0.52.6	0.53.8		79	12.7.	12.9.	
24	2.23.5	2.27.0		52	0.50.8	0.51.0		80	11.5.	11.7.	
25	2.17.4	2.2 7		53	0.49.0	0.50.0		81	10.4.	10.5.	
26	2.11.7	2.14.8		54	0.47.2	0.48.2		82	9.2.	9.4.	
27	2. 6.3	2. 9. 7		55	0.45.5	0.46.5		83	8.1.	8.3.	
28	2. 1.1	2. 4.0		56	0.43.8	0.44.8		84	6.9.	7.1.	
29	1.56.2	1.59.0		57	0.42.2	0.43.0		85	5.7.	5.9.	
30	1.51.7	1.54.4		58	0.40.6	0.41.6		86	4.6.	4.7.	
31	1.47.4	1.50.0		59	0.39.1	0.40.0		87	3.4.	3.5.	
32	1.43.3	1.45.8		60	0.37.6	0.38.5		88	2.3.	2.4.	
33	1.39.3	1.41.8		61	0.36.1	0.37.0		89	1.1.	1.2.	
34	1. 5.0	1. 5.0		62	0.34.7	0.35.5		90	0.0.	0.0.	

TABULA XVIII.

Parallaxis Solis ad terminos altitudinum Gradus.

Alti- tudo.	Paral- laxis.	
	G.	S
0	8	7
3	8	7
6	8	6
9	8	6
12	8	5
15	8	4
18	8	2
21	8	0
24	7	8
27	7	6
30	7	4
33	7	1
36	6	9
39	6	7
42	6	3
45	6	0
48	5	7
51	5	3
54	4	9
57	4	4
60	4	0
63	3	6
66	3	2
69	2	8
72	2	3
75	1	9
78	1	4
81	0	9
84	0	4
87	0	0
90	0	0

## T A B U L A XIX.

Augmentum Diametri horizontalis Lunæ ad quinos alti-  
tudinum gradus supra horizontem.

Altitu- do supra horizon- tem.	Diameter horizontalis ☾.								
	20 m. 05	30 m. 05	30 m. 40 S.	31 m. 20 S.	32 m. 05	32 m. 40 S.	33 m. 20 S.	34 m. 05	
Gradus.	S. T.	S. T.	S. T.	S. T.	S. T.	S. T.	S. T.	S. T.	S. T.
0	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0
5	2. 26	2. 32	2. 40	2. 46	2. 54	3. 0	3. 8	3. 16	3. 16
10	4. 50	5. 4	5. 18	5. 30	5. 46	6. 0	6. 14	6. 30	6. 30
15	7. 12	7. 32	7. 52	8. 14	8. 34	8. 56	9. 18	9. 40	9. 40
20	9. 32	9. 58	10. 24	10. 50	11. 20	11. 48	12. 18	12. 48	12. 48
25	11. 46	12. 18	12. 52	13. 26	14. 2	14. 36	15. 12	15. 48	15. 48
30	13. 56	14. 34	15. 14	15. 54	16. 34	17. 16	17. 0	18. 42	18. 42
35	15. 58	16. 42	17. 28	18. 14	19. 0	19. 48	20. 38	21. 28	21. 28
40	17. 54	18. 44	19. 34	20. 26	21. 18	22. 12	23. 6	24. 4	24. 4
45	19. 42	20. 36	21. 32	22. 28	23. 26	24. 26	25. 26	26. 28	26. 28
50	21. 20	22. 20	23. 20	24. 22	25. 22	26. 28	27. 34	28. 40	28. 40
55	22. 48	23. 52	24. 56	26. 0	27. 8	28. 18	29. 28	30. 40	30. 40
60	24. 8	25. 14	26. 22	27. 36	28. 42	29. 54	31. 8	32. 24	32. 24
65	25. 14	26. 24	27. 36	28. 48	30. 2	31. 20	32. 36	33. 56	33. 56
70	26. 10	27. 22	28. 36	29. 52	31. 8	32. 28	33. 48	35. 10	35. 10
75	26. 54	28. 10	29. 24	30. 42	32. 0	33. 22	34. 44	36. 10	36. 10
80	27. 26	28. 42	30. 20	31. 18	32. 38	34. 2	35. 26	36. 52	36. 52
85	27. 46	29. 2	30. 0	31. 42	33. 0	34. 24	35. 50	37. 18	37. 18
90	27. 52	29. 8	30. 26	31. 48	33. 10	34. 32	36. 0	37. 26	37. 26



T A B U L A XX.

Parallaxis altitudinis apparentis Lunæ ad singulos quosvis gradus supra horizontem.

		Parallaxis horizontalis Luna.																	
		51' 0"		51' 30"		55' 0"		55' 30"		56' 0"		56' 30"		57' 0"		57' 30"		58' 0"	
July		M.	S.	M.	S.	M.	S.	M.	S.	M.	S.	M.	S.	M.	S.	M.	S.	M.	S.
0		54	0	54	30	55	0	55	30	56	0	56	30	57	0	57	30	58	0
1		53	59	54	29	54	59	55	29	55	59	56	29	56	59	57	29	57	59
2		53	57	54	27	54	57	55	27	55	57	56	27	56	57	57	27	57	57
3		53	55	54	25	54	55	55	25	55	55	56	25	56	55	57	25	57	55
4		53	51	54	21	54	51	55	21	55	51	56	21	56	51	57	21	57	51
5		53	47	54	17	54	47	55	17	55	46	56	16	56	46	57	16	57	46
6		53	42	54	12	54	42	55	12	55	41	56	11	56	41	57	11	57	41
7		53	35	54	5	54	35	55	5	55	34	56	4	56	34	57	4	57	34
8		53	28	53	58	54	28	54	58	55	27	55	57	56	27	56	56	57	26
9		53	20	53	50	54	20	54	50	55	19	55	49	56	19	56	48	57	17
10		53	10	53	40	54	10	54	40	55	9	55	39	56	9	56	37	57	7
11		53	0	53	29	53	59	54	29	54	58	55	28	55	57	56	26	56	56
12		52	49	53	18	53	48	54	17	54	46	55	15	55	45	56	14	56	44
13		52	36	53	5	53	35	54	4	54	33	55	2	55	32	56	1	56	30
14		52	23	52	52	53	22	53	51	54	20	54	49	55	19	55	48	56	16
15		52	9	52	38	53	7	53	37	54	6	54	36	55	5	55	34	56	2
16		51	53	52	20	52	51	53	21	53	50	54	19	54	48	55	17	55	45
17		51	37	52	2	52	35	53	4	53	33	54	2	54	31	55	0	55	28
18		51	22	51	51	52	19	52	48	53	16	53	45	54	14	54	42	55	10
19		51	3	51	32	52	6	52	28	52	56	53	24	53	52	54	20	54	50
20		50	44	51	13	51	41	52	8	52	36	53	5	53	30	53	58	54	30
21		50	25	50	53	51	21	51	49	52	17	52	43	53	9	53	35	54	9
22		50	3	50	31	50	59	51	27	51	55	52	21	52	47	53	14	53	46
23		49	41	50	9	50	37	51	5	51	33	51	59	52	25	52	53	52	23
24		49	25	49	43	50	15	50	43	51	10	51	37	52	4	52	31	52	59
25		48	55	49	21	49	48	50	18	50	45	51	11	51	39	52	6	52	33
26		48	30	48	54	49	21	49	53	50	20	50	46	51	14	51	41	52	7
27		48	7	48	34	49	1	49	28	49	54	50	20	50	41	51	15	51	41
28		47	40	48	7	48	33	49	0	49	26	49	52	50	19	50	46	51	13
29		47	11	47	40	48	5	48	32	48	58	49	24	49	50	50	17	50	42
30		46	46	47	12	47	38	48	4	48	30	48	56	49	22	49	48	50	14

# T A B U L A   X X .

Parallaxis altitudinis apparentis Lunæ ad singulos quos  
vis gradus supra horizontem.

Parallaxis horizontalis Lunæ.												
	58' 0''	58' 30''	59' 0''	59' 30''	60' 0''	60' 30''	61' 0''	61' 3'	62' 0'			
G.	M.	S.	M.	S.	M.	S.	M.	S.	M.	S.	M.	S.
1	58	0	58	30	59	0	59	30	60	0	60	30
2	57	59	58	28	58	58	59	28	59	58	60	28
3	57	57	58	16	58	56	59	25	59	54	60	25
4	57	55	58	24	58	53	59	22	59	50	60	22
5	57	46	58	16	58	45	59	15	59	44	60	15
6	57	41	58	11	58	41	59	11	59	40	60	10
7	57	34	58	3	58	35	59	4	59	33	60	3
8	57	26	57	55	58	27	58	56	59	25	59	55
9	57	17	57	47	58	17	58	47	59	16	59	46
10	57	7	57	37	58	7	58	36	59	5	59	35
11	56	56	57	26	57	56	58	25	58	53	59	24
12	56	44	57	14	57	43	58	12	58	41	59	11
13	56	30	56	59	57	28	57	57	58	26	58	56
14	56	16	56	45	57	14	57	43	58	11	58	42
15	55	2	56	31	57	0	57	29	57	57	58	27
16	55	45	56	13	56	42	57	11	57	39	58	9
17	55	28	55	55	56	24	56	53	57	21	57	51
18	55	10	55	38	56	7	56	35	57	4	57	32
19	54	50	55	12	55	46	56	14	56	43	57	11
20	54	30	54	58	55	25	55	53	56	22	56	50
21	54	9	54	37	55	5	55	33	56	1	56	29
22	53	46	54	13	54	41	55	9	55	37	56	5
23	53	23	53	49	54	17	54	45	55	13	55	41
24	52	59	53	26	53	54	54	21	54	49	55	16
25	52	33	53	0	53	28	53	55	55	22	54	49
26	52	7	52	34	53	2	53	29	53	55	54	22
27	51	41	52	8	52	25	53	2	53	28	53	54
28	51	12	51	39	52	5	52	32	52	58	53	24
29	50	43	51	10	51	35	52	2	52	28	52	54
30	50	14	50	40	51	5	51	28	51	58	52	24

## T A B U L A XX.

Parallaxis altitudinis apparentis Lunæ ad singulos quosvis gradus supra horizontem.

Altit.	Parallaxis horizontalis Lunæ.																	
	54' 0''	54' 30''	55' 0''	55' 30''	56' 0''	56' 30''	57' 0''	57' 30''	58' 0''									
G.	M.	S.	M.	S.	M.	S.	M.	S.	M.	S.	M.	S.	M.	S.	M.	S.		
30	45	46	17	12	17	38	48	4	48	30	48	56	49	22	49	48	50	12
31	46	6	16	4	17	8	47	33	47	59	48	25	48	51	49	16	49	40
32	45	36	16	12	16	38	47	2	47	28	47	51	48	20	48	44	49	18
33	45	17	45	42	46	7	46	32	46	58	47	23	47	48	48	13	48	34
34	44	45	45	10	45	34	45	59	46	25	46	49	47	14	47	39	48	0
35	44	13	44	38	45	1	45	26	45	52	49	15	46	40	47	5	47	34
36	43	41	44	5	44	32	44	54	45	18	45	42	46	6	45	30	46	54
37	43	7	43	31	43	54	44	19	44	42	45	6	45	30	45	54	46	15
38	42	27	42	57	43	19	43	44	44	6	44	30	44	54	45	18	45	55
39	41	57	42	21	42	44	43	8	43	51	43	55	44	19	44	53	45	8
40	41	20	41	44	42	7	42	40	42	53	43	17	43	40	43	57	44	21
41	40	48	41	7	41	30	42	12	42	15	42	39	43	1	43	11	43	45
42	40	7	40	30	40	52	41	15	41	37	42	0	42	23	42	26	43	6
42	39	28	39	51	40	12	40	35	40	56	41	19	41	42	41	51	42	24
44	38	49	39	12	39	32	49	55	40	15	40	38	41	1	41	16	41	42
45	38	10	38	32	38	53	39	15	39	35	39	57	40	19	40	40	41	0
46	37	29	37	51	38	21	38	33	38	53	39	14	39	35	39	56	40	16
47	36	48	37	10	37	29	37	51	38	11	38	31	38	51	39	12	38	32
48	35	8	35	28	36	48	37	8	37	28	37	48	38	8	38	29	38	49
49	35	25	35	43	36	4	36	24	35	44	37	3	37	23	37	43	38	3
50	34	42	35	2	35	20	35	40	36	0	36	18	36	38	36	57	37	17
51	33	59	34	18	34	37	34	56	35	15	35	34	35	53	36	12	36	30
52	33	14	33	33	33	51	34	10	34	28	34	47	35	5	35	24	35	42
53	32	29	32	48	33	5	33	24	33	41	34	0	34	17	34	36	34	54
54	31	44	32	2	32	20	32	37	32	55	33	12	33	20	33	47	34	5
55	30	58	31	15	31	33	31	49	32	7	32	23	32	41	32	58	33	15
56	30	12	30	28	30	48	31	1	31	19	31	34	31	52	32	9	32	25
57	29	25	29	41	29	58	30	14	30	30	30	46	31	3	31	19	31	36
58	28	37	28	52	29	9	29	24	29	40	29	56	30	12	30	28	30	44
59	27	49	28	3	28	20	28	34	29	50	29	6	29	21	29	37	29	52
50	27	0	27	15	27	30	27	45	28	0	29	15	28	30	28	45	20	0



## TABULA XX.

Parallaxis altitudinis apparentis Lunæ ad singulos quosvis gradus supra horizontem.

Altit.	Para laxis horizontalis Lunæ.																	
	58' 0"	58' 30"	59' 0"	59' 30"	60' 0"	60' 30"	61' 0"	61' 30"	62' 0"									
G.	M.	S.	M.	S.	M.	S.	M.	S.	M.	S.	M.	S.	M.	S.	M.	S.		
0	50	14	50	40	51	7	51	32	51	58	52	24	52	50	53	16	53	42
1	49	42	50	8	50	33	50	59	51	25	51	51	52	16	52	42	53	8
2	49	10	49	36	50	0	50	26	50	52	51	18	51	42	52	8	52	34
3	48	38	49	3	49	28	49	53	50	19	50	44	51	9	51	34	52	0
4	48	4	48	28	48	53	49	18	49	43	50	8	50	33	50	57	51	23
5	47	30	47	53	48	18	48	43	49	7	49	32	49	57	50	20	50	46
6	46	55	47	19	6	43	48	7	48	32	48	56	49	21	49	44	50	8
7	46	18	46	42	7	6	47	29	47	54	48	17	48	42	49	5	49	29
8	45	41	46	5	6	29	6	51	47	16	47	38	48	3	48	26	48	50
9	45	5	45	28	5	51	46	14	46	37	47	0	47	24	47	47	48	10
10	44	25	44	48	45	11	45	33	45	56	46	19	46	43	47	5	47	28
11	43	45	44	8	44	31	44	52	45	15	45	38	46	2	46	23	46	46
12	43	6	43	28	43	50	44	12	44	35	44	57	45	20	45	42	46	4
13	42	24	42	46	43	7	43	29	43	52	44	14	44	36	44	58	45	19
14	41	42	42	4	42	24	42	46	43	9	43	31	43	52	44	14	44	34
15	41	0	41	21	41	42	42	3	42	25	42	47	43	9	43	29	43	50
16	40	16	40	37	40	58	41	18	41	40	42	1	42	22	42	42	43	3
17	39	32	39	53	40	14	40	33	40	55	41	15	41	35	41	55	42	16
18	38	49	39	9	39	29	39	49	40	9	40	29	40	49	41	8	41	28
19	38	3	38	22	38	42	39	2	39	21	39	41	40	1	40	19	40	39
20	37	17	37	35	37	55	38	15	38	33	38	53	39	13	39	40	39	50
21	36	30	36	49	37	8	37	27	37	46	38	5	38	24	38	42	39	0
22	35	42	36	0	36	19	36	34	36	56	37	18	37	33	37	51	38	9
23	34	54	35	11	35	30	35	49	36	7	36	23	36	42	37	0	37	18
24	34	5	34	23	34	41	34	59	35	16	35	33	35	51	36	8	36	26
25	33	15	33	33	33	50	34	7	34	24	34	41	34	59	35	15	35	33
26	32	25	32	43	32	59	33	15	33	32	33	49	34	7	34	22	34	40
27	31	36	31	52	32	8	32	24	32	41	32	57	33	14	33	30	33	46
28	30	44	31	0	31	15	31	31	31	47	32	3	32	19	32	35	32	51
29	29	52	30	8	30	22	30	38	30	53	31	9	31	24	31	40	31	56
30	29	0	29	16	29	30	29	45	30	0	30	15	30	30	30	45	31	0







## T A B U L A XXI.

Conversio temporis primi mobilis in partes Æquatoris.

Horæ	Gradus.	Min. Grad. Min.			Min. Grad. Min.		
		Sec.	Min.	Sec.	Sec.	Min.	Sec.
		Tert.	Sec.	Tert.	Tert.	Sec.	Tert.
1	15	1	0.	15	31	7.	45
2	30	2	0.	30	32	8.	0
3	45	3	0.	45	33	8.	15
4	60	4	1.	0	34	8.	30
5	75	5	1.	15	35	8.	45
6	90	6	1.	30	36	9.	0
7	105	7	1.	45	37	9.	15
8	120	8	2.	0	38	9.	30
9	135	9	2.	15	39	9.	45
10	150	10	2.	30	40	10.	0
11	165	11	2.	45	41	10.	15
12	180	12	3.	0	42	10.	30
13	195	13	3.	15	43	10.	45
14	210	14	3.	30	44	11.	0
15	225	15	3.	45	45	11.	15
16	240	16	4.	0	46	11.	30
17	255	17	4.	15	47	11.	45
18	270	18	4.	30	48	12.	0
19	285	19	4.	45	49	12.	15
20	300	20	5.	0	50	12.	30
21	315	21	5.	15	51	12.	45
22	330	22	5.	30	52	13.	0
23	345	23	5.	45	53	13.	15
24	360	24	6.	0	54	13.	30
25	375	25	6.	15	55	13.	45
26	390	26	6.	30	56	14.	0
27	405	27	6.	45	57	14.	15
28	420	28	7.	0	58	14.	30
29	435	29	7.	15	59	14.	45
30	450	30	7.	30	60	15.	0

## T A B U L A XXII.

Conversio partium Æquatoris in tempus primi mobilis.

Grad.   Horæ. Min.			Grad.   Hor. Min.			Grad.	Hor. Min.				
Min.   Min. Sec.		Min.   Min. Sec.		Min.   Min. Sec.							
Sec.	Sec. Tert.	Sec.	Sec. Tert.	Sec.	Sec. Tert.						
1		0.	4	31		2.	4	70		4.	40
2		0.	8	32		2.	8	80		5.	20
3		0.	12	33		2.	12	90		6.	0
4		0.	16	34		2.	16	100		6.	40
5		0.	20	35		2.	20	110		7.	20
6		0.	24	36		2.	24	120		8.	0
7		0.	28	37		2.	28	130		8.	40
8		0.	32	38		2.	32	140		9.	20
9		0.	36	39		2.	36	150		10.	0
10		0.	40	40		2.	40	160		11.	40
11		0.	44	41		2.	44	170		11.	20
12		0.	48	42		2.	48	180		12.	0
13		0.	52	43		2.	52	190		12.	40
14		0.	56	44		2.	56	200		13.	20
15		1.	0	45		3.	0	210		14.	0
16		1.	4	46		3.	4	220		14.	40
17		1.	8	47		3.	8	230		15.	20
18		1.	12	48		3.	12	240		16.	0
19		1.	16	49		3.	16	250		16.	40
20		1.	20	50		3.	20	260		17.	20
21		1.	24	51		3.	24	270		18.	0
22		1.	28	52		3.	28	280		18.	40
23		1.	32	53		3.	32	290		19.	20
24		1.	36	54		3.	36	300		20.	0
25		1.	40	55		3.	40	310		20.	40
26		1.	44	56		3.	44	320		21.	20
27		1.	48	57		3.	48	330		22.	0
28		1.	52	58		3.	52	340		22.	40
29		1.	56	59		3.	56	350		23.	20
30		2.	0	60		4.	0	360		24.	0



## T A B U L A XXIII.

Conversio partium Æquatoris in tempus Solare  
medium.

Grad.	Hor. Min. Sec.	Grad.	Hor. Min. Sec.	Grad.	Hor. Min. Sec.
Min.	Min. Sec. Tert.	Min.	Min. Sec. Tert.		
Sec.	Sec. Tert. Quart.	Sec.	Sec. Tert. Quart.		
1	0. 3. 59	31	2. 3. 39	70	4. 39. 14
2	0. 7. 58	32	2. 7. 39	80	5. 19. 7
3	0. 11. 58	33	2. 11. 38	90	5. 59. 1
4	0. 15. 57	34	2. 15. 38	100	6. 38. 54
5	0. 19. 56	35	2. 19. 37	110	7. 18. 47
6	0. 23. 55	36	2. 23. 36	120	7. 58. 42
7	0. 27. 54	37	2. 27. 37	130	8. 38. 35
8	0. 31. 53	38	2. 31. 35	140	9. 18. 28
9	0. 35. 52	39	2. 35. 34	150	9. 58. 22
10	0. 39. 52	40	2. 39. 33	160	10. 38. 15
11	0. 43. 52	41	2. 43. 32	170	11. 18. 8
12	0. 47. 51	42	2. 47. 32	180	11. 58. 2
13	0. 51. 51	43	2. 51. 31	190	12. 37. 55
14	0. 55. 50	44	2. 55. 30	200	13. 17. 48
15	0. 59. 50	45	2. 59. 30	210	13. 57. 42
16	1. 3. 49	46	3. 3. 29	220	14. 37. 35
17	1. 7. 48	47	3. 7. 28	230	15. 17. 28
18	1. 11. 47	48	3. 11. 27	240	15. 57. 23
19	1. 15. 47	49	3. 15. 27	250	16. 37. 16
20	1. 19. 46	50	3. 19. 27	260	17. 17. 9
21	1. 23. 45	51	3. 23. 26	270	17. 57. 3
22	1. 27. 45	52	3. 27. 25	280	18. 36. 56
23	1. 31. 44	53	3. 31. 24	290	19. 16. 49
24	1. 35. 43	54	3. 35. 24	300	19. 56. 43
25	1. 39. 43	55	3. 39. 23	310	20. 36. 36
26	1. 43. 42	56	3. 43. 23	320	21. 16. 30
27	1. 47. 41	57	3. 47. 23	330	21. 56. 24
28	1. 51. 40	58	3. 51. 22	340	22. 36. 17
29	1. 55. 40	59	3. 55. 22	350	23. 16. 11
30	1. 59. 40	60	3. 59. 21	360	23. 56. 4

## T A B U L A XXIV.

Conversio temporis Solaris medii in partes Æquatoris.

Hor.	Grad. Min. Sec.			Min. Grad. Min. Sec.				Min. Grad. Min. Sec.			
				Sec. Min. Sec. Tert.				Sec. Min. Sec. Tert.			
				Tert. Sec. Tert. Quart.				Tert. Sec. Tert. Quart.			
1	15.	2.	28	1	0.	15.	2	31	7.	46.	16
2	30.	4.	56	2	0.	30.	5	32	8.	1.	19
3	45.	7.	24	3	0.	45.	7	33	8.	16.	21
4	60.	9.	51	4	1.	0.	10	34	8.	31.	24
5	75.	12.	19	5	1.	15.	12	35	8.	46.	26
6	90.	14.	47	6	1.	30.	15	36	9.	1.	29
7	105.	17.	15	7	1.	45.	17	37	9.	16.	31
8	120.	19.	43	8	2.	0.	20	38	9.	31.	34
9	135.	22.	11	9	2.	15.	22	39	9.	46.	36
10	150.	24.	38	10	2.	30.	25	40	10.	1.	39
11	165.	27.	6	11	2.	45.	27	41	10.	16.	41
12	180.	29.	34	12	3.	0.	30	42	10.	31.	43
13	195.	32.	2	13	3.	15.	32	43	10.	46.	46
14	210.	34.	30	14	3.	30.	34	44	11.	1.	48
15	225.	36.	58	15	3.	45.	37	45	11.	16.	51
16	240.	39.	26	16	4.	0.	39	46	11.	31.	53
17	255.	41.	53	17	4.	15.	41	47	11.	46.	56
18	270.	44.	21	18	4.	30.	44	48	12.	1.	58
19	285.	46.	49	19	4.	45.	47	49	12.	17.	1
20	300.	49.	17	20	5.	0.	49	50	12.	32.	3
21	315.	51.	45	21	5.	15.	52	51	12.	47.	6
22	330.	54.	13	22	5.	30.	54	52	13.	2.	8
23	345.	56.	40	23	5.	45.	57	53	13.	17.	11
24	360.	59.	8	24	6.	0.	59	54	13.	32.	13
25	376.	1.	36	25	6.	16.	2	55	13.	47.	16
26	391.	4.	4	26	6.	31.	4	56	14.	2.	18
27	406.	6.	32	27	6.	46.	7	57	14.	17.	21
28	421.	9.	0	28	7.	1.	9	58	14.	32.	23
29	436.	11.	28	29	7.	16.	11	59	14.	47.	26
30	451.	13.	56	30	7.	3.	14	60	15.	2.	28

## T A B U L A XXV.

Correctio horæ Meridianæ prodeuntis ex altitudinibus correspondentibus Solis sub æquatore, adhibenda primo ubique terrarum.

Intervallum horarum a meridie ad tempus observationis.								
	1h.40m	2h.0m	2h.20m	2h.40m	3h.0m	3h.20m	3h.40m	4h.0m
	S.	S.	S.	S.	S.	S.	S.	S.
γ	0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
	10	0. 96	0. 93	0. 89	0. 85	0. 80	0. 75	0. 69
	20	2. 29	2. 22	2. 14	2. 04	1. 92	1. 79	1. 64
δ	0	2. 49	2. 41	2. 32	2. 21	2. 09	1. 95	1. 79
	10	2. 90	2. 81	2. 70	2. 58	2. 43	2. 27	2. 08
	20	3. 97	3. 88	3. 77	3. 64	3. 49	3. 32	3. 13
ε	0	2. 68	2. 59	2. 50	2. 38	2. 25	2. 09	1. 92
	10	2. 02	1. 96	1. 89	1. 80	1. 70	1. 58	1. 45
	20	1. 10	1. 06	1. 02	0. 97	0. 92	0. 86	0. 79
ϕ	0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
	10	1. 10	1. 06	1. 02	0. 97	0. 92	0. 86	0. 79
	20	2. 02	1. 96	1. 88	1. 79	1. 70	1. 58	1. 45
ζ	0	2. 66	2. 58	2. 48	2. 37	2. 24	2. 08	1. 91
	10	2. 94	2. 85	2. 74	2. 62	2. 47	2. 30	2. 11
	20	2. 87	2. 78	2. 68	2. 56	2. 41	2. 25	2. 06
η	0	2. 47	2. 40	2. 31	2. 20	2. 08	1. 94	1. 78
	10	2. 27	2. 20	2. 11	2. 02	1. 90	1. 77	1. 63
	20	0. 95	0. 92	0. 89	0. 85	0. 80	0. 74	0. 68
θ	0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
	10	0. 96	0. 93	0. 89	0. 85	0. 80	0. 75	0. 69
	20	2. 32	2. 25	2. 16	2. 06	1. 95	1. 81	1. 67
ι	0	2. 55	2. 47	2. 38	2. 27	2. 14	2. 00	1. 83
	10	3. 00	2. 91	2. 80	2. 67	2. 52	2. 35	2. 15
	20	3. 10	3. 01	2. 89	2. 76	2. 61	2. 43	2. 23
κ	0	2. 83	2. 74	2. 64	2. 52	2. 38	2. 21	2. 03
	10	2. 15	2. 08	2. 00	1. 91	1. 80	1. 68	1. 54
	20	1. 17	1. 13	1. 09	1. 04	0. 98	0. 91	0. 84
λ	0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
	10	1. 17	1. 13	1. 09	1. 04	0. 98	0. 91	0. 84
	20	2. 15	2. 09	2. 01	1. 92	1. 81	1. 69	1. 55
μ	0	2. 84	2. 76	2. 64	2. 56	2. 39	2. 22	2. 04
	10	3. 13	3. 03	2. 91	2. 78	2. 62	2. 45	2. 25
	20	3. 02	2. 93	2. 82	2. 69	2. 54	2. 37	2. 16
ν	0	2. 57	2. 49	2. 40	2. 29	2. 16	2. 01	1. 85
	10	2. 34	2. 27	2. 18	2. 08	1. 97	1. 83	1. 68
	20	0. 97	0. 94	0. 90	0. 86	0. 81	0. 76	0. 69
ξ	0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00

Locus Solis versus in Zodiaco.

Correctio Additiva.

Correctio Subtractiva.

Correctio Additiva.

Correctio Subtractiva.



## T A B U L A XXVI.

Correctio horæ meridiane prodeuntis ex altitudinibus correspondentibus  
Solis sub parallelo 45° adhibenda.

Intervallum horarium a meridie ad tempus observationis.

	1h.40m	2h.0m	2h.20m	2h.40m	3h.0m	3h.20m	3h.40m	4h.0m.
	S.	S.	S.	S.	S.	S.	S.	S.
♈	0 15.53	15.78	16.09	16.37	16.74	17.17	17.66	18.23
	10 15.25	15.50	15.80	16.08	16.44	16.86	17.35	17.91
	20 14.56	14.80	15.09	15.35	15.70	16.10	16.56	17.10
♉	0 13.49	13.71	13.97	14.22	14.54	14.91	15.34	15.83
	10 12.03	12.23	12.47	12.69	12.97	13.30	13.69	14.13
	20 10.20	10.37	10.57	10.76	11.00	11.28	11.61	11.98
♊	0 8.02	8.15	8.31	8.45	8.64	8.86	9.12	9.41
	10 5.53	5.62	5.73	5.83	5.96	6.13	6.29	6.50
	20 2.82	2.87	2.93	2.98	3.05	3.12	3.21	3.32
♋	0 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	10 2.82	2.87	2.92	2.97	3.04	3.12	3.21	3.31
	20 5.51	5.60	5.71	5.81	5.95	6.10	6.27	6.48
♌	0 7.98	8.11	8.27	8.41	8.60	8.82	9.08	9.37
	10 10.11	10.28	10.48	10.66	10.90	11.18	11.51	11.88
	20 11.94	12.17	12.37	12.59	12.87	13.20	13.58	14.02
♍	0 13.37	13.59	13.85	14.10	14.41	14.78	15.21	15.70
	10 14.42	14.66	14.94	15.20	15.55	15.94	16.41	16.93
	20 15.09	15.34	15.64	15.92	16.27	16.69	17.17	17.72
♎	0 15.37	15.63	15.93	16.21	16.58	17.00	17.49	18.05
	10 15.26	15.52	15.81	16.09	16.46	16.87	17.36	17.92
	20 14.75	15.00	15.29	15.56	15.91	16.31	16.78	17.32
♏	0 13.82	14.05	14.32	14.57	14.90	15.28	15.74	16.23
	10 12.46	12.66	12.91	13.14	13.43	13.78	14.17	14.63
	20 10.67	10.84	11.05	11.25	11.50	11.80	12.14	12.53
♐	0 8.46	8.59	8.76	8.91	9.12	9.35	9.62	9.93
	10 5.87	5.83	6.08	6.19	6.33	6.49	6.68	6.89
	20 3.01	3.06	3.12	3.18	3.25	3.33	3.43	3.54
♑	0 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	10 3.02	3.07	3.13	3.18	3.25	3.34	3.43	3.54
	20 5.89	6.00	6.10	6.36	6.50	6.67	6.86	6.92
♒	0 8.42	8.64	8.80	8.96	9.16	9.39	9.67	9.98
	10 10.74	10.41	11.12	11.32	11.58	11.90	12.21	12.61
	20 12.56	12.77	13.01	13.24	13.54	13.88	14.29	14.74
♓	0 13.94	14.17	14.45	14.70	15.03	15.41	15.86	16.37
	10 14.90	15.14	15.43	15.71	16.06	16.47	16.94	17.48
	20 15.37	15.63	15.93	16.21	16.57	17.00	17.49	18.05
♈	0 15.53	15.78	16.09	16.37	16.74	17.17	17.66	18.23

Correctio subtrahenda  
in hemispher. boreali  
Additiva in Australi.

Correctio additiva in hemispherio boreali.  
Subtrahenda in Australi.

Locus versus Solis in Zodiaco.

Correctio subtrahenda in  
hemispherio boreali.  
Additiva in Australi.

Ex hac, & antecedente Tabula facile supputatur Correctio meridiei pro quavis Poli elevatione; & semper ad logarithmum correctionis in hac Tabula reperti, addatur logarithmus tangentis elevationis Poli, summa logarithmorum erit logarithmus correctionis quidem, quæ per partem in Tabula antecedente inventam adhuc comparanda est.



## T A B U L A XXVII.

Correctio horæ meridianæ prodeuntis ex altitudinibus  
 correspondentibus pro singulis latitudinis gradibus,  
 correctioni sub parallelo 45° substituenda.

Corre- ctio sub parall. 45°	Gradus Latitudinis Loci									
	1	2	3	4	5	6	7	8	9	10
	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.
0 50	0 00	0 01	0 02	0 03	0 04	0 05	0 06	0 07	0 07	0 09
1 00	0 01	0 03	0 04	0 06	0 08	0 10	0 12	0 14	0 15	0 18
1 50	0 02	0 04	0 06	0 09	0 12	0 15	0 18	0 21	0 23	0 27
2 00	0 03	0 06	0 09	0 13	0 17	0 21	0 24	0 28	0 31	0 35
2 50	0 04	0 08	0 12	0 16	0 21	0 26	0 30	0 35	0 39	0 44
3 00	0 05	0 10	0 15	0 20	0 26	0 31	0 37	0 42	0 47	0 53
3 50	0 05	0 11	0 17	0 23	0 30	0 36	0 43	0 49	0 54	0 62
4 00	0 06	0 13	0 20	0 27	0 35	0 42	0 49	0 56	0 62	0 70
4 50	0 07	0 15	0 22	0 30	0 39	0 47	0 55	0 63	0 70	0 79
5 00	0 08	0 17	0 25	0 34	0 44	0 53	0 62	0 70	0 78	0 88
5 50	0 09	0 18	0 27	0 37	0 48	0 57	0 68	0 77	0 86	0 97
6 00	0 10	0 20	0 30	0 41	0 52	0 63	0 74	0 84	0 94	1 05
6 50	0 11	0 22	0 33	0 44	0 56	0 68	0 80	0 91	1 02	1 14
7 00	0 12	0 24	0 36	0 48	0 61	0 73	0 86	0 99	1 10	1 23
7 50	0 12	0 25	0 38	0 51	0 65	0 78	0 92	1 06	1 18	1 31
8 00	0 13	0 27	0 41	0 55	0 69	0 84	0 99	1 13	1 26	1 40
8 50	0 14	0 29	0 43	0 58	0 73	0 89	1 05	1 20	1 34	1 49
9 00	0 15	0 31	0 46	0 62	0 78	0 94	1 11	1 27	1 42	1 58
9 50	0 16	0 32	0 48	0 65	0 82	0 99	1 17	1 34	1 50	1 66
10 00	0 17	0 34	0 51	0 69	0 87	1 05	1 23	1 41	1 58	1 75
10 50	0 18	0 36	0 54	0 72	0 91	1 10	1 29	1 48	1 65	1 84
11 00	0 19	0 38	0 57	0 76	0 96	1 15	1 36	1 55	1 73	1 93
11 50	0 19	0 39	0 59	0 79	1 00	1 20	1 42	1 62	1 81	2 01
12 00	0 20	0 41	0 62	0 83	1 04	1 25	1 48	1 69	1 89	2 10
12 50	0 21	0 43	0 64	0 86	1 08	1 30	1 54	1 76	1 97	2 19
13 00	0 22	0 45	0 67	0 90	1 13	1 36	1 60	1 83	2 05	2 28
13 50	0 23	0 46	0 70	0 94	1 17	1 41	1 66	1 90	2 13	2 37
14 00	0 24	0 48	0 73	0 98	1 22	1 46	1 72	1 98	2 21	2 46
14 50	0 25	0 50	0 76	1 01	1 26	1 51	1 78	2 05	2 28	2 54
15 00	0 26	0 52	0 78	1 05	1 30	1 57	1 84	2 12	2 36	2 63
15 50	0 27	0 54	0 81	1 08	1 34	1 62	1 90	2 19	2 44	2 72
16 00	0 28	0 56	0 84	1 12	1 39	1 67	1 96	2 26	2 52	2 81
16 50	0 28	0 57	0 86	1 15	1 43	1 72	2 02	2 33	2 60	2 90
17 00	0 29	0 59	0 89	1 19	1 48	1 78	2 09	2 40	2 68	2 98
17 50	0 30	0 61	0 91	1 22	1 52	1 83	2 15	2 47	2 76	3 07
18 00	0 31	0 63	0 94	1 26	1 57	1 89	2 21	2 54	2 84	3 16
18 50	0 32	0 64	0 96	1 29	1 61	1 94	2 27	2 61	2 92	3 25

## T A B U L A XXVII.

Correctio horæ meridianæ prodeuntis ex altitudinibus  
correspondentibus pro singulis latitudinis gradibus,  
correctioni sub parallelo 45<sup>o</sup> substituenda.

Corre- ctio sub parall. 45 <sup>o</sup>	Gradus Latitudinis Loci.									
	11	12	13	14	15	16	17	18	19	20
Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.
0 50	0 09	0 10	0 11	0 12	0 13	0 14	0 15	0 16	0 17	0 18
1 00	0 19	0 21	0 23	0 25	0 26	0 28	0 31	0 33	0 34	0 36
1 50	0 29	0 31	0 34	0 37	0 40	0 42	0 46	0 49	0 51	0 54
2 00	0 39	0 42	0 46	0 50	0 53	0 57	0 61	0 65	0 68	0 73
2 50	0 48	0 52	0 57	0 62	0 66	0 71	0 76	0 81	0 86	0 91
3 00	0 58	0 63	0 69	0 75	0 80	0 85	0 92	0 98	1 03	1 09
3 50	0 68	0 74	0 80	0 87	0 93	0 99	1 07	1 14	1 20	1 27
4 00	0 78	0 84	0 92	1 00	1 06	1 14	1 22	1 30	1 37	1 46
4 50	0 87	0 95	1 03	1 12	1 19	1 28	1 37	1 46	1 54	1 64
5 00	0 97	1 05	1 15	1 25	1 33	1 42	1 53	1 63	1 72	1 83
5 50	1 07	1 15	1 26	1 37	1 46	1 56	1 68	1 79	1 89	2 00
6 00	1 17	1 26	1 38	1 50	1 60	1 71	1 83	1 95	2 06	2 19
6 50	1 26	1 37	1 50	1 62	1 73	1 85	1 98	2 11	2 23	2 37
7 00	1 36	1 48	1 62	1 74	1 87	2 00	2 14	2 28	2 41	2 55
7 50	1 46	1 58	1 73	1 86	2 00	2 14	2 29	2 44	2 58	3 73
8 00	1 56	1 69	1 85	1 99	2 14	2 28	2 44	2 60	2 75	2 92
8 50	1 65	1 80	1 96	2 11	2 27	2 42	2 59	2 76	2 92	3 10
9 00	1 75	1 90	2 08	2 24	2 41	2 57	2 75	2 93	3 08	3 28
9 50	1 85	2 00	2 19	2 36	2 54	2 71	2 90	3 09	3 25	3 46
10 00	1 95	2 11	2 31	2 49	2 68	2 85	3 06	3 25	3 42	3 63
10 50	2 04	2 22	2 42	2 61	2 81	2 99	3 21	3 41	3 59	3 83
11 00	2 14	2 33	2 54	2 74	2 94	3 15	3 36	3 58	3 77	3 01
11 50	2 24	2 43	2 65	2 86	3 07	3 29	3 51	3 74	3 94	4 19
12 00	2 34	2 54	2 77	2 99	3 21	3 43	3 67	3 90	4 12	4 38
12 50	2 43	2 64	2 88	3 11	3 35	3 58	3 82	4 06	4 29	4 58
13 00	2 53	2 75	3 00	3 24	3 48	3 72	3 97	4 23	4 47	4 74
13 50	2 62	2 86	3 11	3 36	3 61	3 87	4 12	4 39	4 64	4 92
14 00	2 72	2 97	3 23	3 48	3 75	4 01	4 28	4 56	4 82	5 10
14 50	2 82	3 07	3 34	3 60	3 88	4 15	4 43	4 72	4 99	5 28
15 00	2 92	3 18	3 46	3 73	4 02	4 29	4 58	4 88	5 16	5 47
16 50	3 01	3 28	3 57	3 85	4 15	4 43	4 73	5 04	5 33	5 65
16 00	3 11	3 39	3 69	3 98	4 29	4 58	4 89	5 21	5 51	5 83
16 50	3 21	3 49	3 80	4 10	4 42	4 72	5 04	5 37	5 68	6 01
17 00	3 31	3 60	3 92	4 23	4 55	4 87	5 19	5 53	5 85	6 20
17 50	3 40	3 71	4 03	4 35	4 68	5 01	5 34	5 69	6 02	6 38
18 00	3 50	3 82	4 15	4 48	4 82	5 16	5 50	5 86	6 20	6 56
18 50	3 60	3 92	4 26	4 60	4 95	5 30	5 65	6 02	6 37	6 74

## T A B U L A XXVII.

Correctio horæ meridianæ prodeuntis ex altitudinibus  
correspondentibus pro singulis latitudinis gradibus,  
sub parallelo 45° substituenda.

Corre- ctio sub parall.		Gradus Latitudinis loci.									
45.		21	22	23	24	25	26	27	28	29	30
Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.
0 50	0 19	0 20	0 21	0 22	0 23	0 24	0 25	0 26	0 27	0 28	
1 00	0 38	0 40	0 42	0 44	0 45	0 49	0 51	0 53	0 55	0 57	
1 50	0 57	0 60	0 63	0 66	0 70	0 73	0 76	0 80	0 82	0 86	
2 00	0 77	0 81	0 85	0 89	0 93	0 98	1 02	1 06	1 10	1 15	
2 50	0 96	1 01	1 06	1 10	1 16	1 22	1 27	1 32	1 38	1 43	
3 00	1 15	1 21	1 27	1 35	1 40	1 47	1 53	1 59	1 66	1 72	
3 50	1 34	1 41	1 48	1 55	1 63	1 71	1 78	1 85	1 93	2 01	
4 00	1 54	1 62	1 70	1 78	1 86	1 96	2 04	2 12	2 21	2 30	
4 50	1 73	1 82	1 91	2 00	2 09	2 20	2 29	2 38	2 49	2 59	
5 00	1 92	2 02	2 12	2 22	2 33	2 45	2 55	2 65	2 77	2 88	
5 50	2 11	2 22	2 33	2 44	2 56	2 69	2 80	2 91	3 04	3 17	
6 00	2 31	2 43	2 55	2 67	2 79	2 94	3 06	3 18	3 32	3 46	
6 50	2 50	2 63	2 76	2 89	3 02	3 18	3 21	3 45	3 60	3 75	
7 00	2 69	2 83	2 97	3 11	3 26	3 42	3 57	3 72	3 88	4 04	
7 50	2 88	3 03	3 18	3 33	3 49	3 66	3 82	3 99	4 15	4 32	
8 00	3 08	3 24	3 40	3 56	3 72	3 91	4 08	4 25	4 43	4 61	
8 50	3 27	3 44	3 61	3 78	3 95	4 15	4 33	4 52	4 71	4 90	
9 00	3 46	3 64	3 82	4 00	4 19	4 40	4 59	4 78	4 99	5 19	
9 50	3 65	3 84	4 03	4 22	4 42	4 64	4 84	5 04	5 26	5 48	
10 00	3 85	4 05	4 25	4 45	4 65	4 89	5 10	5 31	5 54	5 77	
10 50	4 04	4 25	4 46	4 67	4 88	5 13	5 35	5 57	5 84	6 05	
11 00	4 23	4 45	4 67	4 89	5 12	5 38	5 61	5 84	6 10	6 34	
11 50	4 42	4 65	4 88	5 11	5 35	5 62	5 86	6 10	6 37	6 63	
12 00	4 62	4 85	5 10	5 33	5 58	5 87	6 12	6 37	6 65	6 92	
12 50	4 81	5 05	5 31	5 55	5 81	6 11	6 37	6 63	6 93	7 21	
13 00	5 00	5 26	5 52	5 78	5 05	6 36	6 63	6 90	7 20	7 50	
13 50	5 19	5 46	5 73	6 00	6 28	6 60	6 88	7 17	7 48	7 79	
14 00	5 38	5 66	5 94	6 23	6 52	6 84	7 14	7 44	7 76	8 08	
14 50	5 57	5 86	6 15	6 45	6 75	7 08	7 39	7 70	7 03	8 36	
15 00	5 77	6 06	6 37	6 67	6 98	7 33	7 65	7 97	8 31	8 65	
15 50	5 96	6 26	6 58	6 89	7 21	7 57	7 90	8 23	8 59	8 94	
16 00	6 15	6 47	6 79	7 12	7 45	7 82	8 16	8 50	8 87	9 23	
16 50	6 34	6 67	7 00	7 34	7 68	8 06	8 41	8 76	9 14	9 52	
17 00	6 53	6 87	7 22	7 56	7 91	8 31	8 67	9 03	9 42	9 81	
17 50	6 72	7 07	7 43	7 78	8 14	8 55	8 92	9 29	9 69	10 10	
18 00	6 91	7 28	7 64	8 01	8 38	8 79	9 18	9 56	9 97	10 39	
18 50	7 10	7 48	7 85	8 23	8 61	9 03	9 44	9 82	10 25	10 67	



T A B U L A XXVII.

Correctio horæ meridianæ prodeuntis ex altitudinibus  
 correspondentibus pro singulis latitudinis gradibus  
 correctioni sub parallelo 45°. substituenda.

Corre-  
 ctio sub  
 parall.  
 45°

Gradus Latitudinis loci.

	31	32	33	34	35	36	37	38	39	40
Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.
0 50	0 30	0 31	0 32	0 33	0 34	0 36	0 37	0 39	0 40	0 42
1 00	0 60	0 63	0 65	0 67	0 70	0 73	0 75	0 78	0 81	0 84
1 50	0 90	0 94	0 97	1 01	1 05	1 09	1 13	1 17	1 21	1 26
2 00	1 20	1 25	1 30	1 35	1 40	1 45	1 51	1 56	1 62	1 68
2 50	1 50	1 56	1 62	1 69	1 75	1 81	1 88	1 95	2 02	2 10
3 00	1 80	1 88	1 95	2 02	2 10	2 18	2 26	2 34	2 43	2 52
3 50	2 10	2 19	2 27	2 36	2 45	2 54	2 63	2 73	2 83	2 94
4 00	2 40	2 51	2 60	2 99	2 80	2 90	3 01	3 12	3 24	3 36
4 50	2 70	2 82	2 92	3 03	3 15	3 26	3 38	3 51	3 64	3 78
5 00	3 00	3 13	3 25	3 36	3 50	3 63	3 76	3 90	4 05	4 20
5 50	3 30	3 44	3 57	3 70	3 85	3 99	4 13	4 29	4 45	4 62
6 00	3 60	3 76	3 90	4 04	4 20	4 35	4 51	4 68	4 86	5 04
6 50	3 90	4 07	4 22	4 38	4 55	4 71	4 89	5 07	5 26	5 46
7 00	4 20	4 38	4 55	4 72	4 90	5 08	5 27	5 47	5 67	5 87
7 50	4 50	4 69	4 87	5 06	5 25	5 44	5 64	5 86	6 07	6 29
8 00	4 80	5 01	5 20	5 39	5 60	5 80	6 02	6 25	6 48	6 71
8 50	5 10	5 32	5 52	5 73	5 95	6 16	6 40	6 64	6 88	7 13
9 00	5 40	5 63	5 85	6 07	6 30	6 53	6 78	7 03	7 29	7 55
9 50	5 70	5 94	6 17	6 40	6 65	6 89	7 15	7 42	7 69	7 97
10 00	6 00	6 26	6 50	6 75	7 00	7 25	7 53	7 81	8 10	8 39
10 50	6 30	6 57	6 82	7 09	7 35	7 61	7 90	8 20	8 50	8 81
11 00	6 60	6 88	7 15	7 42	7 70	7 98	8 28	8 59	8 91	9 23
11 50	6 90	7 19	7 47	7 76	8 05	8 34	8 66	8 98	9 31	9 65
12 00	7 20	7 51	7 80	8 10	8 40	8 71	9 04	9 37	9 72	10 07
12 50	7 50	7 82	8 12	8 44	8 75	9 07	9 41	9 76	10 12	10 49
13 00	7 80	8 13	8 45	8 77	9 10	9 44	9 79	10 15	10 53	10 91
13 50	8 10	8 44	8 77	9 11	9 45	9 80	10 16	10 54	10 93	11 33
14 00	8 40	8 75	9 10	9 45	9 80	10 17	10 54	10 93	11 34	11 74
14 50	8 70	9 07	9 42	9 78	10 15	10 53	10 92	11 33	11 74	12 16
15 00	9 00	9 39	9 75	10 12	10 50	10 89	11 30	11 72	12 15	12 58
15 50	9 30	9 70	10 07	10 46	10 85	11 25	11 67	12 11	12 55	13 00
16 00	9 60	10 01	10 40	10 80	11 20	11 62	12 05	12 50	12 96	13 42
16 50	9 90	10 32	10 72	11 13	11 55	11 98	12 42	12 89	13 36	13 84
17 00	10 20	10 64	11 05	11 47	11 90	12 34	12 80	13 28	13 77	14 26
17 50	10 50	10 95	11 37	11 80	12 25	12 70	13 18	13 67	14 17	14 68
18 00	10 80	11 26	11 70	12 15	12 60	13 07	13 56	14 06	14 58	15 10
18 50	11 10	11 57	12 02	12 48	12 95	13 43	13 93	14 45	14 97	15 52



T A B U L A XXVII.

Correctio horæ meridianæ prodeuntis ex altitudinibus  
 correspondentibus pro singulis latitudinis gradibus,  
 correctioni sub parallelo 45° substituenda.

Corre- ctio sub parall.	Gradus Latitudinis loci.										
	45°	41	42	43	44	45	46	47	48	49	50
Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.
0 50	0 43	0 45	0 46	0 48	0 50	0 52	0 53	0 55	0 57	0 59	
1 00	0 87	0 90	0 93	0 97	1 00	1 04	1 07	1 11	1 15	1 19	
1 50	1 30	1 35	1 40	1 45	1 50	1 55	1 61	1 66	1 72	1 78	
2 00	1 74	1 80	1 87	1 93	2 00	2 07	2 15	2 22	2 30	2 38	
2 50	2 17	2 25	2 33	2 41	2 50	2 59	2 67	2 77	2 87	2 97	
3 00	2 61	2 70	2 80	2 90	3 00	3 11	3 22	3 33	3 45	3 57	
3 50	3 04	3 15	3 26	3 38	3 50	3 62	3 75	3 88	4 02	4 17	
4 00	3 48	3 60	3 73	3 86	4 00	4 14	4 29	4 44	4 60	4 77	
4 50	3 81	4 05	4 20	4 34	4 50	4 65	4 73	4 99	5 17	5 36	
5 00	4 35	4 50	4 67	4 83	5 00	5 17	5 37	5 55	5 75	5 96	
5 50	4 78	4 95	5 13	5 31	5 50	5 69	5 90	6 10	6 32	6 55	
6 00	5 22	5 40	5 60	5 79	6 00	6 21	6 44	6 66	6 90	7 15	
6 50	5 66	5 85	6 06	6 27	6 50	6 73	6 97	7 21	7 47	7 74	
7 00	6 08	6 30	6 53	6 76	7 00	7 25	7 51	7 77	8 05	8 34	
7 50	6 51	6 75	7 00	7 24	7 50	7 76	8 04	8 32	8 62	8 94	
8 00	6 95	7 20	7 47	7 72	8 00	8 28	8 58	8 88	9 20	9 54	
8 50	7 38	7 65	7 93	8 20	8 50	8 80	9 12	9 43	9 77	10 13	
9 00	7 82	8 10	8 40	8 69	9 00	9 32	9 66	9 99	10 35	10 73	
9 50	8 25	8 55	8 87	9 17	9 50	9 83	10 19	10 54	10 92	11 32	
10 00	8 67	9 00	9 34	9 65	10 00	10 35	10 73	11 10	11 50	11 92	
10 50	9 13	9 45	9 80	10 13	10 50	10 87	11 26	11 65	12 08	12 51	
11 00	9 56	9 90	10 27	10 62	11 00	11 39	11 80	12 21	12 65	13 11	
11 50	9 99	10 35	10 73	11 10	11 50	11 91	12 34	12 76	13 23	13 70	
12 00	10 43	10 80	11 20	11 58	12 00	12 43	12 88	13 32	13 80	14 30	
12 50	10 86	11 25	11 66	12 06	12 50	12 94	13 41	13 87	14 37	14 89	
13 00	11 30	11 70	12 13	12 55	13 00	13 46	13 95	14 43	14 95	15 49	
13 50	11 73	12 15	12 59	13 03	13 50	13 98	14 48	14 98	15 52	16 09	
14 00	12 16	12 60	13 06	13 52	14 00	14 50	15 02	15 54	16 10	16 69	
14 50	12 59	13 05	13 53	14 00	14 50	15 01	15 55	16 09	16 67	17 28	
15 00	13 03	13 50	14 00	14 48	15 00	15 53	16 09	16 65	17 25	17 88	
15 50	13 46	13 95	14 46	14 96	15 50	16 05	16 62	17 20	17 82	18 47	
16 00	13 90	14 40	14 93	15 45	16 00	16 57	17 16	17 76	18 40	19 07	
16 50	14 33	14 85	15 39	15 93	16 50	17 08	17 69	18 31	18 97	19 66	
17 00	14 77	15 30	15 86	16 41	17 00	17 60	18 23	18 87	19 55	20 26	
17 50	15 20	15 75	16 32	16 89	17 50	18 16	18 76	19 42	20 12	20 86	
18 00	15 64	16 20	16 79	17 38	18 00	18 64	19 30	19 98	20 70	21 46	
18 50	16 07	16 65	17 25	17 86	18 50	19 15	19 83	20 53	21 27	22 06	

## T A B U L A XXVII.

Correctio horæ meridianæ prodeuntis ex altitudinibus  
correspondentibus pro singulis latitudinis gradibus,  
correctioni sub parallelo 45° substituenda.

Corre- tio sub p rall. 45°	Gradus Latitudinis loci.									
	51	52	53	54	55	56	57	58	59	60
Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.
0 50	0 61	0 64	0 66	0 69	0 71	0 75	0 77	0 80	0 83	0 86
1 00	1 23	1 28	1 33	1 38	1 43	1 48	1 54	1 60	1 66	1 73
1 50	1 85	1 92	1 99	2 07	2 14	2 22	2 31	2 40	2 49	2 59
2 00	2 47	2 56	2 66	2 75	2 86	2 96	3 08	3 20	3 33	3 46
2 50	3 08	3 20	3 32	3 44	3 57	3 70	3 85	4 00	4 16	4 32
3 00	3 70	3 84	3 98	4 13	4 29	4 44	4 62	4 80	4 99	5 19
3 50	4 32	4 48	4 64	4 80	5 00	5 18	5 39	5 60	5 82	6 06
4 00	4 94	5 12	5 31	5 50	5 72	5 92	6 16	6 40	6 66	6 92
4 50	5 55	5 76	5 97	6 19	6 43	6 66	6 93	7 20	7 49	7 79
5 00	6 17	6 40	6 64	6 88	7 15	7 40	7 70	8 00	8 32	8 65
5 50	6 79	7 04	7 30	7 56	7 86	8 14	8 47	8 80	9 15	9 52
6 00	7 41	7 68	7 96	8 25	8 58	8 88	9 24	9 60	9 99	10 38
6 50	8 02	8 32	8 62	8 94	9 29	9 62	10 01	10 40	10 82	11 25
7 00	8 64	8 96	9 29	9 63	10 00	10 37	10 78	11 20	11 65	12 12
7 50	9 26	9 60	9 95	10 31	10 71	11 11	11 55	12 00	12 48	12 99
8 00	9 88	10 24	10 62	11 00	11 43	11 85	12 32	12 80	13 31	13 85
8 50	10 49	10 88	11 28	11 69	12 14	12 59	13 09	13 60	14 14	14 72
9 00	11 11	11 52	11 94	12 38	12 86	13 33	13 86	14 40	14 98	15 58
9 50	11 73	12 16	12 60	13 07	13 57	14 07	14 63	15 20	15 81	16 45
10 00	12 35	12 80	13 27	13 75	14 29	14 81	15 40	16 00	16 64	17 31
10 50	12 96	13 44	13 93	14 45	14 99	15 56	16 17	16 80	17 47	18 18
11 00	13 58	14 08	14 60	15 13	15 72	16 29	16 94	17 60	18 31	19 04
11 50	14 20	14 72	15 25	15 82	16 43	17 03	17 71	18 40	19 14	19 90
12 00	14 82	15 36	15 92	16 51	17 15	17 77	18 48	19 20	19 97	20 76
12 50	15 43	16 00	16 58	17 20	17 86	18 51	19 25	20 00	20 80	21 63
13 00	16 05	16 64	17 25	17 88	18 58	19 26	20 02	20 80	21 64	22 50
13 50	16 67	17 28	17 91	18 57	19 29	20 00	20 79	21 60	22 47	23 37
14 00	17 29	17 92	18 58	19 26	20 00	20 75	21 56	22 40	23 30	24 24
14 50	17 90	18 56	19 24	19 94	20 71	21 49	22 33	23 20	24 13	25 10
15 00	18 52	19 20	19 90	20 63	21 43	22 23	23 10	24 00	24 97	25 97
15 50	19 14	19 84	20 56	21 32	22 14	22 97	23 87	24 80	25 80	26 83
16 00	19 76	20 48	21 23	22 01	22 86	23 71	24 64	25 60	26 63	27 70
16 50	20 37	21 12	21 89	22 70	23 57	24 45	25 41	26 40	27 46	28 56
17 00	20 99	21 76	22 56	23 39	24 29	25 19	26 18	27 20	28 30	29 43
17 50	21 61	22 40	23 22	24 08	25 00	25 93	26 95	28 00	29 13	30 29
18 00	22 23	23 04	23 88	24 77	25 72	26 68	27 72	28 80	29 96	31 16
18 50	22 85	23 68	24 54	25 45	26 43	27 43	28 49	29 60	30 75	32 02

T A B U L A XXVIII.  
Correctio horæ meridiane prodeuntis ex altitudinibus correspondentibus Solis.  
pro Elevatione Poli Vindobonensi grad. 48. m. 12. f. 32.

Intervallum horarium a meridie ad tempus observationis.

		1h.40m	2h.0m	2h.20m	2h.40m	3h.0m	3h.20m	3h.40m	4h.0m	
		S.	S.	S.	S.	S.	S.	S.	S.	
v	0	17.38	17.66	18.01	18.32	18.73	19.21	19.76	20.40	Subtrahere.
	10	16.11	16.42	16.79	17.14	17.60	18.22	18.73	16.41	
	20	14.1	14.64	14.75	15.13	15.65	16.23	16.89	17.65	
p	0	12.51	12.93	13.31	13.71	14.18	14.74	15.38	16.11	
	10	10.56	10.87	11.26	11.62	12.8	12.61	13.24	13.94	
	20	7.41	8.72	9.06	9.40	9.82	10.28	10.86	11.48	
h	0	6.28	6.53	6.80	7.08	7.42	7.82	8.28	8.80	
	10	4.17	4.33	4.52	4.72	4.97	5.27	5.59	5.85	
	20	2.05	2.15	2.26	2.36	2.49	2.63	2.80	3.01	
g	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	10	1.72	2.15	2.25	2.35	2.48	2.63	2.80	3.01	
	20	4.15	4.31	4.51	4.71	4.96	5.25	5.77	5.94	
Q	0	6.27	6.49	6.78	7.04	7.38	7.79	8.25	8.77	
	10	8.38	8.65	9.54	9.31	9.73	10.21	10.77	11.39	
	20	10.49	10.84	11.16	11.53	11.99	12.52	13.14	13.80	
m	0	12.49	12.81	13.19	13.58	14.05	14.60	15.24	15.97	Addere.
	10	13.87	14.20	14.60	14.99	15.50	16.07	16.73	17.48	
	20	15.94	16.25	16.61	16.97	17.41	17.94	18.53	19.22	
d	0	17.20	17.49	17.83	18.14	18.55	19.02	19.57	20.20	
	10	18.04	18.30	18.58	18.86	19.22	19.63	20.12	20.67	
	20	18.83	19.03	19.27	19.47	19.75	20.06	20.45	20.86	
in	0	18.02	18.19	18.41	18.58	18.82	19.10	19.44	19.81	
	10	16.94	17.08	17.25	17.35	17.55	17.78	18.01	18.31	
	20	15.4	15.14	15.24	15.37	15.48	15.64	15.82	16.03	
++	0	12.30	12.35	12.44	12.49	12.58	12.67	12.80	12.94	
	10	8.72	8.60	8.80	8.84	8.88	8.95	9.02	9.09	
	20	4.53	4.55	4.58	4.60	4.92	4.64	4.68	4.71	
z	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	10	4.55	4.56	4.60	4.60	4.61	4.65	4.68	4.71	
	20	8.74	8.81	8.84	9.04	9.08	9.13	9.23	9.31	
m	0	12.26	12.43	12.49	12.59	12.64	12.73	12.86	13.01	Subtrahere.
	10	15.15	15.21	15.35	15.45	15.57	15.77	15.91	16.13	
	20	17.08	17.22	17.39	17.48	17.69	17.90	18.15	18.44	
ll	0	18.17	18.35	18.57	18.74	18.98	19.25	19.60	19.98	
	10	19.02	19.21	19.45	19.74	19.94	20.46	20.56	21.07	
	20	18.17	18.43	18.73	19.00	19.35	19.71	20.26	20.83	
v	0	17.38	17.66	18.01	18.33	18.73	19.21	19.76	20.40	

NB. Locum Solis ad semigradum novisse sufficit.  
Correctio hujus Tabulæ composita est ex correctione Tabulæ XXV. hinc hora  
meridiei, æquatione Tabulæ XXV. non eget.



## T A B U L A XXIX.

Differentiæ Meridianorum in tempore, & in partibus  
 Equatoris inter OBSERVATORIUM CÆSAREO-RËGIUM  
 Univerſitatis Viennensis in Austria, & inter loca præcipua Telluris,  
 cum eorundem locorum Latitudine, seu  
 Elevatione Poli.

L O C O R U M N O M I N A.	Differentia Meridianorum.		Latitudo, seu Elevatio Poli.
	In Tempore.	In partib. Æquat.	
	H. M. S.	G. M. S.	G. M. S.
Abbatis-villa, <i>Abbeville</i> , Galliæ.	0.*58.11. Oc.	14.32.50.	50.* 7. 1. S
Agra Mogolis, seu Indiæ interior.	4.* 1.26. Or.	60.21.30.	26.† 43. 0.
Agria, <i>Erlau</i> , Hungariæ.	0.*16. 0. Or.	4. 0. 0.	47.*53.54.
AlbaCarolina, <i>Carlstadt</i> , Transylv.	0. 31.24. Or.	7.51. 0.	46. 13. 0.
Alba-Regalis, <i>Stuhlweißenb.</i> Hung.	0. 9. 0. Or.	2.15. 0.	47.*9.15.
Alenconium, <i>Alençon</i> , Normand.	1. 5.10. Oc.	16.17.30.	48. 25. 0.
Alepum, <i>Syriæ</i> .	1. 23.50. Or.	20.57.30.	35.† 45.23.
Alexandria, <i>Ægypti</i> .	0.*55.16. Or.	13.48.50.	31.*11.28.
Altorfia, <i>Ustdorf</i> , Germ.	0. 20.45. Oc.	5.11.15.	49. 17.38.
Ambianum, <i>Amiens</i> , Gall.	0.*56.18. Oc.	14. 4.34.	49.*53.38.
Amstelodamum, <i>Amsterdam</i> , Holl.	0. 45.34. Oc.	11.23.30.	52.*22.45.
Ancona, <i>Italiæ</i> .	0. 11.28. Oc.	2.52. 0.	43. 37.54.
Antipolis, <i>Antibe</i> , Gall.	0.*36.56. Oc.	9.13.57.	43.*34.50.
Antverpia, <i>Antwerpen</i> , Belgii.	0.*47.53. Oc.	11.58.21.	51.*13.15.
Aquæ sextiæ, <i>Aix</i> , in Provinc.	0.*43.45. Oc.	10.55.56.	43.*31.35.
Arelatum, <i>Arles</i> , Gall.	0.*46.58. Oc.	11.44.30.	43.*40.33.
Argentoratum, <i>Straßburg</i> , Germ.	0.*34.25. Oc.	8.36.15.	48.*34.35.
Atrebatum, <i>Arras</i> , Gallo-belgii.	0.*54.25. Oc.	13.36.18.	50.*17.30.
Athenæ, <i>Græciæ</i> .	0. 36.35. Or.	9. 8.45.	37. 40. 0.
Augusta Vind. <i>Augspurg</i> , Germ.	0. 21.45. Oc.	5.26.15.	48. 24. 0.
Aurelianum, <i>Orleans</i> , Gall.	0.*57.53. Oc.	14.28. 8.	47.*54. 4.
Barcino, <i>Barcellona</i> , Hispaniæ.	0. 56.38. Oc.	14. 9. 0.	41.† 26. 0.
Basilea, <i>Basel</i> , Helvetiæ.	0. 35.10. Oc.	8.47.30.	47. 55. 0.
Belfonte, <i>Schönbrunn</i> , Austriæ.	0. 0.14. Oc.	0. 3.30.	48. 12. 0.
Belgradum, <i>Belgrad</i> , Serviæ.	0. 20.20. Or.	5. 5. 0.	45. 3. 0.
Berolinum, <i>Berlin</i> , Germ.	0.*11.53. Oc.	3. 0. 0.	52.*32.30.
Bononia, <i>Bologna</i> , Italiæ.	0.*20.17. Oc.	5. 4.12.	44.*29.52.
Brestia, <i>Brest</i> , Gall.	1.*23.33. Oc.	20.55.20.	48.*23. 0.
Bruxellæ, <i>Brüssel</i> , Belgii.	0.*48. 3. Oc.	12. 0.47.	50.*51. 0.
Buda, <i>Dfen</i> , Hung.	0.* 10.29. Or.	2.37.15.	47.*29.44.



LOCORUM  
NOMINA.

	Diferentia Meridianorum.		
	In Tempore.	In partib. Æquat.	Latitudo seu Elevatio Poli.
	H. M. S.	G. M. S.	G. M. S.
Buenos - aires, Americæ.	4.* 59.35. Oc.	74.53.45.	34. 35.26. M.
Burdegala, Bourdeaux, Gall.	1.* 7.49. Oc.	16.57.19.	44. 50.18. S
Cadix, Hispaniæ.	1.* 29.35. Oc.	22.23.45.	36.† 31. 7.
Cadomum, Caen, Gall.	1.* 6.57. Oc.	16.44.17.	49. 11.10.
Cairus, Cairo, Ægypti.	1.* 0.15. Or.	15. 3.45.	30.* 2.30.
Caletum, Calais, Gall.	0.* 58. 6. Oc.	14.31.34.	50.* 57.31.
Candia, Græciæ.	0.* 35.42. Or.	8.55.30.	35.* 18.45.
Canton, Chinæ.	6.* 26.43. Or.	96.40.45.	23.* 8. 0.
Caput bonæ spei, Africæ.	0.* 7.50. Or.	1.57.15.	33. 55.15. M.
Caput Viride.	2.* 14.10. Oc.	33.32.30.	14.* 43. 0. S.
Carthagera, Americæ.	6.* 7.15. Oc.	91.48.30.	10.* 26.35.
Cassovia, Cassan, Hungariæ.	0. 18.20. Or.	4.35. 0.	48. 27. 0.
Cassellæ, Cassel, Germ.	0. 27.45. Oc.	6.56.15.	51. 19. 0.
Cayena, Americæ.	4.* 34.30. Oc.	68.37.30.	4.* 56. 0.
Cibinium, Hermanstadt, Transylv.	0. 34.44. Or.	8.41. 0.	46. 12. 0.
Clagenfurtum, Clagenfurt, Carint.	0. 6.52. Oc.	1.43. 0.	47. 20. 0.
Claudiopolis, Clausenburg, Transf.	0. 29.44. Or.	7.26. 0.	46. 53. 0.
Clivia, Eleve, Germ.	0. 40.45. Oc.	10.11.15.	51. 59. 0.
Colonia, Cölln, Germ.	0. 37.10. Oc.	9.17.30.	50. 55. 0.
Constantinopolis, Turciæ.	0.* 50.15. Or.	12.33.45.	41.* 1.10.
Cracovia, Cracau, Poloniæ.	0. 13.50. Or.	3.27.30.	50. 10. 0.
Cremisanum, Cremsmünster.	0.* 9. 2. Or.	2.15.30.	48.* 3.29.
Dieppa, Dieppe, Gall.	1.* 1.13. Oc.	15.18.18.	49.* 55. 17.
Dillinga, Dillingen, Sueviæ.	0.* 24.32. Oc.	6. 8. 0.	48. 30. 0.
Divio, Dyon, Gall.	0.* 45.20. Oc.	11.20. 7.	47.* 19.22.
Dresda, Dresden, Germ.	0. 11.45. Oc.	2.56.15.	51. 6. 0.
Dublinum, Dublin, Hiberniæ.	1.† 32.51. Oc.	23.12.45.	52. 12. 0.
Dunquerque, Dunquerque, Belgii.	0.* 56. 0. Oc.	14. 0. 7.	51.* 2. 4.
Edimburgum, Edenburg, Scotiæ.	1. 17.51. Oc.	19.27.45.	55. 58. 0.
Erfordia, Erfurt, Germ.	0. 24.30. Oc.	6. 7.30.	51. 6. 0.
Ferraria, Ferrara, Italiæ.	0.* 19. 5. Oc.	4.47.35.	44.* 54. 0.
Ferri, Infula.	2.* 15.45. Oc.	33.56.15.	17.* 47.20.
Flexia, Fleche, Gall.	1.* 6. 2. Oc.	16.30.30.	47.* 42. 0.
Florentia, Florenz, Italiæ.	0.* 21.21. O.	5.12.15.	43.* 46.53.

LOCORUM  
NOMINA.

	Differentia Meridianorum.		
	In tempore.	In partib. Æquat.	Latitudo, Gen Elevatio Poli.
	H. M. S.	G. M. S.	G. M. S.
Francofurtum ad Mœnum.	o. 31.10. Oc.	7.47.30.	49. 55. o. S.
Francofurtum ad Viadrum.	o. 7.15. Oc.	1.48.45.	52. 26. o.
Gedanum, Dankig, Prussiæ.	o.* 8.34. Or.	2. 8.30.	54.†22. o.
Geneva, Genf, Helvetiæ.	o.*39.10. Oc.	10. 2.30.	46.†12. o.
Goa, Indiæ.	3.*49.30. Or.	57.22.30.	15.*31. o.
Gættinga, Göttingen, Germ.	o. 25.54. Oc.	6.28.30.	51. 31.54.
Gratianopolis, Orinoble, Gall.	o.*42.38. Oc.	10.38.50.	45.*11.49.
Græcium, Grätz, Styriæ.	o.* 3.51. Oc.	0.57.45.	47.* 4.18.
Grenovicum, Greenwich, Angliæ.	1.* 5.26. Oc.	16 21.30.	51.*28.30.
Hafnia, Copenhagen, Daniæ.	o.*17.27. Oc.	4.21.45.	55.*40.45.
Hala Magdeburg. Halle, Saxon.	o. 18.45. Oc.	4.41.15.	51. 34. o.
S. Helenæ Insula.	1.*22.46. Oc.	20.41.30.	16.* o. o.M.
Jena, Germ.	o. 20.15. Oc.	5. 3.45.	51. 2. o. S.
Jerofolyma, Jerusalem, Palestiniæ.	1. 15.50. Or.	18.57.30.	31. 50. o.
Ingolftadium, Ingolstadt, Germ.	o.*20. 8. Oc.	5. 2. o.	48.*46. o.
Kebecum, Canadæ.	5.*45. 2. Oc.	86.15.30.	46.*55. o.
Labacum, Laybach, Germ.	o.* 6.25. Oc.	1.36.15.	46.* 2. o.
Lima, Peruvix.	6.*12.48. Oc.	93.12. o.	12.* 1.15.M
Lincium, Linz, Austriæ.	o. 9. 40. Oc.	2.25.20.	48.*16. o. S.
Lipsia, Leipzig, Saxonix.	o. 16.10. Oc.	4. 2.30.	51.†19.41.
Londinum, London, Angliæ.	1.* 5.57. Oc.	16.29.15.	51.*31. o.
Lugdunum Batavor. Londen.	o. 47.45. Oc.	11.56.15.	52. 11. o.
Lugdunum Galliæ, Lion.	o.*46.11. Oc.	11.32.47.	45.*45.51.
Lutetia Parisiorum, Paris, Gall.	o.*56.10. Oc.	14 2.30.	48.*50.14.
Macaum, Macao, Chinæ.	6.*29.35. Or.	97.23.45.	22.*12.44.
Madritum, Madrid, Hispaniæ.	1.*18.35. Oc.	19.38.45.	40.*25. o.
Malaca, Indiæ.	5.†43.30. Or.	85.52.30.	2.†12. o.
Mantua, Italiæ.	o. 24.48. Oc.	6.12. o.	45. 2. o.
Martinica Inf. Americæ.	5.* 9.25. Oc.	77.21.15.	14.*43. 9.
Massilia, Marseille, Gall.	o.*44. 1. Oc.	11. 0.22.	43.*17.45.
Mediolanum, Manland, Italiæ.	o.*28.57. Oc.	7.14.15.	45. 28.10.
Melita, Malta, Inf.	o.* 7.36. Oc.	1.53. o.	35.*54. o.
Messana, Siciliæ.	o. 4.16. Oc.	1. 4. o.	38. 21. o.

# L O C O R U M N O M I N A.

	Differentia Meridianorum.			Latitudo, seu Elevatio Poli.
	In Tempore.		In partib. Æquat.	
	H. M. S.	G. M. S.	G. M. S.	
Metæ, <i>Metz</i> , Lotharingiæ.	0.*40.46. Oc.	10.11.30.	49.*7. 5.	
Mexicum, <i>Mexico</i> , Americæ.	8.† 0.10. Oc.	120.2.30.	20.† 0. 0.	
Moguntia, <i>Mainz</i> , Germ.	0. 32.10. Oc.	8. 2.30.	49.*54. 0.	
Monachium, <i>München</i> , Bavarizæ.	0. 19.30. Oc.	4.47.30.	48.*9.55.	
Mons Pessulanus, <i>Montpellier</i> , Gal.	0.*49.59. Oc.	12.29.46.	43.*36.33.	
Moscua Urbs, <i>Moscow</i> , Moscovizæ.	1.*25.35. Or.	21.23.45.	55.*45.20.	
Muffipontum Lotharingiæ.	0. 41.22. Oc.	10.20.30.	48. 54.19.	
Mutina, <i>Modena</i> , Italiæ.	0.†20.40. Oc.	5.10. 0.	44. 34. 0.	
Nancy, Lotharingiæ.	0.*40.44. Oc.	10.10.57.	48.*41.28.	
Nanking, Chinæ.	6. 39.50. Or.	99.57.37.	32. 4. 0.	
Nanetes, <i>Nantes</i> , Galliæ.	1.*11.45. Oc.	17.56.18.	47.*13.17.	
Narbo, <i>Narbonne</i> , Galliæ.	0.*53.29. Oc.	13.22.21.	43.*11.13.	
Neapolis, <i>Neapel</i> , Italiæ.	0.*10.35. Oc.	2.38.45.	40.*50.15.	
Neostadium, <i>Neustadt</i> , Austriæ.	0. 0.48. Or.	0.12. 0.	47. 58. 0.	
Nicæa, <i>Nizza</i> , in Provinc.	0.*36.21. Oc.	9. 5. 8.	43.*41.54.	
Norimberga, <i>Nürnberg</i> , Germ.	0.*21.14. Oc.	5.13.30.	49.†26.55.	
Novus portus, <i>Neuport</i> , Gall.	0.*54.30. Oc.	13.37.35.	51.*7.41.	
Olinda, <i>Brassilia</i> .	0. 26.10. Oc.	51.32.30.	8. 13. 0. M.	
Olomucium, <i>Olmitz</i> , Moravizæ.	0. 4.39. Or.	1. 9.45.	49. 43. 0. S.	
Ostenda, <i>Ostende</i> , Flandriæ.	0.*53.50. Oc.	13.27.28.	51.*13.55.	
Parma, Italiæ.	0. 25.49. Oc.	6.27.15.	44. 44.50.	
Passavium, <i>Passau</i> , Austriæ.	0. 13.20. Oc.	3.20. 0.	48 30. 0.	
Patavium, <i>Padua</i> , Italiæ.	0.*17.48. Oc.	4.27. 0.	45.*22.26.	
Pekinum, Chinæ.	6.*40 0. Or.	100. 0. 0.	39*54 0.	
Pestinum, <i>Pest</i> , Hung.	0. 10.35. Or.	2.38.45.	47 28.30.	
Petropolis, <i>Petersburg</i> , Russiæ.	0.*55.50. Or.	13.57.30.	59*56. 0.	
Picus Accipitrum, <i>Pic d'Ægros</i> .	2. 58.10. Oc.	44.32.30.	38 35. 0.	
Picus Teneriffæ.	2. †11.38. Oc.	32.54.33.	28. 12.54.	
Pollinga, Bavarizæ.	0.†22.35. Oc.	5.38.45.	47. 48. 8. M.	
Pondichery, Indiæ.	4.*15.20. Or.	63.50. 0.	11. 53.47 S.	
Praga, <i>Prag</i> , Bohemiæ.	0.† 6.30. Oc.	1.37.30.	50. 5.46.	
Pofonium, <i>Presburg</i> , Hung.	0. 4.23. Or.	1. 5.45.	48. 8. 7.	
Quito, Peruvizæ.	6.*17.10. Oc.	94.17.30.	0. 13.10. M.	
Ratisbona, <i>Regensburg</i> , Germ.	0. 17.45. Or.	4.26.15.	49. 2. 0. S.	
Rodrigues Insula, Indiæ.	3.*7.36. Or.	46.54. 0.	19. 40.40.	



LOCORUM  
NOMINA.

	Differentia Meridianorum.			Latitudo, seu Elevatio Poli.
	In Tempore.		In partib. Æquat.	
	H. M. S.	G. M. S.	G. M. S.	
Roma, Rom, Italiæ.	0.*15.45. Oc.	3.56.15.	41.*54.11. S	
Rostochium, Mostock, Germ.	0.†15.45. Oc.	3.56.15.	54.†22. 0.	
Roterodamum, Hollandiæ.	0.†44.44. Oc.	11.11. 0.	51.†55. 0.	
Salisburgum, Salsburg, Bavar.	0. 14.40. Oc.	3.40. 0.	47. 34. 0.	
Senæ, Sens, Galliæ.	0.*52.24. Oc.	13. 6. 0.	48. 11.56.	
Siam, Indiæ.	5.*37.50. Oc.	84.27.30.	14. 18. 0.	
Sagan, Silesiæ.	0.* 4. 1. Oc.	1. 0.15.	51.*42.12.	
Smirna, Natiolæ.	0. 43.49. Or.	10.57.15.	38.*28. 7.	
Stokholmia, Stockholm, Sueciæ.	0.* 6.41. Or.	1.40.15.	59.*20.30.	
Surate, Indiæ.	3. 43.50. Or.	55.57.30.	21.†10. 0.	
Schwezinga, Schwezingen, Germ.	0.* 30.47. Oc.	7.41.45.	49.*23. 4.	
Taurinum, Turin, Italiæ.	0. 34.50. Oc.	8.42.30.	45.† 5.20.	
Telo-Martius, Toulon, Galliæ.	0.*41.44. 0.	10.25.55.	43.* 7.24.	
Temesia, Temeswar, Hungariæ.	0. 22.12. Or.	5.33. 0.	45. 42. 0.	
Thessalonica, Græciæ.	0.†27. 2. Or.	6.45.30.	48. 36.21.	
Tergetum, Triest, Italiæ.	0. 13.12. Oc.	3.18. 0.	45. 43. 0.	
Tigurum, Zurich, Helvetiæ.	0.†28.25. Oc.	7. 6.15.	47.†22. 0.	
Tobolsk, Siberiæ.	3.*28.10. Or.	52. 2.30.	58.*12.30.	
Tripoli, Africae.	0.*13. 9. Oc.	3.17.15.	32.*53.40.	
Tridentum, Trident, Tyrolis.	0. 22.40. Oc.	5.40. 0.	45. 43. 0.	
Tyrnavia, Tornaun, Hungariæ.	0.*4. 45. Or.	1.11.15.	48.*22.58.	
Valentia, Hispaniæ.	1. 19.52. Oc.	19.58. 0.	39. 30. 0.	
Valparais, Chili.	5. 54.47. Oc.	88.41.45.	33.* 0.19.M.	
Varfavia, Warschau, Poloniæ.	0.†18.32. Or.	4.33. 0.	52. 14. 0. S	
Venetia, Benedig.	0. 17.12. Oc.	4.18. 0.	45.†25. 0.	
Verona, Italiæ.	0.* 20.16. Oc.	5. 4. 0.	45.*26.26.	
Vienna, Wien, Austriæ.	0. 0. 0.	0. 0. 0.	48. 12.36.	
Vilna, Lithuanicae observ. Reg.	0. 37.15. Or.	9.18.45.	54. 41. 0.	
Vratislavia, Breslau, Silesiæ.	0.* 2.51. Or.	0.42.45.	51.* 6.30.	
Ulma, Ulm, Sueviæ.	0. 25.45. Or.	6.26.15.	48. 23. 0.	
Uffisso, Lisbona, Portugaliæ.	1. 42. 0. Oc.	25.20. 0.	38.*42.20.	
Upsala, Upsal, Sueciæ.	0.* 5. 1. Or.	1.15.15.	59. 51.50.	
Uraniburgum, Insula Zelandiæ.	0.*14. 0. Oc.	3.30. 0.	55. 54.15.	
Wittemberga, Witttemberg, Sax.	0. 15.16. Oc.	3.49. 0.	51. 43.10.	
Wezlas, Arx, Austriæ.	0.* 4.10. Oc.	1. 2.30.	48.*36.30.	
Ylo, Peruvia.	5.*50.22. Oc.	87.35.30.	17.*36.15. M	
Zagrabiæ, Agram, Croatiae.	0. 0.48. Or.	0.12. 0.	46. 6. 0.	



## T A B U L A   X X X .

Gradus correspondentes Thermometrorum usu receptorum,  
suppositis divisionibus uniformibus.

Gradus Thermometri Reaumuriani supra terminum Congelationis.	Thermometr.	Thermometr.	Thermometr.	Thermometr.
	D. de Reaumur.	Domini De l'Isle.	Domini Fahrenheit.	Domini De la Hire
	38	80 3	117 4	
	36	84 1	113 0	
	34	88 0	108 5	
	32	91 9	103 9	
	30	95 8	99 5	83 8
	29	97 7	97 2	81 5
	28	99 6	95 0	79 8
	27	101 4	92 7	78 1
	26	103 3	90 5	76 3
	24	107 1	86 0	73 0
	22	110 9	81 4	69 3
	20	114 7	77 0	65 8
	15	124 4	65 7	57 2
	10	133 9	54 5	48 6
Cong.	0	153 0	32 0	31 3
	5	162 6	20 8	22 7
	6	164 5	18 5	21 0
	7	166 4	16 2	19 2
	8	168 3	13 9	17 5
	9	170 2	11 6	15 8
	10	172 1	9 5	14 0
	11	174 0	7 0	12 3
	12	175 9	4 7	10 6
	13	177 8	2 4	8 9
	14 <sup><math>\frac{1}{2}</math></sup>	180 7	0 0	6 2
	15 <sup><math>\frac{1}{2}</math></sup>	181 6	1 2	5 4
	18	187 0	8 5	0 0
	30	210 3	35 5	
	50	286 8	124 5	
	166	470 0	339 0	
	181	500 0	372 0	

Comparatio hæc intelligitur cum Thermometro Reaumuriano,  
in prima columna posito.

# T A B U L A   X X X .

Reductio Refractionum mediarum Tabulæ XV. ad Refractiones veras secundum altitudines Barometri & Thermometri Reaumuriani in partibus pedis Viennensis.

Altit. Barometri.	Divisor Refractionis Mediz.	Altit. Barometri.	Divisor Refractionis Mediz.	Altit. Barometri.	Divisor Refractionis Mediz.	Altit. Thermom. Reaumur.	Divisor Refractionis primo correct.	Altit. Thermom. Reaumur.	Divisor Refractionis primo correct.
Di. Li.		Di. Li.		Di. Li.					
30 0	+ 24	28 0	— 34	26 0	— 10	30	— 13	5	+ 54
29 11	+ 26	27 11	— 30	25 11	— 10	29	— 14	4	+ 45
29 10	+ 28	27 10	— 28	25 10	— 10	28	— 15	3	+ 39
29 9	+ 30	27 9	— 26	25 9	— 9	27	— 16	2	+ 34
29 8	+ 34	27 8	— 24	25 8	— 9	26	— 17	1	+ 30
29 7	+ 37	27 7	— 23	25 7	— 9	25	— 18	0	+ 27
29 6	+ 42	27 6	— 22	25 6	— 8	24	— 19	1	+ 25
29 5	+ 48	27 5	— 21	25 5	— 8	23	— 21	2	+ 23
29 4	+ 56	27 4	— 20	25 4	— 8	22	— 23	3	+ 21
29 3	+ 67	27 3	— 19	25 3	— 8	21	— 25	4	+ 19
29 2	+ 84	27 2	— 18	25 2	— 8	20	— 27	5	+ 18
29 1	+ 112	27 1	— 17	25 1	— 8	19	— 30	6	+ 17
29 0	+ 168	27 0	— 16	25 0	— 8	18	— 34	7	+ 16
28 11	+ 336	26 11	— 15	24 11	— 7	17	— 39	8	+ 15
28 10	— 0	26 10	— 15	24 10	— 7	16	— 45	9	+ 14
28 9	— 336	26 9	— 14	24 9	— 7	15	— 54	10	+ 13
28 8	— 168	26 8	— 14	24 8	— 7	14	— 63	11	+ 13
28 7	— 112	26 7	— 13	24 7	— 7	13	— 90	12	+ 12
28 6	— 84	26 6	— 12	24 6	— 7	12	— 135	13	+ 12
28 5	— 67	26 5	— 12	24 5	— 7	11	— 270	14	+ 11
28 4	— 56	26 4	— 12	24 4	— 6	10	0 0	15	+ 11
28 3	— 48	26 3	— 11	24 3	— 6	9	+ 270	16	+ 10
28 2	— 42	26 2	— 11	24 2	— 6	8	+ 135	17	+ 10
28 1	— 37	26 1	— 11	24 1	— 6	7	+ 90	18	+ 10
28 0	— 34	26 0	— 10	24 0	— 6	6	+ 63	19	+ 9
						5	+ 54	20	+ 9

Quotum ex divisione Refractionis Medizæ ortum Adde vel Subtrahe, prout divisor fuerit + vel —.

Quotum Adde vel Subtrahe a Refractione primo correctæ prout divisor fuerit + vel —.

# USUS EPHEMERIDUM

ET

## TABULARUM ASTRONOMICARUM.

Cum usum mearum Ephemeridum pluribus annis in tyronum gratiam fuisse explanarim, superfluum sane foret omnia illa identidem repetere, quæ facile in Ephemeridibus ab anno 1757. ad annum 1764. a me dilucide exposita reperiri possunt. Ea tamen, quæ in usum quotidianum veniunt, his in Ephemeridibus retenta sunt, (ne earum usus minus commodus videatur) sed methodo compendiaria proposita.

Juverit vero præcipua quædam adnotasse, quæ hic prætermissa, & ex aliorum annorum Ephemeridibus petenda sunt.

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EXPLICATIO DISCRIMINIS DIEM INTER ASTRONOMICUM ET CIVILEM,  
vide *Ephem. An. priorum.*

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### PROBLEMA

Convertere tempus Astronomicum in civile, & vicissim.  
Vide *Ephem. An. priorum.*

EXPLICATIO TEMPORIS MEDII ET  
VERI, SEU APPARENTIS.

*Vide Ephem. An. priorum.*

P R O B L E M A

*Examinare motum penduli horologii, num is motui medio  
Solis seu tempori medio respondeat.  
Vide Ephem. An. priorum.*

P R O B L E M A I.

*Tempus verum convertere in medium.*

Cum observationes habitæ, aut habendæ exhibeantur  
semper in tempore vero, e contra, horologia pendula  
semper tempus medium indicent, necesse est, nosse me-  
thodum convertendi tempus verum in medium, & vicif-  
sim. Fiat hæc conversio ope columnæ 5tæ, cujus usus hic est:

Videatur in columna quinta, paginæ primæ dati mensis,  
& diei, *tempus medium meridiei veri*, quod si superat horas vigin-  
ti quatuor, addatur ad datum tempus verum, si vero minus  
sit horis viginti quatuor, tum differentia hæc subtrahatur a  
dato tempore vero, dein pro horis intermediis, excerpatur e  
columna 6ta numerus inter datam diem, & sequentem  
medius, factaque proportione: ut 24. horæ ad numerum  
columnæ 6tæ, ita datæ horæ convertendæ, ad partem pro-



portionalem, quæ pro ratione tituli columnæ 6tæ, aut addenda, aut subtrahenda erit a datis horis. Praxim exemplum clarum reddet: In Ephemeridibus A. 1782. Mense Januario in columna Phænomenorum ☉ habetur: *ingressus* ☉ in ♀ die 19. h. 8. m. 58. quæritur tempus medium.

In columna 5ta, pagina prima Mensis Januarii die 19. pro meridie habetur tempus medium h. o. 11'. 21". 4. quod, (quia majus est horis duodecim) addatur ad datam horam 8. m. 58.; erit summa h. 9. 9'. 21" 4. In columna 6ta habetur inter diem 19. & 20. *Incrementum diurnum temporis medi* 17' 7". fiat itaque proportio: ut 24. h., ad 17". 7. ita h. 9. 9'. 21" 4. ad quartum, erit hic 6". 7. quæ, (quia tempus medium est crescens) additiva sunt; erit ergo tempus medium quæsitum h. 9. 9'. 28". 1.

## P R O B L E M A II.

*Datum tempus medium convertere in verum.*

Cum observationes omnes fiant ad horologia pendula, adeoque tempora media adscribantur, dum actu sunt, opus est reductione temporis medi ad verum, ut habeantur momenta vera temporis, quibus observationes factæ sunt. Fit hæc conversio eadem prorsus methodo, qua prioris problematis, sed titulis contrario sensu applicatis; id est, si tempus medium Ephemeridum superat horas 24. tum reductio est *subtrahenda*, *additiva* contra, si tempus medium Ephemeridum minus est horis 24. Ex. Gr. Immersio Satellitis I. Jovis Viennæ Austriæ 1782. mense Febr. die civili 7. observata est contigisse hora 6. 33'. 22" 7. mane, seu Astronomico die 6. h. 18. 33'. 22" 7.; quæritur tempus verum hujus Immersionis.

In Columna 5ta ad meridiem dati mensis die 6. habetur *tempus verum meridiæ veri*, h. o. 14'. 33". 4 itaque titulo contrario, subtrahantur a dato tempore medio, & habebuntur horæ 18. 18'. 49". 3. Porro numerus columnæ 6tæ inter diem 6. & 7. Febr. est 3". 1. sub signo + factaque proportione: ut 24. h. ad 3". 1. ita h. 18. 18'. 49". 3. ad 2". 3.; quæ titulo contrario, nempe *subtrahendo*, applicata dant tempus

verum Immerfionis Satellitis I. Jovis Astronomicum die 6. h. 18. 18'. 47".; seu civile die 7. h. 6. 18'. 47". mane prout in his Ephemeridibus notatur. *Hac methodo observationes omnes factæ tempore medio (seu ad motum horologii exacte correcti) reducuntur ad tempus verum.*

## USUS COLUMNÆ 7<sup>mæ</sup>. & 8<sup>væ</sup>.

### PAGINÆ CUJUSVIS MENSIS PRIMÆ.

**N**umeri hujus columnæ nihil sunt aliud, quam differentia Ascensionis rectæ Solis culminantis conversæ in tempus ope Tab. XXII. quæ sunt veræ distantia  $\circ V$  a Meridiano, dum Sol culminat. Tempora hæc, vera quidem sunt, at consulto non correctæ, ope partis proportionalis, datis horis respondentis. Quare non eo sensu acceptum volumus tempus hoc verum hujus columnæ, quasi punctum  $\circ V$ , aut stella fixa in hoc puncto existens tempore in columna signato culminaret; notum enim est, si hoc quaratur, adhibendam esse correctionem columnæ 8<sup>væ</sup>. His positis usus hujus columnæ potissimum est in inveniendo tempore vero Culminationis stellæ cujusdam, cujus nota est ascensio recta conversæ in tempus.

### PROBLEMA III.

*Data die invenire tempus verum Culminationis stellæ cujusdam in Meridiano Observatorii Viennensis.*

**E**catalogo fixarum, his Ephemeridibus inserto, excerpatur Ascensio recta stellæ datæ in tempus conversæ; excerpatur quoque e columna 7<sup>mæ</sup>, paginæ primæ dati mensis, & datæ diei tempus verum distantia  $\circ V$  a meridiano, addantur hæc quanta in unam summam, dabit hæc (si non excedat horas 24.) tempus verum Culminationis stellæ, sed nondum correctum; ut habeatur correctum, excerpatur pro data die e columna 8<sup>væ</sup>, acceleratio fixarum præ motu Solis vero, tum fiat proportio, ut 24. h. ad accelerationem fixarum columnæ 8<sup>væ</sup>, ita horæ Culminationis paulo ante inventæ ad partem proportionalem,

cemper subtrahendam ab inventis horis, qua rite applicata, habebitur satis præcisum tempus verum Culminationis stellæ. Quod si summa Ascensionis rectæ, & Distantiæ  $\circ V$ , excedat horas 24, subtrahantur horæ 24, & residuæ horæ indicabunt tempus verum Culminationis stellæ pro data die quæsitum.

## E X E M P L U M I.

Quæritur anno 1782. die 22. Februarii tempus verum Culminationis *Spicæ*  $\eta$  in meridiano Observatorii Viennensis? In catalogo fixarum harum Ephemeridum est Ascensio recta in tempore stellæ *Spicæ*  $\eta$ . h. 13. 13' 43". 6. In columna 7<sup>ma</sup> paginæ primæ mensis Februarii, die 22. est Distantia  $\circ V$  a meridiano h. r. 36'. 17" 5. quæ simul addita efficiunt horas 14. 50'. 1" 1. Excerptatur e columna octava Acceleratio fixarum præ motu Solis vero pro die 22. Febr. 3' 47" 8. fiat analogia; ut 24. h. ad 3. 47" 8. ita h. 14. 50'. 1" 1. ad 2' 20" 9., quæ subtracta ab h. 14. 50'. 1" 1. dant tempus verum correctum Culminationis *Spicæ*  $\eta$ . die 22. Febr. h. 14. 47' 40". 2.

## E X E M P L U M II.

Quæritur, quonam tempore vero *Arcturus* culminarit Viennæ in Observatorio anno 1782. die 22. Maji, qua die Sol versatur in ejus parallelo. E catalogo fixarum Ascensio recta *Arcturi* conversa in tempus habetur h. 14. 5'. 45" 3. Distantia  $\circ V$ . a meridiano die 22. Maji est. 20. h. 3'. 1" 8.; harum summa habetur 34. h. 8'. 47" 1. & cum horæ excedant horas 24.; abjectis 24. horis habebuntur horæ 10. 8'. 47" 1. Acceleratio fixarum e Columna 8<sup>va</sup>, pro die 22. Maji est: 4' 1" 1., & facta analogia: ut 24. h. ad 4'. 1" 1. ita 10. h. 8. 47" 1. ad 1' 41" 9. quibus subtractis, habetur tempus verum correctum Culminationis *Arcturi* die 22. Maji, hora 10. 7' 5" 2.



## P R O B L E M A IV.

*Dato tempore horologii, dum stella quæpiam culminat, invenire tempus verum correctum Culminationis stella, itemque tempus medium, quod horologium indicare debet tempore Culminationis, si recte ordinatum sit.*

**U**t brevitati consulamus, (cum Resolutio hujus Problematis, a priore Problemate, & antecedentibus dependeat) idem Exemplum declarationi serviat.

Die 22. Maji anno 1782. Viennæ in Observatorio observatus est culminasse *Arcturus* tempore horologii Astronomici vespere h. 10. 3' 23". quæritur tempus verum correctum, itemque medium, quod horologium indicare debuit, si recte ordinatum sit.

Tempus verum correctum Culminationis *Arcturi* inveniatur ex Ephemeridibus, ut Probl. III. dictum est, quod repertum habetur: h. 10. 7'. 5". Tempus hoc verum convertatur in medium per Probl. I. quod invenitur esse 10. h. 3' 22". 8. aut numero rotundo 23". quare cum tempus horologii Astronomici culminante *Arcturo* præcise etiam sit h. 10. 3'. 23". recte igitur ordinatum habetur pendulum horologium.

Quod si tempus medium, hac methodo repertum, excedat, aut deficiat a tempore horologii, indicium est, horologium accelerare, aut retardare, aut saltem indices non recte esse constitutos; verum, quam ex parte horologium corrigendum sit, per antecedentia Problemata investigandum; itemque per Problemata subsequents in tempus maxime præcisum inquirendum erit.

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### U S U S C O L U M N A R U M P A G I N Æ C U J U S V I S M E N S I S S E C U N D Æ.

**P**agina 2da cujusvis mensis septem continetur columnis, quarum prima dies complectitur Mensis, secunda Lon



gitudines  $\odot$  veras in Ecliptica, dum Sol in Meridiano versatur, exhibet *Tertia*: motus Solis verus horarius continetur, cujus usus est in invenienda longitudine  $\odot$  pro tempore quovis dato, ut ex sequenti Problemate constat.

### P R O B L E M A V.

*Pro dato quocunque tempore vero invenire longitudinem Solis, seu locum in Ecliptica, in quo  $\odot$  versatur.*

Quæritur 1782. die 28. Januarii h. 21. m. 50. dum Plenilunium contingit, quamnam longitudinem Sol illo momento habeat, seu in quo loco Eclipticæ versetur. E. columna tertia pagina secunda mensis Januarii pro die 28. excerpatur motus horarius Solis verus  $2'. 32''$ . 3. quæ omnia reducta ad decimas, erunt  $2'. 32''$ . 3 = 1523. hæc multiplicata per datum horarum numerum 21. produciunt motum Solis pro horis 21. æqualem 31983. Quæritur præterea pars proportionalis pro minut. 50. in ferendo: ut 60'. seu una hora ad 50'. ita  $2'. 32''$ . 3. ad  $2'. 6''$ . 9. seu 1269, quæ addita ad 31983, efficiunt summam: 33252. seu  $55'. 25''$ . 2. hæc addita ad locum Solis Ephemeridum columnæ secundæ paginæ secundæ mensis Januar. 28.  $\approx$  8. gr.  $45'. 59''$ . efficiunt locum Solis in  $\approx$  9 gr.  $41'. 24''$ . 2.

*Notandum: Cum tempora harum Ephemeridum sint vera, & Astronomica, si dentur tempora media, & civilia, pro quibus loca  $\odot$  quærentur, hæc tempora prius reducenda sunt ad vera & Astronomica, quod monitum & de ceteris omnibus locis  $\odot$ , & Planetarum observandum est.*

### P R O B L E M A VI.

*Data differentia Meridianorum inter Meridianum Vienneſem, & loci alicujus Telluris, invenire longitudinem  $\odot$  culminantis pro loco dato, & data die.*

Quæritur Ex. Grat. Parisiis anno 1782. die 28. Marti, quamnam longitudinem habuerit centrum Solis,

dum in Meridiano Parisino versabatur, ? Distantia Meridiani Parisini a Viennensi (ut habetur Tab. XXIX.) est  $56'. 10''$ . temporis occidentem versus.

Cum tempus verum Viennæ, Sole Parisiis culminante (ob distantiam occidentalem) semper sit o. h.  $56'. 10''$ . adeoque post meridiem: si pro hoc momento datæ diei quæretur longitudo Solis per Probl. V. erit longitudo hæc Solis inventa, ea ipsa, quæ quæritur pro momento Culminationis loci Parisini; reperitur nempe per Resolutionem Probl. V. pro die 28. Martii V. 7. gr.  $56'. 12'' 5$ .

Quod si distantia dati Meridiani sit orientalis respectu Meridiani Viennensis, hæc distantia temporaria Tabulæ XXIX. subtracta ab horis 24. dat horam, quæ est Viennæ, dum Sol in loco orientaliore culminat, & quidem hora repertæ semper sunt diei antecedentis. Quæritur Ex. Gr. Longitudo Solis culminantis Petropoli in Moscovia anno 1782. die 28. Martii. Juxta Tab. XXIX. Petropolis orientalis habetur Meridiano Viennensi  $55'. 50''$ . temporis, quibus subtractis ab horis 24. relinquitur hora  $23. 4'. 10''$ . quæ est Viennæ Sole Petropoli culminante pro quo tempore inventa longitudo Solis, per Probl. V. habetur V. 7. gr.  $51'. 39'' 5$ .

### USUS COLUMNÆ 3<sup>tiæ</sup> & 4<sup>ta</sup>.

#### PAGINÆ CUJUSVIS MENSIS SECUNDÆ.

Columna tertia & quarta habentur Ascensiones rectæ ☉ culminantis, columna tertia has in gradibus, quarta in tempore exhibet. Usus harum hic est:

### PROBLEMA VII.

Ope Ascensionis rectæ Solis in tempore, invenire tempus verum Culminationis stellæ cujusdam.

Quæritur Ex. Gr. die 22. Maji 1782. quonam tempore vero culminet *Arcturus* in Observatorio Viennensi? Ab Ascensione recta *Arcturi* in tempore, quæ habetur in

Catalogo fixarum illarum Ephemeridum 14 h. 5'. 45". 3. subtrahatur datæ diei 22 Maji ascensio recta Solis conversa in tempus, quæ est, 3. h. 56'. 58". 2. residuum 10 h. 8'. 47". 1. corrigatur ope columnæ 8væ pag. 1. hujus mensis subtrahendo partem proportionalem 1'. 41". 7. & habebitur tempus verum correctum Culminationis *Arcturi* die 22. Maji h. 10. 7'. 5". prorsus idem, quod Problemate III. Exemplo II. repertum habebatur.

Quod si Ascensio recta stellæ minor sit Ascensione recta Solis, Ascensio recta stellæ augenda est horis 24. ut subtractio Ascensionis rectæ solis institui possit. Ascensionis rectæ conversæ in tempus perquam commodus usus est in planetarum Culminationibus.

### USUS COLUMNÆ 6<sup>te</sup> & 7<sup>me</sup>.

#### PAGINÆ CUJUSVIS MENSIS SECUNDÆ.

Columna Sexta Declinationem ☉ culminantis in die singulos calculo trigonometrico ad angulum Eclipticæ pag. quinta relatum determinatam exhibet, cujus usus, præter ceteros, sequentia problemata complectuntur.

### P R O B L E M A VIII.

*Dato quovis tempore invenire Declinationem ☉.*

Resolutio hujus Problematis eadem est, quæ Problematis V. Hic adnotasse juverit, quod Problemate V. monitum, si præcisa desideretur Declinatio, eam methodo Trigonometrica eruendam esse, propterea, quia hæc crescit, vel decrescit non ratione temporis, sed longitudinis ☉ in Ecliptica.

### P R O B L E M A IX.

*Data altitudine centri ☉ meridiana vera, dataque Declinatione ☉, invenire latitudinem loci, & altitudinem Æquatoris supra horizontem.*

*Vide Ephem. An. priorum.*



## P R O B L E M A X.

*Data altitudine vera Astri cujusvis supra horizontem, dataque elevatione Poli, invenire tempus verum factæ observationis, & vicissim dato tempore vero invenire altitudinem Astri cujusvis supra horizontem.*

**R**esolutio hujus Problematis utilissimi, unica fere est methodus, eaque tutissima, quæ ab observatoribus Navarchis in mari navigantibus usurpari solet ad repertiendum tempus verum factæ alicujus observationis Astronomicæ. Maximi quoque usus est Astronomis sive in itinere constitutis, sive in locis peregre versantibus, atque instrumentorum apparatu destitutis, aut etiam in Observatoriis instructissimis pro tempore inclementiæ aëris, qua seu Culminationes Solis, & fixarum, seu correspondentes altitudines per dies aliquot observandæ impediuntur. Resolutio autem Problematis sequens est, quæ in Trigonometria spherica passim demonstrata reperitur.

I. *Altitudo exacte observata Astri cujusdam, ad veram (correcta refractione & parallaxi, & aliis) reducatur.*

II. *Ex Ephemeridibus calculetur Declinatio Astri pro ratione differentiæ Meridianorum a loco Ephemeridum, & pro tempore circiter accepto factæ observationis.*

III. *Addantur in unam summam: Complementum altitudinis veræ Astri; Complementum elevationis Poli loci dati, & distantia Astri a Polo; est autem hæc distantia semper æqualis 90. gradibus minus Declinatione Astri, si tam Declinatio, quam elevatio Poli sint ejusdem denominationis, contra vero, si diversæ sint denominationis, erit distantia Astri æqualis 90. gradibus plus Declinatione Astri.*

IV. *Hujus summa accipiatur semissis, ab hac semisse subtrahatur Primo Complementum elevationis Poli, ut habeatur Excessus Primus; Ab eadem semisse auferatur Distantia Astri a Polo, & habebitur Excessus Secundus.*



V. Sumantur Logarithmi sinus horum duorum Excessuum, addanturque ad Logarithmum duplum radii, seu sinus totius, dein ab hac summa subtrahatur summa Logarithmi sinus complementi elevationis Poli, plus Logarithmo sinus distantiae Astri a Polo. Demum residui Logarithmi accipiatur semissis, erit hac semissis Logarithmus sinus arcus cujusdam, qui duplicatus dat distantiam Astri a Meridiano in gradibus, qua habita habetur quoque tempus verum acceptæ altitudinis, ut infra ostendam.

Ex. Gr. Anno 1782. a navigantibus in mari Atlantico haud procul ab inf. Ferri sub Latitudine Boreali 17. gr. 47'. atque haud procul a Meridiano Primo, die 30. Julii, ad explorandum motum horologii astronom. a Navarcho observata habetur altitudo centri Solis, a Refractione & ceteris correcta, seu vera, 31. gr. 35'. Sole versante in Plaga occidentali, tempus horologii erat h. 4. m. 3. Quæritur tempus verum.

Ante calculum Trigonometricum, pro tempore circiter tantum accepto horologii, reperiatur Declinatio Solis ex Ephemeridibus, quæ erit 18 gr. 24'. 43". seu 18 gr. 25' Borealis; igitur :

Compl. Altitud. $\odot$	=	58° 25'.	
Compl. Elevat. Poli.	=	72. 13.	
Distantia a Polo	=	71. 35.	
<hr/>			
	Summa	=	202. 13.
	Semissis	=	101. 6½.
Compl. Elevat. Poli	—	72. 13.	
<hr/>			
	Excessus Primus	=	28. 53½. Log. sin. = 9. 68408
Distantia a Polo	—	71. 35.	
<hr/>			
	Excessus secundus	=	29. 31½. Log. sin. = 9. 69267
	Duplus Log. sin. tot.	=	20. 00000
<hr/>			
Log. sin. 72° 13'	=	9. 97873.	Summa = 39. 37675
Log. sin. 71. 35.	=	9. 97716.5	— 19. 95589
<hr/>			
	Summa	=	19. 95589. Residuum = 19. 42086
	Semissis	=	9. 71043

Hæc semissis ultima (9, 71043) est Log. sinus arcus 30. gr. 53' 20". cuius duplum 61. gr. 46'. 40". conversum in tempus ope Tab. XXIII. dat horam 4. 6'. 25". igitur cum tempus horologii fuerit h. 4. m. 3. noscitur tardius indicare tempus verum 3'. 25".

Quando observata habetur altitudo vera stellæ fixæ, aut Planetæ, hoc casu, præter jam dicta calculandum est quoque tempus culminationis stellæ, aut Planetæ pro loco observationis secundum differentiam Meridianorum, vel certam ex Ephemeridibus, vel circiter ex Mappis Geographicis, aut Nauticis acceptum, & quidem pro die observationis, & die antecedente, vel consequente, prout observatio facta ante, vel post culminationem exigit. Secundo, arcus ope calculi trigonometrici paulo ante expositi repertus in gradibus, non per Tabulam XXIII. sed ope hujusmodi Analogiæ convertendus est in tempus: ut 306. gr. ad revolutionem integram stellæ, aut Planetæ in tempore (id est temporis intervallum inter duos appulsus consequentes ad Meridianum) ita inventa distantia Astri a Meridiano in gradibus, ad tempus quesitum. Quod tempus a tempore culminationis Astri subtractum (si observatio facta fuit in plaga orientali) vel additum (si observatio fuit in plaga occidentali) dabit tempus verum factæ observationis.

Ex. Gr. In Observatorio Regio Viennensi Anno 1782 die 31. Martii vespere circa horam 9. observata est altitudo apparens *Reguli* in plaga orientali 54. gr. 43"; quæ a refractione &c. correctæ, vera habetur: 54. gr. 42'. 14". Declinatio correctæ *Reguli* pro hoc tempore est, 13. gr. 1'. 23". Latitudo Vienn. 48. gr. 12'. 36". culminat *Regulus* Viennæ die 31. Martii h. 9. 15'. 28". intervallum revolutionis *Reguli* habetur; 23. h. 56'. 22". His positis:

$$\text{Complem. Alt. } \alpha \Omega = 35^{\circ} 17' 46''$$

$$\text{Complem. Elev. Poli} = 41. 47. 24.$$

$$\text{Distant. } \alpha \Omega \text{ a Polo} = 76. 58. 37.$$

$$\text{Summa} = 154. 3. 47.$$

$$\text{Semifis} = 77. 1. 53\frac{1}{2}$$

$$\text{Complem. Elev. Poli} = 41. 47. 24.$$

$$\text{Excessus primus} = 35. 14. 29\frac{1}{2}. \text{ Lo. fin.} = 9,76119$$

$$\text{Distantia } \alpha \Omega \text{ a Polo} = 76. 58. 37.$$

$$\text{Excessus secundus} = 0. 3. 16\frac{1}{2}. \text{ Lo. fin.} = 6,97782.$$

$$\text{Dupl. Log. S. t.} = 20,00000.$$

$$\text{Log. finus, } 41^{\circ} 47' 24'' = 9,82373. \left. \begin{array}{l} \\ \end{array} \right\} \text{Summa } 36,73901$$

$$\text{Log. finus, } 76. 58. 37. = 9,98868. \left. \begin{array}{l} \\ \end{array} \right\} \text{ - - - } 19,81241$$

$$\text{Summa } 19,81241. \text{ Resi.} = 16,92660$$

$$\text{Semifis} = 8,46330$$

Hæc Semifis (8,46330) est Log. finus arcus 1. gr. 39'. 55''  
cujus duplum 3 gr. 19'. 50''. conversum in tempus ope ante  
dictæ Analogiæ: ut 360 gr. ad 23 h. 56'. 22''. ita 3. gr. 19''  
50'' ad 13' 17''. (quæ 13' 17'') subtracta a tempore vero Cul-  
minationis  $\alpha \Omega$  die 31 Martii, nempe a 9. h. 15'. 28''. dant  
tempus verum factæ observationis 9 hora 2'. 11''.

Quod si jam dato tempore vero, quærat<sup>r</sup>ur Astri alicujus  
altitudo vera supra horizontem loci dati, in hanc ope  
sequentium binarum Analogiarum inquirendum est.

## ANALOGIA Ima.

Ut finus totus ad finum complementi arcus (qui est interval-  
lum conversum in gradus, inter Culminationem Astri, &  
datum tempus) ita tangens complementi Elevationis Poli ad  
tangente[m] arcus cujusdam, qui interea appelletur X.

Hic arcus X. subtrahatur a distantia Astri a Polo, (quæ  
est, ut ante dictum, 90 gr. minus Declinatione Astri, si sint  
ejusdem denominationis, contra si sint diversæ, erit distantia  
Astri a Polo, 90. gr. plus Declinatione Astri) & habebitur ar-  
cus, qui appelletur Y.

Nota : Si intervallum inter culminationem *Astri* , & datam horam excedat horas 6 , seu majus sit 90. gradibus , arcus *X* addendus est ad distantiam *Astri* a Polo , ut habeatur arcus *Y*. Tum fiat secunda Analogia.

## ANALOGIA II<sup>da</sup>.

Ut sinus complementi arcus *X* , ad sinum complementi arcus *Y* , ita sinus elevationis poli , ad sinum altitudinis vere *Astri* supra horizontem.

Praxis idem exemplum clarum reddet ; sit E. Gr. quaerenda altitudo vera *Reguli* in Observatorio Regio Vien. Anno 1782. die. 31. Martii h. 9. 2'. 11" , post meridiem. Culminat *Regulus* , h. 9. 15'. 28" . intervallum culminationum consequentium est , 23 h. 56'. 22" . intervallum temporarium inter Culminationem *Reguli* , & datum tempus est , 13'. 17" , quod conversum in gradus ope Analogiae : ut 23 h. 56'. 22" . ad 360. gr. ita 13'. 17" , ad 3. gr. 19'. 50" . quibus habitis

Sinus Compl. arcus 3°. 19' 50" = 86°. 10' 40" Log. = 9,99926.  
Tang. Compl. Elev. Poli = 41°. 47'. 24" . Log. = 9,95123.

Summa = 19,95049.

Logarith. S. t. — 10,00000.

Logarith. Tang. arcus *X* = 9,95049.

Habetur ergo arcus *X* = 41°. 44'. 28" .

Distantia  $\alpha$   $\Omega$  a Polo = 76. 58. 37.

Arcus *Y* = 35. 14. 9.

Sinus Compl. arcus *Y*. = 54°. 45'. 51. Log. = 9,91211

Sinus Elevat. Poli = 48. 12. 36. Log. = 9,87250.

Summa = 19,78461.

Sinus Compl. arcus *X* = 48°. 15'. 32" . Log. — 9,87283

= 9,91178

Huic Logarithmo respondet sinus arcus 54. gr. 42'. 13' quae est altitudo vera *Reguli* pro dato tempore , cui si applicetur refraction Tab. XVII. habebitur altitudo apparens 54 gr. 42'. 59" . quam superior observatio ad hunc diem exhibet 54 gr. 43'. 0" .



## USUS PAGINÆ CUJUSVIS MENSIS TERTIÆ.

**P**agina cujusvis mensis tertia, in novem distincta habetur columnas, quæ omnes Solem attinent. *Prima* habet dies mensis, tres sequentes columnæ Solis culminantis diametros apparentes, moras disci ☉ per meridianum, & ejusdem distantias a tellure in dies singulos supputatas complectuntur, quarum hic potissimum usus habetur.

### USUS COLUMNÆ *2<sup>dæ</sup> 3<sup>tiæ</sup> & 4<sup>tæ</sup>.* PAGINÆ CUJUSVIS MENSIS TERTIÆ.

**S**ecunda columna diametros ☉ culminantis apparentes in dies singulos exhibet in partibus circuli maximi secundum Anomaliam ☉ diurnam e Tabulis D. de la Caille calculata. Hæ diametri ☉ apparentes nihil aliud sunt, quam arcus circuli maximi, quos discus ☉ subtendit e terra visus, qui pro ratione distantie a terra variantur; 1782 anno diameter ☉ minima 31. m. 33. f. 8. habetur die 30. Junii, quo die scilicet ☉ est apogæus. Maxima e contra 32. m. 38. f. 4. apparet die 30. Decembr. Sole perigæo. Usus hujus 2<sup>dæ</sup> columnæ hic est :

#### P R O B L E M A X I.

*Data altitudine visa limborum ☉ culminantis invenire  
altitudinem veram centri ☉.*

**N**otum est Astronomis practicis, altitudinem centri ☉ culminantis per instrumenta immediate, & accurate determinari non posse ob amplitudinem disci, sed eam obtineri ope altitudinis limborum per filum fixum, aut mobile micrometri captam & mensuratam. Hinc praxis quidem exigit, ut ope ejusdem micrometri eodem tempore, quo altitudo limbi alicujus definitur, mensuretur quoque diameter ☉ apparens, atque hæc dimidiata, & correctæ

(per refractionem, & parallaxim) ab altitudine limbi superioris subtrahatur, aut ad limbum inferiorem addatur, ut obtineatur altitudo centri ☉ vera. At enim, quia sæpissime contingere notum est, ob circumstantias varias, diametrum apparentem actu, cum altitudo limbi capitur. mensurari non posse; usus hujus columnæ 2dæ hoc casu perquam commodus est. Ut exemplo declaratur:

### E X E M P L U M.

1782. die 20. Martii ipsa nempe, qua constat ex Ephemeridibus contingere debere æquinoctium verum, Sole culminante in Observatorio Vienn. observata supponitur altitudo visa limbi Solis superioris 42 gr. 4'. 21". subtractis 1'. 6". ob correctionem refractionis & parallaxis, restat altitudo limbi superioris vera 42 gr. 3' 15". excerptatur ex Ephemeridibus diameter Solis apprens ad diem 20. Martii, quæ habetur 32'. 11" 2. cujus semis 16'. 5". subtracta ab altitudine limbi Solis superioris vera & correctæ, dat quæsitam altitudinem centri Solis culminantis veram die 20 Martii 41. gr. 47'. 10". inde colligitur Solem nondum ingressum esse ☉ V cum reperta altitudo Solis meridiana minor sit altitudine Æquatoris Viennensi, quæ habetur 41. gr. 47'. 24".

Quod si observata sit altitudo limbi ☉ inferioris, hoc casu, semidiameter Solis apparens addenda erit.

Idem hoc Problema facile applicatur ad omnes altitudines limborum ☉ supra horizontem visas.

Columna 3tia ejusdem paginæ moras transitus disci ☉ per meridianum in usus sequentes complectitur.

### P R O B L E M A XII.

*Invenire momentum verum temporis, dum Solis centrum in Meridiano Viennensi culminat.*

**E**x usu observationum Astronomicarum constat, si momentum temporis accuratum desideretur, quo centrum ☉ culminat (seu in id inquiretur per lineam me-

ridianam, seu per tubos meridianos filis verticalibus instructos, seu quacunq; methodo, quæ discum ☉ exhibit) opus esse, ut notentur accurate momenta horologii, dum limbus ☉ occidentalis & orientalis ad fila meridiana appellit. Tempus enim horologii, quod inter appulsum limbi orientalis, & occidentalis interlapsum est, divisum bifariam, & vel tempori appulsus limbi occidentalis, seu prioris additum, vel a tempore appulsus limbi orientalis, seu posterioris subtractum, dat momentum verum temporis, quo centrum ☉ in meridiano culminabat. Praxim in Tironum usum exemplo declarasse juverit.

### E X E M P L U M.

1782. die 22. Septembris, quo Æquinoctium autumnale contigit, ad horologium pendulum exactum Viennæ in Observatorio habetur limborum ☉ ad lineam meridianam appulsus tempore medio:

H. M. S.

Appulsus limbi ☉ occident. 11. 51. 31. Differentia.

limbi ☉ orient. 11. 53. 39. 2 m. 8 s.

+ vel - 1. 4. dim. 1 m. 4 s.

Tempus medi. cent. ☉ culm. 11. 52. 35.

Quia vero, cœlo non favente, aut ob alias circumstantias utriusque limbi ☉ appulsus, sæpe haberi nequeunt, defectum hunc supplet columna 3tia paginæ cujusvis mensuræ 3tiæ moram transitus disci ☉ per meridianum in dies singulos exacte exhibens; cujus ope (observato alterutrius limbi duntaxat appulsu) momentum verum temporis haberi potest centri ☉ culminantis.

Usus autem hic est, tempus in hac columna signatum dividatur bifariam, hujus dimidium ad tempus observationis limbi occidentalis, seu prioris *additum*, aut a tempore observationis limbi orientalis, seu posterioris ☉ *Subtractum*, exhibet momentum verum temporis centri culminantis.

## E X E M P L U M I.

1782. Die 14. Januarii observatur tempore medio horologii penduli, in tubo Quadrantis fixi Meridionalis.

	H. M. S.
Appulsus limbi ☉ occid.	o. 8. 55.
Dimid. moræ Transit. Ephemer.	+ 1. 10.
Momentum ver. culm. centri ☉ :	o. 10. 5.

## E X E M P L U M II.

	H. M. S.
1782. Die 20. Februarii in linea Meridiana.	o. 15. 10.
Appulsus limbi ☉ orient.	o. 15. 10.
Dimid. moræ Transit. Ephemer.	- 1. 6.
Momentum ver. culm. centri ☉	o. 14. 4.

Columna 4ta paginæ tertiæ cujusvis mensis logarithmum distantiarum Solis a tellure (supponendo semi-axem majorem ellipse orbitæ telluris = 1) ad dies singulos exhibens; in calculandis Lunæ, aliorumve Planetarum distantis, & angulis quam plurimos in Astronomia practica usus habet, quos brevitatis causa prætermittere cogor.

## P R O B L E M A XIII.

*Dato tempore factæ observationis secundum horologium, cujus motus, & indices a tempore medio aberrant, datis item duobus Meridiebus observatis ad idem horologium, invenire Reductionem observationis ad tempus verum.*

**E**x. Gr. sit Viennæ An. 1755. die 3. Januarii mane observata Immersio Satellitis I. Jovis tempore horologii hora 6. 4'. 5". seu tempore Astronomico die 2. Jan. hora 18. 4' 5". habentur autem momenta centri Solis culminantis, seu ex linea Meridiana, sive ex altitudinibus ☉ correspondenticibus ad idem horologium factis pro die 2. Jan. o h. 9'. 15". & pro die 3. Jan. h. o. 9'. 49".



Supponitur autem horologium motum habere æquabilem, licet acceleratum, aut retardatum respectu temporis medii.

I. Cum tempus verum in Meridie semper sit h. 0. 0'. 0'', patet horologium die 2. Jan. supra tempus verum indicasse 9'. 15''. & die 3. Jan. 9'. 49''. liquet etiam horologium hoc non indicare tempus medium, cum tempus medium pro die 2. Jan. sit. h. 0. 4'. 49''. & pro die 3. Jan. 0. 5'. 16'', neque etiam accelerationem habere respondentem motui medio, cum acceleratio horologii sit 34''. quæ esse deberet 27''. itaque

II. Quærat, pro tempore observationis, seu pro hora 18. 4'. 5''. pars proportionalis accelerationis horologii, inferendo ut 24. horæ ad 34''. (*accelerationem horologii*) ita h. 18. 4'. 5''. ad 25''. hæc 25''. addita ad tempus Meridiei (*cum sit crescens*) diei 2. Januarii, efficiunt reductionem temporis horologii factæ observationis ad tempus verum = 9'. 40''. quare cum tempus horologii hac quantitate superaverit tempus verum, dum observatio fieret, sequitur, hæc 9'. 40''. esse *subtractiva* a tempore observationis, quapropter tempus verum factæ observationis Immerfionis I. Satel. Jovis die 2. Jan. erat h. 17. 54'. 25''. seu die civili 3. Jan. h. 5. 54'. 25''.

Si tempus horologii sit respectu temporis veri Meridiei retardans, patet reductionem fore *additivam*. Ex. gr. sit eadem Immerfio I. Satel. observata die 2. h. 17. 51'. 10''. sint autem Meridies ad idem horologium observatæ pro die 2. Jan. h. 23. 56'. 32''. & pro die 3. Jan. h. 23. 56'. 50''. ex quibus patet, horologium deficere a tempore vero die 2. Jan. per — 3'. 28''. & die 3. Jan. — 3'. 10''. & accelerationem esse + 18''. quare facta proportione accelerationis pro tempore observationis seu pro horis 17. 51'. 10'', reperitur acceleratio + 13''. quæ addita ad tempus Meridiei diei 2. Jan. efficiunt h. 23. 56'. 45''. quod a tempore vero deficit per 3'. 15''. hæc ergo 3'. 15'', *addita* ad tempus observationis h. 17. 51'. 10'', efficiunt tempus verum Immerfionis I. Satel. observatæ h. 17. 54'. 25''.

*Problema hoc in gratiam Observatorum minus exercitatorum ad-  
fectum volui, eo, quod experientia edoctus sim, plerasque horum  
Observatorum inutiles reddi observationes ob solam reductionem  
temporis factæ observationis ad tempus verum.*

USUS COLUMNÆ 5, 6, 7, & 8<sup>va</sup>.  
PAGINÆ CUJUSVIS MENSIS TERTIÆ.

**C**olumnæ 5. & 6. ortus & occasus centri ☉ veros in hori-  
zonte Viennensi ad dies singulos complectuntur. Du-  
plex Astronomis habetur ortus, aut occasus, *apparens* al-  
ter, alter *verus*. *Apparens* ortus dicitur, dum in horizon-  
te oculis primum conspicitur astrum; occasus item *appa-  
rens*, dum in horizonte occiduo primum visui astrum eri-  
pitur. *Verus* e contra ortus astri habetur, dum reipsa pri-  
mo horizontem attingit, & occasus *verus*, dum reipsa  
horizontem occiduum relinquit. Notum enim e legibus  
dioptricæ, radios e medio rariore in densius, quale est  
nostra atmosphæra, refringi ad perpendicularum. Hinc vi-  
deri Solem Ex. Gr. oriri, dum adhuc reipsa infra horizon-  
tem latet, & videri adhuc in horizonte occiduo, dum jam  
reipsa infra hunc occidit. Refractio itaque sidera supra  
horizontem attollit, quo fit, ut *apparentes* ortus pro ra-  
tione refractionis contingant citius, *apparentes* autem oc-  
casus ferius *veris*. Refractio hæc pro varietate locorum  
varia est, varia quoque pro ratione altitudinis siderum su-  
pra horizontem, maxima est in horizonte, nulla in zenith.

Tabula XVII. ad usus refractionis supputata habetur.  
e qua, si refractionis maxima, quæ est 33. m. 45. f. conver-  
tatur in tempus, habetur acceleratio ortus veri, aut re-  
tardatio occasus veri sub latitudine loci Viennensis circi-  
ter 3. m. 30. f. ut inferius declarabitur.

Columna denique 8<sup>va</sup> paginæ cujusvis mensis *tertiæ*, Phæ-  
nomena & observationes solis præcipuas ob oculos ponit  
Reperiuntur scilicet in hac columna conjunctiones solis cum  
Planetis tam superiores, quam inferiores, quæ observa-  
tiones maxime faciunt ad Theoriam Planetarum magis ex

colendam, cum hoc casu loca heliocentrica sint quoque geocentrica. Indicantur tempora, quibus Sol fit perigæus, aut apogæus, ut circa hæc tempora, methodo Klamsteediana accuratius in hæc puncta per observationes inquiratur, quæ methodus, cum requirat exactam Solis cum stellis fixis comparationem, quoad Ascensionem rectam, hæc autem tutissime instituatur, dum Sol in earundem parallelis versatur, hinc in hanc columnam haud paucos dies inseruimus, quibus Sol versatur in parallelo stellarum Declinationem Solis non excedentium. In hac quoque columna determinata habentur tempora vera, quibus Sol signum quoddam Zodiaci ingreditur, e quibus præcipua sunt Æquinoctialia, & Solstitialia, illa, ut admoneant, observationibus præcessionum punctorum Æquinoctialium, hæc statuendæ obliquitatis Eclipticæ incumbendum esse; verbo, ea inserta reperiuntur, quæ ad Theoriam Solis, & systematis solaris maxime facere arbitrabar.

### USUS PAGINÆ CUJUSVIS MENSIS QUARTÆ.

Quarta cujusvis mensis pagina in 8 distincta columnas ad Lunam, Planetam nobis vicinissimum, at maxime laboriosum pertinet. Prima quævis columna diem mensis, 2da Longitudinem Lunæ, 3tia Latitudinem, 4ta Declinationem omnes veras exhibet; 5ta Columna nodum ascendentem orbitæ lunaris, 6ta Diametrum Lunæ horizontalem, 7ma Parallaxin horizontalem refert. Supputata sunt omnia pro eo temporis momento, quo centrum Solis hic Viennæ culminat. e tabulis recentissimis & accuratissimis *D. Tobie Mayer*. 8va denique tempora vera Transiuum centri Lunæ per Meridianum Observatorii Cæs. Reg. Viennensis, in dies singulos, excepta die conjunctionis, qua nullus contingit Transitus, exhibet.

Ad Praxim harum columnarum quod attinet, eadem est, quam locorum Solis determinandorum supra Problematicus V, VI, VIII, & aliis retuli.

## USUS PAGINÆ CUJUSVIS MENSIS QUINTÆ.

**P**agina cujusvis mensis *quinta* in 9. columnas partita habetur: quarum *prima* dies mensis, *secunda* longitudinem Lunæ veram, *tertia* Latitudinem, 4ta diametrum horizontalem, 5ta Parallaxin horizontalem exhibet pro hora duodecima noctis, seu sole hic Viennæ in depressione versante. Supputata sunt hæc eo consilio, ut pro dato quovis inter meridiem & mediam noctem intervallo longitudo, latitudo, diameter, & parallaxis Lunæ faciliiori & magis exacto calculo erui possint.

Columnæ 6, 7, 8, & 9na congressus arctiores Lunæ cum fixis & Planetis sine respectu Parallaxeos, aut Refractionis, secundum Longitudinem & Latitudinem supputatos exhibent; in his ii duntaxat congressus referuntur, in quibus distantia centri Lunæ vera gradum unum haud multum excedit, reliqui remotiores inter Phænomena Lunæ pagina sequente recensentur.





USUS PAGINÆ CUJUSVIS MENSIS  
SEXTÆ.

**P**rima columna complectitur dies mensis, secunda Phænomena, & observationes Lunæ exhibet; referuntur in hac Lunæ Phases præcipuæ, Eclipses, Apogæa, & Perigæa Lunæ, quibus temporibus (notis methodis) diametri diligenter mensurandæ, & in parallaxes horizontales inquirendum. Adnotantur quoque in hac columna tempora, quibus Luna ad suos nodos pervenit, congressus item Lunæ cum fixis & Planetis, remotiores quidem, quam illi sint, qui præcedente pagina referuntur, attamen intra limites graduum aliquot, aut conjunctiones hujusmodi arctiores, quæ in aliis duntaxat horizontibus visibiles sunt. Oppositiones item Lunæ cum Planetis, & cetera, quæ opportune adferenda censebam.

Columna altera paginæ sextæ Phænomena Planetarum continet, in qua quam plurima referuntur, quæ ad observationes Planetarum accurate instituendas requiruntur, congressus maxime Planetarum vel inter se vel cum aliis, eorundem digressiones, & elongationes, loca nodorum, Perihelia, & Aphelia, & reliqua ad horum Theoriam necessaria. Paralleli item fixarum, in quibus signata die versantur Planetæ, quæ observationes, quia (notis methodis) etiam cum Planetis extra circulum Meridianum versantibus institui possint, plurimum perficiendæ Planetarum Theoriæ utiles sunt.

USUS PAGINÆ CUJUSVIS MENSIS  
SEPTIMÆ.

**H**æc pagina in 7. divisa columnas in fenos quosvis dies reliquorum quinque Planetarum *h. j. s. ♃ & ♄* ortus apparentes, tempora vera Culminationum in Meridiano Viennensis Observatorii, eorundem Longitudines, latitudines & Declinationes veras Sole culminante, item occasus apparentes exhibet.

bet; usus harum columnarum idem est, quem supra de Declinatione Solis, & Lunæ, & in aliis Problematibus declaravimus; id solum notandum, quod cum in hac pagina non in dies singulos, sed in senos, aut septenos exhibentur Planetarum loca, si pro intermediis temporibus locus alicujus planetæ quærat, pro primo termino analogiæ sexies, aut septies 24. horæ ponendæ veniant.

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USUS PAGINÆ CUJUSVIS MENSIS  
OCTAVÆ.

**I**n hac Columna pro tempore civili Eclipses omnes quatuor Satellitum Jovis immersiones nempe vel emersiones exhibentur. De his notandum venit; cum calculus harum eclipsium centra Satellitum respiciat, tempora Immersionum calculata præcedunt plerumque tempus observatum, & contra in Emerfionibus tempus observatum præcedit plerumque tempora calculata, ita quidem ut in Satellite Imo dimidium minuti primi, in IIdo unius, in IIItio duorum, in quarto etiam trium vel quatuor minutorum primorum differentia plerumque habeatur, maxime si tubo præstante observationes instituantur.

Asterismus (\*) admonet Immerfionem aut Emerfionem aut etiam conjunctionem IV. Satellitis in horizonte Vienneſi viſum iri. Littera M vocem *mane*, V *Vespere* indicat.

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USUS PAGINÆ CUJUSVIS MENSIS  
NONÆ.

*De apparente ſitu Satellitum Jovis.*

**P**agina cujusvis mensis nona exhibet Situm IV. Satellitum Jovis apparentem, & quidem tubo Astronomi-

20, hoc est situ inverso, tempore civili vero, pro horum titulo cujusvis mensis adnotata. De hac pagina sequentia monenda veniunt. Imo circellum intermedium representare discum Jovis, puncta circa discum hinc inde signata adjectis numeris indicare Satellites, & quidem eosdem, quos sociati numeri denotant; si numerus inter punctum, & discum Jovis reperiatur, indicat Satellitem ad discum Jovis accedentem, secus si punctum inter numerum, & discum Jovis situm sit, recedentem a Jove Satellitem significat. Ido Sciendum, quod si Satelles pro tempore situs exhibiti versetur in umbra Jovis, aut post eundem discum, hunc ex ordine exemptum, atque ad marginem positum, majore nigro puncto designatum esse, & quidem adjecto numero, prout is aut accedens, aut recedens a Jove reperitur. Si vero Satelles versetur citra discum Jovis, id est in parte orbitæ suæ inter Jovem & terram positæ, is item ad marginem positus per zerum designatur. Sub hoc habetur situs apparens Satellitum Jovis pro tempore Immerisionis, aut Emerisionis cujusdam Satellitis videndæ in nostro horizonte. Hunc situm eorum Observatorum gratia inferui, qui theoriam Satellitum ignorantibus nesciunt, quam in parte, aut in quam a Jove distantia Satelles, aut etiam quinam e duobus Jovis vicinis eclipsim patiatur.

Menses omnes terminat pagina 105. Phases veneris primo cujusvis mensis die situ recto exhibens, de hac, uti, & sequente Tabula systematis solaris, cum omnia clara existimem, quæ moneam, haud invenio.

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## EXPLICATIO ET USUS CATALOGI STELLARUM FIXARUM.

**P**ræmitto Tabulis Astronomicis duplicem Catalogum 483 fixarum, utrumque ex Observationibus celeberrimi Bradleji (cujus laus & nomen semper inter Astronomos vigebit) unde & merito Bradlejanum dicimus. Ca-

talogus, qui ordine secundus, ad initium nempe Anni 1760 propositus, is ipse est, quem ex Observationibus Bradlejanis operoso calculo eruit Celeb. D. Mason & in nauticis ephemeridibus ad Annum 1773 Celeb. D. Maskelyne publici juris fecit. De hoc Catalogo sequentia monuisse juverit.

*Primo:* Puncta præcipua, a quibus omnium reliquarum Stellarum ascensionum rectæ deductæ sunt, esse Ascensiones Stellarum quindecim, Observationibus 1175 cum sole circa æquinoctia methodo Flamsteediana comparatas: *Aldebaran* videlicet 21., Observationibus *Capellæ* 56, *Rigel* 88, *α Orionis* 129, *Syræ* 136, *Castoris* 19, *Procyonis* 119, *Pollucis* 34, *Reguli* 63, *Spicæ Virginis* 74, *Arcturi* 70, *Antares*, 36, *α Lyræ* 129, *α Aquilæ* 154, *α Cygni* 47.

*Secundo:* Extremas observationum circa Ascensionem rectam differentias tam parum inter se discrepare, ut plerumque intra aliquot secunda consistant, vix unquam viginti attingant.

*Tertio:* Observationes, quibus Declinationes determinatæ sunt, plures pro quavis Stella institutas esse, tam egregio cum consensu, ut ejusdem Stellæ observationes, raro tribus secundis, nunquam vero, nec in minimæ quidem altitudinis sideribus, 5. inter se dissentiant, Barometro & Thermometro, pro refractionis variatione, in subsidium adhibito.

*Quarto:* Variationes annuas in Ascensionem rectam & declinationem a D. Mason calculis determinatas esse, quibus pro Astronomorum commodo, variationes 10 annorum adjectæ sunt, e prioribus rite deductæ.

*Quinto:* Catalogum, prout Londini vulgatus est, non ipsas fixarum Declinationes, sed distantias a polo boreo continere, id est in Stellis borealibus complementa declinationum, in australibus vero declinationes 90 gradibus auctas. Pro his a polo distantibus, ipse declinationes referuntur; cum ut major consensus cum Catalogo de la Caillii, aliisque sit, tum quod in comparatione planetarum cum Stellis fixis id commodius esse videatur.



*Sexto*: comparasse nos omnes, quas potuimus Stellas cum Catalogis de la Caillii; harum differentiarum tam quoad Ascensionem rectam, quam quoad declinationem duabus distinctis columnis referuntur. Differentiarum hoc signo (\*) notarum ex illo Catalogo elicitarum sunt, quem ex observationibus de la Caillii, Dominus Bailly ad Annum 1765 construxit, relique vero ex Catalogo, quem Ephemeridibus nostris hucusque inseruimus: tecimus id hoc precipue fine, ut egregio suo consensu, quem plerumque obtinuimus, ambo se Catalogi comprobent, & certiores reddantur observatores. Quibus in differentiis de grandiori typothetæ errore monendos censemus Lectores, quæ enim de  $\gamma$  Leporis sic expressa est differentia declinationis: 1. 3. 7. omisso intermedio puncto 13, 7, ponenda erat. Stella, ubi nullæ habentur differentiarum, in de la Caillii Catalogis non occurrit.

*Septimo*: ut facilius aberrationes actuales Stellarum ex iis, quas subnectimus, Tabulis eliciantur, eruisse nos accurato calculo pro quavis Stella aberrationem maximam in Ascensionem & declinationem, quæ distinctis duabus columnis referuntur.

*Octavo*: longitudes & latitudes, quæ ultimis duabus columnis in quavis pagina referuntur, easdem omnino esse, quas D. Mason ex ascensionibus & Declinationibus elicit.

*Nono*: Quemadmodum, (ut in differentiarum columnis patet) complures fixas observavit Bradlejus, quæ in Catalogis de la Caillii non occurrunt, ita vicissim complures referuntur in Catalogo de la Caillii, quo hucusque usi sumus, quæ in Bradlejano non habentur. Excerptissimus Astronomorum commodo ipsas has Stellas e Catalogo de la Caillii, quas pro Supplemento subnexuimus, ad A. 1750, prout ipso in Catalogo referebantur.

Atque hæc quidem de 2do fixarum Catalogo. Primus ex ipso hoc 2do, & huius Supplemento sic constructus est, ut Stellæ Ascensionum suarum ordine occurrant, & numeri in prima cujusque pagine columna positi Stel-

las Bradlejanas, earumque ordinem notent, virgulæ vero Stellas de la Caillii: quarum videlicet 387. Bradleji, 96 vero de la Caillii sunt. Ascensiones rectas, earumque variationes in tempus primi mobilis convertimus, & utrasque, uti & Declinationes ad principium Anni currentis reduximus.

Usus primi Catalogi ex iis patet, quæ pag. 207. dicta sunt, secundi vero inferius exponetur, ubi de fixarum aberrationibus agemus. Id solum monuisse volui, si accurata variationum annuarum ratio habenda, pro dato tempore in eam ope proportionis inquirendum esse, cujus terminus primus sint 365. dies, secundus data variatio annua, tertius sit numerus dierum a prima Januarii ad datum diem elapsus, quem indicat columna prima paginæ cujusvis mensis primæ; quæ proportio licet magno labore non constet, ut tamen astronomorum commodo consultatur, constructa est Tab. II, ubi in denos quosque anni dies ipsa pars proportionalis continetur quæ e prius memorata proportione eruenda est. Perfacile erit inter denos quosque dies diei datæ competentem elicere, cum differentiæ perexiguæ sint.

Tabula I. Catalogum fixarum sequens, Accelerationem diurnam fixarum præ motu Solis medio, id est, præ tempore medio horologiorum, exacte correctorum continet; hæc usus habet varios, inter quos præ ipius est, examen pendulorum horologiorum, num recte constituta sint; ut nunc declaraturus sum.

### *Usus Tabulæ I.*

**T**abula I. in binas divisa est partes. Pars prima Accelerationem continet fixarum præ motu medio Solis, seu ad horologium secundum tempus medium regulatum.  
 „ Dico autem accelerationem fixarum hanc esse, tempus  
 „ medium, quod intercedit ab una culminatione fixæ ad  
 „ alteram, aut ad quocunque alias, seu quod idem est.

„ ab uno appulſu fixæ ad horarium quemvis uſque ad  
 „ alterum appulſum ad eundem horarium in tempore me-  
 „ dio computata. „ Hinc acceleratio hæc fixarum con-  
 fundi non debet cum altera illa, quæ eſt differentia in-  
 ter Culminationem fixæ & Culminationem Solis medio  
 motu incedentis, quam exhibet pars altera Tabulæ  
 ſub titulo, *Retardationes Culminationum Solis motu medio in-  
 cedentis in tempore fixarum computata.* Hæc enim pars al-  
 tera huius tabulæ continet Accelerationem fixarum pro  
 tempore Culminationis Solis medii, & quidem in tempore  
 fixarum, ſeu indicat, quanto arcu fixa diſtet a Sole me-  
 dio pro tempore culminantis Solis medii in tempore ho-  
 rologii ad motum diurnum fixarum regulati; e contra  
 pars ima Tabulæ oſtendit arcum inter fixam, & Solem  
 medium interceptum pro tempore Culminationis fixæ, &  
 quidem in tempore horologii ad motum diurnum Solis  
 medii regulati. Uſus autem partis utriusque huius Ta-  
 bulæ ſequens eſt:

### *Uſus Partis primæ Tabulæ I.*

*Examinare horologium pendulum ope tranſitus fixarum per  
 horarium, aut per Culminationes, num illud motu medio in-  
 cedat, an jecus ?*

**H**æc methodus innititur pluribus Observationibus, (ſeu  
 I hæc ſint continuæ, ſeu interruptæ) appulſum fixæ  
 alicujus ad eundem circulum horarium, ſeu ad idem  
 punctum fixum. Quapropter ad hoc examen inſtituendum  
 fatiſ erit, ſi in muro quocunq; ſolido, & immobili affi-  
 gatur ſolide tubus lamineus vitris opticis inſtructus, in  
 cujus primæ lentis foco fila habeantur ad angulum rectum  
 ſe interſecantia, longitudo tubi ſufficiens erit, ſi ſit unius  
 pedis, quamvis ſuadendum, ut ſi majoris longitudinis  
 & augmenti haberi poſſit, iſ præcipue eligendus ſit, ut  
 habeatur celeritas major motus fixæ per campum tu-  
 bi atque per ſilum verticale, ſuadendum præterea, ut  
 eligantur fixæ, quæ circa æquatorem ſitæ ſunt, ob ean-  
 dem cauſam celeritatis motus, qua obſenta appulſus ac-  
 curatiores obtineantur, ut exercitatis Aſtronomis conſtat.



Hujusmodi tubo ad stellam aliquam insignem prope Aequatorem sitam directo, & firmato observentur ad horologium momenta, dum fixa ad filum verticale medium appellit, per dies aliquot, sive continuos sive interruptos, tum conferantur differentiae appulsuum hujus fixæ, cum differentiis Culminationum in Parte una Tabulæ Imæ propositis, & illico patebit, num horologium motu medio incedat, an secus? Si enim differentiae observatæ, cum differentiis Tabulæ congruant exacte, horologium etiam exacte ad motum medium regulatum est, si vero differentiae observatæ majores sint, quam Tabulæ I. horologium accelerat, si contra differentiae observatæ minores sint, quam Tabulæ Imæ, horologium retardat & quidem ea quantitate, quæ est proportionalis Revolutionibus fixarum in Tabula signatis. Quod si vero horologium jam retardet, jam acceleret, horologium ad Observaciones Astronomicas haud aptum censendum est, si scilicet irregularis hic motus alia ex causa oriatur, quam a differentia caloris & frigoris.

### *Ujus Partis secundæ Tabulæ I.*

Ad usum hujus partis secundæ supponitur, haberi bina horologia, unum quod ad motum medium Solis, alterum ad motum diurnum fixarum, seu Revolutiones fixarum regulatum sit; dicitur autem horologium ad motum fixarum regulatum, cujus indices accurate indicant horam 24tam (& quidem constanter) ab una Revolutione fixæ ad alteram ejusdem fixæ.

Ad hujusmodi horologium ad tempus fixarum regulatum facile est examinare horologium ad tempus medium incedens etiam sine ulla Observatione, seu fixarum, seu Solis. Nam si pro tempore, quo horologium medio tempore incedens signat horam 24. attendatur, quisnam numerus horarum, minutorum primorum, & secundorum ab horologio fixarum indicetur, & eadem operatio die sequenti, aut pluribus aliis repetatur, & si reperitur differentias esse easdem, quas indicat pars secunda Tabulæ I. dubium esse nequit, horologium motu medio incedens recte esse regulatum, contra vero si differentie discrepent.



A. 1782. die 1. Januarii dum horologium medio tempore incedens signabat horam 24. 0'. 0". horologium fixarum signabat horam 8. 45'. 20". die 21. Januarii dum horologium medium signabat 24. 0'. 0". horologium fixarum signabat 6. h. 47'. 3".; est autem differentia inter 8. 45. 20'. & 6. 47'. 3" = 1. h. 58'. 17", quæ differentia cum sit eadem, cum differentia partis secundæ Tabulæ I. pro diebus 30. intercedentibus inter 1. Jan. & 31. Jan. horologium medio motu incedens, recte constitutum intelligitur. Atque hinc patet usus maximus, & commodissimus partis hujus secundæ, si bina habeantur horologia, unum ad tempus fixarum, alterum ad tempus medium regulatum; hac enim ratione, si indices horologii secundum tempus medium incedentis, regulati semel erant, ut in meridie exacte tempus medium indicaverint, semper indagari poterit, etiam tempore nubilo, dum nec cum Sole nec cum fixis Observationes institui possunt, an horologium tempore medio incedat, nec ne; præterea Observationes ad hoc horologium factæ optime sine aliis Observationibus Solis, vel fixarum reduci poterunt ad tempus verum, ut facile patet. Methodus hæc perquam utilis erat, iis Observatoribus, qui ob transitum veneris per discum Solis A. 1769. in partibus Borealibus Lapponiæ observandum, hyemem in suis stationibus exigere debebant, quo tempore per unum, alterumve mensem Sol nunquam oritur atque continuo infra horizontem versatur, in hujusmodi locis aliud medium non habetur, quam per fixas regulare horologium motu medio incedens, quorum Observatorum gratia etiam hæc Tabula adjecta fuit.

*Usus Tabulæ III. & sequentium ad Tab. XIV. inclusivæ.*

[In Ephemeridibus meis annuis ab anno 1759. ad Annum 1763. insertas proposui Tabulas XIX. Aberrationum & Nutationum seu Deviationum in Ascensionem rectam, & Declinationem stellarum fixarum excerptas e *Fundamentis Astronomiæ Viri Cel. de la Caille.* Harum Ta-

bularum usu implicatiore, calculorumque multiplicitate factum arbitror, ut complures Astronomi & ab earundem usu abstinerint, & nonnulli etiam (qui usum harum non satis assequerantur) erroneas prodixerint supputationes; huic tanto incommodo, atque errandi periculo, ut subvenirem, de methodo cogitare cœpi, qua & numerosas has Tabulas ad exiguum numerum contraherem, sicque calculorum laborem quam brevissimum facerem, & eliminatis obscurioribus operationibus claras, certasque substituerem, quibus errandi periculo obviam irem. Quapropter pro Tabulis novendecim *de la Caille*, octo duntaxat propono, quarum ternæ, scilicet Tabula III. IV. & VIII. sunt *D. de la Caille*, ternæ aliæ VI. VII. & IX. *Cel. Euleri*; binæ denique V. & X. a *Cel. D. de la Lande* post Tabulas Planetarum *Halleji* editæ. Compendium itaque calculorum assecutus sum per constructionem duarum columnarum in hoc fixarum Catalogo insertarum, in quibus præter Ascensionem rectas & Declinationes fixarum ad 1760. pro fixis quadringentis octoginta tribus propositas, supputatæ habentur quam scrupulosissime *Variationes* pro annis decem in Ascensionem rectam, & Declinationem, maximæ item Aberrationes tam in Ascensionem rectam, quam in Declinationem.

Quoniam itaque Aberrationes maximæ in Ascensionem rectam, & Declinationem spatio ducentorum annorum vix unius, alteriusve decimæ variationem subeunt, facile assequi licet, has semel supputatas, manere invariatas pro integro sæculo, quas alias continua supputatione toties, quoties reductio fixarum instituitur, e Tabulis *De la Caille* colligere cogeremur; liquet itaque ex ipso hoc Catalogo compendium non leve calculorum fieri, quemadmodum ex Paradigmatibus infra ponendis multo amplius patebit. Si *Cel. Eulerus* ternas suas Tabulas in hypothesi motus elliptici, loco circularis, supputasset, aut si cuidam has reducendi nunc quidem animus foret, compendium binarum adhuc Tabularum V. & X. fieri posset, quæ ea solum causa præferuntur, ut Nutationes in hypothesi circulari supputatæ harum ope reducantur ad hypothesim ellipticam; sicque pro novendecim *de la Caille* sex duntaxat Tabulis calculus omnis absolveretur.

Compendium autem maximum horum calculorum habetur: si pro singulis fixis singularis supputetur Tabula, cujus ope, levissimo brevissimoque calculo reductiones perficiuntur; hujusmodi Tabulas habemus a *Cel. D. de la Lande* in suis celebratissimis Ephemeridibus *Connoissance de mouvemens célestes* ab Anno 1760. ad 1766. successive editas pro fixis insignioribus centum quinquaginta sex. Tabula quævis paginæ integram occupat; pro 156. fixis igitur, paginæ quoque 156. numerantur, atque pro fixis insignioribus mille, Tabulæ quoque mille bina haud parva volumina, singula quingentas paginas habentia postularent, sumptuosa equidem, sed facilitatis, & brevitatis calculorum causâ quam maxime expendenda.

Ante, quam praxis harum Tabularum proponatur, monenda mihi quæpiam sunt: & quidem *primo*: tam in Catalogo fixarum quam in illius supplemento loca fixarum ibidem relata appellari *vera*, quæ aliqui Astronomi dicunt *media*, ipseque olim in Catalogo fixarum Ephemeridum mearum Anni 1757. & 1758. hac voce *media* utebar, exemplum scilicet fecutus *Cel. Euleri*, qui in suis reductionum Tabulis, quas dictis annis in Ephemerides meas inferui, hac voce *media* utebar. At dum Anno 1759. pro Tabulis *Euleri*, Tabulas *De la Caille* surrogaveram, in quibus loca hæc fixarum appellantur *vera*, vocem quoque *vera* pro *media*, utum fecutus *De la Caille*, substitui; sunt itaque quidam, qui loca hæc, prout in Catalogo fixarum habentur, appellant *media*, alii autem *vera*, & quidem utrique haud male, modo mentem suam explicent; ii scilicet Astronomi loca fixarum in Catalogum relata appellant *media*, contra autem *vera*, quæ per Aberrationem & Nutationem actualem affecta sunt, qui duntaxat præcessionem æquinoctiorum mediam respiciunt, persimili fere significatione, uti dicimus, motum Solis *medium* aut *verum*. Alii contra, qui loca fixarum in Catalogum relata appellant *vera*, ea autem, quæ Aberratione & Nutatione actuali affecta sunt, dicunt *apparentia*, respiciunt, non æquinoctiorum præcessionem mediam, sed ipsas Aberrationes & Nutationes, quæ æqualem alias suppositam præcessionem, variabilem



efficiunt, per simili fere significatione, qua in calculis Planetarum loca *vera* appellare solemus illa, quæ e Tabulis directe deducimus, *apparentia* contra prout hæc per Observationes, affectas Aberratione & Nutatione, parallaxi, & refractione obtinemus, hoc est, sicut loca Planetarum per Observationem immediate obtenta, & Aberratione, Nutatione, Parallaxi, Refractione affecta, appellamus *apparentia*, contra autem *vera*, his affectionibus repurgata: ita loca fixarum Aberratione & Nutatione actuali affecta appellant *apparentia*, ab his autem repurgata, dicunt *vera*.

Ne itaque litem de nomine moveamus, esse suadendum esset, ut eadem omnes vocis significatione uteremur, utatur quisque voce sibi arridente, qua lubet, modo sensum explicet, in quo vocem hujusmodi acceptam velit. Utor itaque voce *vera* in Catalogo hoc fixarum, prout hæc opponitur non voci *media*, sed voci *apparens*; hoc est, loca fixarum Aberrationibus, & Nutationibus *actualibus* affecta, seu illa, prout hæc per Observationes immediate *apparent*, aut obtinentur, appello *apparentia*, contra autem *vera*, prout ab *actualibus* Aberrationibus & Nutationibus repurgata: mihi itaque locus *fixæ verus* aut *medius* idem significat, non autem idem *verus* aut *apparens*, quod ad confusionem vitandam probe notandum velim.

Monendum mihi est *secundo*: ad Argumenta Tabularum formanda, cujusmodi sunt; locus nodi  $\text{♃}$  vel locus  $\text{☉}$ , sufficere, si ea supputentur calculo rudiore, scilicet in minutis primis, vel etiam ad semigradum circiter, hinc ex. gr. locus Solis verus pro Meridie supputatus & multo magis locus Nodi  $\text{♃}$  pro Meridie datus, ad usum horum calculorum est sufficientissimus etiam pro reducendis Observationibus fixarum horis duodecim post Meridiem factis; quapropter locus Solis, aut Nodi Lunæ, ex Ephemeride aliqua pro data die excerptus, per quam sufficientissimus erit ad calculos hos cum omni præcisione perficiendos; jam igitur ad ipsam Tabularum praxim; prout illæ in priorum annorum Ephemeridibus proponebantur, & cum his facile conciliari possunt; soli enim paginarum numeri mutati sunt & pro Tabula II. 2dus fixarum Catalogus ad eundem est. Sit itaque



## P R O B L E M A.

*Invenire Aberrationem & Nutationem, seu deviationem actualem in Ascens. rect. fixæ cujuscumque; hoc est, Ascensionem rectam fixæ veram, convertere in apparentem pro data die & Anno. Ex. gr. lucidæ Lyræ, pro Anno 1755. die 15. Augusti. Vide Paralig-na inferius.*

I. E Catalogo fixarum reducto ad principium Anni 1750. excerptantur: Ascensio recta *Lyræ* =  $9^{\circ}. 7'. 7''. 4''.$  2. Variatio 10. annorum  $5'. 3''.$  2. ejus Aberratio maxima in Ascensionem rectam =  $25''.$  6.

II. Ascensio recta *Lyræ* Anni 1750. reducatu op e variationis 10. annorum  $5'. 3''.$  2. ad datum Annum 1755. & diem 15. Aug. hoc est, quæratu pars proportionalis pro annis 5. & diebus 226. ab initio Jan. ad diem 15. Aug. elapsis, & reperietur pro annis 5. variatio =  $2'. 31''.$  6. & pro 226. diebus =  $18''.$  7. quæ addita (semper enim sunt additiva exceptis paucis) ad Ascensionem rectam *Lyræ* Anni 1750. dabunt veram pro anno 1755. & die 15. Aug. =  $9^{\circ}. 7^{\circ}. 9'. 54''.$  5. scilicet:

Ascensio recta vera <i>Lyræ</i> Anno 1750. ....	9 7 7 4 2
Variatio pro annis 5. ....	+ 2 31 6
Variatio pro 226. diebus a 1. Jan. ad 15. Aug. ....	+ 18 7
Ascensio recta vera <i>Lyræ</i> 1755. die 15. Aug. 9, 7, 9, 54, 5	

III. Supputetur, aut ex Ephemeride excerptatur locus Solis verus pro die 15. Aug. 1755. =  $4^{\circ}. 22^{\circ}. 10'.$  item locus Nodi  $\text{)} = 5^{\circ}. 21^{\circ}. 43'.$  hic locus Nodi  $\text{)}$  corrigatur, ope Tab. V. pag. 156. e qua reperietur correctio +  $2^{\circ}. 6'.$  eritque locus Nodi  $\text{)}$  correctus =  $5^{\circ}. 23^{\circ}. 49'.$

IV. Pro inveniend o Argumento annuo Aberrationis in Ascensionem rectam e Tab. III. pag. 151. ope Ascensionis rectæ *Lyræ* Anni 1750. excerptatur æquatio Ascensionis rectæ *Lyræ* Anni 1750. addenda vel subtrahenda, prout Tabula monet, erit in nostro exemplo æquatio Tab. III. —  $0^{\circ}. 37'.$  atque æquata Ascensio recta *Lyræ* Anni 1750. =  $9^{\circ}. 6^{\circ}. 30'.$  a qua aufer locum Solis  $4^{\circ}. 22^{\circ}. 10'.$

erit Residuum  $4^{\circ}. 14^{\circ}. 20'$ . *Argumentum annuum Aberrationis in Ascensionem rectam pro usu Tabulæ VIII.*

V. Cum Argumento annuo Aberrationis  $4^{\circ}. 14^{\circ}. 20'$  & cum Aberratione maxima in Ascensionem rectam excerpta, ingredi Tabulam VIII. pag. 162. e qua reperies Aberrationem actualem in Ascens. rect.  $+ 17''$ . 9. quam subscribes Ascensioni rectæ *Lyræ* reductæ ad Annum 1755. diem 15. Aug. *Vide Paradigma.*

VI. Ad reperiendas Nutationes seu Deviationes actuales cum loco Nodi  $\text{D}$  supra invento  $5^{\circ}. 23^{\circ}. 49'$  ingredi Tab. VI. pag. 156. in qua reperies partem primam Nutationis  $- 2''$ . 3. cujus correctionem, si quam admittit, reperies in Tabula X. pag. 165 in nostro Exemplo est  $= 0$ . Hanc primam partem Nutationis cum suo signo subscribe item Ascensioni rectæ *Lyræ* reductæ ad Annum 1755. die 15. Augusti.

VII. Ab Ascensione recta *Lyræ* Anni 1750. subtrahere locum Nodi  $\text{D}$  correctum, erit Residuum  $3^{\circ}. 13^{\circ}. 8'$ . Argumentum Tab. VII. cum quo in *latere*, & cum Declinatione *Lyræ* in *fronte*  $38^{\circ}. 48'. 1''$ . Bor. ingrediendo Tab. VII. reperies secundam partem Nutationis  $+ 1''$ . 6. quæ item, si major foret, correctione opus haberet Tab. X. hanc cum suo signo item subscribes Ascensioni rectæ *Lyræ* reductæ ad Annum 1755. diem 15. Augusti.

VIII. Applicatis itaque Aberratione, itemque binis partibus Nutationis cum suis signis Ascensioni rectæ *Lyræ* reductæ ad An. 1755. diem 15. Augusti, obtinebis tandem Ascensionem rectam *Lyræ* apparentem, seu Aberratione & Nutatione actuali affectam  $9^{\circ}. 7^{\circ}. 10'. 11''$ . 7.

### E N P A R A D I G M A

Ascensio recta vera <i>Lyræ</i> 1755. die 15. Aug.	9 7	9 54 5
Aberratio Tabulæ VIII. ....		+ 17 9
Pars I. Nutationis Tab. VI. ....		- 2 3
Pars II. Nutationis Tab. VII. ....		+ 1 6
Ascens. rect. <i>Lyræ</i> appar. 1755. die 15. Aug.	9, 7, 10, 11, 7	

*Notandum I.* Consulto Exemplum Ascensionis rectæ *Lyræ* pro Anno 1755. die 15. Aug. electum est, idem nempe, quod elegit *D. de la Caille* in suis *Fundamentis Astronomiæ* pag. 22. & sequentibus, quodque proposuerat in suis *Ephemerid. P. Hell* ab Anno 1759. ad 1763., quo scilicet appareret consensus ejus calculi, cum calculis *D. de la Caille*, produxit quidem *de la Caille* Ascensionem *Lyræ* apparentem  $9^{\circ}. 7'. 10''. 15''$ . 0. majorem videlicet  $3''$ . sed animadvertendum, quod idem *Cl. Author* in *Paradigma* calculi sui Ascensionem rectam *Lyræ* Anni 1750. sumpsit  $9^{\circ}. 7'. 7''. 7''$ . 0. majorem scilicet  $2''$ . 8. quam ea sit, quam refert in *Catalogo* suo pag. 226., quæ est  $9^{\circ}. 7'. 7''. 4''$ . 4. quapropter si hæc  $2''$ . 8. subtrahantur ab ejus Ascensione recta apparente, reperietur =  $9^{\circ}. 7'. 10''. 12''$ . 2. consentiens supra inventæ  $9^{\circ}. 7'. 10''. 11''$ . 7.

*Notandum II.* Si easdem supputationes faciamus e *Tabula* singulari *D. de la Lande* relata in *Connoissance de mouvements celestes* Anni 1760. pag. 103., reperiemus Aberrationem Ascensionis rectæ *Lyræ* +  $17''$ . 8. & Nutationem —  $3''$ . 8., atque adeo Ascensionem rectam *Lyræ* apparentem pro hoc tempore  $9^{\circ}. 7'. 10''. 8''$ . 5., minorem  $3''$ . 2.

*Notandum III.* Si Ascensio recta *apparens* pro annis antecedentibus Annum 1750. quærenda sit, tum manentibus calculis sola pars proportionalis variationis 10. annorum titulo contrario applicanda erit.

*Notandum IV.* Quando Ascensio recta fixæ *apparens*, seu observata reducenda est ad *veram*, tum manentibus omnibus præceptis supra relatis, figura solum inventæ Ascensionis & Nutationis in contraria mutanda sunt; ut si data fuisset Ascensio recta *Lyræ* *apparens*, seu observata Anno 1755. die 15. Aug.  $9^{\circ}. 7'. 10''. 11''$ . 7., haberetur Aberratio —  $17'$ . 9. pars I. Nutationis +  $2''$ . 3. pars II. Nutationis —  $1''$ . 6., atque adeo Ascensio recta *Lyræ* *vera* =  $9^{\circ}. 7'. 54''$ . 5. ut supra.



## P R O B L E M A.

*Invenire Aberrationem & Nutationem, seu Deviationem  
actualem fixæ in Declinationem pro dato anno & die, ex  
gr. lucidæ Lyræ pro Anno 1755. die 15. Aug.*

**S**int supposita calculata per prius Problema inventa  
sequentia :

Locus  $\odot$  in Ecliptica 1755. die 15. Aug.  $4^{\circ} 22' 10''$   
Locus Nodi  $\text{J}$  correctus eodem die.....  $4.23.49$

Ascensio recta Lyræ minus longitudine correcta  
Nodi  $\text{J}$ , seu Arg. Tab. IX.....  $3. 13. 18.$   
Ascensio recta Lyræ Anni 1750.....  $9. 7. 7.4.2.$   
Declinatio Lyræ Anni 1750.....  $38.34.1.4. B$   
Variatio 10 annorum in Declin... ..  $+24.8.$   
Aberratio maxima in Declin.  $17.7.$

I. Ope variationis 10. an. in Declinationem reducat  
Declinatio Lyræ ex Anno 1750. ad Annum 1755. diem  
15 Aug. ut supra de Ascensione recta dictum, ea erit  
 $= 38^{\circ} 34' 15'' . 3. \text{ Bor.}$

II. E Tab. IV. ope Ascensionis rectæ Lyræ An. 1750. in  
*latere*, & Declinatione in *fronte*, quærantur signa, gra-  
dus & minuta pro formando Argumento annuo Aber-  
rationis in Declinationem, quæ reperientur  $= 0^{\circ} 5' 0''$ .  
quibus, quia fixa est borealis (juxta monitum sub Ta-  
bula positum) addenda sunt 12. signa, seu  $0^{\circ}$ . & a qui-  
bus (hic 12. signis auctis,) subtrahatur locus Solis  $4^{\circ} 22'$ .  
 $10''$ . Residuum  $7^{\circ} 12' 50''$ . erit Argumentum annuum  
Aberrationis Lyræ in Declinationem, cum quo, & cum  
Aberratione maxima in Declinationem  $17'' . 7.$  ingredien-  
do Tabulam VIII. pag. 162. reperietur Aberratio *actualis* in  
Declinationem  $+ 12'' . 9.$  quam subscribes Declinationi  
Lyræ reductæ ad An. 1755. diem 15. Aug.

III. Ope Argumenti Tab. IX.  $3^{\circ} 13' 18''$ . ingredi  
Tab. IX. pag. 164. pro fixis borealibus propositam; e  
qua reperies Nutationem actualem  $+ 8'' . 8.$  quæ e Tab.



X. nullam sui admittit correctionem; hanc item subscribes Declinationi Lyræ reductæ ad An. 1755. diem 15. Aug. quibus rite applicatis, obtinebis Declinationem Lyræ *apparentem* pro An. 1755. die 15. Aug.  $38^{\circ} 34' 36''$ . 9. Bor. En

### P A R A D I G M A.

Declinatio Lyræ vera in principio An. 1750.  $38^{\circ} 34' 1''$ . 4. B.  
Variatio 5. annor. .... + 12.4.  
pro 226. diebus a 1. Jan. ad 15. Aug. .... + 1.5.

Declinatio Lyræ vera 1755. die 15. Aug.  $38^{\circ} 34' 15.3$ . B.  
Aberratio actualis Tab. VIII. pag. 162. .... + 12.9.  
Nutatio e Tab. IX. pag. 164. .... + 8.8.

Declinatio Lyræ *apparens* 1755. die 15. Aug.  $38^{\circ} 34' 37.0$ . B.

*Notandum I.* Si hæc Declinatio *apparens* supputetur e Tabula *D. de la Lande*, *Connoissance de mouvemens célestes* An. 1760. pag. 103. reperitur Aberratio +  $12''$ . 8., & Nutatio +  $8''$ . 6. atque adeo Declinatio *apparens* =  $38^{\circ} 34' 36''$ . 7. Bor. In *Fundamentis Astronomiæ Cel. D. de la Caille* eadem habetur ex ejus supputationibus pag. 23. =  $38^{\circ} 34' 35''$ . 0. minor quam *D. de la Lande*  $1''$ . 7. & mea minor 2. secundis, sed & hic animadvertendum Declinationem Lyræ An. 1750. pro supputationibus *D. de la Caille* sumpsisse  $38^{\circ} 34' 0''$ . 0. minorem  $1''$ . 4. quam quæ refertur in ejus Catalogo pag. 235. atque adeo si hæc  $1''$ . 4. addantur ad *D. de la Caille* Declinationem *apparentem*, reperitur ea  $38^{\circ} 34' 36''$ . 4. fatis congruens *D. de la Lande* & meæ.

*Notandum II.* Si Declinatio *apparens*, seu observata reducenda sit ad veram, manentibus calculis omnibus, Aberrationes & Nutationes mutatis signis applicandæ sunt, ut de Ascensione recta dictum.

Exercitii causa juverit proponere Paradigma calculi Ascensionis rectæ, & Declinationis *apparentis* fixæ *Arcturi* pro An. 1765. die 21. Maji, qua die Sol in ejus parallelo versatur.

*Supposita calculi.*

	<sup>s</sup>	<sup>o</sup>	<sup>'</sup>	<sup>"</sup>
Asc. rect. vera <i>Arct.</i> 1750.....	7	1	3	59 0
Variatio 10. an. in Ascens. rect.....	+	7	3	1
Maxima Aberratio in Ascens. rect.....			20	0
Declinatio vera <i>Arcturi</i> 1750.....	20	29	39	3 <sup>B</sup>
Variatio 10. an. in Declin.....	--	2	51	8
Aberratio maxima in Declin.....			12	3
Locus ☉ in Meridie 21. Maji 1765.....	1	0	31	
Locus Nodi ☽ ascendens incorrectus.....	11	12	35	
Locus Nodi ☽ per Tab. V. correctus....	11	16	52	
Argumentum Tab. VII. & IX.....	7	14	12	
Arg. Tab. VIII. pro Aberrat. Ascens....	5	2	44	
Arg. Tab. VIII. pro Nutat. in Ascens....	9	0	32	

*Quare hoc modo absolvetur calculus in Ascensionem rectam.*

	<sup>s</sup>	<sup>o</sup>	<sup>'</sup>	<sup>"</sup>
Ascensio recta vera <i>Arcturi</i> 1750.....	7	1	3	59 0
Variatio pro 15. annis.....	+	10	34	7
Variatio pro 140. dieb. a 1. Jan. ad 21. Maji... +			16	7
Ascens. rect. vera <i>Arct.</i> An. 1765. 21. Maji.	7	1	14	50 4
Aberratio e Tab. VIII. ....	+		17	8
Nutationis pars I. e Tab. VI. ....	+		5	0
Nutationis pars II. e Tab. VII. ....	+		2	3
Ascens. rect. <i>apparens Arct.</i> 1765. die 21. Maji.	7	1	15	15 5

*Pro Declinatione.*

Declinatio vera <i>Arcturi</i> 1750.....	20°	29'	39" 3. B.
Variatio pro annis 15.....	—	4	17 7
Variatio pro 140. dieb. a 1. Jan. ad 21 Maji ....	—	6	6
Declinatio vera <i>Arcturi</i> 1765. die 21. Maji	20	25	15 0 B
Aberratio e Tab. VIII. ....	—	0	1
Nutatio e Tab. IX. cum correctione.....	—	6	2
Declinatio <i>apparens Arct.</i> 1765. die 21. Maji	20	25	8 7 B

*Notandum I.* Compendii causa adhiberi potest Ascensio recta vera & Declinatio e Catalogo meo fixarum ad principium Anni 1765. reducto, applicata solum variatione pro datis diebus a 1. Jan. ad datum diem elapsis. Ita Ascensio recta vera *Arcturi* habetur ex illius Catalogo pag. 115. =  $211^{\circ} 14' 33''. 7.$  & variatio annua respondens  $24''. 3.$  e qua pro diebus 140. elapsis habetur varitatio  $+ 16''. 7.$  atque adeo Ascensio recta vera pro die 21. Maji 1765.  $211^{\circ} 14' 50''. 4.$  seu  $7^s. 1. 14' 50''. 4.$  ut prius, cui supra inventa Aberratio & Nutatio applicari debet. Eodem modo Declinatio vera e Catalogo habetur pro 1765. =  $20^{\circ} 25' 21''. 5. B.$  & variatio annua  $- 17''. 2.,$  hinc pro diebus 140. =  $- 6''. 6.$  atque adeo Declinatio vera pro 21. Maji 1765. =  $20^{\circ} 25' 15''. 0. B.$  ut ante.

*Notandum II.* Calculis his Aberrationum & Nutationum opus habemus toties, quoties Observationes cum fixis peraguntur, ut dum ex fixis latitudinem loci, seu elevationem poli inquirimus, dum Solem, Lunam, ceterosque Planetas observando cum fixis comparamus &c. Quapropter usus horum calculorum & frequentissimus est, & Astronomorum neminem latere potest.

## P R O B L E M A.

*Longitudinem fixæ VERAM reducere ad APPARENTEM & vicissim. ex. gr. Arcturi ad diem 21. Maji 1765.*

Quamquam his reductionum calculis perraro utamur, eo quod per Observationes immediate solum Ascensiones rectæ, & Declinationes obtineantur, horum tamen calculorum notitiam non penitus inutilem arbitror, quæ saltem in prædicendis & prænoscentis phænomenis congressuum ) aut Planetarum cum fixis secundum longitudinem, & latitudinem apparentem usum suum habere possit. Ita que

I. Longitudo fixæ, seu *Arcturi* pro 1. Januarii 1765. e Catalogo fixarum excerpta =  $6^{\circ}. 26'. 57''$ .  $16''$ . reducatur ope præcessionis æquinoctiorum annuæ  $50''$ . ad diem 21. Maji; hoc est pro diebus 140. elapsis a 1. Jan. ad 21. Maji +  $19''$ . eritque longitudo *Arcturi* vera pro die 21. Maji 1765. =  $6^{\circ}. 26'. 57'. 35''$ .

II. A longitudine Solis diei 21. Maji =  $2^{\circ}. 0'. 31''$ . subtrahatur longitudo fixæ, *Arcturi*  $6^{\circ}. 26'. 58''$ . erit residuum  $7^{\circ}. 3'. 33''$ . Digressio *Arcturi* a Sole, seu Argumentum Tab. XI. pag. 166. cum quo, & cum latitudine *Arcturi*  $30^{\circ}. 54'. 31''$ . B. reperitur ex eadem Tabula Aberratio +  $19''$ .

III. Cum loco Nodi  $\})$  correcto  $11^{\circ}. 16'. 52''$ . e Tab. XIII. excerptatur pars I. Nutationis in longitudinem +  $4''$ . item cum longitudine Solis  $2^{\circ}. 0'. 31''$ . e Tab. XIV. habetur pars II. Nutationis —  $1''$ . quæ applicata longitudini veræ *Arcturi* ad diem 21. Maji efficiunt apparentem  $6^{\circ}. 26'. 57'. 57''$ .

Si longitudo *apparens* reducenda sit ad veram, Aberrationes & Nutationes titulis contrariis applicandæ sunt.

## P R O B L E M A.

*Latitudinem fixæ VERAM reducere ad APPARENTEM & vicissim. Ex. gr. Arcturi pro die 21. Maji 1765.*

Cum Digressione *Arcturi* a Sole supra inventa  $7^{\circ}. 3'. 33''$ . & cum latitudine  $30^{\circ}. 54'. 31''$ . B. e Tab. XII. pag. 172. excerptam Aberrationem +  $5''$ . 6. applica latitudini *Arcturi*, erit *apparens Arcturi* latitudo  $30^{\circ}. 54'. 36''$ . 6. B.

Latitudo per Nutationem non afficitur, hinc reductione non eget. Si *apparens* convertenda in veram, Aberratio titulo contrario applicanda est.



## USUS TABULÆ XV. & XVI.

**T**abula XV. exhibet refractionem Syderum Parisiis stante Barometro ad 28. pollices Paris. & Thermometro Reaumuriano ad gradum 10. supra terminum congelationis, atque hinc refractionis hæc appellatur *media*.

Tabula XVI. continet variationem refractionis pro vario Athmosphæræ statu, seu varia Barometri & Thermometri altitudine. Hæc numerum continet, per quem dividenda est refractionis media prioris Tabulæ XV. ut habeatur variatio pro actuali Athmosphæræ statu. In usu hujus Tabulæ XVI. vix ulla partium proportionalium habenda est ratio, quoniam ope Barometrorum vix constat de una linea altitudinis Mercurii, & in Thermometris de uno caloris, frigorisve gradu; Tabula hæc utraque Typis impressa habetur sub finem Tabularum solarium *D. de l'Abbe de la Caille* Anno 1768. in publicum datarum.

Tabula XVI. universalis, locis omnibus applicari potest; modo pro loco quovis determinato telluris, quantitas refractionis mediæ pro singulis supra horizontem altitudinibus ea die, quo Barometrum indicat 28. pollices Paris. & Thermometrum Reaum. gradum 10. supra congelationem, sub altitudine apparente syderis 28. gr. 30'.

Exempli causa: Quæritur Parisiis quantitas refractionis syderis stante Barometro ad 28. poll. 4. lin. & Thermometro Reaumuriano indicante gradum 14. supra congelationem, sub altitudine apparente syderis 28. gr. 30'.

Refractionis media Tab. XV. 2'. 1". 5. dividenda per 38. quotus 3". 2. ipsi addendus, ut fiat refractionis actualis 2'. 4". 7.

## USUS TABULÆ XVII.

**E**xhibet hæc refractionem actualem Parisiis, & ad *Caput bonæ spei* usurpandam, quam methodo & singulari, &

plane operosa (quemadmodum legere est in *Fundamentis Astronomiæ*) ex Observationibus correspondentibus juxta formulam *D. Clairaut*, supputavit idem *D. l'Abbé de la Caille*; usum ejus quod attinet, sola inspectione Tabulæ innotescit.

### USUS TABULÆ XVIII.

**C**omplectitur hæc Tabula parallaxes Solis ad ternos altitudinis  $\odot$  gradus supra horizontem, quæ ad *apparentem* altitudinem addenda est, si quærat *vera*, subtrahenda contra, si ex *vera* quærat *apparens*, est hæc Tabula juxta Observationem Transitus  $\zeta$  per discum  $\odot$  die 3. Junii 1769. supputata.

### USUS TABULÆ XIX.

**H**æc (ut titulus Tabulæ notat) augmentum Diametri **I** horizontalis Lunæ in hypothese telluris sphericæ complectitur, quam commodioris usus causa in Tabulis lunaribus pag. 127. ampliorem reddidi.

Quæritur ex. gr. die 25. Jan. 1760. quo Luna est perigæa, diameter apparens Lunæ culminantis hora 6. m. 6. cujus altitudo apparens habetur ex Ephemeridibus 52. gr. 32'. supra horizontem Viennensem. Diameter horizontalis Lunæ pro meridie die 25. Jan. 32'. 24". differentia 1". decrescens, quare pro hora 6. m. 6. diei 25. Jan. habetur Diameter horizontalis Lunæ 32'. 23". cujus ope, & ope datæ altitudinis Tabula XIX. reperitur argumentum 27'. 1. seu 27". quare Diameter apparens Luna sub altitudine 52. gr. 32'. erit 32'. 50". ut habent Ephemerides.

## USUS TABULÆ XX.

Ufus hic est, ut data parallaxi *horizontali* Lunæ, quam in his Ephemeridibus ad singulos dies exhibeo, inveniatur *parallaxis altitudinis apparentis* Lunæ supra horizontem in hypoth. sphærica. Usus ejus vide in appendice ad Ephem. Anni 1764. seu in Tabulis lunar. a me editis.

Parallaxis altitudinis apparentis Lunæ in hypoth. sphærica ope Trigonometriæ hac analogia reperitur: *Ut sinus totus, ad sinum complementi altitudinis apparentis; ita parallaxis horizontalis (pro dato tempore altitudinis) ad parallaxim altitudinis apparentis.* Hac methodo constructa habetur Tabula XX. parallaxeos Lunæ altitudinis.

Quod si desideretur parallaxis altitudinis veræ, necesse est, veram altitudinem prius reducere ad apparentem hac analogia: *Ut sinus totus ad sinum complementi altitudinis veræ lute, ita parallaxis horizontalis ad certam quamdam parallaxim.*

Dein fiat sequens analogia:

*Ut sinus totus, ad sinum complementi altitudinis veræ correctæ per parallaxim paulo ante inventam, ita parallaxis horizontalis ad parallaxim veram quæsitam.*

## USUS TABULARUM XXI, XXII, XXIII, & XXIV.

Ufus harum Tabularum hic habetur. Ope Tabulæ XXI. convertitur tempus primi mobilis in partes circuli æquatoris; intelligitur autem per tempus primi mobilis revolutio integra æquatoris, seu graduum 360., quod tempus cum Revoluzione alicujus fixæ ad eundem meridianum, congruit, ita, ut si 360. gradus, seu tota Revolutio, dividantur per 24. horas, uni horæ respondeant gradus 15., & ita porro. Usus hujus Tabulæ amplius est, dum nempe (ex dato tempore) quærantur gradus circuli æquatoris.

Tabula XXII. priori respondet, ope cujus dati gradus æquatoris convertuntur in tempus primi mobilis, ita, ut quindecim gradus dent unam horam, est hujus usus amplissimus, dum partes æquatoris in tempus convertendi sunt.

Tabula XXIII. exhibet conversionem graduum æquatoris in tempus medium, de quo principio hujus introductionis actum: quare, cum integræ Revolutioni æquatoris, seu 360. gradibus nonnisi 23. h. 56. m. & 4. s. respondeant temporis medii, gradibus 15. æquatoris non hora, sed 59 min. & 50. s. respondent, & ita porro.

Tabula denique XXIV contra conversionem temporis medii in gradus æquatoris continet.

## USUS TABULARUM XXV. XXVI. & XXVII

Accuratam temporis meridiei correctionem, quod ex altitudinibus Solis correspondentibus elicitur, necessariam esse, theoria Solis edocet, cum enim Declinatio Solis singulis, ut ita dicam, momentis varietur vel in augmentum, vel in decrementum, intervallum temporis inter altitudinem Solis antemeridianam, & inter eandem tempore pomeridiano acceptam (extra Solstitia) bifariam divisum, & Observationis tempori antemeridiano additum, vel a pomeridiano subtractum, nequaquam dabit tempus meridiei veri, seu centri Solis culminantis. Aequatione itaque opus habent tempora hujusmodi, pendente a varia Solis declinatione, & elevatione poli.

Astronomi, qui hucusque correctionem hanc Tabulis complectebantur, falso supposito laborabant, quod existimaverint, correctionem æquatoriam nullam esse. Ego certe paucos ante annos tempora meridiei elicitam e meis correspondentibus Solis, & ope Tabulæ *Marinoniana* coæquata, cum temporibus ex accurata linea mea meridiana repertis comparans, animadvertēbam omnino Sole versante circa signorum  $\Pi$ ,  $\eta$ ,  $\zeta$  &  $\chi$  initia, secundorum



aliquot discrepantiam, quas differentias correctionum Tabulis attribuendam esse, me subinde per litteras certum reddidit *Cel. olim correspondens meus D. L'Abbé de la Caille*, dum transmissis mihi suis hisce Tabulis manuscriptis demonstravit, admittendas esse Tabulæ XXV. correctionem æquatoriam ubique terrarum adhibendam.

Tabula XXVI. ad latitudinem loci 45. graduum] ab eodem *Cel. D. de la Caille* supputata est.

Ope hujus Tab. XXVI. & prioris XXV. pro latitudine quavis loci facile supputatur Tabula correctionis horæ meridiei prodeuntis ex altitudinibus Solis correspondentibus; si enim ad Logarithmos correctionum Tabulæ XXVI. addantur Logarithmi tangenti datæ latitudinis loci, erunt summæ Logarithmorum, Logarithmi correctionum quæsitaram; quod ipsum per Tab. XXVII. præstitum est, e qua ipsas has correctiones excerpere licet, quæ tamen correctiones per Tabulam XXV. adhuc cœquandæ erunt.

## USUS TABULÆ XXVIII.

Continet hæc Tabula, ut titulus notat, correctiones horæ meridianæ e correspondentibus  $\odot$  altitudinibus prodeuntis, ad elevationem poli Viennensis 48. gr. 12'. 32". methodo ante dicta, supputata, & per Tabulam XXV. cœquata; in ejus usu longitudinem Solis ad semigradum novisse sufficit.

## E X E M P L U M.

Supponuntur altitudines correspondentes Solis die 7 Aprilis 1758. Viennæ in Observatorio Cæsareo - Regio acceptæ. Sol hac die versatur in signo  $\vee$  17. gr. 33. m. Sit itaque observata.

	H. M. S.	Interv. temporis
Altit. limbi ☉ super 45 gr. mane	8. 46. 24.	H. M. S.
Altit. limbi ☉ super 45 gr. a mer.	3. 15. 46.	- - 6. 29. 22
Tempus observat. mane	- 8. 46. 24.	Dimidium 3. 14. 41
Dimidium intervallum	+ 3. 14. 41.	quæ est distantia horaria Solis a meridiano.
Meridies incorrectus	- - 12. 1. 5.	
Correctio Tab. XXVIII. pro longitudine Solis & pro distantia horaria - - 16. 64.		
juxta hor. mer. verus corr. 12. 0. 48. 36.		
Certitudinis causa 8, 10, vel 12. correspondentes altitudines Solis determinantur.		

## T A B U L A S

*Amplitudinum ortivarum ☉ & occiduarum, item ortus ☉ & occasus apparentis ☉ earum usum  
vide in Ephem. ab An. 1757. ad An. 1763.*

### USUS TABULÆ XXIX.

**T**abula hæc, amplissimi usus, complectitur præcipuorum locorum telluris differentias meridianorum tam in partibus circuli maximi, quam in tempore inter meridianum Observatorii Cæsareo-Regii Vindobonensis, item latitudines seu elevationes poli, cuivis loco respondentes; Asterismus (\*) designat differentiam meridianorum, & elevationem poli e pluribus, & certis Astronomorum Observationibus correspondentibus determinatam, hoc vero signum (+) indicat haberi tantum ex Observationibus dubiis, aut minus certis. Si nullum adsit signum noscitur hujusmodi differentiam, aut latitudinem loci nullis adhuc Observationibus astronomicis supputatam sed æstimatione duntaxat, aut e Catalogis Geographorum determinatam.

## P R O B L E M A.

*Data hora quacunque Viennæ, invenire in dato loco quovis  
(qui in Tab. XXIX. habetur) horam respondentem  
horæ Viennensi.*

**E**xcerptatur e columna 2da dati loci differentia meridianorum in tempore, & si datus locus sit ad occidentem, quod indicant lit. *occ.* subtrahatur hæc differentia a data hora Viennensi, si vero sit ad orientem, addatur, summa vel differentia dabit horam quæsitam pro dato loco.

## E X E M P L U M.

Quæritur dum Viennæ est hora 9. mane, quænam sit hora Parisiis? cum Parisii occidentem versus differant a meridiano Viennensi in tempore juxta hanc Tabulam 56. m. 10. s. hæc subtracta ab hora nona relinquit, residua 8. h. 3. m. 50. s. quæ est hora matutina Parisiis, dum Viennæ est hora 9na mane.

Quod si differentia meridianorum sit orientalis, hæc ad datam horam Viennensem addita, dabit horam pro loco dato quæsitam.

## E X E M P L U M.

Initium Eclipsis ☽ partial. 1757. die civili 4ta Febr. contigit Viennæ hora 6. m. 45. s. 28. mane, quæritur, qua hora contigit initium hujus Eclipsis Petropoli in Moscovia. E Tabula XXIX. differentia meridianorum est 55. m. 50. s. orient. hæc minuta addita ad tempus Viennense, dant tempus civile Petropoli 7. h. 41 m. 18. s. pro initio Eclipsæos.

## P R O B L E M A.

*Data hora quavis loci alicujus, invenire, quæ sit hora  
Viennæ respondens.*

**R**esolutio est eadem, quæ antecedentis Problem. sed mutatis titulis, id est, si loci dati differentia meridianorum sit orientalis; hæc differentia *subtrahenda* a tempore loci dati exhibet horam, seu tempus Viennense; & contra, si differentia meridianorum loci dati sit occidentalis, *addita* ad tempus loci dati, exhibet horam & tempus Viennense respondens. Ope hujus, & antecedentis Problematis usus harum Ephemeridum redditur universalis, adeo, ut his Ephemeridibus perinde, ut Viennæ, in omnibus totius orbis locis uti liceat ad Observationes instituendas. Nam ex gr. locus Solis in Ecliptica, dum Parisiis Sol culminat, (ob differentiam meridianam occidentalem 56. m. 10. s. in tempore) revera idem est, qui Viennæ hora 12. m. 56. s. 10. cum hora 12ma Parisina respondeat horæ Viennensi 12. m. 56. s. 10. Hinc ad usum tum harum Ephemeridum, tum Problematum supra adductorum, pro loco quocunque, primum in horam Viennensem, horæ loci dati respondentem, inquirendum ope hujus Problematis, qua reperiata, si pro hora Viennensi inventa, (eadem methodo Problematum) inquiretur in loca & motum Astrorum; erunt ea ipsa loca, is ipse motus quæsitus, qui pro tempore loci dati terrestris cujuscunque desideratur.

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## USUS TABULÆ XXX.

*De Harmonia Thermometrorum.*

**P**agina 202 harum Ephemeridum Tabula proponitur harmonica, seu comparativa Thermometrorum



usu receptorum, scilicet *D. D. Reaumur*, *De l'Isle*, *Fahrenheit* & *de la Hire*; comparantur autem tres reliquæ scalæ cum scala *Reaumuriana* in prima columna proposita, quæ pro tempore primo seu initio divisionis habet 0 seu punctum initii congelationis, & pro altero termino punctum ebullitionis aquæ fontanæ stante Barometro sub altitudine 28. digit. Rhenlandicorum, seu  $27\frac{1}{2}$ . Parisiens. ubi ponitur numerus 80., nempe intervallum ab initio congelationis ad punctum ebullientis aquæ dividitur in partes 80. æquales, & per ejusmodi partes æquales continuatur scala tam infra punctum 0. quam supra numerum 80. Habentur etiam Thermometra *Reaumuriana*, quarum intervallum a puncto congelationis ad punctum ebullientis aquæ divisum est in partes 90. æquales, sed hæc scala minus usitata habetur.

Scala *D. de l'Isle*, aliam obtinet divisionem; pro puncto scilicet ebullientis aquæ ponitur zerus seu 0, atque intervallum a puncto ebullientis aquæ ad punctum congelationis dividitur in partes 150., vel ut habet Tab. XXX. pagina 202, in partes 153., & ex hujusmodi partibus sursum, deorsumque continuatis tota scala definitur.

Scala *D. Fahrenheit*, pro numero puncti ebullientis aquæ habet 212. & pro puncto congelationis numerum 32. hinc spatium inter hæc bina puncta in partes æquales 180. divisum est, quapropter gradus *Reaumuriani* 80. æquantur 150. *De L'Isliani*, & iidem 80. æquantur 180. gradibus *Fahrenheitianis*. Hinc vero habentur sequentes Rationes, scilicet scala *Reaumurii* ad *De L'Isle* ut 80. ad 150. vel 153. seu 8. ad 15. ejusdem *Reaumurii* ad *Fahrenheit* ut 80. ad 180. seu 4. ad 9. facilis itaque foret harum scalarum reductio, si initia divisionis horum Thermometrorum ab eodem puncto communi inchoarentur, sed ut vidimus, ubi *D. Reaumur* habet 0, ibi *De L'Isle*, ponit 150. vel 153. & contra ubi *De L'Isle* ponit 0, ibidem *Reaumur* habet numerum 80. Item puncto *Reaumuriano* = 0 respondet gradus *Fahrenheitianus* 32. atque ex hac causa reductiones difficiliore redduntur. Hinc si quis sive Tabulam universalem harmonicam reductionis construere, sive dato gradu quovis ex his Thermometris no-

scire velit alterius Thermometri gradum, sequentibus uti poterit formulis simplicibus.

*Reductio graduum Thermometri Reaumuriani ad gradus Thermometri D. de l'Isle.*

Cum Ratio Thermometri *Reaumuriani* ad *de l'Isle*, sit ut 80. ad 150. vel 153. sed progressu divisionis contrario.

Si ponatur..... 80 = a

153 vel 150 = b

Datus gradus *Reaumurianus* = c

Quæsitus *de l'Islianus*..... = x

Erit

Dato grad. *Reaumurii* a 0. ad 80. sursum versus =  $b - \frac{bc}{a} = x$ .

Et dato gradu supra 80. sursum versus... =  $\frac{bc}{a} - b = x$

Et dato gradu infra 0. deorsum versus... =  $\frac{bc}{a} + b = x$

*Reductio Thermometri D. de l'Isle ad Reaumurianum.*

Si ut antc..... 80 = a

153 vel 150 = b

Gradus Thermom. *de l'Islianus* = c

Quæsitus *Reaumurianus*..... = x

Erit dato gradu a 150 vel a 153 ad 0.....  $\frac{b - c \times a}{b} = x$

Et dato gradu supra 0.....  $\frac{b + c \times a}{b} = x$

Et dato gradu descendendo infra 150.....  $\frac{c - b \times a}{b} = x$

*Reductio Thermom. Reaumurii ad Fahrenheitii.*

Ratio *Reaumuriani* ad *Fahrenheitii* est ut 4. ad 9. & puncto *Reaumurii* = 0 respondet *Fahrenheitii* numerus 32. igitur

Si sit..... 4 = a

9 = b

32 = d

Datus *Reaumurii* gradus... = c

Quæsitus *Fahrenheitii* ..... = x

Erit dato grad. *Reaumurii* a 0 ad 80 sursum vers.  $= \frac{bc + d - x}{a}$

Et dato gradu infra 0. . . . .  $= d - \frac{bc}{a} = x$

*Reductio Fahrenheitii ad Reaumurianum.*

Si ut ante. . . . .  $4 = a$

$9 = b$

$32 = d$

Datus Fahrenheitii. . . . .  $= c$

Quæsitus Reaumurianus. . . . .  $= x$

Erit a gradu *Fahrenheitii* 32 sursum vers.  $= \frac{c - d \times a}{b} = x$

Et a gradu 32. deorsum versus. . . . .  $\frac{d - c \times a}{b} = x$

Scala Thermometri *D. de la Hire*, & singularis est, & nunc jam usu fere abolita; cæterum quia ad hoc Thermometrum complures habentur Observationes factæ Parisiis in Observatorio Regio, hanc quoque in Tab. XXX. Pag. 202 relatam videre est, ejusque ad Reaumurii reductionem novisse juverit; sciendum itaque singularis huius scalæ initium divisionis, seu zerum respondere puncto frigoris Reaumuriano 18 infra 0, quod faciendi forsitan occasionem præbuit *D. de la Hire* ingens gradus frigoris Anno 1709. Parisiis observatus, cui in scala Reaumurii respondet fere gradus 16. infra 0, hoc sumpto initio divisionis, gradus *De la Hiriani* ita continuantur sursum versus, ut finiantur in gradu 83. 3. respondente in scala Reaumurii 30 supra 0, & 0 Reaumurii respondeat gradus *De la Hiriani* 31. 3. Hinc ratio scalæ Reaumurianæ ad *De la Hire* habetur, ut 30 ad 52. seu 15 ad 26. Inde porro eruitur gradui ebullientis aquæ Reaumurii 80. 0. respondere *De la Hire* gradum 170. 0,

Reductio autem graduum Reaumurii ad *De la Hire*, & vicissim, iisdem formulis obtinetur, quibus supra usi sumus in reductione Reaumuriani ad Fahrenheitianum, si scilicet ponatur  $a = 15. 0.$  item  $b = 26. 0.$  &  $d = 31. 3.$

Reductio cæterorum Thermometrorum, quæ licet diversas habeant scalas, initium tamen harum harum scalarum idem habent, quod *D. Reaumur*, reductionum formulis non eget, cum simplice regula aurea absolvatur; sic quia *Celsius*, & *Christinus*, initium divisionis sumunt a puncto congelationis *Reaumuriano* = 0, & usque ad punctum ebullitionis aquæ partes habent 100, erit ratio constans *Reaumuriani* ad *Celsii* & *Christini* ut 80. ad 100. seu 8. ad 10. aut 4. ad 5 & vicissim. Scala *D. Martini* & de *Bergen* a puncto congelationis 0. usque ad ebullientem aquam numerat 180. ergo ratio constans *Reaumurii* ad *D. D. Martini*, & de *Bergen* est, ut 80. ad 180. seu 4. ad 9. & vicissim. Eodem modo *D. Hoffmann* a 0. ad punctum ebullientis aquæ habet partes 150; ergo ratio constans *D. Reaumurii* ad *D. Hoffmann* est, ut 80. ad 150. seu 8. ad 15. & vicissim.

Harum formularum ope facile construitur Tabula universalis harmonica Thermometrorum omnium, cujusmodi pars aliqua exhibetur in Tabula XXX. Pag. 202. quæ e Tabulis *D. de la Lande* desumpta est.

### USUS TABULÆ XXXI.

Tabula hæc est supputata juxta mentem *D. de la Caille* & aliorum, supponendo scilicet bina. Prima suppositio est, quod mutata Barometri altitudine eadem ratione mutetur quoque refraction, ita quidem, ut si Mercurius in Barometro uno pollice infra 23. pollices Parisinos descendat, refraction quoque minuatur  $\frac{1}{17}$ , augeatur contra  $\frac{1}{17}$  si altitudo Mercurii uno pollice supra 28. ascendat. Secunda suppositio est: quod mutato Thermometro *Reaumuriano* 10. partibus, refraction quoque mutetur  $\frac{1}{17}$ , media autem refraction ponitur stante Thermometro 10. gradus supra 0. uti etiam media refraction supponitur stante Barometro ad 28. pollices Parisinos. Hæc quidem ita se habent ex mente *Cel. D. de la Caille* & aliorum quorundam, qui legem hanc cum lege ex Observationibus desumpta correspondere existimarunt; ego vero spectatis rationibus



Physicis causæ refractionis, censeo quidem juxta variationes altitudinum barometricarum omnino variari etiam refractiones, non item juxta Thermometri variationes, aut certe non nisi in rarissimis casibus Thermometri variationes indicare posse variationes refractionum, quam materiam alias fortassis ampliore dissertatione persequar. Interea horum gratia, quibus leges has refractionum per ipsasmet Observationes Astron. periclitari placet, Tabulam hanc XXXI, quæ e binis constructa est, hic insertam volui; est autem constructa ad partes pedis Viennensis nobis usitati, qui se habet ad pedem Parisinum ut 35. ad 36. hinc habitis rationibus cujuscunque pedis ad pedem Viennensem usus hujus Tabulæ universalis reddi poterit, ut infra dicam. Usus autem hujus Tabulæ sequens est:

Dum syderis cujuscumque altitudo apparet ope instrumenti Astronomici capitur, simul una videndum est, quamnam altitudinem id temporis habeat Barometrum in partibus pedis Viennensis, itemque quemnam gradum indicet Thermometrum Reaumurianum in umbra positum. Ex. gr. Sit altitudo apparet syderis ope quadrantis capta  $30^{\circ}$ . supra horizontem, sit altitudo Barometri in partibus pedis Viennensis 28. dig. 2. gradus Thermometri Reaumuriani sit 15. quæritur refractionis vera syderis.

- I. Ope altitudinis apparentis  $30^{\circ}$ . inquire in Tabula XV. pag. 175 Refractionem mediam, quam reperies  $1^{\circ} 54''$ . 4. æqualem 1144. decimis.
- II. Ope altitudinis Barometri 28. dig. 2. in fronte sinistra Tabulæ XXXI. exquire divisorem refractionis huic altitudini respondentem, quem reperies — 42.
- III. Per hunc divisorem — 42. divide refractionem mediam in decimas reductam nempe 1144., & habebis quotum — 27, quem mediæ refractioni 1144. applicabis *addendo* vel *subtrahendo*, prout divisoris signum fuerit + vel —, in nostro exemplo est —; igitur  $1144. - 27. = 1117.$  erit refractionis primo correctæ.
- IV. In parte dextra Tabulæ XXXI. ope altitudinis Thermometri 15. gradus, quære novum divisorem refractionis, quem invenies — 54.

V. Per hunc divisorem divide Refractionem primo correctam 1117, & repertum quotum 20. *Adde vel subtrahere* a refractione primo correctâ, prout divisor fuerit + vel —, in nostro exemplo evadit quotus —; ergo 1117. — 20. = 1097, seu 1'. 49". 7. quæ vera supponitur refractione respondens altitudini 30. graduum, itemque altitudini Barometri 28. dig. 2. Vien. & altitudini Thermometri Reaumuriani 15. graduum.

Idem producitur e Tabula XVI. D. de la Caille, quæ habetur in his Ephemeridibus pag. 175, modo prius altitudo Barometri 28. dig. 2. Vien. reducatur ad partes pedis Parisini in ratione inversa 35: 36., hoc est, si fiat, ut 36: 35. ita 28. dig. 2. ad 27. dig. 4. Paris. Si jam cum 27. dig. 4. ingrediamur Tabulam XVI. pag. 175. sub altitudine Thermometri 15., reperiemus divisorem — 24, per quem divisa media refractione 1'. 54". 4. = 1144. producitur quotus — 47., qui subtractus a 1144. dat refractionem correctam 1097. seu 1'. 49. 7., ut supra reperta est. Verum quia Tabula hæc XVI. D. de la Caille non habetur extensa ad minores altitudines Barometri, ea de causa Tabula hæc & amplior effecta est, & ad usus pedis Viennensis reducta.

Juverit hic jam Tabulæ hujus XXXI. usum indicare universalem; scilicet evenire potest, ut Observator Astronomus utatur Barometro juxta alium quemvis pedem usitatum, puta Parisinum, Londinensem Rhenanum &c. constructo. 2do. Thermometro quoque utatur alio quovis ex gr. D. Fahrenheitii, De la Hire. aut D. de L'Isle, quorum Harmoniam in Tabula XXX. pag. 202. exhibeo. & ampliorem usum pag. 253. explico. Igitur ad usum universalem Tabulæ XXXI. necesse erit I. altitudinem datam Barometri in partibus pedis cujusvis reducere ad partes pedis Viennensis juxta Tabellam infra positam.

2do. Altitudo quoque Thermometri alterius cujusvis reducenda erit ad altitudinem Thermometri Reaumuriani, quibus reductis problema hoc solvitur eodem modo: ut exemplum supra datum resolutum est. Sic

Ex. gr. Sit 'altitudo syderis apparens  $30^{\circ}$ , sit altitudo Barometri in partibus pedis Parisini 27. dig. 4. sit altitudo Thermometri Fahrenheit. 66. erit igitur altitudo Barometri in partibus pedis Viennensis 28. dig. 2. gradus Thermometri Reaumuriani 15; adeoque refractio vera  $1'.49''$ . 7. ut supra.

Ad usum hujus Reductionis pedum diversorum ad partes pedis Viennensis sequentem propono Tabellam, in qua habetur Ratio pedum usitatorum in partibus pedis Parisini, qui supponitur divisus in partes 1440.

Pes Regius Parisinus	1440	Pes Hallensis.....	1320
Amstelodamensis..	1253	Lipfensis.....	1397
Argentoratensis..	1282 $\frac{1}{2}$	Londinensis.. ..	1350
Augustæ Vindel..	1313	Lugdunensis Bat.	1390
Bavaricus.....	1280	Norimbergensis..	1346 $\frac{1}{2}$
Bononiensis.....	1982 $\frac{2}{3}$	Pragensis.....	1338
Coloniensis.....	1220	Rhenlandicus ..	1391 $\frac{5}{7}$
Constantinopolit..	3140	Suecicus.....	1320
Cracoviensis.....	1580	Venetus.....	1540
Danicus.....	1503 $\frac{2}{7}$	Vindobonensis..	1400
Dantiscanus.....	1721 $\frac{1}{2}$	Ulissiponensis...	1387

## EXPLICATIO TYPILUNARIS.

**T**ypus Lunæ his insertus Ephemeridibus librationes omnes exprimit. Ad commodum hujus typi usum maculas numeris & literis insignivi, quibus respondent nomina tum a P. RICCILO S. J. Tum ab Hevelio imposita, & hodiernis Astronomis usitata utraque; his quædam a me, asterismo notata, adjecta sunt; En horum Elenchum.

Nomina Macularum insignium Lunæ Plenæ  
 secundum Selenographiam P. RICCIOLI S. J. &  
 HEVELII, eo ordine disposita, quo in Eclipsibus cen-  
 tralibus in umbram terræ immergi videntur.

## SECUNDUM P. RICCIOLUM.

- 1 Ricciolus, S. J.
- 2 Grimaldus, S. J.
- 3 Hevelius.
- 4 Cavalerius
- 5 Sirsialis, S. J.
- 6 Crugerus.
- 7 Eichstadius.
- 8 Cardanus.
- 9 Galilæus.
- 10 Halleyius. \*
- 11 Linemanus.
- 12 Schmelzerus, S. J. \*
- 13 Reinerus.
- 14 Marius.
- 15 Zupus, S. J.
- 16 Vieta.
- 17 Flamsteedius.\*
- 18 Fontana.
- 19 Keplerus.
- 20 Aristarchus.
- 21 Derienes, S. J.
- 22 Gassendus.
- 23 Schikardus.
- 24 Morinus.
- 25 Volfius, S. J.
- 26 Lansbergius.
- 27 Reinholdus.
- 28 Phocilides.
- 29 Capuanus.
- 30 Molerius.
- 31 Cleostratus.
- 32 Copernicus.
- 33 Campanus.

## SECUNDUM HEVELIUM.

- 1 - - - - -
- 2 Palus Maræotis.
- 3 Stagnum Miris.
- 4 Mons Pherme.
- 5 Mons Climax.
- 6 Fontes amari.
- 7 Mons Acabe.
- 8 - - - - -
- 9 Mons Audus.
- 10 Mons Thambes.
- 11 Peninsula Mar. Syrtici.
- 12 - - - - -
- 13 - - - - -
- 14 Mons Germanicianus <
- 15 Mons Ajax.
- 16 Mons Casius prope  
 montem Pharan.) >
- 17 Mons Mampsarius.
- 18 Mons Sacer.
- 19 Loca paludosa.
- 20 Mons Porphyrites.
- 21 Insula Lea.
- 22 Mons Cataractes.
- 23 Mons Troicus.
- 24 Fretum Sirbonicum.
- 25 - - - - -
- 26 Insula Maltha.
- 27 Mons Neptunus.
- 28 Mons Tarnos.
- 29 Mons in Reg. Cassionis.
- 30 Insula Zachintus.
- 31 - - - - -
- 32 Mons Æthna.
- 33 Insula Lethoa.



## SECUNDUM P. RICCIOLUM.

- 34 Cichus.  
 35 Bullialdus.  
 36 Bayerus.  
 37 Rbeticus.  
 38 Scharpius.\*  
 39 Pitheas.  
 40 Roslius.\*  
 41 Harpalus.  
 42 Munosius.  
 43 Stadius.  
 44 Dominicus Maria.  
 45 Helicon Cyzicenus.  
 46 Pythagoras.  
 47 Scheinerus, S. J.  
 48 Guillelmus Landg. Hassia.  
 49 Pitatus.  
 50 Profatius.  
 51 Alpetragius.  
 52 Eratosthenes.  
 53 Timocharis.  
 54 Anaximander.  
 55 Bartholus, S. J.  
 56 Kircherus, S. J.  
 57 Longomontanus.  
 58 Tycho.  
 59 Blancanus, S. J.  
 60 Alphonsus Rex.  
 61 Wolffius.\*  
 62 Archimedes.  
 63 Clavius, S. J.  
 64 Regiomontanus.  
 65 Purbachius.  
 66 Arzachel.  
 67 Ptolomeus.  
 68 Plato.  
 69 Maginus.  
 70 Orontius.  
 71 Valtherus.  
 72 Vernerus.  
 73 Aliacensis.

## SECUNDUM HEVELIUM.

- 34 Insula Didymæ.  
 35 Insula Creta.  
 36 - - - - -  
 37 Pars Lacus Herculei.  
 38 Atlas minor. ◀  
 39 Insula Sardinia.  
 40 Insula Melos.  
 41 Insula sinus Hyperborei.  
 42 Insula Carpathes.  
 43 } Lacus Herculeus.  
 44 }  
 45 Insula Erroris.  
 46 - - - - -  
 47 Pars Vallis Hajalon.  
 48 Mons Hoveb.  
 49 Mare mortuum.  
 50 Insula Rhodus.  
 51 Promontorium Ænarium.  
 52 Insula Vulcania.  
 53 Insula Corsica.  
 54 - - - - -  
 55 - - - - -  
 56 Vallis Hajalon.  
 57 Mons Anna.  
 58 Mons Sinai.  
 59 Desertum Raphidim.  
 60 Mons Mascityus.  
 61 Mons Apenninus.  
 62 Mons Argentarius.  
 63 Desertum Evila.  
 64 } Mons Libanus.  
 65 }  
 66 Mons Gragus.  
 67 Mons Sipylus.  
 68 Lacus niger Major.  
 69 Mons Seir.  
 70 Mons Hermen.  
 71 Mons Thabor.  
 72 }  
 73 } Anti - Libanus.

## SECUNDUM P. RICCIOLUM.

- 74 *Albategnius.*  
 75 *Hyparchus.*  
 76 *Hyginus.*  
 77 *Autolicus.*  
 78 *Aristillus.*  
 79 *Aratus.*  
 80 *Timæus.*  
 81 *Anaxagoras.*  
 82 *Apianus.*  
 83 *Stofflerus.*  
 84 *Manilius.*  
 85 *Architas.*  
 86 *Julius Cæsar.*  
 87 *Sulpicius Gallus.*  
 88 *Calippus.*  
 89 *Aristoteles.*  
 90 *Meton.*  
 91 *Eusemon.*  
 92 *Eudoxus.*  
 93 *Menelaus.*  
 94 *Sofigenes.*  
 95 *Baroccius.*  
 96 *Maurolicus.*  
 97 *Rabbi Levi.*  
 98 *Riccus, S. J.*  
 99 *Tacquetus, S. J.\**  
 100 *Pitiscus.*  
 101 *S. Catharina.*  
 102 *S. Cyrillus.*  
 103 *S. Theophilus.*  
 104 *Plinius.*  
 105 *Schottus, S. J.\**  
 106 *Possidonius.*  
 107 *Vitruvius.*  
 108 *Promontorium acutum.*  
 109 *Exiguus.*  
 110 *S. Isidorus.*  
 111 *Fracastorius.*  
 112 *Regnaultius, S. J.\**

## SECUNDUM HEVELIUM.

- 74 *Mons Didymus.*  
 75 *Mons Olympus.*  
 76 - - - - -  
 77 *Mons Montuniates.*  
 78 *Mons Ligustinus.*  
 79 *Mons Apenninus.*  
 80 *Lacus niger minor.*  
 81 *Montes Hyperborei.*  
 82 *Pars Anti-Libani.*  
 83 *Mons Calchaстан* ◁  
 84 *Insula Besbycus.*  
 85 *Scopuli Hyperborei.*  
 86 *Palus Archerusia.*  
 87 - - - - -  
 88 *Mons Ænus.*  
 99 *Mons Serrorum.*  
 90 } *Montes Hyperborei.*  
 91 }  
 92 *Mons Carpathes.*  
 93 *Byzantium.*  
 94 *Palus Archerusia.*  
 95 }  
 96 } *Montes Uxii.*  
 97 }  
 98 }  
 99 *Insula Cyanca.*  
 100 *Mons Dalanguer.*  
 101 }  
 102 } *Mons Moschus.*  
 103 }  
 104 *Apollonia minor.*  
 105 *Promontorium Hippolai.*  
 106 *Insula Macra.*  
 107 *Apollonia major.*  
 10 *Promontorium Hereulis*  
 10 *Mons Herculis.*  
 11 *Mons Strobilus.*  
 111 *Lacus Thospitii.*  
 112 - - - - -

## SECUNDUM P. RICCIOLUM.

- 113 *Hercules.*  
 114 *Atlas.*  
 115 *Thales.*  
 116 *Endynion.*  
 117 *Goclenius.*  
 118 *Snellius.*  
 119 *Taruntius.*  
 120 *Proclus.*  
 121 *Promontorium Somni.*  
 122 *Mercurius.*  
 123 *Petavius. S. J.*  
 124 *Langrenus.*  
 125 *Firmicus.*  
 126 *Cleomedes.*  
 127 *Geminus.*  
 128 *Messabala.*  
 129 *Seneca.*  
 130 *Malebranchius. \**

## SECUNDUM HEVELIUM.

- 113 } *Mont. Marcocemni.*  
 114 }  
 115 *Lacus Hyperbor. super.*  
 116 *Lacus Hyperboreus inf*  
 117 *Mons Caucasus.*  
 118 *Mons Parapamisus.*  
 119 *Sinus Phasianus.*  
 120 *Mons Corax.*  
 121 *Montes Ælani. <*  
 122 *Montes Amadoci.*  
 123 *Petra Sogdiana.*  
 124 *Insula major.*  
 125 *Paludes amaræ.*  
 126 }  
 127 } *Montes Ripbæi.*  
 128 }  
 129 *Mons Mannus.*  
 130 - - - - -

MARIA, LACUS, PALUDES, STAGNA ET  
SINUS.

## SECUNDUM P. RICCIOLUM.

- A. A. *Mare Humorum.*  
 B. *Sinus Epidemiarum.*  
 C. C. C. *Mare Nubium.*  
 D. *Sinus Roris.*  
 E. *Palus Nimborum.*  
 F. F. F. *Sin. Æst. S. Medius.*  
 G. G. *Mare Imbrium.*  
 H. *Palus Putredinis.*  
 I. *Mare Vaporum.*  
 K. *Palus Nebularum.*  
 L. L. L. *Mare Frigoris.*  
 M. *Mare Serenitatis.*  
 N. N. *Mare Tranquillitatis.*  
 O. O. O. *Mare Nectaris.*

## SECUNDUM HEVELIUM.

- A. A. *Sinus Sirbonis & Mare Ægyptiacum.*  
 B. *Insula Didymæ.*  
 C. C. C. *Mare Pamphilium.*  
 D. *Sinus Hyperboreus.*  
 E. *Sinus Tarantinus.*  
 F. F. E. *Mare Adriaticum.*  
 G. G. *Mare Mediterraneum.*  
 H. *Promontor. Circeum.*  
 I. *Propontis.*  
 K. *Ital. & M. Apennini.*  
 L. L. L. *Mare Hyperboreum.*  
 M. } *Pontus Euxinus.*  
 N. N. }  
 O. O. O. *Sinus Athen. & Sin. extremus Ponti.*

## SECUNDUM P. RICCIOLUM.

- P. *Stagnum Glaciei.*  
 Q. *Lacus Mortis.*  
 R. *Lacus Somniorum.*  
 S. *Palus Somni.*  
 T. T. *Mare Fœcundatatis.*  
 V. *Mare Crisium & Caspium.*  
 X. *Sinus Iridum.*

## SECUNDUM HEVELIUM.

- P. *Lacus Hyperb. super.*  
 Q. *Montes Peuce.*  
 R. *Sinus Cercinities.*  
 S. *Lacus Corocondameticus.*  
 T. T. *Mare Caspium.*  
 V. *Palus Mæotis.*  
 X. *Sinus Apollinis.*

TERRÆ, INSULÆ, PENINSULÆ, ET  
LITTORA.

## SECUNDUM P. RICCIOLUM.

TERRA CALORIS a Grimaldo ad Longomontanum & Scheinerum.

- a. a. a. TERRA STERILITATIS.  
 b. b. b. LITTUS ECLIPTICUM.  
 c. c. PENINSULA FULMINUM.  
 d. d. d. INSULA VENTORUM.  
 e. e. PENINSULA DELIRIORUM.  
 f. f. f. TERRA PRUINÆ.  
 g. g. PENINSULA FULGURUM.

- h. h. h. TERRA NIVIVM.  
 i. i. i. TERRA GRANDINIS.  
 TERRA SICCITATIS a Pythagora ad Endymionem.

## SECUNDUM HEVELIUM.

ÆGYPTUS a Palude Mæotis ad montem Troicum. PALÆSTINA a M Troico ad desertum Evila & Montes Seir.

- a. a. a. LYBIÆ PARS, ET ARABIA.  
 b. b. b. PALUDES ORIENTALES.  
 c. c. MARE SYRTICUM.  
 d. d. d. INSULA CERCINNA.  
 e. e. - - - - -  
 f. f. f. MAURITANIA.  
 g. g. - - - - -  
 h. h. h. ROMANIA.  
 i. i. i. MOESIA.

} REGIO HYPERBOREA.



TERRA VITÆ a *littoribus maris serenitatis ad Senecam & Mercurium.*

TERRA MANNÆ *inter Mare Nestavis & Fœcunditatis.*

TERRA SANITATIS a *Mari Vaporum ad Valtherum, & Fracassorium.*

TERRA FERTILITATIS, *ducta linea recta a Fracassorio ad Valtherum & a Valthero per Clavium ad limbum Lunæ.*

TERRA VIGORIS, *ad Petavium, & Langrenum.*

CHERSONESUS TAURICA, & PALUDES HYPERBOREÆ.

COLCHIS.

ASIA MINOR.

PERSIA.

SCYTHIÆ PARS.

## USUS TYPI LUNÆ IN ECLIPSIBUS LUNARIBUS.

Ufus hic est; diligenter ab Observatore notentur tempora horologii, dum peripheria densæ umbræ terrestris limbos macularum insignium stringit, curandum maxime, ut ea tempora adnotentur, quibus umbra terræ una plures stringit maculas, aut alias stringendo, alias eodem tempore medias fecat; cum enim tempora initii, & finis eclipseos (ob difficultatem penumbram ab umbra discernendi) plerumque dubia sint, vices quam optime subeunt limbi macularum circa medium disci sitarum, quibus temporibus confinia penumbræ & umbræ facillime dignoscuntur. Adnotantur autem tempora tam Immersionum, quam Emerfionum harum macularum. Initium item, medium & finis majorum macularum, & quidem earundem Emerfiones, quarum Immersiones observatæ sunt; demum quo plurium macularum habentur Observationes, eo aptior erit Observatio ad eruendas locorum terrestrium longitudes geographicas, quarum invenientiarum methodus nova in Eph. 1764. proposita habetur.

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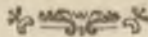
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I  
APPENDIX  
A D  
EPHEMERIDES  
ANNI 1785.

TABULÆ  
ABERRATIONUM ET NUTATIONUM  
PRO 500 FIXIS

P A R S II.  
CONTINENS TABULAS  
PRO 250 FIXIS

A B A D M O D U M  
*R. D. ANTONIO PILGRAM*  
PHILOSOPHIÆ DOCTORE  
SUPPUTATAE.



249. ♀ Ophiuchi 5.

1780

250. τ Scorpii 4.

Ascensio Recta 8° 4' 46" 55½  
 Variatio annua + 53. 08.  
 Declinatio 20° 58' 43" 80A.  
 Variatio annua + 8. 64.

Argument.  
 pro  
 Aberratione  
 Longitudo  
 Solis.

Ascensio Recta 8° 5' 33' 23"  
 Variatio annua + 55. 74.  
 Declinatio 27° 44' 30" 20A.  
 Variatio annua + 8. 41.

Aberra- tio in Ascensu. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascensu Rectam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus Ω ♁ Ascend.	Aberra- tio in Ascensu. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascensu. Rectam.	Nutatio in Declina- tion.
--	--	-------------------------------------	------------------------------------	---	--	--	--------------------------------------	------------------------------------

				S. G. S.											
+	-	+	-	+	+	-		+	-	-	+	-	+	+	-
8	6	1	6	1	5	8	1	0	0	VI	8	6	0	5	1
11	8	2	1	4	7	7	3	10	11	9	0	2	5	6	7
14	7	2	6	7	8	6	2	20	14	9	0	9	8	6	6
17	2	2	9	10	3	4	8	I 0 VII	17	5	1	6	11	4	4
10	0	3	3	12	7	3	5	10	19	5	2	2	13	6	3
20	4	3	6	14	1	2	0	20	21	1	2	8	15	2	2
21	1	3	6	14	8	0	5	II 0 VIII	22	0	3	2	16	0	0
21	1	3	6	14	7	0	8	10	22	0	3	6	15	8	0
20	6	3	6	14	4	2	0	20	21	6	3	9	15	5	1
19	4	3	3	13	8	2	9	III 0 IX	20	4	4	0	14	6	2
17	7	2	9	13	6	4	2	10	18	7	4	0	14	4	4
15	3	2	5	13	8	5	2	20	16	2	3	9	14	6	5
12	4	2	1	13	4	0	5	IV 0 X	13	3	3	7	13	3	6
9	3	1	4	12	2	7	4	10	10	1	3	4	12	7	7
5	8	0	7	10	3	8	1	20	6	4	3	0	10	7	8
2	2	0	3	7	8	8	7	V 0 XI	2	7	2	5	8	2	8
1	5	0	4	5	0	8	9	10	1	2	1	8	4	7	8
5	1	1	0	1	7	8	7	20	4	9	1	2	1	5	8
8	6	1	6	1	4	8	1	VI 0 0	8	6	0	5	1	9	8

Primum Signorum — + vel + — respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.



251. 24 Scorpii 5.

1780

252. A Ophiuch. dupl. 5.

Ascensio Recta 8° 7' 13" 5"  
 Variatio annua + 51. 91.  
 Declinatio\* 17° 17' 51" 00 A.  
 Variatio annua + 7. 83.  
 \* e Catalogo Majeri.

Argument.  
 pro  
 Aberratione  
 Longitudo  
 Solis.

Ascensio Recta 8° 15' 27" 58"  
 Variatio annua + 55. 70.  
 Declinatio 26° 15' 4" 80. B.  
 Variatio annua + 5. 14.

Aberratio in Ascens. Rectam.		Aberratio in Declination.		Nutatio in Ascens. Rectam.		Nutatio in Declination.		Argument. pro Nutatione Locus $\Omega$ $\text{D}$ Ascend.		Aberratio in Ascens. Rectam.		Aberratio in Declination.		Nutatio in Ascens. Rectam.		Nutatio in Declination.	
+ 7	- 4	+ 2	- 6	+ 1	- 2	+ 8	- 2	S. G. S.	+ 5	- 3	+ 0	- 5	+ 1	- 1	+ 8	- 7	
10	6	3	0	3	7	7	7	O O VI	9	0	0	1	4	7	8	1	
13	4	3	3	5	5	7	0	20	12	4	0	4	7	8	7	3	
16	0	3	5	8	0	6	1	I O VII	15	5	0	8	10	7	6	1	
17	9	3	6	9	9	4	8	10	18	0	1	3	13	0	4	8	
19	4	3	5	11	6	3	4	20	20	1	1	6	14	7	3	4	
20	4	3	4	12	8	2	0	II O VIII	21	4	1	9	15	5	2	0	
20	6	3	2	13	4	0	4	10	22	1	2	2	15	6	0	6	
20	3	2	8	13	7	1	3	20	22	1	2	5	15	3	0	6	
19	3	2	4	13	6	2	8	III O IX	21	6	2	6	14	5	1	9	
17	7	1	9	13	4	4	1	10	20	3	2	6	14	5	2	9	
15	5	1	4	12	7	5	4	20	18	4	2	6	14	7	4	1	
13	0	0	8	11	6	6	7	IV O X	16	0	2	5	14	5	5	5	
10	0	0	1	10	1	7	6	10	13	0	2	4	13	3	6	7	
6	7	0	5	7	0	8	3	20	9	7	2	1	11	2	7	6	
3	2	1	1	6	0	8	7	V O XI	6	0	1	8	8	7	8	4	
-	+	1	7	3	6	8	7	10	2	3	1	4	5	7	8	9	
0	4	1	7	3	6	8	7	10	-	+	1	4	5	7	8	9	
3	9	2	2	1	4	8	6	20	1	6	1	0	2	3	9	c	
7	4	2	6	1	2	8	2	VI O O	5	3	0	5	1	1	8	7	

Primum Signorum — + Vel + — respondet sex primis Signis Argumentorum: secundum Signum, sex posterioribus Signis eorundem Argumentorum.

253.  $\mu$  Draconis 4.

1780

254.  $\alpha$  Herculis 3.

Ascensio Recta  $8^{\circ} 15' 55'' 12'' \frac{1}{2}$   
 Variatio annua  $+ 18. 63.$   
 Declinatio  $54^{\circ} 45' 54'' 86 B.$   
 Variatio annua  $- 4. 91.$

Argument.  
 pro  
 Aberratione  
 Longitudo  
 Solis.

Ascensio Recta  $8^{\circ} 16' 9' 27''$   
 Variatio annua  $+ 41. 09.$   
 Declinatio  $14^{\circ} 39' 17'' 60 B.$   
 Variatio annua  $- 4. 87.$

Aberra-  
 tio in  
 Ascens.  
 Rectam.

Aberra-  
 tio in  
 Declina-  
 tion.

Nutatio  
 in  
 Ascens.  
 Rectam.

Nutatio  
 in  
 Declina-  
 tion.

Argument.  
 pro  
 Nutatione  
 Locis  $\odot$   
 $\odot$  Ascend.

Aberra-  
 tio in  
 Ascens.  
 Rectam.

Aberra-  
 tio in  
 Declina-  
 tion.

Nutatio  
 in  
 Ascens.  
 Rectam.

Nutatio  
 in  
 Declina-  
 tion.

								S. G. S.								
+	-	-	+	+	-	-	+		+	-	-	+	-	+	-	+
7	8	13	9	3	1	8	7	O o VI	4	6	12	4	0	6	8	7
13	5	18	c	2	5	8	2	10	8	2	12	0	1	7	8	2
18	8	16	4	1	9	7	5	20	11	2	11	3	3	9	7	5
23	6	14	5	1	0	6	3	I o VII	14	1	10	1	6	0	6	3
27	3	12	1	0	0	5	0	10	16	3	8	8	7	8	5	0
					+											
30	9	9	3	0	7	3	5	20	18	4	7	1	9	1	3	5
33	2	6	2	1	5	2	2	II o VIII	19	7	5	3	10	0	2	2
34	4	3	0	1	9	0	8	10	20	4	3	2	10	1	0	8
			+												+	
34	6	0	3	2	2	0	5	20	20	6	1	0	10	2	0	5
											+					
33	7	3	7	2	3	1	8	III o IX	20	1	1	0	9	5	1	8
31	9	5	9	2	7	2	9	10	19	0	3	2	9	9	2	9
29	0	9	9	3	5	4	0	20	17	3	5	3	10	2	4	0
25	3	12	6	3	9	5	4	IV o X	15	1	7	1	10	3	5	4
20	9	14	9	4	1	6	6	10	12	3	8	8	9	7	6	6
15	7	16	8	4	3	7	6	20	9	4	10	1	8	6	7	6
10	1	18	0	4	3	8	4	V o XI	6	c	11	3	7	0	8	4
4	2	19	0	4	0	8	7	10	2	4	12	0	5	0	8	7
	+															
1	8	19	2	3	6	9	0	20	1	1	12	4	2	9	9	0
													+			
7	8	18	9	3	1	8	7	VI o O	4	6	12	4	0	6	8	7

Primum Signorum  $- +$  vel  $+ -$  respondet sex primis Signis  
 Argumentorum; secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.



257. 43 Ophiuchi 5.

1780

258.  $\beta$  Ophiuchi 4.

Ascensio Recta  $8^{\circ} 17' 23'' 9''$   
 Variatio annua  $+ 56. 49.$   
 Declinatio  $27^{\circ} 54' 31'' 80 A.$   
 Variatio annua  $+ 4. 49.$

Argument.  
 pro  
 Aberratio-  
 ne  
 Longitudo  
 Solis.

Ascensio Recta  $8^{\circ} 18' 14'' 22''$   
 Variatio annua  $+ 54. 89.$   
 Declinatio  $23^{\circ} 57' 7'' 80 A.$   
 Variatio annua  $+ 4. 19.$

Aberra- tio in Ascens. Rectam.		Aberra- tio in Declina- tion.		Notatio in Ascens. Rectam.		Notatio in Declina- tion.		Argument. pro Nutatione Locus $\Omega$ $\text{\textcircled{D}}$ Ascend.	Aberra- tio in Ascens. Rectam.		Aberra- tio in Declina- tion.		Notatio in Ascens. Rectam.		Notatio in Declina- tion.	
+	-	-	+	-	+	+	-	S. G. S.	+	-	+	-	-	+	+	-
4	7	1	4	1	0	8	8	0 0 VI	4	6	0	0	0	8	8	8
8	3	0	8	4	5	8	3	10	8	1	0	4	4	2	8	2
11	8	0	5	7	8	7	5	20	11	4	0	7	7	3	7	5
		+	-													
15	1	0	1	10	7	6	4	I 0 VII	14	5	0	9	10	2	6	5
17	7	0	6	13	3	5	1	10	17	1	1	1	12	7	5	2
19	9	1	1	14	9	3	7	20	19	2	1	4	14	2	3	8
21	5	1	6	15	8	2	3	II 0 VIII	20	7	1	5	15	2	2	4
22	5	1	9	15	8	1	0	10	21	7	1	6	15	2	1	2
						-	+									
22	6	2	2	15	6	0	4	20	21	8	1	7	15	0	0	3
22	2	2	5	14	9	1	6	III 0 IX	21	4	1	7	14	3	1	0
21	0	2	6	14	7	2	8	10	20	3	1	7	14	2	2	7
19	1	2	7	15	0	3	9	20	19	5	1	6	14	7	3	9
16	8	2	7	14	9	5	3	IV 0 X	16	3	1	5	14	3	5	2
13	9	2	7	13	6	6	5	10	13	5	1	4	13	2	6	4
10	7	2	6	11	6	7	5	20	10	4	1	1	11	3	7	4
6	9	2	4	9	0	8	3	V 0 XI	6	8	0	9	8	8	8	3
3	1	2	0	5	8	8	8	10	3	0	0	7	5	8	8	8
	+															
0	9	1	6	2	5	9	0	20	0	8	0	4	2	6	9	c
			+	-												
4	7	1	4	1	0	8	8	VI 0 0	4	6	0	0	0	8	8	8

Primum Signorum -- + vel + -- respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.



259. e Ophiuchi 5.				1780				260 α Ophiuchi 2.								
Ascensio Recta 8°19'30"12" <sup>1</sup> / <sub>2</sub>				Argument. pro Aberratio- ne Longitudo Solis.				Ascensio Recta 8°21'10'50" <sup>1</sup> / <sub>2</sub>								
Variatio annua + 54. 83.								Variatio annua + 41. 30.								
Declinatio 23°46'23"20 A.								Declinatio 12°44'8"00 B.								
Variatio annua + 3. 76.								Variatio annua — 3. 15.								
Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus Ω ♁ Ascend.				Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.					
+	-	+	+	-	+	+	S. G. S.	+	-	-	+	+	-	-	+	
3	8	0	0	0	8	8	9	O o VI	2	8	11	7	0	3	8	9
		+	-					10					-	+		
7	4	0	0	3	4	2	8	10	6	3	11	5	2	0	8	6
10	9	0	0	6	7	3	7	20	5	6	10	8	4	3	7	8
13	9	0	0	8	10	2	6	I o VII	12	5	9	8	6	4	6	3
16	7	1	1	12	7	5	3	10	15	2	8	6	8	2	5	5
18	8	1	3	14	2	3	9	20	17	3	7	1	9	5	4	2
20	8	1	5	15	2	2	5	II o VIII	18	9	5	3	10	4	2	9
21	8	1	5	15	2	2	5	10	20	0	3	4	10	4	1	4
21	8	1	5	15	0	1	3	20	20	4	1	4	10	5	0	1
					-	+					+	-		-	+	
21	5	1	6	14	3	1	4	III o IX	20	2	0	6	9	8	1	3
20	5	1	6	14	2	2	6	10	19	4	2	6	10	1	2	2
18	8	5	14	7	3	8	8	20	18	0	4	6	10	4	3	6
16	7	1	5	14	3	5	1	IV o X	16	1	6	4	10	5	4	9
13	9	1	4	13	2	6	3	10	13	7	8	0	9	7	6	1
10	9	1	1	11	3	7	4	20	10	8	9	3	8	6	7	2
7	4	0	8	8	8	8	3	V o XI	7	7	10	5	6	4	8	1
3	8	0	6	5	8	8	8	10	4	3	11	2	4	9	8	8
0	0	0	3	2	6	9	0	20	0	7	11	6	2	7	9	0
-	+		+	-					-	+	+	-				
3	8	0	0	0	8	8	9	VI o O	2	8	11	7	0	3	8	9

Primum Signorum — + vel + — respondet sex primis Signis Argumentorum: secundum Signum, sex posterioribus Signis eorundem Argumentorum.

261.  $\mu$  Ophiuchi 4.

1780

262.  $\beta$  Draconis 3.

Ascensio Recta  $8^{\circ} 21' 28'' 32''$   
 Variatio annua  $+ 48. 96.$   
 Declinatio  $7^{\circ} 58' 7'' 40 A.$   
 Variatio annua  $+ 3. 07.$

Argument.  
 pro  
 Aberratio-  
 ne  
 Longitudo  
 Solis.

Ascensio Recta  $8^{\circ} 21' 22'' 15''$   
 Variatio annua  $+ 20. 36.$   
 Declinatio  $52^{\circ} 28' 18'' 00 B.$   
 Variatio annua  $- 3. 05.$

Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus $\Omega$ & Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.
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+	-	+	-	-	+	+	-	S. G. S.	+	-	-	+	+	-	-	+
2	8	6	5	0	2	8	9	O o VI	4	6	19	1	1	8	8	9
6	3	6	5	3	1	8	6	10	10	1	18	4	1	0	8	6
9	6	5	3	5	9	7	8	20	15	4	17	2	0	3	7	8
12	4	5	0	8	4	6	8	I o VII	20	2	15	2	0	5	6	8
15	3	4	8	10	5	5	5	10	24	4	13	2	1	3	5	5
17	4	3	9	12	1	4	2	20	27	8	10	5	2	2	4	2
18	7	3	2	13	0	2	9	II o VIII	30	5	7	5	2	9	2	9
19	8	2	3	13	0	1	4	10	32	1	4	2	2	9	1	4
20	2	1	4	12	8	0	1	20	32	8	1	0	3	1	0	1
20	0	0	4	12	2	1	3	III o IX	32	5	2	3	2	9	1	3
19	2	0	4	12	5	2	2	10	31	2	5	7	3	2	2	2
17	9	1	4	12	7	3	6	20	29	0	8	7	3	9	3	6
16	0	2	3	12	6	4	9	IV o X	25	8	11	6	4	2	4	9
13	6	3	2	11	7	6	1	10	21	9	14	1	4	2	6	1
10	7	3	9	10	1	7	2	20	17	4	16	2	4	0	7	2
7	6	4	8	8	0	8	1	V o XI	12	2	17	8	3	8	8	1
4	2	5	0	5	6	8	8	10	6	8	18	8	3	1	8	8
0	7	5	2	2	7	9	0	20	1	1	19	3	2	5	9	0
-	+	+	+	+	-	-	-		-	+	-	-	-	+	-	-
2	8	6	5	0	2	8	9	VI o O	2	8	19	1	1	8	8	9

Primum Signorum — + vel + — responderet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.

263. D Ophiuchi 5.

1780

264. p Sagittarii 3.

Afcensio Recta 8°22'33"59"  
 Variatio annua + 54. 00.  
 Declinatio 21°33'24"20 A.  
 Variatio annua + 2. 71.

Argument.  
 pro  
 Aberratio-  
 ne  
 Longitudo  
 Solis.

Afcensio Recta 8°23'25'58"<sup>1</sup>/<sub>2</sub>  
 Variatio annua + 56 65.  
 Declinatio 27°43'33"80 A  
 Variatio annua + 2. 41.

Aberra- tio in Ascensu. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascensu. Rectam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus & Ascend.	Aberra- tio in Ascensu. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascensu. Rectam.	Nutatio in Declina- tion.
+ 2	- 6	+ 1	- 0	5	9	0	0	S. G. S.
6	1	0	0	8	2	0	0	O o VI
2	2	1	2	3	8	2	7	10
9	8	1	3	6	9	7	9	20
12	9	1	5	9	8	6	9	I o VII
15	7	1	5	12	2	5	6	10
18	0	1	6	13	9	4	3	20
19	7	1	6	14	8	3	0	Ho VIII
21	0	1	5	14	9	1	5	10
21	5	1	5	14	7	0	2	20
21	3	1	2	14	0	1	1	III o IX
20	5	1	1	14	2	2	1	10
19	1	0	9	14	4	3	4	20
16	9	0	6	14	3	4	8	IV o X
14	6	0	4	13	2	6	0	10
11	7	0	1	11	3	7	1	20
8	4	0	3	9	1	8	0	V o XI
4	8	0	5	6	1	8	7	10
1	1	0	7	2	8	9	0	20
2	+ 6	1	0	0	5	9	0	VI o O
2	4	1	6	0	6	9	0	

Primum Signorum — + vel + — respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.

265. b Sagittarii dupl. .5.

1780

266. γ Sagittarii 3. 4.

Afcensio Recta 8°26'35'37''  
 Variatio annua + 54. 94.  
 Declinatio 23°46'32''00. A.  
 Variatio annua + 1. 30.

Argument.  
 pro  
 Aberratio-  
 ne  
 Longitudo  
 Solis.

Afcensio Recta 8°27'55'20''  
 Variatio annua + 58. 00.  
 Declinatio 30°24'15''80. A.  
 Variatio annua + 0. 84.

Aberra- tio in Afcens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Afcens. Rectam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus ☉ ☉ Ascend.	Aberra- tio in Afcens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Afcens. Rectam.	Nutatio in Declina- tion.
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				S G. S.												
+	-	+	-	+	-	+	-	+	-	+	-	+	-			
1	2	0	3	0	3	9	0	O o VI	1	2	2	5	1	2	9	0
4	9	0	5	3	6	8	8	IO	4	8	2	4	3	8	8	7
8	6	0	6	6	8	8	2	20	8	6	2	1	7	2	8	1
12	0	0	7	10	0	7	4	I o VII	12	2	1	9	10	2	7	2
15	0	0	7	12	3	6	3	IO	15	4	1	6	12	9	6	1
17	3	0	8	13	9	5	0	20	18	2	1	2	14	8	4	8
19	5	0	8	15	1	3	6	II o VIII	20	4	0	8	15	8	3	8
20	9	0	8	15	0	2	3	IO	22	0	0	4	15	9	2	0
21	7	0	8	15	0	1	2	20	22	9	0	0	15	9	0	8
21	9	0	8	14	4	0	2	III o IX	23	1	0	5	15	3	0	5
21	4	0	7	14	4	1	5	IO	22	6	0	9	15	4	1	8
20	1	0	7	14	8	2	7	20	21	4	1	3	15	6	3	0
18	4	0	6	14	6	4	1	IV o X	19	6	1	6	15	6	4	3
16	1	0	6	13	7	5	4	IO	17	2	2	0	14	5	5	6
13	2	0	5	11	8	6	7	20	14	3	2	3	12	5	6	7
10	0	0	3	9	2	7	6	V o XI	10	9	2	4	10	1	7	8
6	4	0	1	6	4	8	5	IO	7	1	2	5	6	8	8	6
2	7	0	1	3	1	8	9	20	3	2	2	5	3	4	9	0
-	+	0	+	-					-	+		+	-			
1	2	0	2	0	3	9	0	VI o O	1	3	2	5	0	2	9	0

Primum Signorum — + vel + — respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.



267.  $\gamma$  Draconis 2.

1780

268.  $\mu$  Sagittarii 4.

Ascensio Recta  $8^{\circ} 27' 52'' 41''$   
 Variatio annua  $+ 20. 56.$   
 Declinatio  $51^{\circ} 31' 21'' 40. B.$   
 Variatio annua  $- 0. 78.$

Argument.  
 pro  
 Aberratio-  
 ne  
 Longitudo  
 Solis.

Ascensio Recta  $9^{\circ} 0' 9'' 11''$   
 Variatio annua  $+ 53. 91.$   
 Declinatio  $21^{\circ} 5' 47'' 00. A.$   
 Variatio annua  $- 0. 05.$

Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus $\Omega$ Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.								
+ 1	- 1	+ 19	+ 3	0	4	9	0	S. G. S 0 0 VI	+ 0	- 0	+ 0	- 9	+ 0	- 0	+ 9	- 0
6	6	19	0	0	3	8	7	10	3	7	0	9	3	1	8	9
12	0	18	1	1	1	8	1	20	7	3	0	8	6	4	8	4
17	1	16	5	1	7	7	2	I 0 VII	10	7	0	8	9	3	7	6
21	5	14	5	2	5	6	1	10	13	7	0	8	11	9	6	5
25	4	12	2	3	0	4	8	20	16	3	0	7	13	5	5	2
28	5	9	4	3	7	3	3	II 0 VIII	18	4	0	6	14	5	3	9
30	6	6	3	3	4	2	0	10	20	0	0	4	14	7	2	5
31	9	3	0	3	4	0	8	20	21	0	0	2	14	5	1	4
32	2	0	+ 3	3	0	0	+ 5	III 0 IX	21	3	0	0	13	8	0	0
31	5	3	7	3	1	1	8	10	21	0	0	2	14	1	1	4
29	9	6	9	3	5	3	0	20	20	0	0	4	14	5	2	5
27	3	9	9	3	5	4	3	IV 0 X	18	4	0	6	14	3	3	9
23	9	12	7	3	3	5	6	10	16	3	0	7	13	4	5	2
19	8	15	0	3	0	6	7	20	13	7	0	8	11	8	6	5
15	1	16	9	2	5	7	8	V 0 XI	10	7	0	8	9	3	7	5
9	9	18	1	1	8	8	6	10	7	3	0	8	6	4	8	4
4	4	19	1	1	1	9	0	20	3	7	0	9	3	1	8	9
- 1	+ 1	19	3	0	4	9	0	VI 0 0	0	0	0	9	0	0	9	1

Primum Signorum  $- +$  vel  $+ -$  respondet sex primis Signis  
 Argumentorum : secundum Signum , sex posterioribus Signis  
 eorundem Argumentorum,

269. 2 μ Sagittarii 4.				1780	270. δ Sagittarii 6.			
Ascensio Recta 9° 0' 31' 33"				Argument. pro Aberratio- ne Longitudo Solis.	Ascensio Recta 9° 1' 43' 41"			
Variatio annua + 53. 90.					Variatio annua + 57. 70.			
Declinatio 20° 46' 28" 00A.					Declinatio 29° 54' 2" 20A.			
Variatio annua — 0. 05.					Variatio annua — 0. 49.			
Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus Ω Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.
+ 0	- 0	+ 1	- 0	S. G. S.	- 0	+ 4	- 2	+ 3
3	7	0	9	0 0 VI	+ 3	- 6	+ 2	- 3
7	3	0	9	10	7	5	2	2
10	7	0	9	I 0 VII	11	1	2	1
13	7	0	8	10	14	5	1	9
16	3	0	7	20	17	3	1	7
18	4	0	5	10 VIII	19	8	1	4
20	0	0	4	10	21	5	1	0
21	0	0	2	20	22	7	0	6
21	3	0	0	III 0 IX	23	1	0	1
21	0	0	2	+ 10	22	8	0	1
20	0	0	4	20	21	7	0	6
18	4	0	5	IV 0 X	20	2	1	0
16	3	0	7	10	17	2	1	4
13	7	0	8	20	15	2	1	7
10	7	0	9	V 0 XI	11	8	1	9
7	3	0	9	10	8	2	2	1
3	7	0	9	20	4	4	2	2
0	0	1	0	VI 0 0	0	4	2	3

Primum Signorum — + vel + — respondet sex primis Signis  
Argumentorum: secundum Signum, sex posterioribus Signis  
eorundem Argumentorum.

271. ε Sagittarii 2.				1780	272. λ Sagittarii 4.							
Ascensio Recta 9° 2' 23' 43"				Argument. pro Aberratio- ne Longitudo Solis.	Ascensio Recta 9° 3' 36' 7"							
Variatio annua + 59. 95.					Variatio annua + 55. 75.							
Declinatio 34° 27' 58" 10 A.				Argument. pro Nutatione Locus ♁ ♃ Ascend.	Declinatio 25° 30' 18" 00 A							
Variatio annua — 0. 72.					Variatio annua — 1. 15.							
Aberra- tio in Ascensu. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascensu. Rectam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus ♁ ♃ Ascend.	Aberra- tio in Ascensu. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascensu. Rectam.	Nutatio in Declina- tion.				
0	+	+	+	S. G. S.	-	+	-	+	+	-	+	-
8	3	8	3	0 0 VI	1	2	1	3	0	4	9	0
+	-	-	-	10	+	-	-	-	-	-	-	-
3	3	3	8	20	2	7	1	4	3	2	8	9
7	5	3	7	I 0 VII	6	5	1	4	6	4	8	0
11	4	3	5	10	10	1	1	4	9	5	7	7
15	0	3	1	20	13	4	1	3	12	3	6	8
18	0	2	7	I 0 VIII	16	3	1	1	15	0	5	5
20	5	2	2	10	18	7	1	0	15	1	4	2
22	4	1	5	20	20	5	0	9	15	3	2	9
23	7	1	0	III 0 IX	21	8	0	7	15	2	1	6
24	2	0	3	10	22	3	0	5	14	7	0	3
24	0	0	4	20	22	1	0	2	14	9	1	0
23	0	1	1	IV 0 X	21	3	0	0	15	3	2	2
21	4	1	7	10	+	-	-	-	-	-	-	-
19	1	2	2	20	19	9	0	2	15	1	3	4
16	1	2	8	V 0 XI	17	6	0	5	14	2	4	9
12	8	3	1	10	15	2	0	7	12	4	6	2
9	1	3	6	20	12	2	0	9	10	0	7	3
5	0	3	8	VI 0 0	8	6	1	0	6	9	8	2
0	8	3	8	10	5	0	1	1	3	7	8	8
				20	1	2	1	3	0	4	9	0

Primum Signorum — + vel + — respondet sex primis Signis  
Argumentorum: secundum Signum, sex posterioribus Signis  
eorundem Argumentorum.

273. α Lyrae 1.

1780

274. φ Sagittarii. 3.

Ascensio Recta 9° 7' 22" 17"<sup>1</sup>/<sub>2</sub>  
 Variatio annua + 30. 32.  
 Declinatio 38° 35' 14" 40 B.  
 Variatio annua + 2. 52.

Argument  
 pro  
 Aberratio-  
 ne  
 Longitudo  
 Solis.

Ascensio Recta 9° 7' 58" 37"  
 Variatio annua + 56. 40.  
 Declinatio 27° 11' 46" 40 A.  
 Variatio annua — 2. 68.

Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.	Argument. pro Nutatione Loens Ω ♁ Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.
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—	+	—	+	—	+	—	+	S. G. S.	—	+	—	+	—	+	—	+
3	1	17	6	0	9	9	0	0 0 VI	2	7	1	3	0	4	9	0
+	—							10	+	—				+		
1	4	17	6	2	4	8	8	10	1	2	1	5	2	9	8	8
5	7	17	1	3	7	8	7	20	5	0	1	6	6	2	8	7
10	0	16	1	5	0	8	0	I 0 VII	8	7	1	6	9	4	8	0
13	9	14	5	6	0	7	1	10	12	2	1	7	12	0	7	1
17	4	12	4	6	6	5	9	20	16	3	1	7	14	0	5	9
20	1	10	1	7	3	4	7	II 0 VIII	17	7	1	6	14	6	4	7
22	8	7	5	6	9	3	2	10	20	0	1	6	15	3	3	7
24	5	4	5	6	7	2	1	20	21	4	1	5	15	4	2	1
25	4	1	6	6	0	1	0	III 0 IX	22	2	1	3	14	8	1	0
		+				+		10							+	
25	6	1	6	6	1	0	4	10	22	4	1	0	14	9	0	4
24	9	4	6	6	2	1	6	20	21	9	0	7	15	5	1	6
23	0	7	5	6	3	3	1	IV 0 X	20	6	0	4	15	3	3	1
21	4	10	1	5	5	4	4	10	18	8	0	1	14	5	4	4
								10			+					
18	7	12	5	4	6	5	7	20	16	4	0	1	12	8	5	7
15	3	14	5	3	4	7	0	V 0 XI	13	3	0	4	10	3	7	0
11	4	16	1	2	0	7	9	10	10	2	0	7	7	2	7	9
7	5	17	1	0	7	8	7	20	6	5	1	0	4	0	8	7
			+					10								
3	1	17	6	0	9	9	0	VI 0 0	2	7	1	3	0	4	9	2

Primum Signorum — + vel + — respondet sex primis Signis  
 Argumentorum secundum Signum sex posterioribus Signis  
 eorundem Argumentorum.



275. 28 Sagittarii 5.

1780

276. c. Draconis 5.

Ascensio Recta  $9^{\circ} 8' 16'' 7''$   
 Variatio annua  $+ 54. 43.$   
 Declinatio  $22^{\circ} 36' 8'' 40. A.$   
 Variatio annua  $- 2. 78.$

Argument.  
 pro  
 Aberratio-  
 ne  
 Longitudo  
 Solis.

Ascensio Recta  $9^{\circ} 9' 35' 36'' \frac{1}{2}$   
 Variatio annua  $+ 17. 62.$   
 Declinatio  $55^{\circ} 19' 18'' 20 B.$   
 Variatio annua  $+ 3. 31.$

Aberratio in Ascensio Rectam.	Aberratio in Declinatione.	Nutatio in Ascensio Rectam.	Nutatio in Declinatione.	Argument. pro Nutatione Locus $\Omega$ Ascend.	Aberratio in Ascensio Rectam.	Aberratio in Declinatione.	Nutatio in Ascensio Rectam.	Nutatio in Declinatione.
-	+	+	-	+	-	+	-	+
2	6	0	2	0	5	3	19	4
+	+	-	+	-	+	+	-	+
1	2	0	0	2	9	8	8	10
4	8	0	2	6	0	8	7	10
8	5	0	5	9	0	8	0	I 0 VII
II	7	0	8	II	5	7	1	10
14	7	0	9	13	3	5	9	20
17	0	I	1	14	5	4	7	II 0 VIII
19	3	I	3	14	7	3	2	10
20	6	I	3	14	7	2	1	20
21	4	I	4	14	2	1	0	III 0 IX
								+
21	6	I	4	14	3	0	4	10
21	1	I	3	14	8	1	6	20
19	9	I	3	14	8	3	1	IV 0 X
18	1	1	2	14	0	4	4	10
15	8	1	1	12	3	5	7	20
								+
12	9	0	8	9	9	7	0	V 0 XI
9	8	0	7	7	0	7	9	10
6	3	0	5	3	9	8	7	20
2	6	0	2	0	5	9	0	VI 0 0

Primum Signorum -- + vel +- respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.

277. ♀ Sagittarii 4.

1780

278. ♂ Sagittarii 3.

Ascensio Recta 9° 10' 13' 21"  
 Variatio annua + 54. 60.  
 Declinatio 22° 59' 45" 00 A.  
 Variatio annua — 3. 45.

Argument.  
 pro  
 Aberratione  
 Longitudo  
 Solis.

Ascensio Recta 9° 10' 24' 20"  
 Variatio annua + 56. 00.  
 Declinatio 26° 32' 57" 20 A.  
 Variatio annua — 3. 54.

Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus ♀ Ascens.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.
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—	+	+	—	+	—	+	—	S. G. S.	—	+	—	+	+	—	+	—
3	4	0	3	0	7	8	9	0 0 VI	3	4	1	0	0	8	8	9
+	—	0	0	2	7	9	0	10	+	—	4	1	3	2	7	9
0	4	0	0	2	7	9	0	10	0	4	1	3	2	7	9	0
4	2	0	3	6	0	8	8	20	4	3	1	6	6	1	8	8
7	8	0	5	8	9	8	2	1 0 VII	8	0	1	7	9	1	8	2
II	3	0	8	II	4	7	3	10	II	5	1	8	II	8	7	3
14	4	1	1	13	3	6	2	20	14	6	1	9	13	9	6	2
17	0	1	3	14	3	5	0	II 0 VIII	17	3	1	9	14	9	5	0
19	2	1	4	14	7	3	6	10	19	5	1	9	15	2	3	6
20	6	1	5	14	7	2	4	20	21	0	1	8	15	2	2	4
21	6	1	5	14	2	1	4	III 0 IX	22	0	1	7	14	7	1	4
21	8	1	6	14	3	0	0	10	22	3	1	6	14	9	0	0
							+									+
21	5	1	6	14	9	1	4	20	21	9	1	3	15	5	1	4
20	4	1	5	14	8	2	7	IV 0 X	20	8	1	0	15	4	2	7
18	7	1	5	14	0	4	0	10	19	1	0	7	14	6	4	0
16	5	1	4	12	2	5	4	20	16	8	0	4	12	8	5	4
13	7	1	1	10	1	6	7	V 0 XI	14	0	0	0	10	6	6	7
10	6	0	9	7	1	7	7	10	10	8	0	4	7	5	7	7
7	1	0	6	4	0	8	5	20	7	2	0	7	4	2	8	5
3	4	0	3	0	7	8	9	VI 0 0	3	4	1	0	0	8	8	9

Primum Signorum — + vel + — respondet sex primis  
 Argumentorum secundum Signum sex posterioribus Signis  
 eorundem Argumentorum.

279. 2 v Sagittarii 4.				1780	280. β Lyrae 3.			
Ascensio Recta 9° 10' 27" 3"				Argument. pro Aberratio- ne Longitudo Solis.	Ascensio Recta 9° 10' 29' 32" <sup>1</sup> / <sub>2</sub>			
Variatio annua + 54. 20.					Variatio annua + 33. 32.			
Declinatio 22° 55' 36" 70 A.					Declinatio 33° 7' 23" 80. B.			
Variatio annua - 3. 54.					Variatio annua + 3. 59.			
Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locis & Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.
— +	+ —	+ —	+ —	S. G. S.	— +	— +	— +	— +
3 4	0 3	0 7	8 9	00 VI.	3 8	16 5	1 0	8 9
+ —	0 0	— +	2 7	10	0 4	16 6	2 7	9 0
4 2	0 2	6 0	8 8	20	4 4	16 1	4 3	8 8
7 8	0 5	8 9	8 2	I 0 VII	8 5	15 2	5 7	8 2
11 3	0 8	11 4	7 3	10	12 3	13 8	7 0	7 3
14 3	I 0	13 3	6 2	20	15 6	11 9	7 7	6 2
16 9	I 3	14 4	5 0	II 0 VIII	18 4	9 8	8 2	5 0
19 0	I 4	14 7	3 6	10	20 8	7 3	7 9	3 6
20 5	I 5	14 7	2 4	20	22 4	4 6	7 8	2 4
21 5	I 5	14 2	1 4	III 0 IX	23 5	1 8	7 1	1 4
21 8	I 6	14 3	0 0	10	23 8	+ —	2 7	2 0
21 4	I 6	14 9	1 4	20	23 4	4 0	7 3	1 4
20 4	I 5	14 8	2 7	IV 0 X	22 2	6 7	7 1	2 7
18 6	I 4	14 0	4 0	10	20 3	9 3	6 4	4 0
16 4	I 3	12 3	5 4	20	17 9	11 5	5 4	5 4
13 6	I 0	10 1	6 7	V 0 XI	14 9	13 4	3 9	5 7
10 6	0 8	7 3	7 7	10	11 5	15 0	2 4	7 7
7 0	0 5	4 0	8 5	20	7 7	16 0	0 7	8 5
3 4	0 3	0 7	8 9	VI 0 VI	3 8	16 5	+ —	8 9

Primum Signorum — + vel + — respondet sex primis Signis  
Argumentorum secundum Signum, sex posterioribus Signis  
eorundem Argumentorum.



281. 1 § Sagittarii 6.

1780

282. 2 § Sagittarii 5.

Ascensio Recta 9° 11' 4' 3"  
 Variatio annua + 53. 75.  
 Declinatio 20° 55' 30" 00A.  
 Variatio annua + 3. 75.

Argument.  
 pro  
 Aberratio-  
 ne  
 Longitude  
 Solis.

Ascensio Recta 9° 11' 8' 59"  
 Variatio annua + 53. 70.  
 Declinatio 21° 22' 37" 00A.  
 Variatio annua - 3. 75.

Aberra-  
 tio in  
 Ascensu.  
 Reclam.

Aberra-  
 tio in  
 Declina-  
 tion.

Nutatio  
 in  
 Ascensu.  
 Reclam.

Nutatio  
 in  
 Declina-  
 tion.

Argument.  
 pro  
 Nutatione  
 Locus Ω  
 3 Ascend.

Aberra-  
 tio in  
 Ascensu.  
 Reclam.

Aberra-  
 tio in  
 Declina-  
 tion.

Nutatio  
 in  
 Ascensu.  
 Reclam.

Nutatio  
 in  
 Declina-  
 tion.

								S. G. S.								
-	+	+	-	+	-	+	-		-	+	+	-	+	-	+	-
3	7	1	2	0	7	8	9	O o VI	3	7	1	1	0	7	8	9
0	0	0	9	2	7	9	0	10	0	0	0	8	2	7	9	0
+	-								+	-						
3	7	0	6	5	8	8	9	20	3	7	0	4	5	8	8	9
7	3	0	2	8	7	8	3	I o VII	7	3	0	0	8	7	8	3
		-	+								-	+				
10	7	0	1	11	2	7	4	10	10	7	0	3	11	2	7	4
13	7	0	5	13	1	6	3	20	13	8	0	6	13	1	6	3
16	7	0	8	14	2	5	1	II o VIII	16	4	1	0	14	2	5	1
18	5	1	2	14	4	3	7	10	18	6	1	3	14	4	3	7
20	1	1	4	14	4	2	5	20	20	2	1	6	14	4	2	5
21	1	1	6	13	9	1	5	III o IX	21	2	1	7	13	9	1	5
21	4	1	8	14	0	0	1	10	21	5	1	9	14	0	0	1
					-	+								-	+	
21	1	2	0	14	6	1	2	20	21	2	2	0	14	6	1	2
20	1	2	0	14	6	2	5	IV o X	20	2	2	0	14	6	2	5
18	5	2	0	14	0	3	9	10	18	6	2	0	14	0	3	9
16	7	2	0	12	1	5	3	20	16	4	1	9	12	1	5	3
13	7	1	8	10	0	6	6	V o XI	13	8	1	8	10	0	6	6
10	7	1	7	6	9	7	7	10	10	7	1	6	6	9	7	7
7	3	1	5	3	9	8	5	20	7	3	1	4	3	9	8	5
3	7	1	2	0	7	8	9	VI o O	3	7	1	1	0	7	8	9

Primum Signorum — + vel + — respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.



283. ♀ Serpentis, dupl. 3.

1780

284. ♂ Sagittarii 4.

Afc. Rect.  $\left\{ \begin{matrix} 9^{\circ} 11' 19'' 22'' \\ 9^{\circ} 11' 19'' 24'' \end{matrix} \right\}$   
 Variatio annua + 44. 84.  
 Declinatio  $\left\{ \begin{matrix} 3^{\circ} 55' 43'' 00 \\ 3^{\circ} 55' 54'' 00 \end{matrix} \right\}$  B  
 Variatio annua + 3. 85.

Argument.  
pro  
Aberratio-  
ne  
Longitudo  
Solis.

Afcensio Recta  $9^{\circ} 12' 9'' 11''$   
 Variatio annua + 57. 60.  
 Declinatio  $30^{\circ} 10' 27'' 80A$ .  
 Variatio annua - 4. 11.

Aberra- tio in Afcens. Reclam.		Aberra- tio in Declina- tion.		Nutatio in Afcens. Reclam.		Nutatio in Declina- tion.		Argument. pro Nutatione Locus $\frac{1}{2}$ Ascend.		Aberra- tio in Afcens. Reclam.		Aberra- tio in Declina- tion.		Nutatio in Afcens. Reclam.		Nutatio in Declina- tion.		
-	+	-	+	-	+	-	+	S. G. S.	-	+	-	+	-	+	-	+		
3	5	9	2	0	1	8	9	O o VI	4	4	2	2	1	1	8	8		
+	-	0	0	9	1	2	7	10	0	4	2	5	2	6	8	9		
3	5	8	7	5	2	8	9	20	3	6	2	7	6	2	8	8		
6	8	8	1	7	4	8	3	I o VII	7	5	2	9	9	2	8	2		
10	0	7	1	9	4	7	4	10	11	1	2	9	12	0	7	5		
12	9	6	0	10	7	6	3	20	14	5	2	9	14	0	6	4		
15	3	4	7	11	5	5	1	II o VIII	17	3	2	9	15	2	5	2		
17	3	3	3	11	5	3	7	10	19	7	2	7	15	6	3	8		
18	8	1	7	11	5	2	5	20	21	4	2	5	15	5	2	6		
19	7	0	2	10	9	1	0	III o IX	22	6	2	2	15	2	1	6		
20	0	+	-	1	4	11	2	0	1	10	23	0	1	8	15	4	0	3
19	7	3	0	11	4	1	2	20	22	7	1	3	16	0	1	1	1	
18	8	4	5	11	3	2	5	IV o X	21	6	0	8	15	9	2	4	4	
17	3	5	8	10	4	3	9	10	20	1	0	2	15	0	3	8		
15	3	7	0	9	1	5	3	20	17	8	0	2	13	4	5	2		
12	9	7	9	7	2	6	6	V o XI	15	1	0	8	11	0	6	5		
10	0	8	6	5	0	7	7	10	11	8	1	3	7	9	7	6		
6	8	9	0	2	5	8	5	20	8	2	1	8	4	7	8	4		
3	5	9	2	0	1	8	9	VI o O	4	4	2	2	1	1	8	8		

Primum Signorum - + vel + - respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.

285. ☉ Draconis 4.

1780

286. ☉ Sagittarii 3.

Ascensio Recta 9°11'59"14"  
 Variatio annua + 13. 40.  
 Declinatio 59°7'27"80 B.  
 Variatio annua + 4. 14.

Argument.  
 pro  
 Aberratio-  
 ne  
 Longitudo  
 Solis.

Ascensio Recta 9°12'52"28"  
 Variatio annua + 54. 10.  
 Declinatio 22°2'41"80 A.  
 Variatio annua - 4. 36.

Aberra- tio in Ascensu. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascensu. Rectam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus ☉ ☉ Ascend.	Aberra- tio in Ascensu. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascensu. Rectam.	Nutatio in Declina- tion.
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-	+	+	-	+	-	+	S. G. S.	-	+	+	-	+	-	+	-
7	4	19	5	3	1	8	8	4	1	0	7	0	7	8	8
0	6	19	8	3	2	8	9	0	8	0	3	2	5	8	9
+	-	19	5	3	4	8	8	+	-	-	+	5	7	8	8
12	6	18	6	3	2	8	2	3	0	0	0	4	8	6	8
8	7	17	1	3	0	7	5	6	7	0	7	11	2	7	5
24	6	15	2	2	7	6	4	20	13	2	1	1	13	0	6
29	0	12	8	2	5	5	2	20	16	0	1	3	14	3	5
33	0	9	9	1	9	3	8	10	18	2	1	5	14	5	3
35	2	6	7	1	4	2	6	20	20	0	1	7	14	4	2
38	0	3	5	0	5	1	6	20	21	1	1	8	14	0	1
38	7	0	0	0	1	0	3	10	21	5	1	9	14	2	0
38	2	3	5	0	0	1	1	20	21	3	1	9	14	8	1
36	2	6	7	0	4	2	4	IV ☉ X	20	4	1	9	14	7	2
33	8	9	9	0	9	3	8	10	19	0	1	8	13	9	3
30	0	12	8	1	5	5	2	20	16	9	1	6	12	4	5
25	4	15	2	2	0	6	5	V ☉ XI	14	4	1	5	10	1	6
19	9	17	1	2	6	7	6	10	11	4	1	3	7	2	7
13	9	18	6	2	9	8	4	20	8	0	1	0	4	2	8
7	4	19	5	3	1	8	8	VI ☉ O	4	1	0	7	0	7	8

Primum Signorum — + vel + — respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.







291. ♄ Sagittarii 4.

1780

292. ♃ Sagittarii 5.

Ascensio Recta 9° 16' 11" 13"  
 Variatio annua + 52. 50.  
 Declinatio 19° 19' 40" 50A.  
 Variatio annua — 5. 30.

Argument  
 pro  
 Aberratio-  
 ne  
 Longitudo  
 Solis.

Ascensio Recta 9° 17' 58" 19"  
 Variatio annua + 55. 05.  
 Declinatio 24° 55' 5" 20A.  
 Variatio annua — 6. 09.

Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus Ω ♄ Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.
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—	+	+	—	+	—	+	—	S. G. S.	—	+	—	+	+	—	+	—
5	4	1	9	1	0	8	7	0 0 VI	6	0	0	0	1	2	8	6
					+									+		
1	8	1	6	2	4	9	0	10	2	3	0	5	2	2	8	9
+	—								+	—						
1	8	1	1	5	5	8	9	20	1	6	0	9	5	4	8	9
5	4	0	7	8	2	8	4	I 0 VII	5	3	1	4	8	4	8	5
8	9	0	2	10	8	7	7	10	8	9	1	8	11	0	7	8
		—	+													
12	0	0	3	12	7	6	7	20	12	2	2	2	13	0	6	8
14	8	0	8	13	8	5	6	II 0 VIII	15	2	2	4	14	3	5	7
17	2	1	3	14	1	4	2	10	17	7	2	7	14	6	4	3
19	0	1	7	14	0	3	0	20	19	6	2	8	14	6	3	2
20	3	2	0	13	6	2	0	III 0 IX	20	9	2	8	14	2	2	1
20	9	2	3	13	8	0	7	10	21	7	2	8	14	5	0	9
					—	+								—	+	
20	9	2	5	14	2	0	5	20	21	7	2	7	15	0	0	4
20	3	2	7	14	3	1	9	IV 0 X	21	2	2	4	15	0	1	7
19	0	2	7	13	5	3	3	10	19	9	2	2	14	3	3	2
17	2	2	7	12	0	4	7	20	18	0	1	8	12	8	4	0
14	8	2	7	9	9	6	0	V 0 XI	15	7	1	4	10	5	5	9
12	0	2	6	7	0	7	2	10	12	8	0	9	7	6	7	1
8	9	2	3	4	0	8	0	20	9	6	0	5	4	6	7	9
5	4	1	9	1	0	8	7	VI 0 0	6	0	0	0	1	2	8	6

Primum Signorum — + vel + — respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.

293. * Cygni 4.				1780	294. ♀ Draconis 3.			
Ascensio Recta 9° 18' 0" 11"				Argument. pro Aberratione Longitudo Solis.	Ascensio Recta 9° 18' 6" 50"			
Variatio annua + 20. 55.					Variatio annua + 0. 75.			
Declinatio 52° 58' 4" 20 B.					Declinatio 67° 16' 32" 00 B.			
Variatio annua + 6. 16.				Variatio annua + 6. 23.				
Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus ♀ Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.
- + - + + - - +	- + - + + - - +	- + - + + - - +	- + - + + - - +	S. G. S.	- + - + + - - +	- + - + + - - +	- + - + + - - +	- + - + + - - +
9 1 18 7 3 6 8 6	4 0 19 3 1 1 8 9	2 3 19 3 3 9 8 9	8 0 18 7 5 2 8 5	10 0 VI	15 0 19 1 6 4 8 6	6 2 19 8 0 1 8 5	20 2 20 0 4 6 8 9	11 4 19 5 3 3 8 5
13 4 17 6 5 5 7 8	18 5 15 9 4 1 6 8	23 0 13 7 5 2 5 8	26 8 1 1 4 5 0 4 4	10 0 VII	20 0 18 4 2 1 7 8	27 9 16 8 0 5 6 8	20 20 0 18 4 2 1 7 8	27 9 16 8 0 5 6 8
31 8 5 0 2 9 2 1	32 9 1 7 2 6 1 1	29 8 8 2 4 0 3 3	31 8 5 0 2 9 2 1	10 0 VIII	34 8 14 6 0 0 3 5 8	31 8 5 0 2 9 2 1	32 9 1 7 2 6 1 1	34 8 14 6 0 0 3 5 8
27 4 11 1 0 1 4 5	23 7 13 7 1 0 5 8	30 2 8 2 1 1 3 1	27 4 11 1 0 1 4 5	10 0 IX	40 7 12 0 0 0 9 4 4	23 7 13 7 1 0 5 8	27 4 11 1 0 1 4 5	40 7 12 0 0 0 9 4 4
19 4 15 9 2 1 7 0	14 5 17 6 2 9 7 9	9 1 18 7 3 6 8 6	19 4 15 9 2 1 7 0	10 0 X	46 7 9 1 1 1 9 3 3	14 5 17 6 2 9 7 9	9 1 18 7 3 6 8 6	46 7 9 1 1 1 9 3 3
				20 0 XI	49 0 5 9 3 2 2 1			49 0 5 9 3 2 2 1
				10 0 0	50 8 2 4 4 2 1 1			50 8 2 4 4 2 1 1
				20 0 0	51 2 1 0 5 3 0 3			51 2 1 0 5 3 0 3
				20 0 0	49 9 4 5 5 6 1 6			49 9 4 5 5 6 1 6
				20 0 0	47 2 7 8 6 0 3 1			47 2 7 8 6 0 3 1
				20 0 0	42 9 10 9 6 5 4 5			42 9 10 9 6 5 4 5
				37 4 13 7 7 0 5 8				37 4 13 7 7 0 5 8
				10 0 0	30 7 16 0 8 3 7 9			30 7 16 0 8 3 7 9
				20 0 0	23 2 17 9 7 4 7 9			23 2 17 9 7 4 7 9
				15 0 0	15 0 19 1 6 4 8 6			15 0 19 1 6 4 8 6

Primum Signorum — + vel + — respondet sex primis Signis  
Argumentorum: secundum Signum, sex posterioribus Signis  
eorundem Argumentorum.

295.  $\delta$  Aquilæ 3.

1780

296. 2 h Sagittarii 5.

Ascensio Recta  $9^{\circ} 18' 36'' 2''$   
 Variatio annua  $+ 45. 30.$   
 Declinatio  $2^{\circ} 41' 22'' 20 B.$   
 Variatio annua  $+ 6. 31.$

Argument.  
 pro  
 Aberratione  
 Longitudo  
 Solis.

Ascensio Recta  $9^{\circ} 20' 49' 31' \frac{1}{2}$   
 Variatio annua  $+ 55. 07.$   
 Declinatio  $25^{\circ} 21' 8'' 00 A.$   
 Variatio annua  $- 7. 03.$

Aberra- tio in Ascens. Reclam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Reclam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus $\odot$ $\textcircled{3}$ Ascend	Aberra- tio in Ascens. Reclam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Reclam.	Nutatio in Declina- tion.								
3	9	8	8	0	1	8	6	S. G. S. O $\circ$ VI	7	1	0	1	1	5	8	5
2	4	8	7	2	7	8	9	10	3	4	0	6	1	9	8	8
+	-							20	+	-						
1	0	8	4	5	3	8	9	I $\circ$ VII	0	4	1	2	5	3	8	9
4	5	7	8	7	5	8	5	10	4	2	1	7	8	2	8	6
7	8	7	0	9	6	7	8	20	7	9	2	1	10	2	7	9
10	9	5	9	11	0	6	8	20	11	4	2	4	13	0	7	0
13	7	4	7	11	8	5	8	II $\circ$ VIII	14	4	2	7	14	2	6	1
15	9	3	4	11	8	4	4	10	17	0	2	9	14	6	4	6
17	8	1	9	11	8	3	3	20	19	1	3	0	14	7	3	5
19	0	0	3	11	1	2	1	III $\circ$ IX	20	6	3	0	14	3	2	4
		+	-													
19	7	1	2	11	3	1	1	10	21	6	3	0	14	6	1	3
						+	-									
19	9	2	8	11	6	0	3	20	21	9	2	9	15	2	0	0
19	4	4	2	11	5	1	6	IV $\circ$ X	21	5	2	6	15	3	1	4
18	3	5	4	10	7	3	1	10	20	4	2	3	14	5	2	8
16	7	6	6	9	3	4	5	20	18	7	1	8	12	9	4	2
14	6	7	5	7	4	5	8	V $\circ$ XI	16	5	1	5	10	8	5	5
12	0	8	1	7	0	7	0	10	14	5	0	9	8	0	6	8
9	1	8	6	2	6	7	9	20	10	7	0	5	4	8	7	7
				+	-						+	-				
5	9	8	8	0	1	8	6	VI $\circ$ O	7	1	0	1	1	5	8	5

Primum Signorum  $- +$  vel  $+ -$  respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.



297. ♄ Cygni 4.				1780	298. ♀ Cygni 4.			
Ascensio Recta 9° 21' 2" 26"				Argument. pro Aberratio- ne Longitudi- Solis	Ascensio Recta 9° 22' 42' 7"			
Variatio annua + 22. 86.					Variatio annua + 24. 36.			
Declinatio 51° 16' 2" 20 B.					Declinatio 49° 43' 0" 60 B.			
Variatio annua + 7. 16.				Variatio annua + 7. 68.				
Aberra- tio in Ascens. Reclam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Reclam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus ♀ ♄ Ascend	Aberra- tio in Ascens. Reclam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Reclam.	Nutatio in Declina- tion.
-	+	-	+	S. G. S.	-	+	-	+
10	3	18	2	3 9 8 4	0 0 VI	11	1	18 2 4 0 8 3
5	0	19	0	4 8 8 8	10	5	9	18 9 5 c 8 8
+	-				20	0	5	19 1 5 8 8 9
6	0	18	7	6 0 8 6	I c VII	4	9	18 6 6 3 8 6
11	3	17	7	6 3 8 0	10	10	1	17 6 6 5 8 0
16	3	16	1	6 2 7 1	20	15	0	16 0 6 6 7 1
20	7	14	0	6 1 6 2	II o VIII	19	5	14 0 6 3 6 4
24	6	11	5	5 3 4 7	10	23	3	11 5 5 6 4 8
27	7	8	7	4 6 3 6	20	26	4	8 6 5 1 3 8
29	7	5	6	3 7 2 5	III o IX	28	8	5 6 4 0 2 7
31	2	2	3	3 1 4	10	30	3	2 3 3 6 1 5
		+	-					
31	6	1	0	2 9 0 1	20	30	9	1 0 3 3 0 3
				+				
31	0	4	3	2 4 1 7	IV o X	30	5	4 3 2 8 1 3
29	5	7	4	1 5 2 4	10	27	0	7 4 1 8 2 5
27	1	10	4	0 4 4 1	20	27	0	10 4 0 6 4 0
				+				
23	8	13	1	0 7 5 4	V o XI	24	0	13 1 0 4 5 3
19	9	15	1	2 0 6 7	10	20	3	15 0 1 9 6 6
15	3	17	1	3 1 7 7	20	16	0	17 0 3 1 7 6
10	3	18	2	3 9 8 4	VI o O	11	1	18 2 4 0 8 3

Primum Signorum --+ vel +- respondet sex primis Signis  
Argumentorum: secundum Signum, sex posterioribus Signis  
eorundem Argumentorum.





301. $\epsilon$ Cygni 3.	1780	302. $\alpha$ Aquilæ I.
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Ascensio Recta $9^{\circ}24'31''33''$ Variatio annua $+ 28. 29.$ Declinatio $44^{\circ}36'6''40B.$ Variatio annua $+ 8. 27.$	Argument. pro Aberratione Longitudo Solis	Ascensio Recta $9^{\circ}25'0'31''\frac{1}{2}$ Variatio annua $+ 43. 54.$ Declinatio $8^{\circ}17'53''00B$ Variatio annua $+ 8. 40.$
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Aberra- tio in Ascens. Rectam	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam	Nutatio in Declina- tion.	Argument. pro Narratione Locus $\Omega$ Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.
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-		+		-		+		S. G S.	-		+		-		+	
10	5	17	1	3	7	8	1	$\cup$ 0 VI	7	8	10	3	0	5	8	1
5	8	17	8	4	9	8	7	10	4	5	10	3	3	0	8	7
1	0	18	0	5	9	8	9	20	1	0	10	0	5	4	8	9
+		-		+		-			+		-		+		-	
3	9	17	6	6	8	8	7	I 0 VII	2	4	9	4	7	5	8	7
8	6	16	7	7	4	8	1	10	5	9	8	6	9	4	8	1
13	1	15	3	7	5	7	3	20	9	1	7	4	10	6	7	3
17	3	13	4	7	5	6	4	II 0 VIII	12	0	6	1	11	4	6	4
20	9	11	1	6	8	5	0	10	14	6	4	5	11	3	5	0
23	8	8	5	6	3	3	9	20	16	8	2	9	11	2	4	0
26	1	5	6	5	3	2	9	III 0 IX	18	4	1	0	10	4	2	9
+		-		+		-			+		-		+		-	
27	5	2	5	4	9	1	9	10	19	5	0	7	10	7	1	9
18	1	0	7	4	6	0	6	20	20	0	2	5	10	9	0	6
+		-		+		-			+		-		+		-	
27	8	3	8	4	1	0	7	IV 0 X	19	8	4	2	10	8	0	7
26	7	6	7	3	2	2	1	10	19	1	5	7	9	9	2	1
24	8	9	5	2	0	3	6	20	17	9	7	1	8	4	3	6
22	2	12	1	0	6	4	9	V 0 XI	16	0	8	3	6	6	4	9
+		-		+		-			+		-		+		-	
18	8	14	1	0	9	6	4	10	13	7	9	3	4	5	6	3
14	9	15	9	2	3	7	4	20	10	9	9	9	2	0	7	4
+		-		+		-			+		-		+		-	
10	5	17	1	3	7	8	1	VI 0 0	7	8	10	3	0	5	8	1

Primum Signorum — + vel + — responderet sex primis Signis Argumentorum: secundum Signum, sex posterioribus Signis eorundem Argumentorum.

303. ♉ Sagittarii 5.

1780

304. ♉ Sagittarii 4.

Ascensio Recta 9° 25' 34" 53"  
 Variatio annua + 55. 36  
 Declinatio 26° 51' 57" 80 A.  
 Variatio annua — 8. 56.

Argument.  
 quo  
 Aberratio  
 ne  
 Longitudo  
 Solis.

Ascensio Recta 9° 25' 51" 26"  
 Variatio annua + 55. 72.  
 Declinatio 27° 44' 6" 20 A  
 Variatio annua — 8. 64.

Aberra- tio in Ascens. Rectam.				Aberra- tio in Declina- tion.				Nutatio in Ascens. Rectam.				Nutatio in Declina- tion.				Argument. pro Nutatione Locus Ω Ascend.	Aberra- tio in Ascens. Rectam.		Aberra- tio in Declina- tion.		Nutatio in Ascens. Rectam.		Nutatio in Declina- tion.						
—	+	—	+	+	—	+	—	—	+	—	+	—	+	—	+	S. G. S.	—	+	—	+	—	+	—	+					
8	6	2	4	—	+	8	8	1	0	0	VI	8	9	0	6	1	9	8	1	8	6	2	4	—	+	8	8		
5	2	2	9	1	5	8	7	10	5	8	7	10	5	3	1	3	1	6	8	7	1	2	9	1	5	8	7		
1	2	3	2	4	9	8	9	20	1	6	2	20	1	6	2	0	5	0	8	9	2	3	2	4	9	8	7		
+	—	+	—	+	—	+	—	+	—	+	—	+	—	+	—	I 0 VII	2	2	2	7	8	1	8	7	+	—	+	—	
2	7	3	7	8	0	8	7	1	10	6	0	1	10	6	0	3	3	11	9	8	1	8	7	—	+	—	+		
6	4	3	9	10	8	8	1	10	6	0	3	10	6	0	3	3	11	9	8	1	1	1	1	—	+	—	+		
10	0	4	0	12	7	7	3	20	9	7	3	20	9	7	3	6	12	8	7	4	1	1	1	—	+	—	+		
13	3	4	0	14	3	6	4	10	13	0	4	10	13	0	4	0	14	4	6	5	1	1	1	—	+	—	+		
16	2	3	9	14	7	5	0	20	16	0	4	20	16	0	4	1	14	8	5	1	1	1	1	—	+	—	+		
18	5	3	7	14	8	4	0	20	18	4	4	20	18	4	4	2	14	9	4	1	1	1	1	—	+	—	+		
20	3	3	2	14	5	2	9	10	20	3	4	10	20	3	4	2	14	6	2	9	1	1	1	—	+	—	+		
21	6	2	9	14	8	1	9	10	21	6	4	10	21	6	4	0	14	9	1	9	1	1	1	—	+	—	+		
22	1	2	4	15	5	0	6	20	22	1	3	20	22	1	3	6	15	6	0	7	1	1	1	—	+	—	+		
21	9	1	7	15	7	0	7	10	21	1	3	10	21	1	3	3	15	8	0	6	1	1	1	—	+	—	+		
21	1	1	0	14	9	2	1	10	21	3	2	10	21	3	2	7	15	0	2	0	1	1	1	—	+	—	+		
19	7	0	3	13	5	3	6	20	19	9	2	20	19	9	2	0	13	6	3	5	1	1	1	—	+	—	+		
17	4	0	3	11	2	4	9	V 0 XI	17	0	1	3	V 0 XI	17	0	1	3	11	3	4	8	1	1	1	1	—	+	—	+
15	1	1	0	8	5	6	3	10	15	4	0	10	15	4	0	6	8	6	6	2	1	1	1	—	+	—	+		
12	1	1	7	5	5	7	4	20	12	4	0	20	12	4	0	1	5	6	7	3	1	1	1	—	+	—	+		
8	6	2	4	1	8	8	1	VI 0 0	8	9	0	6	VI 0 0	8	9	0	6	1	9	8	1	1	1	1	1	—	+	—	+

Primum Signorum — + vel + — respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.

305.  $\beta$  Aquilæ 3.

1780

306.  $\alpha$  Sagittarii. 5.

Ascensio Recta  $9^{\circ} 26' 7'' 39 \frac{1}{2}$   
 Variatio annua  $+ 44. 33.$   
 Declination  $5^{\circ} 52' 27'' 20 B.$   
 Variatio annua  $+ 8. 76.$

Argument.  
 pro  
 Aberratione  
 Longitude  
 Solis

Ascensio Recta  $9^{\circ} 26' 22'' 59''$   
 Variatio annua  $+ 55. 26.$   
 Declinatio  $26^{\circ} 46' 24'' 80 A$   
 Variatio annua  $- 8. 81.$

Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion	Argument. pro Nutatione Locus $\delta$ Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tio.	Nutatio in Ascens. Declam.	Nutatio in Declina- tion.
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-	+	-	+	-	+	-	+	S. G. S.	-	+	-	+	-	+	-
8	0	9	7	0	4	8	1	O o VI	9	0	0	1	8	1	8
4	8	9	7	3	0	8	7	10	5	4	0	8	1	5	8
I	4	9	4	5	4	8	9	20	I	6	1	5	4	9	8
+	-	1	8	9	7	5	8	I o VII	+	2	2	2	8	0	8
5	5	8	0	9	5	8	1	10	6	0	2	7	10	8	8
8	7	6	9	10	7	7	4	20	9	8	3	2	12	7	7
II	7	5	5	II	5	6	5	II o VIII	12	9	3	6	14	3	6
14	2	4	5	II	5	5	2	10	16	0	3	8	14	7	5
16	5	2	5	II	4	4	2	20	18	4	4	0	14	8	4
18	2	0	9	10	7	2	9	III o IX	20	3	4	0	14	5	2
19	2	0	9	II	0	1	9	10	21	6	3	9	14	8	1
19	7	2	5	II	1	0	8	20	22	1	3	8	15	5	0
19	7	4	1	II	0	0	5	IV o X	22	1	3	4	15	7	0
19	0	5	5	10	2	2	0	10	21	3	3	0	14	9	2
17	9	6	9	8	7	3	5	20	20	0	2	5	13	5	3
16	1	8	0	6	9	4	8	V o XI	18	0	1	9	11	2	4
13	8	8	9	4	6	6	2	10	15	5	1	2	8	5	6
II	1	9	4	2	1	7	3	20	12	4	0	6	5	5	7
8	0	9	7	0	4	1	8	VI o O	9	0	0	1	1	8	8

Primum Signorum — + vel — + respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.



307. ♀ Draconis 5.				1780		308. ♀ Aquilæ 3			
Ascensio Recta 9° 27' 19" 48" $\frac{1}{2}$				Argument. pro Aberratione Longitudo Solis		Ascensio Recta 9° 29' 59" 19"			
Variatio annua — 1 92.						Variatio annua + 46. 64.			
Declinatio 69° 42' 36" 40. B.						Declinatio 1° 27' 38. 00 A.			
Variatio annua + 9. 17.						Variatio annua — 9. 95.			
Aberratio in Ascensio Rectam.	Aberratio in Declinationo.	Nutatio in Ascensio Rectam.	Nutatio in Declinationo.	Argument. pro Nutatione Locus $\Omega$ Ascend.	Aberratio in Ascensio Rectam.	Aberratio in Declinationo.	Nutatio in Ascensio Rectam.	Nutatio in Declinationo.	
— + — + — +	— + — + — +	— + — + — +	— + — + — +	S. G. S.	— + — + — +	— + — + — +	— + — + — +	— + — + — +	
24 0 18 1 11 2 8 1	0 18 1 11 2 8 1	0 18 1 11 2 8 1	0 18 1 11 2 8 1	0 0 VI	9 2 7 6 0 1 7 8	9 2 7 6 0 1 7 8	9 2 7 6 0 1 7 8	9 2 7 6 0 1 7 8	
14 5 19 3 10 0 8 7	5 19 3 10 0 8 7	5 19 3 10 0 8 7	5 19 3 10 0 8 7	10	6 1 7 4 2 6 8 4	6 1 7 4 2 6 8 4	6 1 7 4 2 6 8 4	6 1 7 4 2 6 8 4	
4 8 19 2 8 0 8 9	8 19 2 8 0 8 9	8 19 2 8 0 8 9	8 19 2 8 0 8 9	20	2 8 7 1 5 2 8 8	2 8 7 1 5 2 8 8	2 8 7 1 5 2 8 8	2 8 7 1 5 2 8 8	
4 8 19 2 8 0 8 9	8 19 2 8 0 8 9	8 19 2 8 0 8 9	8 19 2 8 0 8 9	10 0 VII	0 7 6 5 7 6 8 7	0 7 6 5 7 6 8 7	0 7 6 5 7 6 8 7	0 7 6 5 7 6 8 7	
14 5 19 3 10 0 8 7	5 19 3 10 0 8 7	5 19 3 10 0 8 7	5 19 3 10 0 8 7	10	4 1 5 6 9 8 8 3	4 1 5 6 9 8 8 3	4 1 5 6 9 8 8 3	4 1 5 6 9 8 8 3	
24 0 18 1 11 2 8 1	0 18 1 11 2 8 1	0 18 1 11 2 8 1	0 18 1 11 2 8 1	20	7 3 4 6 11 2 7 7	7 3 4 6 11 2 7 7	7 3 4 6 11 2 7 7	7 3 4 6 11 2 7 7	
32 3 16 4 0 4 6 5	3 16 4 0 4 6 5	3 16 4 0 4 6 5	3 16 4 0 4 6 5	10 VIII	10 4 3 6 12 1 6 8	10 4 3 6 12 1 6 8	10 4 3 6 12 1 6 8	10 4 3 6 12 1 6 8	
40 0 14 1 1 1 5 2	0 14 1 1 1 5 2	0 14 1 1 1 5 2	0 14 1 1 1 5 2	10	13 1 2 4 12 1 5 5	13 1 2 4 12 1 5 5	13 1 2 4 12 1 5 5	13 1 2 4 12 1 5 5	
46 3 11 5 2 9 4 2	3 11 5 2 9 4 2	3 11 5 2 9 4 2	3 11 5 2 9 4 2	20	15 5 1 1 12 1 4 5	15 5 1 1 12 1 4 5	15 5 1 1 12 1 4 5	15 5 1 1 12 1 4 5	
51 4 8 4 4 8 3 0	4 8 4 4 8 3 0	4 8 4 4 8 3 0	4 8 4 4 8 3 0	10 IX	17 3 0 3 11 4 3 4	17 3 0 3 11 4 3 4	17 3 0 3 11 4 3 4	17 3 0 3 11 4 3 4	
54 6 5 2 6 3 2 1	6 5 2 6 3 2 1	6 5 2 6 3 2 1	6 5 2 6 3 2 1	10	18 6 1 6 11 9 2 5	18 6 1 6 11 9 2 5	18 6 1 6 11 9 2 5	18 6 1 6 11 9 2 5	
56 4 1 7 5 0 9	4 1 7 5 0 9	4 1 7 5 0 9	4 1 7 5 0 9	20	19 4 2 8 12 0 1 3	19 4 2 8 12 0 1 3	19 4 2 8 12 0 1 3	19 4 2 8 12 0 1 3	
56 4 1 7 9 1 0 4	4 1 7 9 1 0 4	4 1 7 9 1 0 4	4 1 7 9 1 0 4	10 X	19 6 4 0 12 0 0 1	19 6 4 0 12 0 0 1	19 6 4 0 12 0 0 1	19 6 4 0 12 0 0 1	
54 6 5 2 10 3 1 9	6 5 2 10 3 1 9	6 5 2 10 3 1 9	6 5 2 10 3 1 9	10	19 2 5 1 11 2 1 5	19 2 5 1 11 2 1 5	19 2 5 1 11 2 1 5	19 2 5 1 11 2 1 5	
51 4 8 4 11 3 3 3	4 8 4 11 3 3 3	4 8 4 11 3 3 3	4 8 4 11 3 3 3	20	18 2 6 0 9 8 2 8	18 2 6 0 9 8 2 8	18 2 6 0 9 8 2 8	18 2 6 0 9 8 2 8	
46 3 11 5 12 0 4 7	3 11 5 12 0 4 7	3 11 5 12 0 4 7	3 11 5 12 0 4 7	10 XI	16 6 6 8 7 8 4 4	16 6 6 8 7 8 4 4	16 6 6 8 7 8 4 4	16 6 6 8 7 8 4 4	
40 0 14 1 12 2 6 1	0 14 1 12 2 6 1	0 14 1 12 2 6 1	0 14 1 12 2 6 1	10	14 6 7 2 5 4 5 8	14 6 7 2 5 4 5 8	14 6 7 2 5 4 5 8	14 6 7 2 5 4 5 8	
32 3 16 4 12 6 7 2	3 16 4 12 6 7 2	3 16 4 12 6 7 2	3 16 4 12 6 7 2	20	12 0 7 5 2 8 6 8	12 0 7 5 2 8 6 8	12 0 7 5 2 8 6 8	12 0 7 5 2 8 6 8	
24 0 18 1 11 2 8 1	0 18 1 11 2 8 1	0 18 1 11 2 8 1	0 18 1 11 2 8 1	10 0 0	9 2 7 6 0 1 7 8	9 2 7 6 0 1 7 8	9 2 7 6 0 1 7 8	9 2 7 6 0 1 7 8	

Primum Signorum — + vel + — respondet sex primis Signis Argumentorum: secundum Signum, sex posterioribus Signis eorundem Argumentorum,

309 ♄ Draconis 5

1780

310 I ♄ Capricorni 4

Ascensio Recta 10° 0' 26' 33"  
 Variatio annua + 5 60  
 Declinatio 67° 14' 53" 00R.  
 Variatio annua + 10. 15.

Argument  
 pro  
 Aberratio-  
 ne  
 Longitudo  
 Solis

Ascensio Recta 10° 1' 21' 41"  
 Variatio annua + 50 20  
 Declinatio 13° 10' 26" 00A.  
 Variatio annua - 10 40

Aberratio in Ascensio Rectam.	Aberratio in Declination.	Notatio in Ascensio Rectam.	Notatio in Declination.	Argument pro Notatione Locus ♄ Ascend.	Aberratio in Ascensio Rectam.	Aberratio in Declination.	Notatio in Ascensio Rectam.	Notatio in Declination.
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-	+	-	+	-	+	-	+	S. G. S.	-	+	-	+	-	+	-	+	-
23	6	17	9	10	7	7	8	0 0 VI	9	7	4	1	1	0	7	7	
15	6	19	1	9	9	8	4	10	6	5	3	5	1	9	8	4	
0	8	19	8	9	0	8	8	20	3	1	2	9	4	9	8	8	
+	-								+	-							
1	8	20	0	7	9	8	7	I 0 VII	0	4	2	2	7	6	8	7	
10	6	19	5	6	1	8	3	10	3	8	1	4	9	9	8	3	
19	0	18	4	4	0	7	7	20	7	2	0	5	11	7	7	7	
26	7	16	8	2	9	6	8	II 0 VIII	10	3	0	3	12	8	6	8	
33	7	14	6	0	7	5	5	10	13	2	1	2	13	1	5	6	
39	7	12	0	0	0	4	5	20	15	7	2	0	13	1	4	5	
				+	-												
44	5	9	1	1	9	3	4	III 0 IX	17	6	2	8	12	7	3	5	
48	0	5	9	3	4	2	5	10	18	9	3	4	13	0	2	6	
50	1	2	4	4	4	1	3	20	19	9	4	0	13	4	1	4	
50	5	1	0	6	6	0	1	IV 0 X	20	1	4	4	13	5	0	1	
						+	-										
49	4	4	5	7	2	1	5	10	19	8	4	7	12	8	1	4	
46	8	7	8	8	2	2	8	20	18	8	4	8	11	4	2	7	
42	6	10	9	9	5	4	4	V 0 IX	17	3	4	8	9	4	4	3	
37	5	13	7	10	2	5	8	10	15	1	2	4	6	6	8	7	
31	0	16	0	11	4	6	8	20	12	7	4	4	4	1	6	8	
23	6	17	9	10	7	7	8	VI 0 0	9	7	4	1	1	0	7	7	

Primum Signorum — + vel + — respondet sex primis Signis Argumentorum: secundum Signum, sex posterioribus Signis eorundem Argumentorum.

311. 2 α Capricorni 3.

1780

312. σ Capricorni 5.

Ascensio Recta 10° 1' 27' 35"  
 Variatio annua + 50. 20.  
 Declinatio 13° 12' 45" co A  
 Variatio annua — 10. 40.

Argument.  
 pro  
 Aberratio  
 ne  
 Longitudo  
 Solis

Ascen. Recta { 10° 1' 40' 10"  
 10° 1' 40' 39"  
 Variatio annua + 52. 35.  
 Declinatio 19° 47' 25" 40. A  
 Variatio annua — 10. 43.

Aberra- tio in Ascen- sionem.	Aberra- tio in Declina- tionem.	Nutatio in Ascen- sionem.	Nutatio in Declina- tionem.	Argument. pro Nutatione Locus Ω Ascend.	Aberra- tio in Ascen- sionem.	Aberra- tio in Declina- tionem.	Nutatio in Ascen- sionem.	Nutatio in Declina- tionem.
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-	+	+	-	+	-	+	-	S. G. S.	-	+	+	-	+	-	+	-
9	7	4	1	1	0	7	7	O o VI	9	9	2	3	1	6	7	7
6	5	3	7	1	9	8	4	10	6	7	1	6	1	6	8	4
3	1	3	2	4	9	8	8	20	3	2	0	8	4	6	8	8
+	-								+	-						
0	4	2	4	7	6	8	7	I o VII	0	4	0	1	7	6	8	7
3	8	1	8	9	9	8	3	10	3	9	0	6	10	1	8	3
7	2	0	9	11	7	7	7	20	7	4	1	2	12	0	7	7
10	3	0	0	12	8	6	8	II o VIII	10	7	2	0	13	3	6	8
13	2	0	9	13	1	5	6	10	13	7	2	6	13	7	5	6
15	7	1	8	13	1	4	5	20	16	3	3	1	13	7	4	5
17	6	2	4	12	7	3	5	III o IX	18	3	3	6	13	5	3	5
18	9	3	2	13	0	2	6	10	19	6	4	0	13	8	2	6
19	9	3	7	13	4	1	4	20	20	6	4	1	14	4	1	4
20	1	4	1	13	5	0	1	IV o X	20	8	4	2	14	5	0	1
19	8	4	6	12	8	1	4	10	20	4	4	2	13	7	1	4
18	8	4	7	11	4	2	7	20	19	4	4	0	12	5	2	7
17	3	4	8	9	4	1	3	V o XI	17	8	3	8	10	3	4	3
15	2	4	7	6	8	5	7	10	15	6	3	4	7	7	5	7
12	7	4	6	4	1	0	8	20	13	0	2	8	5	0	6	8
9	7	4	1	1	0	7	7	VI o O	9	9	2	3	1	6	7	7

Primum Signorum — + vel + — respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.



313 $\beta$ Capricorni 3				1780	314 $\zeta$ Capricorni 5											
Ascensio Recta 10 <sup>o</sup> 2' 9" 20"				Argument. pro Aberratio- ne Longitudo Solis	Ascensio Recta 10 <sup>o</sup> 4' 4" 30 $\frac{1}{2}$ "											
Variatio annua + 50. 30.					Variatio annua + 51" 78.											
Declinatio 15 <sup>o</sup> 27' 43" 00 A.				Argument. pro Nutatione Locus $\alpha$ 3 Ascend.	Declinatio 18 <sup>o</sup> 31' 35" 00 A.											
Variatio annua - 10. 60.					Variatio annua - 11. 15.											
Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus $\alpha$ 3 Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.								
-	+	+	-	S. G. S.	-	+	+	-								
10	2	3	9	1	1	7	6	00 VII	10	9	2	7	1	8	7	5
								10	7	7	2	1	1	4	8	2
								20	4	3	1	4	4	6	8	8
								10 VII	0	8	0	6	7	3	8	9
								10	+	-	-	+	9	9	8	7
								20	7	0	0	2	11	9	8	1
								10 VIII	6	4	1	0	11	9	8	
								10	9	7	1	8	11	2	7	3
								20	12	2	4	13	4	6	4	0
								10 IX	15	3	3	1	13	6	5	0
								20	17	5	3	6	13	3	3	9
								10	19	1	4	1	13	6	2	8
								20	20	2	4	4	14	2	1	8
								10 X	20	6	4	5	14	3	0	6
								10	20	4	4	5	13	7	1	0
								20	19	6	4	4	12	4	2	2
								10 XI	18	2	4	2	10	3	3	7
								10	16	4	3	8	7	8	5	1
								20	13	8	3	3	4	8	6	4
								10 O	10	9	2	7	1	8	7	5

Primum Signorum - + vel + - responderet sex primis Signis  
Argumentorum: secundum Signum, sex posterioribus Signis  
eorundem Argumentorum.



315. v Capricorni 6.

1780

316. α Delphini 3.

Ascensio Recta 10° 6' 52' 33"  
 Variatio annua + 51. 70.  
 Declinatio 18° 53' 57" 80.A  
 Variatio annua — 11. 96.

Argument.  
 pro  
 Aberratio-  
 ne  
 Longitudo  
 Solis.

Ascensio Recta 10° 7' 21' 24"  
 Variatio annua + 41. 87.  
 Declinatio 15° 8' 49" 00. B  
 Variatio annua + 12. 10.

Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus δ D Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.
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—	+	+	—	+	—	+	—	S. G. S.	—	+	—	+	—	+	—	+
11	4	2	6	1	8	7	2	0 0 VI	11	5	11	5	1	4	7	2
								10	8	4	11	9	4	0	8	0
								20	5	2	11	9	6	2	8	6
								I 0 VII	1	7	11	5	7	9	8	7
								10	1	7	10	8	9	7	8	4
								20	5	2	9	8	10	6	7	9
								II 0 VIII	8	4	8	5	11	1	7	2
								10	11	5	6	9	10	9	6	1
								20	14	2	5	1	10	8	5	1
								III 0 IX	16	5	3	1	9	8	4	1
								10	18	2	1	0	10	0	3	1
								20	19	4	1	0	9	9	2	2
								IV 0 X	20	0	3	1	9	8	1	1
								10	20	0	5	1	8	8	0	4
								20	19	4	6	9	7	3	1	9
								V 0 XI	18	2	8	5	5	5	3	5
								10	16	5	9	8	3	2	4	9
								20	14	2	10	8	0	8	6	1
								VI 0 0	11	5	11	5	1	4	7	2

Primum Signum — + vel + — respondet sex primis Signis  
 Argumentorum : secundum Signum sex posterioribus Signis  
 eorundem Argumentorum.

317. α Cygni I.				1780	318. ε Aquarii 4.			
Ascensio Recta 10° 8' 29 6 1/2				Argument. pro Aberratione Longitude Solis.	Ascensio Recta 10° 8' 56' 22''			
Variatio annua + 30. 75.					Variatio annua + 49. 05.			
Declinatio 44° 30' 6'' 80. B.					Declinatio 10° 17' 17'' 90. A.			
Variatio annua + 12. 44.				Variatio annua --- 12. 53.				
Aberra- tio in Ascens. Rectam	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.	Argument pro Nutatione Locus ☉ & Ascens.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.
- +	- +	- +	- +	S. G. S.	- +	- +	- +	- +
15 9	15 9	5 3	7 1	0 0 VI	11 5	5 6	1 0	7 0
11 8	17 2	6 8	7 9	I	8 6	5 0	1 9	7 9
7 4	17 9	7 9	8 5	20	5 4	4 4	4 8	8 5
2 8	18 1	8 8	8 6	I 0 VI	2 1	3 6	7 4	8 6
+ -	- +	- +	- +	10	+ -	- +	- +	- +
1 9	17 7	9 4	8 4	20	1 4	2 7	9 7	8 4
6 5	16 8	9 4	8 0	20	4 7	1 7	11 3	8 0
11 0	15 2	9 2	7 2	II 0 VIII	7 9	0 8	12 5	7 2
15 1	13 4	8 3	6 2	10	10 9	0 3	12 6	6 2
18 7	11 1	7 2	5 2	20	13 6	1 3	12 7	5 2
21 8	8 5	6 5	4 2	III 0 IX	15 9	2 3	12 2	4 2
24 3	5 6	6 1	3 3	10	17 7	3 3	12 7	3 5
26 0	2 5	5 6	2 3	20	18 8	4 1	13 0	2 3
26 9	0 7	4 5	1 2	IV 0 X	19 5	4 7	13 1	1 3
26 9	3 8	3 2	0 2	10	19 5	5 5	12 3	0 1
26 2	6 7	1 5	1 8	20	19 0	5 7	10 9	1 7
24 7	9 5	0 1	3 3	V 0 XI	18 0	6 0	9 0	3 2
22 4	12 1	2 1	4 8	10	16 3	6 0	6 6	4 7
19 4	14 1	4 0	6 0	20	14 1	5 8	3 8	5 9
15 9	15 9	5 8	7 1	VI 0 0	11 5	5 6	1 0	7 0

Primum Signorum — + vel + — respondet sex primis Signis  
Argumentorum: secundum Signum, sex posterioribus Signis  
eorundem Argumentorum.

319. ε Cygni 3.

1780

320. μ Aquarii 4.

Ascensio Recta 10° 9' 19" 40"  
 Variatio annua + 36. 04.  
 Declinatio 33° 9' 7" 20. E  
 Variatio annua + 12. 66.

Argument.  
 pro  
 Aberratio-  
 ne  
 Longitudo  
 Solis.

Ascensio Recta 10° 10' 11" 40<sup>1</sup>/<sub>2</sub>  
 Variatio annua + 48. 87.  
 Declinatio 9° 47' 46" 10. A  
 Variatio annua — 12. 87.

Aberratio in Ascensu Rectam.				Aberratio in Declinatione.				Nutatio in Ascensu Rectam.				Nutatio in Declinatione.				Argument. pro Nutatione Locus ☉ Ascend.	Aberratio in Ascensu Rectam.		Aberratio in Declinatione.		Nutatio in Ascensu Rectam.		Nutatio in Declinatione.					
—	+	—	+	—	+	—	+	—	+	—	+	—	+	—	+	S. G. S.	—	+	—	+	—	+	—	+	—	+	—	+
13	9	14	4	3	7	7	0									U O VI	11	7	5	0	—	+	1	0	0	0	0	9
10	0	15	4	5	6	7	9									10	8	9	5	0	1	9	7	8	8	8		
6	3	15	9	5	0	8	5									20	5	8	4	4	4	4	7	8	4	4		
2	4	16	0	8	5	8	6									I O VII	2	4	3	6	7	3	8	8	6	6		
+	—																+	—										
1	6	15	5	9	7	8	4									10	1	0	2	7	9	7	8	4	4	4		
5	6	14	6	10	0	8	0									20	4	4	1	7	11	3	8	0	0	0		
9	3	13	3	10	2	7	2									10 VIII	7	6	0	8	12	5	7	0	0	0		
13	9	11	5	9	7	6	2									10	10	6	0	3	12	6	6	2	2	2		
16	0	9	4	9	0	5	2									20	13	4	1	3	12	7	5	0	0	0		
18	7	7	0	8	0	4	2									III O IX	15	5	2	3	12	2	4	5	5	5		
20	8	4	4	7	7	3	5									10	17	5	3	3	12	7	3	5	5	5		
22	2	1	7	7	5	2	3									20	18	7	4	1	13	0	2	5	5	5		
23	0	1	1	7	2	1	3									IV O X	19	4	4	7	13	1	1	5	5	5		
23	0	3	9	5	8	0	1									10	19	3	5	4	12	3	0	0	0	0		
22	4	6	5	4	3	1	7									20	19	0	5	7	10	9	1	6	6	6		
21	1	9	0	2	4	3	2									V O XI	18	1	6	0	9	0	3	0	0	0		
19	2	11	1	0	2	4	7									10	16	5	6	0	6	6	4	5	5	5		
16	6	12	9	1	6	5	9									20	14	3	5	8	3	9	5	8	8	8		
13	9	14	4	3	7	7	0									VI O O	11	7	5	6	1	0	6	9	9	9		

Primum Signorum — + vel + — respondet sex primis Signis  
 Argumentorum : secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum,





323. ♁ Capricorni 4.

1780

324. ♁ Capricorni 5.

Ascensio Recta 10° 13' 23" 26"  
 Variatio annua + 51.00.  
 Declinatio 18° 5' 38" 30 A.  
 Variatio annua — 13. 71.

Argument.  
 pro  
 Aberatio-  
 ne  
 Longitudo  
 Solis

Ascensio Recta 10° 13' 59" 1" 1/2  
 Variatio annua + 52 07  
 Declinatio 22° 3' 59" 00 A.  
 Variatio annua — 13 55

Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion	Argument. pro Nutatione Locus ♁ ♁ Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion
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—	+	+	—	+	+	—	S. G. S.	—	+	+	—	+	—
13	3	3	4	2	0	6	0 0 VI	14	0	2	5	2	6
					+							+	
10	4	2	6	1	1	7	10	11	0	1	5	0	7
7	3	1	7	4	1	8	20	7	9	0	5	3	8
											+		
3	8	0	9	7	1	8	0 0 VII	4	2	0	5	6	9
0	4	0	1	9	6	8	10	0	8	1	5	9	4
+	—							+	—				
3	1	1	1	11	3	8	20	2	9	2	5	11	4
6	6	1	9	12	7	7	10 VIII	6	5	3	5	12	8
9	8	2	8	13	1	6	10	9	8	4	2	13	3
12	8	3	6	13	2	5	20	12	8	4	9	13	5
15	3	4	2	13	0	4	10 IX	15	5	5	4	13	3
17	4	4	8	13	3	3	10	17	7	5	7	13	8
19	0	5	1	14	0	2	20	19	3	5	9	14	5
20	0	5	3	14	3	1	10 X	20	4	5	9	14	9
20	3	5	4	13	6	0	10	20	8	5	7	14	2
													+
20	1	5	4	12	3	1	20	20	6	5	4	12	9
19	1	5	1	10	3	2	10 XI	19	7	4	9	10	9
17	8	4	7	7	8	4	10	18	3	4	2	8	5
15	8	4	1	5	0	5	20	16	5	3	5	5	7
13	3	3	4	2	0	6	10 0 0	14	0	2	5	2	6

Primum Signum — + vel + — respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.

325. ♃ Aquarii 5.

1780

326. ♄ Capricorni 5.

Ascensio Recta 10° 14' 23" 36"  
 Variatio annua + 48. 30.  
 Declinatio 12° 15' 4" 20. A  
 Variatio annua - 13. 94.

Argument.  
 pro  
 Aberratio-  
 ne  
 Longitudo  
 Solis.

Ascensio Recta 10° 15' 46" 20"  
 Variatio annua + 51. 74.  
 Declinatio 21° 33' 23" 00. A  
 Variatio annua - 14. 30.

Aberra- tio in Ascens. Reclam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Reclam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus ♄ ♃ Ascend.	Aberra- tio in Ascens. Reclam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Reclam.	Nutatio in Declina- tion.										
-	+	+	-	S. G. S	-	+	+	-	+	-	+	-						
13	0	5	0	2	5	6	5	0	0	VI	14	0	2	7	2	6	6	3
10	3	4	5	0	8	7	5	10	11	2	1	7	0	6	7	8	4	
7	5	3	9	3	8	8	1	20	8	0	0	8	3	8	8	8	0	
4	1	2	9	6	9	8	4	I 0 VII	4	6	0	3	6	8	8	8	4	
0	8	2	0	9	4	8	4	10	1	0	1	3	9	3	8	4		
+	-								+	-								
3	0	1	0	11	4	8	1	20	2	4	2	3	11	4	8	1		
6	0	0	0	12	9	7	4	II 0 VIII	6	0	3	3	12	7	7	4		
9	1	1	0	13	5	6	5	10	9	3	4	1	13	2	6	5		
11	9	2	0	13	8	5	7	20	11	7	4	7	13	5	5	8		
14	5	2	9	13	5	4	7	III 0 IX	14	9	5	4	13	2	4	8		
16	6	3	9	13	9	3	9	10	17	1	5	7	13	8	4	0		
18	2	4	5	14	5	3	0	20	18	8	6	0	14	5	3	1		
19	2	5	0	14	9	1	9	IV 0 X	19	9	6	0	14	8	2	0		
19	7	5	5	14	2	0	6	10	20	4	5	8	14	2	0	8		
19	5	5	7	12	9	0	9	20	20	2	5	6	12	9	0	7		
18	6	5	8	10	9	2	4	V 0 XI	19	5	5	0	11	0	2	2		
17	2	5	7	8	5	3	9	10	18	2	4	4	8	5	3	8		
16	4	5	5	5	7	5	3	20	16	2	3	6	5	7	5	1		
13	0		0	2	6	6	5	VI 0 0	14	0	2	7	2	6	6	3		
		5																

Primum Signorum - + vel + - respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.

327. 29 Capricorni 5.				1780	328. α Equulei 5.			
Ascensio Recta 10° 15' 53" 19"				Argument. pro Aberratio- ne Longitudo Solis	Ascensio Recta 10° 16' 12" 26"			
Variatio annua + 50. 24.					Variatio annua + 45. 14.			
Declinatio 16° 4' 26" 40. A				Declinatio 4° 20' 55" 40. B				
Variatio annua — 14. 33.				Variatio annua + 14. 42.				
Aberra- tio in Ascens. Reclam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Reclam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus R Ascend.	Aberra- tio in Ascens. Reclam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Reclam.	Nutatio in Declina- tion.
— + + — + — + —	— + + — + — + —	— + + — + — + —	— + + — + — + —	S. G. S.	— + — + — + — + —	— + — + — + — + —	— + — + — + — + —	— + — + — + — + —
13 7 4 1 1 9 6 3	10 9 3 4 1 2 7 4	7 8 2 6 4 2 8 0	4 5 1 6 7 0 8 4	O o VI	13 1 8 8 0 5 6 2	10 4 8 8 3 1 7 3	7 4 8 6 5 5 8 0	4 3 8 0 7 8 8 4
1 0 0 0 6 9 4 8 4	1 0 0 0 6 9 4 8 4	1 0 0 0 6 9 4 8 4	1 0 0 0 6 9 4 8 4	I o VII	4 0 9 7 4 9 7 8 4	4 0 9 7 4 9 7 8 4	4 0 9 7 4 9 7 8 4	4 0 9 7 4 9 7 8 4
+ 2 4 0 0 4 11 3 8 1	+ 2 4 0 0 4 11 3 8 1	+ 2 4 0 0 4 11 3 8 1	+ 2 4 0 0 4 11 3 8 1	20	2 3 6 4 11 1 8 1	2 3 6 4 11 1 8 1	2 3 6 4 11 1 8 1	2 3 6 4 11 1 8 1
5 9 1 4 12 5 7 4 4	5 9 1 4 12 5 7 4 4	5 9 1 4 12 5 7 4 4	5 9 1 4 12 5 7 4 4	II o VIII	5 6 5 2 11 9 7 4	5 6 5 2 11 9 7 4	5 6 5 2 11 9 7 4	5 6 5 2 11 9 7 4
4 1 2 3 12 9 6 5 8	4 1 2 3 12 9 6 5 8	4 1 2 3 12 9 6 5 8	4 1 2 3 12 9 6 5 8	10	8 7 3 9 11 8 6 5	8 7 3 9 11 8 6 5	8 7 3 9 11 8 6 5	8 7 3 9 11 8 6 5
12 0 3 3 13 1 5 8 8	12 0 3 3 13 1 5 8 8	12 0 3 3 13 1 5 8 8	12 0 3 3 13 1 5 8 8	20	11 5 2 5 11 7 5 8	11 5 2 5 11 7 5 8	11 5 2 5 11 7 5 8	11 5 2 5 11 7 5 8
14 6 4 1 12 7 4 8 8	14 6 4 1 12 7 4 8 8	14 6 4 1 12 7 4 8 8	14 6 4 1 12 7 4 8 8	III o IX	14 0 0 9 11 0 4 8	14 0 0 9 11 0 4 8	14 0 0 9 11 0 4 8	14 0 0 9 11 0 4 8
16 8 4 8 13 2 4 0 10	16 8 4 8 13 2 4 0 10	16 8 4 8 13 2 4 0 10	16 8 4 8 13 2 4 0 10	10	16 2 0 6 11 2 4 1	16 2 0 6 11 2 4 1	16 2 0 6 11 2 4 1	16 2 0 6 11 2 4 1
18 4 5 2 13 7 3 1 20	18 4 5 2 13 7 3 1 20	18 4 5 2 13 7 3 1 20	18 4 5 2 13 7 3 1 20	20	17 7 2 2 11 4 3 2	17 7 2 2 11 4 3 2	17 7 2 2 11 4 3 2	17 7 2 2 11 4 3 2
19 5 5 6 13 9 2 0 0	19 5 5 6 13 9 2 0 0	19 5 5 6 13 9 2 0 0	19 5 5 6 13 9 2 0 0	IV o X	18 7 3 6 11 3 2 1	18 7 3 6 11 3 2 1	18 7 3 6 11 3 2 1	18 7 3 6 11 3 2 1
20 0 5 8 13 2 0 8 10	20 0 5 8 13 2 0 8 10	20 0 5 8 13 2 0 8 10	20 0 5 8 13 2 0 8 10	10	19 2 4 9 10 4 1 0	19 2 4 9 10 4 1 0	19 2 4 9 10 4 1 0	19 2 4 9 10 4 1 0
19 8 5 8 11 9 0 7 20	19 8 5 8 11 9 0 7 20	19 8 5 8 11 9 0 7 20	19 8 5 8 11 9 0 7 20	20	19 0 6 1 9 0 0 6	19 0 6 1 9 0 0 6	19 0 6 1 9 0 0 6	19 0 6 1 9 0 0 6
19 1 5 6 10 1 2 2 2	19 1 5 6 10 1 2 2 2	19 1 5 6 10 1 2 2 2	19 1 5 6 10 1 2 2 2	V o XI	18 3 7 1 7 1 2 1	18 3 7 1 7 1 2 1	18 3 7 1 7 1 2 1	18 3 7 1 7 1 2 1
17 9 5 3 7 5 3 8 10	17 9 5 3 7 5 3 8 10	17 9 5 3 7 5 3 8 10	17 9 5 3 7 5 3 8 10	10	17 2 8 0 4 7 3 7	17 2 8 0 4 7 3 7	17 2 8 0 4 7 3 7	17 2 8 0 4 7 3 7
16 0 4 8 4 8 5 1 20	16 0 4 8 4 8 5 1 20	16 0 4 8 4 8 5 1 20	16 0 4 8 4 8 5 1 20	20	15 3 8 5 2 1 5 0	15 3 8 5 2 1 5 0	15 3 8 5 2 1 5 0	15 3 8 5 2 1 5 0
13 7 4 1 1 4 6 3	13 7 4 1 1 4 6 3	13 7 4 1 1 4 6 3	13 7 4 1 1 4 6 3	VI o O	13 1 8 8 0 5 6 2	13 1 8 8 0 5 6 2	13 1 8 8 0 5 6 2	13 1 8 8 0 5 6 2

Primum Signorum — + vel + — respondet sex primis Signis  
Argumentorum: secundum Signum, sex posterioribus Signis  
eorundem Argumentorum.

329. ♄ Capricorni 5.

1780

330. ♀ Cephei 3.

Ascen. Recta 10° 17' 29' 41"  
 Variatio annua + 50. 56.  
 Declinatio 17° 45' 36" 60. A.  
 Variatio annua - 14. 72.

Argument.  
 pro  
 Aberratio-  
 ne  
 Longitudo  
 Solis.

Ascen. Recta 10° 18' 19' 39"  
 Variatio annua + 21. 55.  
 Declinatio 61° 39' 32" 00 B.  
 Variatio annua + 14. 95.

Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus ♄ ♁ Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.									
-	+	+	-	+	-	+	-	+	S. G. S.	-	+	-	+	-	+	-	+
14	2	3	9	2	2	6	1	0	0 0 VI	28	8	14	7	12	2	6	0
			-	+													
11	5	3	0	1	0	7	2	10	10	23	6	16	8	13	0	7	1
8	4	2	0	4	0	7	9	20	20	17	6	18	4	12	9	7	8
5	2	1	0	6	8	8	3	I 0 VII	I 0 VII	11	0	19	8	12	6	8	3
1	7	0	0	9	4	8	3	10	10	4	2	19	6	11	7	8	3
+	-	-	+							+	-	-	+	-	+	-	+
1	7	1	0	11	2	8	1	20	20	2	8	19	4	10	5	8	1
5	2	2	0	12	5	7	5	II 0 VIII	II 0 VIII	9	6	18	4	9	1	7	5
8	4	3	0	13	0	6	6	10	10	16	2	17	2	7	0	6	7
11	5	3	9	13	2	5	9	20	20	22	4	15	2	5	5	5	9
14	2	4	6	12	8	4	9	III 0 IX	III 0 IX	27	8	12	8	3	1	5	0
16	5	5	1	13	4	4	2	10	10	32	4	10	1	1	8	4	3
18	2	5	6	13	9	3	3	20	20	36	0	7	0	0	5	2	4
														+	-	+	-
19	4	5	8	14	2	2	2	IV 0 X	IV 0 X	38	4	3	8	1	5	2	4
20	0	5	9	13	6	1	2	10	10	39	8	0	4	3	7	1	3
														+	-	+	-
20	0	5	8	12	3	0	5	20	20	39	9	3	1	5	9	0	3
19	4	5	6	10	4	2	0	V 0 XI	V 0 XI	38	8	6	4	7	9	1	8
18	2	5	1	7	9	3	5	10	10	36	6	9	5	9	7	3	4
16	5	4	6	5	1	4	9	20	20	33	2	12	3	11	2	4	8
14	2	3	9	2	2	6	1	VI 0 0	VI 0 0	28	8	14	7	12	2	6	0

Primum Signorum - + vel + - respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.



331. ♄ Capricorni 4.

1780

332. ♄ Capricorni 5.

Ascensio Recta  $10^{\circ}18'31''\frac{1}{2}$   
 Variatio annua + 51. 97.  
 Declinatio  $23^{\circ}21'9''80$  A.  
 Variatio annua - 14. 96.

Argument.  
 pro  
 Aberratione  
 Longitudo  
 Solis.

Ascensio Recta  $10^{\circ}19'2'18''$   
 Variatio annua + 51. 74.  
 Declinatio  $22^{\circ}45'14''40$  A.  
 Variatio annua - 15. 08.

Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus $\Omega$ ♃ Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.
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-	+	+	-	+	-	+	-	S. G. S.	-	+	+	-	+	-	+	-
15	0	2	4	2	8	6	0	O o VI	15	0	2	8	2	8	6	0
12	2	1	4	0	4	7	1	10	12	2	0	4	0	4	7	1
9	1	0	3	3	5	7	8	20	9	1	3	5	3	5	7	8
5	8	0	8	6	5	8	3	I o VII	5	8	6	5	6	5	8	3
2	2	1	8	9	2	8	3	10	2	2	9	2	9	2	8	3
+	-								+	-						
1	5	2	9	11	2	8	1	20	1	5	11	2	11	2	8	1
5	1	3	9	12	6	7	5	II o VIII	5	1	12	6	12	6	7	5
8	5	4	7	13	1	6	7	10	8	4	13	1	13	1	6	7
11	6	5	4	13	4	5	9	20	11	6	13	4	13	4	5	9
14	5	6	0	13	3	5	0	III o IX	14	5	13	3	13	3	5	0
16	8	6	3	13	8	4	3	10	16	7	13	8	13	8	4	3
18	7	6	5	14	5	3	4	20	18	6	14	5	14	5	3	4
20	0	6	5	14	8	2	4	IV o X	19	9	14	8	14	8	2	4
20	7	6	2	14	4	1	3	10	20	6	14	4	14	4	1	3
20	7	5	8	13	1	0	3	20	20	6	13	1	13	1	0	3
20	2	5	1	11	3	1	8	V o XI	20	1	11	3	11	3	1	8
19	1	4	5	8	8	3	4	10	19	0	8	8	8	8	3	4
17	2	3	5	6	0	4	8	20	17	1	6	0	6	0	4	8
15	0	2	4	2	8	6	0	VI o O	15	0	2	8	2	8	6	0

Primum Signorum — + vel + — respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.



335. ♀ Aquarii 5. 6.								1780	336. ♀ Cygni 4.											
Ascensio Recta 10°21'03.027" Variatio annua + 48. 15. Declinatio 8°49'50" 20 A. Variatio annua - 15. 64.								Argument. pro Aberratione Longitude Solis.	Ascensio Recta 10°21'25'50" <sup>1</sup> / <sub>2</sub> Variatio annua + 33. 83. Declinatio 44°37'34" 80. B. Variatio annua + 15. 64.											
Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus <i>S</i> Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.								
14	+	+	-	+	-	+	-	S. G. S.	-	+	-	+	20	1	13	6	6	9	5	7
								O o VII												
12	1	5	6	1	8	6	8	10	16	8	13	8	8	5	6	8	8			
9	3	4	9	4	6	7	6	20	12	9	16	5	9	8	7	6	6			
6	2	4	0	7	2	8	1	I o VII	8	7	17	3	10	6	8	1	1			
3	0	3	1	9	4	8	3	10	4	2	17	5	11	2	8	3				
+									+	-										
0	3	2	0	11	1	8	1	20	0	5	17	2	11	4	8	1				
3	8	1	0	12	1	7	6	II o VIII	5	1	16	4	10	9	7	6				
6	9	0	3	12	4	6	9	10	9	5	15	0	9	7	6	9				
9	9	1	4	12	6	6	1	20	13	7	13	2	8	6	6	1				
12	6	2	5	11	9	5	2	III o IX	17	5	11	1	7	2	5	5				
14	8	3	6	12	4	4	5	10	20	6	8	5	6	5	4	5				
16	5	4	4	12	8	3	8	20	23	2	5	7	5	8	3	8				
18	0	5	1	12	9	2	9	IV o X	25	0	2	7	4	8	2	9				
19	0	5	9	12	3	1	6	10	26	3	0	3	3	2	1	6				
19	2	6	3	10	9	0	1	20	26	6	3	4	1	3	0	1				
18	9	6	5	9	0	1	5	V o XI	26	1	6	3	0	8	1	5				
18	0	6	6	6	2	9		10	24	7	9	1	2	9	2	9				
16	4	6	4	3	9	4	4	20	22	9	11	5	4	9	4	4				
15	5	6	2	1	1	5	7	VI o O	20	1	13	6	6	9	5	7				

Primum Signorum — + vel + — respondet sex primis Signis Argumentorum secundum Signum, sex posterioribus Signis eorundem Argumentorum.

337.  $\beta$  Cephei 3.

1780

338.  $\gamma$  Capricorni 4.

Ascensio Recta  $10^{\circ}21'26''\frac{1}{2}$   
 Variatio annua  $+ 12' 67.$   
 Declinatio  $69^{\circ}35'51'' 20 B.$   
 Variatio annua  $+ 15. 66.$

Argument.  
 pro  
 Aberratione  
 Longitude  
 Solis.

Ascensio Recta  $10^{\circ}21'58''12$   
 Variatio annua  $+ 50. 20.$   
 Declinatio  $17^{\circ}38'45'' 00. A.$   
 Variatio annua  $- 15. 70.$

Aberratio in Ascens. Rectam.  
 Aberratio in Declination.  
 Nutatio in Ascens. Rectam.  
 Nutatio in Declination.

Argument. pro Nutatione Locus  $\Omega$  & Ascend.

Aberratio in Ascens. Rectam.  
 Aberratio in Declination.  
 Nutatio in Ascens. Rectam.  
 Nutatio in Declination.

		+		-		+		-		S. G. S.	+		-		+		-	
42	0	13	7	18	3	5	7	0	0	VI	15	1	4	2	2	0	5	7
34	2	15	9	18	6	6	8	10			12	6	3	4	0	7	6	8
26	4	17	8	17	6	7	6	20			9	7	2	3	3	7	7	6
17	6	19	0	16	1	8	1	I 0	VII		6	5	1	3	6	6	8	1
8	5	19	7	14	0	8	3	10			3	1	0	2	9	1	8	3
+	-										+	-	+	-				
1	0	19	9	11	5	8	1	20			0	4	0	9	11	0	8	1
10	2	19	4	8	8	7	6	II 0	VIII		3	8	1	9	12	3	7	6
19	6	18	3	5	6	6	9	10			7	2	3	0	12	7	6	9
28	0	16	7	2	9	6	1	20			10	3	3	9	13	1	6	1
				+	-													
35	6	14	6	0	2	5	2	III 0	IX		13	1	4	7	12	6	5	2
42	1	12	0	2	3	4	5	10			15	6	5	3	13	2	4	5
47	4	9	1	4	8	3	8	20			17	5	5	9	13	9	3	8
51	0	5	9	7	3	2	9	IV 0	X		18	8	6	2	14	1	2	9
53	6	2	4	10	0	1	6	10			19	8	6	3	13	6	1	6
	+	-																
54	2	1	0	13	4	0	1	20			20	0	6	2	12	3	0	1
					+	-												+
53	2	4	5	14	9	1	5	V 0	XI		19	7	6	2	10	4	1	5
50	6	7	8	17	1	2	9	10			18	7	5	6	8	0	2	9
46	6	10	9	18	2	4	4	20			17	2	4	9	5	2	4	4
42	0	13	7	18	3	5	7	VI 0	0		15	1	4	2	2	4	5	7

Primum Signorum — + Vel + — respondet sex primis Signis Argumentorum: secundum Signum, sex posterioribus Signis eorundem Argumentorum.



339. x Capricorni 5.				1780				340. λ Capricorni 5.								
Ascensio Recta 10° 22' 35" 15" 1/2 Variatio annua + 50. 62. Declinatio 19° 51' 31" 60 A. Variatio annua — 15. 87.				Argument pro Aberratione Longitudo Solis.				Ascensio Recta 10° 23' 30" 13" 1/2 Variatio annua + 48. 82. Declinatio 12° 22' 17" 00 A. Variatio annua — 16. 10.								
Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus Ω Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.								
15	5	3	8	2	6	5	6	S. G. S. O o VI	15	1	5	5	1	5	5	4
13	0	2	8	0	4	6	7	10	12	7	4	8	1	4	6	6
10	1	1	7	3	6	7	6	20	10	0	4	0	4	3	7	5
6	8	0	6	6	5	8	1	I o VII	6	9	3	0	6	9	8	0
3	5	0	6	9	0	8	3	10	3	7	2	0	9	3	8	2
0	0	1	7	11	0	8	1	20	0	3	1	0	11	0	8	1
+	-								+	-	+					
3	5	2	8	12	3	7	6	II o VIII	3	0	0	2	12	1	7	7
6	8	3	8	12	8	6	9	10	6	3	1	4	12	4	6	9
10	1	4	6	13	1	6	1	20	9	4	2	4	12	5	6	2
13	0	5	3	12	9	5	2	III o IX	12	2	3	4	12	3	5	3
15	5	5	9	13	3	4	6	10	14	6	4	3	13	2	4	7
17	6	6	4	14	1	3	8	20	16	6	5	1	12	2	3	9
19	1	6	6	14	3	3	0	IV o X	18	2	5	7	11	5	3	1
20	0	6	6	13	9	1	7	10	19	1	6	2	10	9	1	9
20	3	6	4	12	6	0	2	20	19	4	6	4	9	0	3	
							+									+
20	0	5	9	10	7	1	4	V o XI	19	2	6	5	8	4	1	2
19	1	5	3	8	3	2	8	10	18	2	6	5	6	4	2	6
17	6	4	6	5	5	4	3	20	17	0	6	1	4	2	4	1
15	5	3	8	2	6	5	6	VI o O	15	1	5	5	1	5	5	4

Primum Signorum — + vel + — respondet sex primis Signis Argumentorum: secundum Signum, sex posterioribus Signis eorundem Argumentorum.

341. $\delta$ Capricorni 3.				1780	342. $2 \pi$ Cygni 5.			
Ascensio Recta $10^{\circ} 23' 43'' 8''$				Argument. pro Aberratione Longitude Solis.	Ascensio Recta $10^{\circ} 24' 40'' 14''$			
Variatio annua $+ 49. 90.$					Variatio annua $+ 33. 14.$			
Declinatio $17^{\circ} 6' 51'' 00 A.$				Argument. pro Notatione Locus $\Omega$ $\odot$ Ascend.	Declinatio $48^{\circ} 17' 53'' 40 B.$			
Variatio annua $- 16. 10.$					Variatio annua $+ 16. 32.$			
Aberra- tio in Ascens. Reclam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Reclam.	Nutatio in Declina- tion.	Aberra- tio in Ascens. Reclam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Reclam.	Nutatio in Declina- tion.	
-	+	+	-	+	-	+	-	+
15	4	4	5	2	3	5	4	S. G. S. O o VI
13	0	3	6	0	8	6	6	IO
10	3	2	6	3	8	7	5	20
7	2	1	5	6	5	8	0	I o VII
4	9	0	4	9	1	8	2	IO
0	4	0	9	11	0	8	1	20
+	-	-	+	-	-	+	-	HO VIII
3	1	1	9	12	2	7	7	IO
6	4	3	0	12	7	6	9	20
9	6	3	9	12	9	6	2	III o IX
12	5	4	8	12	5	5	3	IO
14	9	5	6	12	9	4	7	20
16	9	6	1	13	6	3	9	IV o X
18	5	6	4	13	8	3	1	IO
19	5	6	6	13	4	1	9	20
19	8	6	6	12	1	0	3	20
19	6	6	3	10	2	1	2	V o XI
18	5	5	9	7	8	2	6	IO
17	3	5	2	5	1	3	1	20
15	4	4	5	2	3	5	4	VI o O
22	3	13	4	8	1	5	3	22
18	9	15	3	9	6	6	5	18
15	0	16	7	10	8	7	4	15
11	0	17	6	10	6	7	9	11
6	4	18	0	11	9	8	1	6
1	5	17	8	11	7	8	1	1
+	-	-	+	-	-	+	-	3
3	4	17	1	11	1	7	7	3
8	2	15	9	9	9	6	9	8
12	8	14	1	8	6	6	3	12
17	0	12	1	7	0	5	4	17
20	7	9	5	6	3	4	8	20
23	7	6	7	5	2	4	0	23
26	1	3	8	4	0	3	2	26
27	6	0	7	2	3	2	0	27
28	3	2	5	0	3	0	5	28
28	0	5	6	1	9	1	0	28
26	9	8	5	4	3	2	5	26
25	0	11	1	6	3	3	9	25
22	3	13	4	8	1	5	3	22

Primum Signorum — + vel + — respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.

343.  $\mu$  Capricorni 5.

1780

344.  $\circ$  Aquarii 3.

Ascensio Recta  $10^{\circ} 25' 19'' 10''$   
 Variatio annua  $+ 49. 20.$   
 Declinatio  $14^{\circ} 34' 39'' 20 A.$   
 Variatio annua  $- 16. 44.$

Argument.  
 pro  
 Aberratio-  
 ne  
 Longitudo  
 Solis.

Ascensio Recta  $10^{\circ} 27' 58'' 58'' \frac{1}{2}$   
 Variatio annua  $+ 46. 75.$   
 Declinatio  $3^{\circ} 12' 33'' 80 A.$   
 Variatio annua  $- 16. 96.$

Aberratio in Ascens. Rectam.		Aberratio in Declination.		Nutatio in Ascens. Rectam.		Nutatio in Declination.		Argument. pro Nutatione Locus $\odot$ Ascend.	Aberratio in Ascens. Rectam.		Aberratio in Declination.		Nutatio in Ascens. Rectam.		Nutatio in Declination.	
+	-	+	-	+	-	+	-		-	+	+	-	+	-	+	-
15	5	5	1	2	0	5	2	S. G. S. O $\circ$ VI	15	5	7	5	0	4	4	8
13	4	4	2	1	0	6	4	10	13	4	7	2	2	3	6	0
10	6	3	3	3	9	7	3	20	10	9	6	7	5	0	7	0
7	6	2	2	6	7	7	9	I $\circ$ VII	8	0	5	9	7	4	7	6
4	4	1	1	9	1	8	1	10	4	9	5	0	9	5	8	0
1	0	0	0	10	8	8	1	20	1	7	3	9	11	1	8	0
2	4	1	1	12	2	7	7	II $\circ$ VIII	1	7	2	7	12	1	7	7
5	8	2	2	12	5	6	9	10	4	9	1	4	12	1	7	0
8	9	3	3	12	1	6	3	20	8	0	0	1	12	1	6	5
11	7	4	2	12	6	5	4	III $\circ$ IX	10	9	1	2	11	5	5	6
14	3	5	1	13	5	4	9	10	13	4	2	5	11	8	5	2
16	5	5	8	12	7	4	1	20	15	5	3	7	12	2	4	4
18	1	6	3	12	0	3	3	IV $\circ$ X	17	2	4	7	12	2	3	6
19	1	6	5	11	3	2	1	10	18	3	5	7	11	3	2	5
19	6	6	6	10	4	0	7	20	18	9	6	4	9	9	1	3
19	4	6	5	8	9	0	8	V $\circ$ XI	18	9	7	1	8	0	0	+
18	7	6	3	6	9	2	4	10	18	3	7	6	5	7	1	9
17	5	5	8	4	7	3	8	20	17	2	7	6	3	1	3	4
15	5	5	1	2	0	5	2	VI $\circ$ O	15	5	7	5	0	4	4	8

Primum Signorum  $- +$  vel  $+ -$  respondet sex primis Signis Argumentorum; secundum Signum, sex posterioribus Signis eorundem Argumentorum.



345. ♈ Aquarii 5.				1780				346. ♉ Aquarii 3.									
Ascensio Recta 10° 28' 38" 7"				Argument. pro Aberratio- ne Longitude Solis.				Ascensio Recta 10° 28' 37" 17"									
Variatio annua + 49. 00.								Variatio annua + 46. 50.									
Declinatio 14° 55' 41" 60. A								Declinatio 1° 22' 51" 00 A.									
Variatio annua — 17. 07.								Variatio annua — 17. 10.									
Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus Ω ♈ Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.									
-	+	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-
16	2	5	3	2	1	4	8	S G. S. O o VI	15	7	7	8	0	2	4	8	
					+									+			
14	0	4	4	0	9	6	0	10	13	6	7	6	2	6	6	0	0
11	5	3	4	3	8	7	0	20	11	2	7	2	5	2	7	6	0
8	5	2	2	6	5	7	6	I o VII	8	2	6	5	7	6	7	6	0
5	4	1	1	8	9	8	0	10	5	3	5	7	9	7	8	0	0
2	1	0	0	10	8	8	0	20	2	0	4	6	11	1	8	0	0
+	-	+	+	+	+	+	+	+	+	-	+	+	+	+	+	+	+
1	3	1	1	12	0	7	7	HoVIII	1	3	3	5	12	0	7	7	0
4	7	2	2	12	4	7	0	10	4	6	2	2	12	0	7	0	0
7	9	3	4	12	7	6	5	20	7	7	1	0	11	9	6	5	5
												+					
10	9	4	4	12	2	5	6	III o IX	10	6	0	4	11	3	5	6	6
13	6	5	3	12	8	5	2	10	13	2	1	8	11	6	5	2	2
15	7	6	0	13	4	4	4	20	15	3	3	1	12	0	4	4	4
17	6	6	5	13	6	3	6	IV o X	17	1	4	3	12	0	3	6	6
18	7	6	8	13	0	2	5	10	18	2	5	4	11	0	2	5	3
19	3	6	9	11	8	1	3	20	18	4	6	1	9	6	1	3	3
19	4	6	8	10	0	0	3	V o XI	18	8	7	0	7	7	0	3	3
18	9	6	5	7	6	1	9	10	18	3	7	5	5	4	1	9	9
17	8	6	0	4	9	3	4	20	17	3	7	7	2	8	3	4	4
16	2	5	2	2	1	4	8	VI o O	15	7	7	8	0	4	4	8	8

Primum Signorum — + vel + — respondet sex primis Signis  
Argumentorum: secundum Signum, sex posterioribus Signis  
eorundem Argumentorum.



347. 35 Aquarii 5.

1780

348. 9 Aquarii 4.

Ascens. Recta  $10^{\circ} 29' 13'' 27'' \frac{1}{2}$   
 Variatio annua  $+ 49. 87.$   
 Declinatio  $19^{\circ} 35' 16'' 40. A.$   
 Variatio annua  $- 17. 18.$

Argument.  
 pro  
 Aberratione  
 Longitudo  
 Solis.

Ascensio Recta  $11^{\circ} 1' 18'' 14'' \frac{1}{2}$   
 Variatio annua  $+ 47. 72.$   
 Declinatio  $8^{\circ} 52' 14'' 20. A.$   
 Variatio annua  $- 17. 54.$

Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus $\Omega$ $\odot$ Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.										
—	+	+	—	+	—	+	—	+	—	S. G. S.	—	+	+	—	+	—	+	—
16	8	4	3	2	8	4	7	7	10	VI	16	2	6	6	1	2	4	4
				—	+				10						—	+		
14	6	3	3	0	3	6	1	1	20		14	3	6	1	1	6	5	6
12	0	2	0	3	2	6	9	6	10	VII	12	0	5	3	4	4	6	7
9	1	0	9	6	1	7	6	6	20		9	2	4	3	7	0	7	4
		—	+						10									
5	9	0	4	8	7	7	9	9	20		6	2	3	3	9	1	7	6
2	4	1	6	10	6	8	0	0	10	VIII	3	0	2	0	10	8	7	9
+	—								10		+	—						
1	0	2	9	12	0	7	7	7	20		0	3	0	9	12	0	7	7
									10				—	+				
4	5	4	0	12	6	7	0	0	20		3	7	0	4	12	2	7	1
7	8	5	0	12	8	6	5	5	10	IX	6	8	1	6	12	4	6	6
10	9	5	7	12	5	5	6	6	20		9	8	2	8	11	8	5	8
13	7	6	5	13	3	5	2	2	10	X	12	5	3	9	12	2	5	5
16	0	7	0	13	9	4	5	5	20		14	7	4	9	12	6	4	8
17	9	7	2	14	2	3	7	7	10	XI	16	6	5	7	12	8	4	0
19	1	7	3	13	8	2	6	1	20		17	8	6	5	12	2	3	0
19	8	7	1	12	6	1	4	4	10		18	8	7	0	10	8	1	6
						—	+		20									
20	0	6	7	10	7	0	2	2	10	XI	19	0	7	1	9	0	0	1
									20						—	+		
19	5	6	2	8	4	1	8	8	10		18	7	7	2	6	6	1	6
18	4	5	4	5	7	3	2	2	20		17	8	7	0	4	0	3	0
16	8	4	3	2	8	4	7	7	10	0	16	2	6	6	1	2	4	4

Primum Signorum — + vel + — respondet sex primis Signis  
 Argumentorum : secundum Signum , sex posterioribus Signis  
 eorundem Argumentorum.

349. ♁ Aquarii 4.				1780	350. ♀ Aquarii 3.			
Ascensio Recta 11° 2' 9" 14"				Argument. pro Aberratione Longitude Solis.	Ascensio Recta 11° 2' 34" 21"			
Variatio annua + 47. 70.					Variatio annua + 46. 60.			
Declinatio 8° 55' 16" 20 A.				Argument. pro Nutatione Locus ♂ ♂ Ascend.	Declinatio 2° 29' 22" 80 A.			
Variatio annua + 17. 69.					Variatio annua + 17. 76.			
Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.	S. G. S.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.
— + + — + — + —					— + — + + — + —			
16 4 6 6 1 2 4 4				00 VI.	16 3 7 7 0 4 4 2			
		— +						
14 5 6 1 1 6 5 6				10	14 4 7 4 2 3 5 5			
12 2 5 3 4 4 6 7				20	12 1 7 0 5 0 6 6			
9 5 4 3 7 0 7 4				I 0 VII	9 4 6 5 7 4 7 3			
6 3 3 3 9 1 7 6				10	6 2 5 4 9 5 7 5			
3 3 2 0 10 8 7 9				20	3 3 4 3 11 0 7 9			
+ 0 0 0 9 12 0 7 7				II 0 VIII	+ 0 0 3 2 12 0 7 7			
		— +						
3 3 0 4 12 2 7 1				10	3 3 1 9 12 1 7 1			
6 3 1 6 12 4 6 6				20	6 2 0 6 12 1 6 6			
9 5 2 8 11 8 5 8				III 0 IX	9 4 0 8 11 4 5 8			
12 2 3 9 12 2 5 5				10	12 1 2 1 11 8 5 5			
14 5 4 9 12 6 4 8				20	14 4 3 4 12 2 4 8			
16 4 5 7 12 8 4 0				IV 0 X	16 3 4 5 12 2 4 1			
17 7 6 5 12 2 3 0				10	17 6 5 6 11 3 3 1			
18 7 7 0 10 8 1 6				20	18 6 6 5 9 9 1 8			
18 9 7 1 9 0 0 1				V 0 XI	18 7 7 1 8 0 0 3			
		— +						
18 7 7 2 6 6 1 6				10	18 6 7 6 6 7 1 4			
17 7 7 0 4 0 3 0				20	17 6 7 7 3 1 2 8			
16 4 6 6 1 2 4 4				VI 0 VI	16 4 1 7 7 0 4 2			

Primum Signorum — + vel + — respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.

351.  $\pi$  Aquarii 4.

1780

352.  $\zeta$  Aquarii 4.

Ascensio Recta  $1^{\circ} 3' 30'' 39'' \frac{1}{2}$   
 Variatio annua  $+ 46. 17.$   
 Declinatio  $0^{\circ} 16' 3'' 20 A.$   
 Variatio annua  $+ 17. 91.$

Argument.  
 pro  
 Aberratione  
 Longitude  
 Solis.

Ascensio Recta  $1^{\circ} 4' 22'' 28'' \frac{1}{2}$   
 Variatio annua  $+ 46. 37.$   
 Declinatio  $1^{\circ} 8' 23'' 20 A.$   
 Variatio annua  $- 18. 04.$

Aberratio in Ascens. Rectam.		Aberratio in Declination.		Nutatio in Ascens. Rectam.		Nutatio in Declination.		Argument. pro Nutatione Locus $\Omega$ Ascend.	Aberratio in Ascens. Rectam.		Aberratio in Declination.		Nutatio in Ascens. Rectam.		Nutatio in Declination.	
-	+	-	+	-	+	-	+	S. G. S.	-	+	+	-	+	-	+	-
16	4	8	0	0	0	4	1	0 0 VI	16	6	7	9	0	1	4	0
14	5	7	9	2	7	5	4	10	14	7	7	7	2	6	5	2
12	3	7	5	5	3	6	5	20	12	5	7	3	5	2	6	4
9	6	6	9	7	6	7	3	I 0 VII	9	8	6	7	7	5	7	2
6	7	6	1	9	7	7	5	10	7	0	5	9	9	6	7	6
3	7	5	I	11	1	7	9	20	4	0	4	8	11	1	7	8
0	3	4	0	12	0	7	7	II 0 VIII	0	7	3	6	12	0	7	7
+	-	-	+	-	+	-	+		+	-	-	+	-	+	-	+
3	0	2	7	12	0	7	1	10	2	7	2	3	12	0	7	2
6	1	1	4	12	0	6	6	20	5	8	1	0	12	0	6	7
9	0	0	0	11	4	5	8	III 0 IX	8	8	0	4	11	4	5	9
11	7	1	4	11	6	5	6	10	11	4	1	8	11	7	5	7
14	1	2	7	11	8	4	9	20	13	9	3	1	11	9	5	0
16	0	4	0	11	8	4	2	IV 0 X	15	9	4	4	12	0	4	3
17	5	5	1	11	0	3	2	10	17	4	5	5	11	2	3	3
18	4	6	1	9	6	1	9	20	18	3	6	3	9	8	2	1
18	7	6	9	7	6	0	4	V 0 XI	18	7	7	1	7	8	0	6
18	5	7	5	5	3	1	2	10	18	6	7	6	5	4	1	0
17	6	7	9	2	7	2	7	20	17	7	7	9	2	8	2	5
16	4	8	0	0	0	4	1	VI 0 0	16	6	7	9	0	1	4	0

Primum Signorum  $- +$  vel  $+ -$  respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.

353. $\sigma$ Aquarii 5.								1780	354. 7 Lacertæ 4.															
Ascensio Recta $11^{\circ} 4' 44' 55''$								Argument. pro Aberratio- ne Longitude Solis.	Ascensio Recta $11^{\circ} 5' 33' 56''$															
Variatio annua $+ 48. 00.$									Variatio annua $+ 36. 54.$															
Declinatio $11^{\circ} 47' 50'' 20$ A.									Declinatio $49^{\circ} 9' 22'' 60$ B.															
Variatio annua $- 18. 09.$								Variatio annua $+ 18. 23.$																
Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tio.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tio.	Argument. pro Nutatione Locus $\Omega$ $\odot$ Ascend.				Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tio.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tio.													
-	+	+	-	+	-	+	-	S. G. S.	-	+	-	+	-	+	-	+								
16	8	6	2	1	7	4	0	0 0 VI	25	4	10	9	9	4	3	8								
14	9	5	4	1	2	5	2	10	22	4	13	2	11	2	5	1								
12	7	4	5	4	0	6	4	20	19	3	15	1	12	5	6	3								
10	1	3	5	6	7	7	2	I 0 VII	15	4	16	5	13	2	7	2								
7	2	2	3	8	9	7	6	10	11	0	17	3	13	7	7	6								
4	1	1	1	10	7	7	8	20	6	3	17	7	13	4	7	8								
0	7	0	1	11	8	7	7	II 0 VIII	1	5	17	5	12	6	7	7								
+	-	+	-	+	-	+	-	+	+	-	+	-	+	-	+	-								
2	7	1	3	12	2	7	2	10	3	4	16	9	11	4	7	2								
5	9	2	6	12	5	6	7	20	8	2	15	7	10	0	6	7								
8	9	3	7	11	9	5	9	III 0 IX	12	9	13	9	8	0	6	0								
11	5	4	7	12	5	5	7	10	17	1	11	9	7	2	5	8								
14	1	5	5	13	0	5	0	20	20	7	9	3	6	0	5	1								
16	1	6	3	13	1	4	3	IV 0 X	23	8	6	6	4	6	4	4								
17	7	6	8	12	6	3	3	10	26	2	3	7	2	5	3	4								
18	6	7	1	11	3	2	1	20	27	7	0	7	0	2	2	2								
19	1	7	2	9	5	0	6	V 0 XI	28	4	2	5	2	2	0	8								
					-	+																		
18	9	7	2	7	1	1	0	10	28	2	5	5	4	9	0	8								
18	0	6	7	4	5	2	5	20	27	2	8	4	7	3	2	3								
16	8	6	2	1	7	4	0	VI 0 0	25	4	10	9	9	4	3	8								

Primum Signorum  $- +$  vel  $+ -$  respondet sex primis Signis  
Argumentorum: secundum Signum, sex posterioribus Signis  
eorundem Argumentorum.



355.  $\nu$  Aquarii 5.

1780

356.  $\eta$  Aquarii 4.

Ascensio Recta  $11^{\circ} 5' 39'' 29''$   
 Variatio annua  $+ 49. 55.$   
 Declinatio  $21^{\circ} 9' 37'' 40. A$   
 Variatio annua  $- 18. 23.$

Argument.  
 pro  
 Aberratione  
 Longitude  
 Solis.

Ascensio Recta  $11^{\circ} 5' 59'' 18''$   
 Variatio annua  $+ 42. 00.$   
 Declinatio  $1^{\circ} 14' 36'' 40. A$   
 Variatio annua  $- 18. 58.$

Aberratio in Rectam.	Aberratio in Declination.	Nutatio in Ascens. Rectam.	Nutatio in Declination.	Argument. pro Nutatione Locus $\Omega$ Ascens.	Aberratio in Ascens. Rectam.	Aberratio in Declination.	Nutatio in Ascens. Rectam.	Nutatio in Declination.
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				S. G. S.														
-	+	+	-	+	-	+	-	-	+	+	-	+	-	+	-			
17	9	4	8	3	2	3	8	0	0	VI	16	8	7	8	0	1	3	7
16	0	3	6	0	1	5	1	10	15	0	7	6	2	6	5	0	+	0
13	7	2	2	2	8	6	3	20	12	9	7	2	5	2	6	2	6	2
10	9	0	8	5	6	7	2	I 0 VII	10	4	6	5	7	5	7	7	5	1
			+															
7	8	0	6	8	3	7	6	10	7	5	5	7	9	6	7	6	7	6
4	5	1	9	10	2	7	8	20	4	5	4	6	11	1	7	8	1	8
1	0	3	3	11	7	7	7	II 0 VIII	1	3	3	5	12	0	7	7	0	7
			-															
2	4	4	6	12	3	7	2	10	2	0	2	3	12	0	7	2	0	2
5	9	5	7	12	8	6	7	20	5	2	1	0	12	0	6	7	0	7
9	1	6	6	12	4	6	0	III 0 IX	8	1	0	4	11	4	6	0	4	0
12	0	7	4	13	3	5	8	10	10	9	1	3	11	7	5	8	11	8
14	6	7	9	14	0	5	1	20	13	3	3	1	11	9	5	2	11	2
16	8	8	2	14	3	4	4	IV 0 X	15	4	4	3	12	0	4	4	12	4
18	4	8	2	14	0	3	4	10	17	1	5	4	11	2	3	6	11	6
19	5	3	0	12	6	2	2	20	18	1	6	2	9	8	2	4	9	4
20	0	7	5	10	9	0	8	V 0 XI	18	1	6	9	7	8	1	0	6	0
19	8	6	8	8	5	0	8	10	18	5	7	4	5	4	0	6	5	6
19	1	5	9	6	0	2	3	20	17	9	7	7	2	8	2	2	7	2
17	9	4	8	3	2	3	8	VI 0 0	16	8	7	8	0	1	3	7	8	7

Primum Signorum  $- +$  vel  $+ -$  respondet sex primis Signis  
 Argumentorum: secundum Signum sex posterioribus Signis  
 eorunde. *n*. Argumentorum.

357. x Aquarii 4.

1780

358. I. τ Aquarii 5.

Ascensio Recta  $11^{\circ} 6' 35'' 27''$   
 Variatio annua  $+ 46. 95.$   
 Declinatio  $5^{\circ} 21'' 22'' 60 A.$   
 Variatio annua  $- 18. 37.$

Argument.  
 pro  
 Aberratio-  
 ne  
 Longitudo  
 Solis.

Ascensio Recta  $11^{\circ} 9' 0'' 17''$   
 Variatio annua  $+ 48. 93.$   
 Declinatio  $15^{\circ} 12' 38'' 40 A.$   
 Variatio annua  $- 18. 68.$

Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus $\Omega$ D Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.										
16	+ 9	+ 7	- 3	+ 0	- 8	+ 3	- 7	0	0	VI	17	- 7	+ 5	- 9	+ 2	- 2	+ 3	- 3
15	1	6	9	2	0	5	0	10	16	1	4	9	0	6	4	7	9	9
13	0	6	3	4	7	6	2	20	14	0	3	8	3	5	5	6	8	8
10	6	5	5	2	2	7	1	I 0 VII	11	5	2	6	6	2	6	6	8	4
7	5	3	9	9	4	7	6	10	8	7	1	3	8	5	7	4		
4	5	3	4	10	8	7	8	20	5	6	0	0	10	4	7	7	6	
I	3	2	I	11	9	7	7	II 0 VIII	2	3	1	3	11	6	7	6		
+	2	0	0	9	12	0	7	10	+	1	0	2	6	12	0	7	2	
5	2	0	4	12	1	6	7	20	4	3	3	8	12	4	6	8		
8	1	1	7	11	5	6	0	III 0 IX	7	4	4	9	12	0	6	3		
10	9	2	9	12	0	5	8	10	10	4	5	9	12	5	5	9		
13	4	4	1	12	3	5	2	20	13	1	6	8	13	2	5	4		
15	5	5	1	12	4	4	5	IV 0 X	15	1	7	3	13	4	4	9		
17	2	5	9	11	7	3	6	10	17	1	7	6	12	9	4	0		
18	2	6	6	10	3	2	4	20	18	3	7	7	11	7	2	7		
18	7	7	2	8	4	1	0	V 0 XI	19	0	7	6	10	0	1	5		
18	7	7	4	6	1	0	6	10	19	2	7	3	7	6	0	1		
18	0	7	5	3	5	2	2	20	18	7	6	8	5	1	1	8		
16	9	7	3	0	8	3	7	VI 0 0	17	7	5	9	2	2	3	3		

Primum Signorum  $- +$  vel  $+ -$  respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum

359. 2. ♄ Aquarii 4.

1780

360. λ Aquarii 4.

Afcensio Recta  $11^{\circ}9'29''\frac{1}{2}$   
 Variatio annua + 48. 07.  
 Declinatio  $14^{\circ}44'54''00A.$   
 Variatio annua — 18. 75.

Argument.  
 pro  
 Aberratio-  
 ne  
 Longitudo  
 Solis.

Afcensio Recta  $11^{\circ}10'17'3''$   
 Variatio annua + 47. 25.  
 Declinatio  $8^{\circ}44'43''20A.$   
 Variatio annua — 18. 84.

Aberra- tio in Afcens. Reclam.	Aberra- tio in Declina- tion.	Nutatio in Afcens. Reclam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus ♃ Afcend.	Aberra- tio in Afcens. Reclam.	Aberra- tio in Declina- tion.	Nutatio in Afcens. Reclam.	Nutatio in Declina- tion.♃									
—	+	+	—	+	—	+	—	+	—	+	—	+	—				
17	7	6	0	2	2	3	3	S. G. S. O o VI	17	5	7	0	1	3	3	1	
16	1	5	1	0	6	4	7	10	16	0	6	3	1	5	4	5	
14	0	4	0	3	5	5	9	20	13	9	5	7	4	3	5	8	
11	5	2	9	6	2	6	8	I o VII	11	6	4	5	6	8	6	7	
8	7	1	7	8	5	7	4	10	8	8	3	4	9	0	7	3	
5	6	0	3	10	4	7	7	20	5	8	2	2	10	6	7	6	
2	3	1	—	+	II	6	7	6	II o VIII	2	7	1	0	II	7	7	6
+	—	+	—	+	—	—	—	+	+	—	—	+	—	+	—	—	+
1	0	2	4	12	0	7	2	10	0	7	0	4	12	0	7	2	
4	3	3	7	12	4	6	8	20	4	0	1	7	12	2	6	8	
7	4	4	7	12	0	6	3	III o IX	7	0	3	0	II	9	6	4	
10	4	5	7	12	5	5	9	10	9	9	4	1	12	3	6	0	
13	1	6	6	13	2	5	4	20	12	5	5	2	12	5	5	5	
15	1	7	2	13	4	4	9	IV o X	14	8	6	0	II	8	5	0	
17	1	7	5	12	9	4	0	10	16	5	6	8	12	1	4	1	
18	3	7	7	11	7	2	7	20	17	8	7	3	10	8	2	9	
19	0	7	6	10	0	1	5	V o XI	18	6	7	5	9	0	1	6	
19	2	7	3	7	6	0	1	10	18	8	7	6	6	6	0	0	
18	7	6	9	5	1	1	8	20	18	4	7	4	4	1	1	7	
17	7	6	0	2	2	2	3	VI o O	17	5	7	0	1	3	3	1	

Primum Signorum — + vel + — respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.

361. $\delta$ Cephei 4.				1780	362. $\delta$ Aquarii 3.			
Ascen. Recta $11^{\circ}10'23''\frac{1}{2}$				Argument. pro Aberratio- ne Longitudi- Solis	Ascensio Recta $11^{\circ}10'44''29''$			
Variatio annua $+ 31. 32.$					Variatio annua $+ 48. 25.$			
Declinatio $65^{\circ}2'48'' 60 B.$					Declinatio $16^{\circ}59'9'' 00 A.$			
Variatio annua $+ 18. 88.$				Variatio annua $- 18. 90.$				
Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tionem.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tionem.	Argument. pro Nutatione Locus $\Omega$ $\textcircled{3}$ Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tionem.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tionem.
— + — + — + — +	— + — + — + — +	— + — + — + — +	— + — + — + — +	S. G. S.	— + — + — + — +	— + — + — + — +	— + — + — + — +	— + — + — + — +
40 8 3 7 17 4 3 1				$\textcircled{0} \textcircled{0} \textcircled{VI}$	18 2 5 9 2 6 3 1			
37 4 11 5 18 6 4 5				10	16 7 4 8 0 4 4 5			
33 0 14 0 19 0 5 8				20	14 6 3 6 3 2 5 8			
27 5 16 1 19 8 6 7				$\textcircled{1} \textcircled{0} \textcircled{VII}$	12 3 2 3 5 9 6 7			
21 4 17 7 18 7 7 3				10	9 4 1 0 8 3 7 3			
14 2 18 7 16 8 7 6				20	6 3 0 4 10 2 7 6			
6 8 19 2 14 8 7 6				$\textcircled{II} \textcircled{0} \textcircled{VIII}$	3 0 1 8 11 5 7 6			
0 8 19 0 12 0 7 2				10	0 7 3 1 12 0 7 2			
8 4 18 3 9 5 6 8				20	4 0 4 4 12 4 6 8			
15 8 17 1 6 5 6 4				$\textcircled{III} \textcircled{0} \textcircled{IX}$	6 9 5 5 12 4 6 4			
22 8 15 1 4 2 6 0				10	10 0 6 3 12 9 6 0			
28 8 13 1 1 8 5 5				20	12 7 7 1 13 3 5 5			
		+ —						
34 2 10 4 0 2 5 0				$\textcircled{IV} \textcircled{0} \textcircled{X}$	15 1 7 6 13 6 5 0			
38 4 7 5 3 4 4 1				10	16 9 7 9 13 1 4 1			
41 4 4 3 6 8 2 9				20	18 3 8 0 12 0 2 9			
43 2 1 0 10 1 1 6				$\textcircled{V} \textcircled{0} \textcircled{XI}$	19 2 7 8 10 2 1 6			
		+ —						
43 8 2 3 13 8 0 0				10	19 4 7 4 7 9 0 0			
		+ —						
43 0 5 6 15 5 1 7				20	19 0 6 7 5 4 1 7			
40 8 8 7 17 4 3 1				$\textcircled{V} \textcircled{10} \textcircled{0}$	18 2 5 9 2 6 3 1			

Primum Signorum — + vel + — respondet sex primis Signis  
Argumentorum: secundum Signum, sex posterioribus Signis  
eorundem Argumentorum.



363. Fomalhaut I.

1780

364.  $\beta$  Piscium 4.

Ascensio Recta  $11^{\circ}11'21''46''$   
 Variatio annua  $+ 50.06.$   
 Declinatio  $20^{\circ}46'54''60.$  A  
 Variatio annua  $- 18.97.$

Argument.  
 pro  
 Aberratio-  
 ne  
 Longitudo  
 Solis.

Ascensio Recta  $11^{\circ}13'10''20''$   
 Variatio annua  $+ 45.92$   
 Declinatio  $2^{\circ}38'21''40.$  b  
 Variatio annua  $+ 19.17.$

Aberra- tio in Ascensio- rectam.	Aberra- tio in Declina- tionem.	Notatio in Ascensio- rectam.	Notatio in Declina- tionem.	Argument. pro Nutatione Locus Ascend.	Aberra- tio in Ascensio- rectam.	Aberra- tio in Declina- tionem.	Notatio in Ascensio- rectam.	Notatio in Declina- tionem.			
20	+	+	-	S. G. S.	-	+	+	-	+	-	+
18	4	2	2	0	17	4	8	9	0	4	2
				10	16	2	8	9	3	1	4
16	2	0	3	20	14	3	8	6	5	7	5
13	5	1	4	10	12	2	8	1	7	9	6
10	5	3	2	10	9	6	7	4	9	9	7
7	0	4	9	20	6	6	6	4	11	3	7
3	4	6	3	10	3	6	5	2	12	1	7
0	4	7	7	10	0	3	2	8	12	0	7
4	1	8	8	20	2	9	2	3	12	0	6
7	7	9	6	10	6	0	0	8	11	3	6
11	1	10	1	10	9	0	0	8	11	4	6
14	1	10	3	20	11	7	2	3	11	6	5
16	8	10	2	10	13	9	2	8	11	5	5
18	8	9	8	10	15	8	5	2	10	6	4
10	3	9	1	20	17	3	6	4	9	2	3
21	3	8	2	10	18	2	7	4	7	2	1
21	6	6	9	10	18	5	8	1	4	9	0
21	2	5	6	20	18	3	8	6	2	3	1
20	2	3	9	10	17	4	8	9	0	4	2

Primum Signorum — + vel + — respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.

365. $\beta$ Pegasi 2.								1780	366. $\iota$ h Aquarii 6.							
Ascensio Recta $11^{\circ}13'17''$								Argument. pro Aberratio- ne Longitudo Solis	Ascen. Recta $11^{\circ}13'25''13''$							
Variatio annua $+ 43. 25.$									Variatio annua $+ 47. 10.$							
Declinatio $26^{\circ} 53'31'' 60 B.$									Declinatio $8^{\circ} 52'38'' 00 A.$							
Variatio annua $+ 19. 18.$								Variatio annua $- 19. 20.$								
Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus $\Omega$ $\odot$ Ascend.				Aberra- tio in Ascens. Rectam	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.					
— + — + — + — +	— + — + — + — +	— + — + — + — +	— + — + — + — +	S. G. S.	— + — + — + — +	— + — + — + — +	— + — + — + — +	— + — + — + — +	— + — + — + — +	— + — + — + — +	— + — + — + — +	— + — + — + — +	— + — + — + — +	— + — + — + — +		
19 8 9 7 4 3 2 7				0 0 VI	17 7 7 0 1 3 2 7											
18 3 11 1 6 8 4 0				10	16 4 6 4 1 4 4 0											
16 4 12 0 8 9 5 4				20	14 6 5 6 4 1 5 4											
14 0 12 7 10 6 6 4				I 0 VII	12 6 4 6 6 8 6 4											
11 0 12 9 12 7 7 1				10	9 8 3 4 9 0 7 1											
7 8 12 8 12 7 7 5				20	6 9 2 2 10 5 7 5											
4 4 12 3 12 8 7 5				II 0 VIII	3 9 1 3 11 7 7 5											
0 8 11 4 12 2 7 2				10	0 7 0 4 12 0 7 2											
+ 2 9 10 3 11 7 6 9				20	+ 2 9 10 3 11 7 6 9											
6 5 8 7 10 2 6 7				III 0 IX	5 8 3 0 11 6 6 7											
9 8 6 9 10 1 6 2				10	8 8 4 1 12 1 6 2											
12 7 4 9 9 6 5 8				20	11 5 5 2 12 5 5 8											
15 5 2 7 8 9 5 3				IV 0 X	13 9 5 9 12 8 5 3											
17 6 0 4 7 5 4 4				10	15 8 6 8 12 1 4 4											
18 2 1 8 5 6 3 4				20	17 4 7 3 10 8 3 4											
20 4 4 0 3 3 1 9				V 0 XI	18 3 7 5 9 0 1 9											
20 8 5 1 0 7 0 4				10	18 7 7 6 6 6 0 4											
20 6 8 0 1 9 1 2				20	18 5 7 4 4 1 1 2											
19 8 9 7 4 3 2 7				VI 0 0	17 7 7 0 1 3 2 7											

Primum Signorum -- + vel + -- respondet sex primis Signis  
Argumentorum: secundum Signum, sex posterioribus Signis  
eorundem Argumentorum.

367 2 h Aquarii 7.				1780	368 α Pegasi 2.			
Ascensio Recta 11° 13' 27' 49"				Argument. pro Aberratio- ne Longitudo Solis	Ascensio Recta 11° 13' 27' 18"			
Variatio annua + 47. 10.					Variatio annua + 44. 75.			
Declinatio 8° 56' 16" 00 A.				Declinatio 14° 1' 30" 00 B.				
Variatio annua - 19. 20.				Variatio annua + 19. 20.				
Aberra- tio in Ascens. Reclam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Reclam.	Nutatio in Declina- tion	Argument. pro Nutatione Locus 2 3 Ascend.	Aberra- tio in Ascens. Reclam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Reclam.	Nutatio in Declina- tion.
-	+	+	-	+	-	+	-	+
17	7	7	0	1	3	2	7	0
16	4	6	4	1	4	4	0	10
14	6	5	6	4	1	5	4	20
12	6	4	6	6	8	6	4	10 VII
9	8	3	4	9	0	7	1	10
6	9	2	2	10	5	7	5	20
3	9	1	0	11	7	7	5	10 VIII
0	7	0	4	12	0	7	2	10
2	5	1	7	12	1	6	9	20
5	8	3	0	11	6	6	7	10 IX
8	8	4	1	12	1	6	2	10
11	5	5	2	12	5	5	8	20
13	9	5	9	12	8	5	3	10 X
15	8	6	8	12	1	4	4	10
17	4	7	3	10	8	3	4	20
18	3	7	5	9	0	1	9	10 XI
18	7	7	6	6	0	0	4	10
18	5	7	4	4	1	1	2	20
17	7	7	0	1	3	2	7	10 XII

Primum Signorum - + vel + - respondet sex primis Signis  
Argumentorum: secundum Signum, sex posterioribus Signis  
eorundem Argumentorum.



369. 3. ♉ Aquarii 7.

1780

370. ♀ Aquarii 4.

Ascensio Recta  $11^{\circ} 13' 36'' \frac{1}{2}$   
 Variatio annua  $+ 47. 08$   
 Declinatio  $9^{\circ} 7' 12'' 00 A.$   
 Variatio annua  $- 19. 20.$

Argument.  
 pro  
 Aberratio.  
 ne  
 Longitudo  
 Solis.

Ascensio Recta  $11^{\circ} 15' 43'' 54''$   
 Variatio annua  $+ 46. 83.$   
 Declinatio  $7^{\circ} 13' 49'' 80 A$   
 Variatio annua  $- 19. 41.$

Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus $\Omega$ Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.										
-	+	+	-	+	-	+	+	-	+	-	+	-						
17	7	7	0	1	3	2	7	0	0	VI	17	9	7	3	1	0	2	3
				-	+										+			
16	4	6	4	1	4	4	0	10	16	8	6	8	1	7	3	8	8	
4	6	5	6	4	1	5	4	20	15	0	6	0	4	4	5	1	1	
12	6	4	6	6	8	6	4	I 0 VII	12	9	5	0	7	0	6	1	1	
0	8	3	4	9	0	7	1	10	10	4	3	9	9	1	6	9	9	
6	9	2	2	10	5	7	5	20	7	6	2	8	10	6	6	9	9	
3	9	1	0	11	7	7	5	II 0 VIII	4	5	1	4	II	7	7	4	4	
0	7	0	+	12	0	7	2	10	1	3	0	1	II	9	7	2	2	
+									+			+						
2	5	1	7	12	1	6	9	20	2	0	1	2	12	1	6	9	9	
5	8	3	0	11	6	6	7	III 0 IX	5	2	2	5	II	4	6	5	5	
8	8	4	1	12	1	6	2	10	8	1	3	8	11	9	6	3	0	
11	5	5	2	12	5	5	8	20	10	9	4	8	12	3	6	0	5	
13	9	5	9	12	8	5	3	IV 0 X	13	3	5	8	12	5	5	4	5	
15	8	6	8	12	1	4	4	10	15	4	6	6	11	8	4	6	6	
17	4	7	3	10	8	3	4	20	17	1	7	2	10	5	3	6	6	
18	3	7	5	9	0	1	9	V 0 XI	18	1	7	7	8	6	2	2	8	
18	7	7	6	6	0	4		10	18	5	7	7	6	3	0	2	8	
							+											
18	5	7	4	4	1	1	2	20	18	5	7	6	3	8	0	2	8	
17	7	7	0	1	3	2	7	VI 0 0	17	9	7	3	1	0	2	2	8	

Primum Signorum -- + vel + -- respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.



371. I. ♀ Aquarii 5.

1780

372. X Aquarii. 6.

Ascensio Recta 11° 15' 5" 17½  
 Variatio annua + 47. 08.  
 Declinatio 10° 16' 58" 20A  
 Variatio annua + 19. 44.

Argument.  
 pro  
 Aberratione  
 Longitude  
 Solis

Ascensio Recta 11° 16' 21" 42"  
 Variatio annua + 46. 95.  
 Declinatio 9° 55' 21" 60A.  
 Variatio annua — 19. 47.

Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Notatio in Ascens. Rectam.	Notatio in Declina- tion	Argument. pro Nutatione Locus ♀ ♂ Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tio.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.
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				S. G. S.														
—	+	+	—	+	—	+	—	—	+	+	—	+	—	+	—			
18	1	7	2	1	5	2	2	0	0	VI	18	1	7	3	1	4	2	2
17	0	6	5	1	3	3	7	10	17	0	6	6	1	4	3	7		
15	3	5	6	4	5	0	0	20	15	3	5	9	4	1	5	0		
13	2	4	5	6	6	0	0	I 0 VII	13	2	4	8	6	7	6	0		
10	7	3	8	8	6	9	9	10	10	7	3	6	8	9	6	5		
7	9	1	9	10	4	6	9	20	7	9	2	3	10	5	6	9		
4	9	0	6	11	5	7	4	II 0 VIII	4	9	1	0	11	5	7	4		
1	7	0	8	11	8	7	2	10	1	7	0	4	11	8	7	2		
+	—								+	—								
1	7	2	2	12	1	6	9	20	1	7	1	8	12	1	6	9		
4	9	3	5	11	4	6	5	III 0 IX	4	9	3	1	11	4	6	5		
7	9	4	7	12	1	6	4	10	7	9	4	4	12	1	6	4		
10	7	5	8	12	6	6	1	20	10	7	5	5	12	5	6	1		
13	2	6	6	12	8	5	7	IV 0 X	13	2	6	3	12	7	5	7		
15	3	7	2	12	2	4	8	10	15	3	7	0	12	1	4	8		
17	0	7	7	10	9	3	8	20	17	0	7	5	10	8	3	8		
18	1	7	9	9	0	2	4	V 0 XI	18	1	7	8	8	9	2	4		
18	6	7	9	6	7	1	0	10	18	6	7	9	6	6	1	0		
18	6	7	6	4	2	1	0	20	18	6	7	7	4	1	1	0		
18	1	7	2	1	5	2	2	VI 0 0	18	1	7	3	1	4	2	2		

Primum Signorum — + vel — + respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.

373. 2 ♃ Aquarii 5.

1780

374. 3. ♃ Aquarii 5.

Ascensio Recta 11° 16' 36' 59" <sup>1</sup>/<sub>2</sub>  
 Variatio annua + 47. 67.  
 Declinatio 10° 22' 48' 20" A  
 Variatio annua — 19. 49.

Argument.  
 pro  
 Aberratio  
 ne  
 Longitudo  
 Solis

Ascensio Recta 11° 16' 52' 39" <sup>1</sup>/<sub>2</sub>  
 Variatio annua + 47. 80.  
 Declinatio 10° 48' 36" 80. A  
 Variatio annua + 19. 51.

Aberratio in Ascensio Rectam.	Aberratio in Declination.	Nutatio in Ascensio Rectam.	Nutatio in Declination.	Argument. pro Nutatione Locis & 3) Ascend.	Aberratio in Ascensio Rectam.	Aberratio in Declination.	Nutatio in Ascensio Rectam.	Nutatio in Declination.
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				S. G. S.									
—	+	+	—	+	—	+	—	—	+	+	—	+	—
18	2	7	0	1	5	2	2	0	0	VI	18	2	7
17	1	6	3	1	3	3	7	10			17	1	6
15	4	5	5	4	0	5	0	20			15	4	5
13	3	4	4	6	6	6	0	IV	0	II	13	3	4
10	8	3	1	8	8	6	9	10			10	8	3
7	9	1	8	10	4	6	9	20			7	9	1
4	9	0	4	11	5	7	4	II	0	III	4	9	0
1	7	1	0	11	8	7	2	10			1	7	1
1	7	2	3	12	1	6	9	20			1	7	2
4	9	3	6	11	4	6	5	III	0	IX	4	9	3
7	9	4	8	12	1	6	4	10			7	9	4
10	8	5	9	12	6	6	1	20			10	8	5
13	2	6	7	12	8	5	7	IV	0	X	13	2	6
15	4	7	4	12	2	4	8	10			15	4	7
17	1	7	7	10	9	3	8	20			17	1	7
18	2	7	9	9	0	2	4	V	0	XI	18	2	7
18	7	7	8	6	7	1	0	10			18	7	7
18	7	7	5	4	2	1	0	20			18	7	7
18	2	7	0	1	5	2	2	VI	0	0	18	2	7

Primum Signorum — + vel + — respondet sex primis Signis Argumentorum : secundum Signum, sex posterioribus Signis eorundem Argumentorum.

375. 96 Aquarii 5.

1780

376. 9 Cassiopeæ 5.

Ascensio Recta  $16^{\circ} 59' 47''$   
 Variatio annua  $+ 46. 69.$   
 Declinatio  $6^{\circ} 19' 25'' 60 A$   
 Variatio annua  $- 19. 52.$

Argument.  
 pro  
 Aberratio  
 ne  
 Longitudo  
 Solis

Ascensio Recta  $18^{\circ} 47' 10'' \frac{1}{2}$   
 Variatio annua  $+ 39. 02.$   
 Declinatio  $61^{\circ} 4' 41'' 20. B$   
 Variatio annua  $+ 19. 66.$

Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus $\Omega$ & Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.
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-	+	+	-	+	-	+	-	S. G. S.	-	+	-	+	-	+	-	+
18	1	7	6	I	0	2	0	0 0 VI	37	4	7	2	15	8	1	8
17	2	7	I	I	7	3	6	10	35	5	10	2	17	5	3	3
15	6	6	4	4	4	4	9	20	32	3	12	7	18	7	4	7
13	6	5	5	7	0	5	9	I 0 VII	28	6	14	5	19	2	5	7
11	2	4	5	9	I	6	9	10	24	0	16	5	21	0	6	5
8	5	3	4	10	6	6	9	20	18	4	17	8	19	5	6	7
5	5	0	I	II	7	7	4	II 0 VIII	12	4	18	5	17	1	7	2
2	3	2	7	II	9	7	2	10	6	0	18	6	14	1	7	1
+	-	+	-	+	-	+	-		+	-	+	-	+	-	+	-
1	0	0	7	12	I	6	9	20	0	6	18	1	11	5	6	9
4	2	2	I	II	4	6	6	III 0 IX	7	4	17	2	8	7	6	7
7	3	3	4	II	9	6	5	10	13	6	15	6	6	6	6	6
10	1	4	5	12	3	6	2	20	19	6	13	6	4	4	6	3
12	7	5	5	12	5	5	8	IV 0 X	25	0	11	2	1	2	6	0
14	6	6	4	II	8	4	9	10	29	4	8	4	2	2	5	2
16	6	7	I	10	5	4	0	20	33	2	5	5	5	9	4	2
17	8	7	6	8	6	2	6	V 0 XI	35	6	2	3	9	7	2	8
18	5	7	8	6	3	I	0	10	37	6	I	0	13	1	I	6
18	6	7	8	3	8	I	0	20	37	9	4	2	16	1	0	1
18	1	7	6	I	0	2	0	VI 0 0	37	4	7	2	15	8	1	8

Primum Signorum — + vel + — responderet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.

377. I * Piscium 5.				1780	378. I λ Andromedæ 4.												
Ascen. Recta II'18"54'57" <sup>1</sup> / <sub>6</sub>				Argument. pro Aberratio- ne. Longitude Solis	Ascensio Recta II'21"42'40"												
Variatio annua — 46. 18.					Variatio annua + 43. 19.												
Declinatio 0° 3' 15" 20. B.					Declinatio 45° 16' 13" 80 B												
Variatio annua + 19. 66.					Variatio annua — 19. 84.												
Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tio.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tio	Argument. pro Nutatione Locus Ω ⊕ Ascend.	Aberra- tio in Ascens. Rectam	Aberra- tio in Declina- tio	Nutatio in Ascens. Rectam	Nutatio in Declina- tio									
18	0	8	0	0	1	8	0	0	VI	25	7	7	8	8	9	1	6
17	1	7	9	2	7	3	3		10	24	4	10	0	11	3	3	1
15	5	7	5	5	3	4	7		20	22	8	12	1	12	9	4	5
13	7	6	9	7	6	5	7		I 0 VII	20	2	13	6	14	4	5	5
11	3	6	1	9	7	6	6		10	17	1	14	4	15	2	6	4
8	6	5	1	11	1	7	1		20	13	4	15	6	15	3	6	9
5	7	4	0	12	0	7	4		II 0 VIII	9	3	15	9	14	7	7	2
2	6	2	7	12	0	7	1		10	5	0	15	7	13	3	7	0
+	-																
0	7	4	4	12	0	6	9		20	0	4	14	9	12	1	6	9
3	9	0	0	11	4	6	6		III 0 IX	4	1	14	0	12	4	6	6
6	8	1	4	11	6	6	5		10	8	5	12	4	13	8	6	4
9	7	2	7	11	8	6	1		20	12	6	10	5	15	3	6	9
12	3	4	0	11	8	5	9		IV 0 X	16	4	8	3	16	6	6	1
14	4	5	1	11	0	5	1		10	19	6	5	7	17	0	5	3
16	2	6	1	9	6	4	2		20	22	3	3	0	16	8	4	5
17	5	6	9	7	6	2	8		V 0 XI	24	3	0	3	15	8	3	9
18	2	7	5	5	3	1	6		10	25	5	2	5	13	9	1	8
18	4	7	9	2	7	0	1		20	26	0	5	2	10	8	0	1
18	0	8	0	0	0	1	8		VI 0 0	25	7	7	8	8	9	1	6

Primum Signorum — + vel + — respondet sex primis Signis  
Argumentorum: secundum Signum, sex posterioribus Signis  
eorundem Argumentorum.



379. λ Piscium 5.

1780

380. 19 Piscium 5.

Ascen. Recta 11° 22' 42 33"  
 Variatio annua + 46. 16.  
 Declinatio 0° 34' 17" 60. B  
 Variatio annua + 19. 88

Argument.  
 pro  
 Aberratione  
 Longitude  
 Solis

Ascen. Recta 11° 23' 47 50"  
 Variatio annua - 46 09.  
 Declinatio 2° 16' 0" 60 B  
 Variatio annua + 19. 93.

Aberra- tio in Ascensu. Reclam.	Aberra- tio in Declina- tion.	Nutatio in Ascensu. Reclam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus Ω Ascend.	Aberra- tio in Ascensu. Reclam.	Aberra- tio in Declina- tion.	Nutatio in Ascensu. Reclam.	Nutatio in Declina- tion.
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—	+	—	+	—	+	—	+	S. G S.	—	+	—	+	—	+	—	+
18	2	8	0	0	0	1	4	0 0 VI	18	3	8	1	0	3	1	2
17	5	7	9	2	7	3	0	10	17	5	8	1	3	0	2	8
16	2	7	5	5	3	4	4	20	16	2	7	8	5	6	4	2
14	4	7	0	7	6	5	4	I 0 VII	14	4	7	3	7	9	5	3
12	3	6	2	9	7	6	3	10	12	4	6	6	9	9	6	2
9	7	5	2	11	1	6	9	20	9	8	5	7	11	3	6	7
6	9	4	1	12	0	7	2	II 0 VIII	7	1	4	6	12	2	7	1
3	9	2	9	12	0	7	0	10	4	1	3	4	12	1	7	0
0	7	1	5	12	0	6	9	20	1	0	2	1	12	0	6	9
+	—	+	—	+	—	+	—	III 0 IX	+	—	+	—	+	—	+	—
2	6	0	I	II	4	6	6	10	2	2	0	7	II	4	6	6
5	7	1	3	II	6	6	6	10	5	4	2	1	II	5	6	6
8	7	2	6	II	8	6	2	20	8	4	3	4	II	7	6	3
11	3	3	9	II	8	6	2	IV 0 X	11	0	4	6	II	6	6	2
13	7	5	0	II	0	5	4	10	13	5	5	7	10	8	5	5
15	6	6	0	9	6	4	6	20	15	5	6	6	9	3	4	7
17	1	6	8	7	6	3	3	V 0 XI	17	0	7	3	7	3	3	5
18	0	7	5	5	3	1	9	10	18	0	7	8	5	0	2	1
18	4	8	9	2	7	0	2	20	18	4	8	1	2	4	0	3
18	2	7	0	0	0	1	4	VI 0 0	18	3	8	1	0	3	1	2

Primum Signorum — + vel + — respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.

381. 27 Piscium 5.				1780	382. ω Piscium 4.				
Ascensio Recta 11° 26' 51" 9"				Argument. pro Aberratione Longitude Solis.	Ascensio Recta 11° 27' 0' 30"				
Variatio annua + 46. 00.					Variatio annua + 46. 30.				
Declinatio * 4° 46' 28" 90. A					Declinatio 5° 38' 47" 40. B				
Variatio annua — 20. 00.					Variatio annua + 20. 02.				
* e Catalogo Majeri									
Aberratio in Ascensu Rectam.	Aberratio in Declination.	Nutatio in Ascensu Rectam.	Nutatio in Declination.	Argument pro Notatione Locus Ω & Ascend	Aberratio in Ascensu Rectam.	Aberratio in Declination.	Nutatio in Ascensu Rectam.	Nutatio in Declination.	
- + + - + - + -	- + - + - + - +	- + - + - + - +	- + - + - + - +	S. G. S.	- + - + - + - +	- + - + - + - +	- + - + - + - +	- + - + - + - +	
13 4 7 9 0 7 0 5	0 7 0 5	0 7 0 5	0 7 0 5	O O VI	18 3 8 2 0 9 0 5	0 9 0 5	0 9 0 5	0 9 0 5	
17 8 7 5 1 5 1 7	1 5 1 7	1 5 1 7	1 5 1 7	10	17 9 8 4 3 6 2 1	1 5 1 7	1 5 1 7	1 5 1 7	
16 9 6 9 3 3 2 8	3 3 2 8	3 3 2 8	3 3 2 8	20	16 9 8 3 6 2 3 6	3 3 2 8	3 3 2 8	3 3 2 8	
15 3 6 0 5 3 3 8	0 5 3 3 8	0 5 3 3 8	0 5 3 3 8	I O VI	15 2 8 0 8 4 4 7	0 5 3 3 8	0 5 3 3 8	0 5 3 3 8	
13 3 5 0 7 2 4 8	0 7 2 4 8	0 7 2 4 8	0 7 2 4 8	10	13 2 7 5 10 3 5 7	0 7 2 4 8	0 7 2 4 8	0 7 2 4 8	
11 1 3 8 8 7 5 8	1 3 8 8 7 5 8	1 3 8 8 7 5 8	1 3 8 8 7 5 8	20	10 8 6 6 11 6 6 5	1 3 8 8 7 5 8	1 3 8 8 7 5 8	1 3 8 8 7 5 8	
8 2 2 5 10 0 6 2	2 5 10 0 6 2	2 5 10 0 6 2	2 5 10 0 6 2	10 VIII	8 4 5 7 12 4 6 9	2 5 10 0 6 2	2 5 10 0 6 2	2 5 10 0 6 2	
5 2 1 1 10 9 6 6	1 1 10 9 6 6	1 1 10 9 6 6	1 1 10 9 6 6	10	5 1 4 6 10 7 6 9	1 1 10 9 6 6	1 1 10 9 6 6	1 1 10 9 6 6	
2 0 0 3 11 4 6 8	0 3 11 4 6 8	0 3 11 4 6 8	0 3 11 4 6 8	20	1 9 3 3 12 1 6 8	0 3 11 4 6 8	0 3 11 4 6 8	0 3 11 4 6 8	
+ - 1 2 1 7 11 6 6 7	1 7 11 6 6 7	1 7 11 6 6 7	1 7 11 6 6 7	III O IX	+ - 1 2 1 9 11 3 6 7	1 7 11 6 6 7	1 7 11 6 6 7	1 7 11 6 6 7	
4 3 3 0 11 7 6 4	3 0 11 7 6 4	3 0 11 7 6 4	3 0 11 7 6 4	10	4 4 0 4 11 4 6 8	3 0 11 7 6 4	3 0 11 7 6 4	3 0 11 7 6 4	
7 3 4 2 11 6 6 3	4 2 11 6 6 3	4 2 11 6 6 3	4 2 11 6 6 3	20	7 5 1 0 11 5 6 6	4 2 11 6 6 3	4 2 11 6 6 3	4 2 11 6 6 3	
10 2 5 4 10 9 5 8	5 4 10 9 5 8	5 4 10 9 5 8	5 4 10 9 5 8	IV O X	10 3 2 4 11 4 6 6	5 4 10 9 5 8	5 4 10 9 5 8	5 4 10 9 5 8	
12 7 6 4 9 9 5 0	6 4 9 9 5 0	6 4 9 9 5 0	6 4 9 9 5 0	10	12 8 3 8 10 4 5 9	6 4 9 9 5 0	6 4 9 9 5 0	6 4 9 9 5 0	
14 8 7 2 8 3 4 0	7 2 8 3 4 0	7 2 8 3 4 0	7 2 8 3 4 0	20	14 8 4 4 8 8 5 1	7 2 8 3 4 0	7 2 8 3 4 0	7 2 8 3 4 0	
16 5 7 7 6 6 3 0	5 7 7 6 6 3 0	5 7 7 6 6 3 0	5 7 7 6 6 3 0	V O XI	16 6 6 3 6 8 4 0	5 7 7 6 6 3 0	5 7 7 6 6 3 0	5 7 7 6 6 3 0	
17 7 8 0 4 9 1 9	7 8 0 4 9 1 9	7 8 0 4 9 1 9	7 8 0 4 9 1 9	10	17 7 7 1 4 4 2 6	7 8 0 4 9 1 9	7 8 0 4 9 1 9	7 8 0 4 9 1 9	
18 3 8 1 2 8 0 7	3 8 1 2 8 0 7	3 8 1 2 8 0 7	3 8 1 2 8 0 7	20	18 3 7 8 1 8 1 2	3 8 1 2 8 0 7	3 8 1 2 8 0 7	3 8 1 2 8 0 7	
18 4 7 9 0 7 0 5	4 7 9 0 7 0 5	4 7 9 0 7 0 5	4 7 9 0 7 0 5	VI O O	18 3 8 2 0 9 0 5	4 7 9 0 7 0 5	4 7 9 0 7 0 5	4 7 9 0 7 0 5	

Primum Signorum — + vel + — respondet sex primis Signis Argumentorum: secundum Signum, sex posterioribus Signis eorundem Argumentorum.

383. 29 Piscium 5.				1780	384. 30 Piscium 5.			
Ascensio Recta II° 27' 38" 21"				Argument. pro Aberatio- ne Longitudo Solis	Ascensio Recta II° 27' 40" 13"			
Variatio annua + 46. 25.					Variatio annua + 46. 30.			
Declinatio 4° 15' 7" 40. A					Declinatio 7° 14' 12" 40. A			
Variatio annua — 20. 03.					Variatio annua — 20. 03.			
Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion	Argument. pro Nutatione Locus $\Omega$ ☉ Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion
— + + — + — + —				S. G. S.	— + + — + — + —			
18 4 7 9 0 6 0 5				0 0 VI	18 4 7 8 1 1 0 5			
18 0 7 5 2 1 2 1				10	18 0 7 8 1 1 0 5			
17 0 6 9 4 7 3 6				20	17 0 6 5 4 3 3 6			
15 4 6 1 7 1 4 7				1 0 VII	15 4 5 6 6 8 4 7			
13 4 5 1 9 2 5 7				10	13 4 4 5 8 9 5 7			
11 0 4 0 10 7 6 5				20	11 0 3 4 10 5 6 5			
8 2 2 7 11 7 6 9				11 0 VIII	8 3 1 0 11 4 6 9			
5 4 1 4 11 8 6 9				10	5 4 0 4 11 6 6 9			
2 2 0 0 12 0 6 8				20	2 2 1 0 11 9 6 8			
+ — — +					+ — — +			
1 0 1 4 11 4 6 7				11 0 IX	1 0 2 4 11 4 6 7			
4 2 2 7 11 7 6 8				10	4 2 3 7 11 8 6 8			
7 2 4 0 12 0 6 6				20	7 2 4 9 12 3 6 6			
10 0 5 1 12 1 6 6				IV 0 X	10 0 6 0 12 4 6 6			
12 6 6 1 11 3 5 9				10	12 6 6 9 11 5 5 9			
14 4 6 9 10 1 5 1				20	14 4 7 6 10 4 5 1			
16 5 7 5 8 2 4 0				V 0 XI	16 5 8 0 8 6 4 0			
17 6 7 9 5 9 2 6				10	17 6 8 2 6 3 2 6			
18 3 8 0 3 3 1 2				20	18 3 8 1 3 8 1 2			
18 4 7 9 0 6 0 5				VI 0 0	18 4 7 8 1 1 0 5			

Primum Signum — + vel + — respondet sex primis Signis  
Argumentorum: secundum Signum, sex posterioribus Signis  
eorundem Argumentorum.

385. 33 Piscium 5.				1780	386. " Andromedæ 2.											
Ascensio Recta 11°28'31"12"				Argument. pro Aberratio- ne Longitudo Solis.	Ascensio Recta 11°29'15'45"											
Variatio annua + 46. 25.					Variatio annua + 46. 00.											
Declinatio 6° 56' 19" 00. A				Declinatio 27° 52' 22" 00. B												
Variatio annua — 20. 05.				Variatio annua — 20. 05.												
Aberra- tio in Ascensu- Rectam.	Aberra- tio in Declina- tione.	Nutatio in Ascensu- Rectam.	Nutatio in Declina- tione.	Argument. pro Nutatione Locus $\Omega$ & Ascensu.	Aberra- tio in Ascensu- Rectam.	Aberra- tio in Declina- tione.	Nutatio in Ascensu- Rectam.	Nutatio in Declina- tione.								
— +	+ —	+ —	— +	S. G. S	— +	+ —	— +	+ —								
18	5	7	8	I I 0 3	O O VI	20	7	7	2	4	8	0	1			
			— +													
18	7	3	1	6	2	0		10	20	4	8	8	7	4	1	8
17	1	6	4	3	3	5		20	19	1	10	0	9	6	3	3
15	6	5	6	6	8	4		I O VII	17	5	10	9	11	6	4	5
13	6	4	5	8	9	5		10	15	4	11	5	13	1	5	5
11	3	3	4	10	5	6		20	12	8	11	7	13	9	6	3
8	7	1	0	11	4	6		II O VIII	9	9	11	6	14	1	6	8
5	7	0	4	11	6	6		10	6	6	11	1	13	1	6	9
			+ —													
2	6	1	0	11	9	6		20	3	1	10	4	12	6	6	8
+ —	— +	+ —	— +						+ —	— +	+ —	— +	+ —	— +	+ —	— +
0	7	2	4	11	4	6		III O IX	0	4	9	3	11	3	6	7
3	9	3	7	11	8	6		10	3	9	7	8	11	0	6	8
6	9	4	9	12	3	6		20	7	3	6	2	10	6	6	7
9	8	6	0	12	4	6		IV O X	10	5	4	4	9	8	6	7
12	4	6	9	11	5	6		10	13	4	2	4	8	1	6	1
14	5	7	6	10	4	5		20	15	9	0	4	6	0	5	3
											+ —	— +	+ —	— +	+ —	— +
16	3	8	0	8	6	4		V O XI	17	9	1	7	3	7	4	3
17	8	8	2	6	3	2		10	19	2	3	6	0	8	2	9
												+ —	— +	+ —	— +	+ —
18	4	8	1	3	8	1		20	20	2	5	5	2	0	1	6
						— +										
18	5	7	8	1	1	0		3 VI O O	20	7	7	2	4	8	0	1

Primum Signorum — + vel + — respondet sex primis Signis Argumentorum: secundum Signum, sex posterioribus Signis eorum lem Argumentorum.



387.  $\beta$  Cassiopeæ 3.

1780

1 \* Phoenicis 2. 3.

Ascensio Recta  $1^{\circ}29'22''54''$   
 Variatio annua  $+45.70.$   
 Declinatio  $57^{\circ}56'16''00B.$   
 Variatio annua  $+20.05.$

Argument.  
 pro  
 Aberratio-  
 ne  
 Longitudo  
 Solis.

Ascensio Recta  $0^{\circ}3'50'31''$   
 Variatio annua  $+44.97.$   
 Declinatio  $43^{\circ}29'52''10A$   
 Variatio annua  $-20.01.$   
 \* Stellæ, quæ sequuntur, sunt  
 e Catalogo de 13 Cællis.

Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tionem.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tionem.	Argument. pro Nutatione Locus $\Omega$ $\textcircled{D}$ Ascend	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tionem.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tionem.
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-		+		-		+		S.	G.	S	-		+		-		+	
34	6	4	0	14	5	0	1	0	0	VI	25	3	6	3	8	2	0	4
34	0	6	8	16	6	1	8		10		25	3	3	9	6	7	1	2
32	3	9	6	18	5	3	3		20		24	4	1	3	3	0	2	7
29	7	11	9	19	5	4	5	I	0	VII	22	9	1	3	0	2	4	7
26	1	13	7	19	8	5	5		10		20	5	3	9	3	2	5	1
21	8	15	6	19	1	6	5		20		17	7	6	3	5	8	5	9
16	8	16	7	16	9	6	8	II	V	III	14	2	8	6	8	0	6	9
11	3	17	4	15	7	6	5		10		10	4	11	3	9	3	6	7
5	4	17	5	13	6	6	8		20		6	1	12	3	10	5	6	7
+	-	-	-	-	-	-	-	III	0	IX	1	7	13	6	11	0	6	7
6	6	16	2	9	5	6	8		10		2	6	14	5	12	5	6	9
12	4	14	6	7	8	6	7		20		7	0	14	9	13	9	7	1
17	8	12	8	5	6	6	7	IV	0	X	11	2	14	9	15	0	6	6
22	7	10	5	2	5	6	1		10		14	9	14	5	15	7	6	5
26	9	7	9	0	5	5	3		20		13	2	13	6	15	2	5	7
30	3	5	1	4	5	4	3	V	0	XI	21	1	12	3	14	6	3	9
32	6	2	1	8	2	2	9		10		23	3	11	3	13	0	3	6
34	2	0	4	11	9	1	6		20		24	7	8	6	11	2	2	0
34	6	4	0	14	5	0	1	V	10	0	25	3	6	3	8	7	0	4

Primum Signorum -- + vel + -- respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.

2. $\alpha$ Polaris 2.				1780	3. $\alpha$ Eridani 1.			
Ascensio Recta $0^{\circ}11^{\circ}59'59''\frac{1}{2}$				Argument. pro Aberratione Longitude Solis.	Ascensio Recta $0^{\circ}22^{\circ}22'39''\frac{2}{3}$			
Variatio annua $-12.53.89.$					Variatio annua $+33.86.$			
Declinatio $18^{\circ}7'53''40B.$					Declinatio $58^{\circ}21'33''40A.$			
Variatio annua $+19.70.$				Variatio annua $-18.57.$				
Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus $\Omega$ Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.
-	+	+	-	S. G. S.	-	+	+	-
8.26.0	3.5	4.10.0	1.8	0 0 VI	32	7	5	5 14
8.33.5	0.0	4.15.3	0.1	10	34	5	2	3 11
8.34.0	3.5	4.11.0	1.6	20	25	3	1	0 7
8.12.0	6.8	3.57.6	2.8	1 0 VII	35	3	4	3 3
7.38.0	9.9	3.33.2	4.2	10	34	1	7	3 0
6.48.0	12.8	3.5.0	5.1	20	32	0	10	1 4
5.48.0	15.2	2.28.8	5.9	11 0 VIII	28	7	12	8 7
4.36.0	17.1	1.51.7	6.1	10	24	6	14	8 9
3.14.0	18.6	1.16.1	6.5	20	19	8	16	5 11
1.48.0	19.5	0.41.6	6.6	11 0 IX	14	4	17	9 12
0.18.0	19.8	0.9.7	6.9	10	8	6	18	6 14
1.12.0	19.5	0.26.3	7.1	20	2	4	18	7 17
2.40.0	18.6	1.5.2	7.4	11 0 X	3	7	18	2 19
4.4.0	17.1	1.51.6	7.1	10	9	7	17	3 20
5.20.0	15.2	2.25.4	6.6	20	15	5	15	7 21
6.26.0	12.8	3.2.8	5.7	11 0 XI	20	9	13	7 20
7.20.0	9.9	3.32.8	4.7	10	25	5	11	2 19
8.0.0	6.8	3.55.7	3.3	20	29	4	9	0 17
8.26.0	3.5	4.10.0	1.8	11 0 O	32	8	5	5 14

Primum Signum  $-- +$  vel  $+ --$  respondet sex primis Signis Argumentorum: secundum Signum sex posterioribus Signis eorundem Argumentorum.

4. α Trianguli 4.								1780	5. α Hydræ 2. 3.								
Ascensio Recta 0° 25' 8" 47"								Argument pro Aberratio- ne Longitudo Solis	Ascensio Recta 0° 27' 57" 24"								
Variatio annua + 50 80									Variatio annua + 28 00								
Declinatio 28° 30' 7" 10 R.									Declinatio 62° 38' 42" 40 A.								
Variatio annua + 18. 15.									Variatio annua — 17 71								
Aberratio in Ascens. Rectam.	Aberratio in Declination.	Nutatio in Ascens. Rectam.	Nutatio in Declination.	Argument pro Nutatione Locus ☉ Ascend.				Aberratio in Ascens. Rectam.	Aberratio in Declination.	Nutatio in Ascens. Rectam.	Nutatio in Declination.						
— + — + — + + —	— + — + — + + —	— + — + — + + —	— + — + — + + —	S. G. S.	— + + — + — + —	— + + — + — + —	— + + — + — + —	— + + — + — + —	— + + — + — + —	— + + — + — + —							
19 5 3 6 4 3 3 8	20 7 5 0 7 2 2 3	21 2 6 3 10 0 0 8	21 0 7 4 12 3 0 8	0 0 VI	37 6 11 1 5 3 4 2	40 0 8 1 13 7 2 8	41 4 5 0 11 8 1 4	41 5 1 7 9 3 0 3	10	40 4 1 7 6 3 1 8	37 4 5 0 3 4 3 0	34 5 8 1 0 6 4 1	30 1 11 1 1 8 4 8	24 4 13 6 3 4 5 4	18 2 15 8 5 0 5 8	11 5 17 5 7 4 6 6	4 2 18 6 10 2 7 1
20 7 5 0 7 2 2 3	21 2 6 3 10 0 0 8	21 0 7 4 12 3 0 8	20 2 8 3 13 9 2 2	20 20	41 5 1 7 9 3 0 3	40 4 1 7 6 3 1 8	41 5 1 7 9 3 0 3	10	37 4 5 0 3 4 3 0	34 5 8 1 0 6 4 1	30 1 11 1 1 8 4 8	24 4 13 6 3 4 5 4	18 2 15 8 5 0 5 8	11 5 17 5 7 4 6 6	4 2 18 6 10 2 7 1		
21 2 6 3 10 0 0 8	21 0 7 4 12 3 0 8	20 2 8 3 13 9 2 2	18 9 9 0 14 9 3 4	10	40 4 1 7 6 3 1 8	41 5 1 7 9 3 0 3	40 4 1 7 6 3 1 8	20	37 4 5 0 3 4 3 0	34 5 8 1 0 6 4 1	30 1 11 1 1 8 4 8	24 4 13 6 3 4 5 4	18 2 15 8 5 0 5 8	11 5 17 5 7 4 6 6	4 2 18 6 10 2 7 1		
21 0 7 4 12 3 0 8	20 2 8 3 13 9 2 2	18 9 9 0 14 9 3 4	16 8 9 3 15 2 4 4	II 0 VIII	41 5 1 7 9 3 0 3	40 4 1 7 6 3 1 8	41 5 1 7 9 3 0 3	II 0 VIII	37 4 5 0 3 4 3 0	34 5 8 1 0 6 4 1	30 1 11 1 1 8 4 8	24 4 13 6 3 4 5 4	18 2 15 8 5 0 5 8	11 5 17 5 7 4 6 6	4 2 18 6 10 2 7 1		
20 2 8 3 13 9 2 2	18 9 9 0 14 9 3 4	16 8 9 3 15 2 4 4	14 5 9 4 14 7 5 1	10	40 4 1 7 6 3 1 8	41 5 1 7 9 3 0 3	40 4 1 7 6 3 1 8	10	37 4 5 0 3 4 3 0	34 5 8 1 0 6 4 1	30 1 11 1 1 8 4 8	24 4 13 6 3 4 5 4	18 2 15 8 5 0 5 8	11 5 17 5 7 4 6 6	4 2 18 6 10 2 7 1		
18 9 9 0 14 9 3 4	16 8 9 3 15 2 4 4	14 5 9 4 14 7 5 1	11 5 9 2 14 1 5 7	20	41 5 1 7 9 3 0 3	40 4 1 7 6 3 1 8	41 5 1 7 9 3 0 3	20	37 4 5 0 3 4 3 0	34 5 8 1 0 6 4 1	30 1 11 1 1 8 4 8	24 4 13 6 3 4 5 4	18 2 15 8 5 0 5 8	11 5 17 5 7 4 6 6	4 2 18 6 10 2 7 1		
16 8 9 3 15 2 4 4	14 5 9 4 14 7 5 1	11 5 9 2 14 1 5 7	8 4 8 7 12 8 6 0	III 0 IX	41 5 1 7 9 3 0 3	40 4 1 7 6 3 1 8	41 5 1 7 9 3 0 3	III 0 IX	37 4 5 0 3 4 3 0	34 5 8 1 0 6 4 1	30 1 11 1 1 8 4 8	24 4 13 6 3 4 5 4	18 2 15 8 5 0 5 8	11 5 17 5 7 4 6 6	4 2 18 6 10 2 7 1		
14 5 9 4 14 7 5 1	11 5 9 2 14 1 5 7	8 4 8 7 12 8 6 0	4 7 8 0 12 5 6 7	10	40 4 1 7 6 3 1 8	41 5 1 7 9 3 0 3	40 4 1 7 6 3 1 8	10	37 4 5 0 3 4 3 0	34 5 8 1 0 6 4 1	30 1 11 1 1 8 4 8	24 4 13 6 3 4 5 4	18 2 15 8 5 0 5 8	11 5 17 5 7 4 6 6	4 2 18 6 10 2 7 1		
11 5 9 2 14 1 5 7	8 4 8 7 12 8 6 0	4 7 8 0 12 5 6 7	1 1 7 0 12 2 7 2	20	41 5 1 7 9 3 0 3	40 4 1 7 6 3 1 8	41 5 1 7 9 3 0 3	20	37 4 5 0 3 4 3 0	34 5 8 1 0 6 4 1	30 1 11 1 1 8 4 8	24 4 13 6 3 4 5 4	18 2 15 8 5 0 5 8	11 5 17 5 7 4 6 6	4 2 18 6 10 2 7 1		
8 4 8 7 12 8 6 0	4 7 8 0 12 5 6 7	1 1 7 0 12 2 7 2	+ —	IV 0 X	40 4 1 7 6 3 1 8	41 5 1 7 9 3 0 3	+ —	IV 0 X	37 4 5 0 3 4 3 0	34 5 8 1 0 6 4 1	30 1 11 1 1 8 4 8	24 4 13 6 3 4 5 4	18 2 15 8 5 0 5 8	11 5 17 5 7 4 6 6	4 2 18 6 10 2 7 1		
4 7 8 0 12 5 6 7	1 1 7 0 12 2 7 2	+ —	2 5 5 7 11 5 7 7	10	41 5 1 7 9 3 0 3	40 4 1 7 6 3 1 8	2 5 5 7 11 5 7 7	10	37 4 5 0 3 4 3 0	34 5 8 1 0 6 4 1	30 1 11 1 1 8 4 8	24 4 13 6 3 4 5 4	18 2 15 8 5 0 5 8	11 5 17 5 7 4 6 6	4 2 18 6 10 2 7 1		
1 1 7 0 12 2 7 2	+ —	2 5 5 7 11 5 7 7	6 2 4 4 9 9 7 8	20	40 4 1 7 6 3 1 8	41 5 1 7 9 3 0 3	6 2 4 4 9 9 7 8	20	37 4 5 0 3 4 3 0	34 5 8 1 0 6 4 1	30 1 11 1 1 8 4 8	24 4 13 6 3 4 5 4	18 2 15 8 5 0 5 8	11 5 17 5 7 4 6 6	4 2 18 6 10 2 7 1		
+ —	2 5 5 7 11 5 7 7	6 2 4 4 9 9 7 8	9 7 2 9 7 7 7 6	V 0 IX	41 5 1 7 9 3 0 3	40 4 1 7 6 3 1 8	9 7 2 9 7 7 7 6	V 0 IX	37 4 5 0 3 4 3 0	34 5 8 1 0 6 4 1	30 1 11 1 1 8 4 8	24 4 13 6 3 4 5 4	18 2 15 8 5 0 5 8	11 5 17 5 7 4 6 6	4 2 18 6 10 2 7 1		
2 5 5 7 11 5 7 7	6 2 4 4 9 9 7 8	9 7 2 9 7 7 7 6	12 7 1 3 4 8 7 2	10	40 4 1 7 6 3 1 8	41 5 1 7 9 3 0 3	12 7 1 3 4 8 7 2	10	37 4 5 0 3 4 3 0	34 5 8 1 0 6 4 1	30 1 11 1 1 8 4 8	24 4 13 6 3 4 5 4	18 2 15 8 5 0 5 8	11 5 17 5 7 4 6 6	4 2 18 6 10 2 7 1		
6 2 4 4 9 9 7 8	9 7 2 9 7 7 7 6	12 7 1 3 4 8 7 2	15 6 0 3 1 9 6 3	20	41 5 1 7 9 3 0 3	40 4 1 7 6 3 1 8	15 6 0 3 1 9 6 3	20	37 4 5 0 3 4 3 0	34 5 8 1 0 6 4 1	30 1 11 1 1 8 4 8	24 4 13 6 3 4 5 4	18 2 15 8 5 0 5 8	11 5 17 5 7 4 6 6	4 2 18 6 10 2 7 1		
9 7 2 9 7 7 7 6	12 7 1 3 4 8 7 2	15 6 0 3 1 9 6 3	+ —	10	40 4 1 7 6 3 1 8	41 5 1 7 9 3 0 3	+ —	10	37 4 5 0 3 4 3 0	34 5 8 1 0 6 4 1	30 1 11 1 1 8 4 8	24 4 13 6 3 4 5 4	18 2 15 8 5 0 5 8	11 5 17 5 7 4 6 6	4 2 18 6 10 2 7 1		
12 7 1 3 4 8 7 2	15 6 0 3 1 9 6 3	+ —	17 8	20	41 5 1 7 9 3 0 3	40 4 1 7 6 3 1 8	17 8	20	37 4 5 0 3 4 3 0	34 5 8 1 0 6 4 1	30 1 11 1 1 8 4 8	24 4 13 6 3 4 5 4	18 2 15 8 5 0 5 8	11 5 17 5 7 4 6 6	4 2 18 6 10 2 7 1		
15 6 0 3 1 9 6 3	+ —	17 8	19 5 3 6 4 3 3 8	VI 0 0	40 4 1 7 6 3 1 8	41 5 1 7 9 3 0 3	19 5 3 6 4 3 3 8	VI 0 0	37 4 5 0 3 4 3 0	34 5 8 1 0 6 4 1	30 1 11 1 1 8 4 8	24 4 13 6 3 4 5 4	18 2 15 8 5 0 5 8	11 5 17 5 7 4 6 6	4 2 18 6 10 2 7 1		
17 8	19 5 3 6 4 3 3 8	VI 0 0	19 5 3 6 4 3 3 8	0 0	41 5 1 7 9 3 0 3	40 4 1 7 6 3 1 8	19 5 3 6 4 3 3 8	0 0	37 4 5 0 3 4 3 0	34 5 8 1 0 6 4 1	30 1 11 1 1 8 4 8	24 4 13 6 3 4 5 4	18 2 15 8 5 0 5 8	11 5 17 5 7 4 6 6	4 2 18 6 10 2 7 1		
19 5 3 6 4 3 3 8	VI 0 0	0 0	19 5 3 6 4 3 3 8	0 0	40 4 1 7 6 3 1 8	41 5 1 7 9 3 0 3	19 5 3 6 4 3 3 8	0 0	37 4 5 0 3 4 3 0	34 5 8 1 0 6 4 1	30 1 11 1 1 8 4 8	24 4 13 6 3 4 5 4	18 2 15 8 5 0 5 8	11 5 17 5 7 4 6 6	4 2 18 6 10 2 7 1		

Primum Signorum — + vel + — respondet sex primis Signis Argumentorum: secundum Signum, sex posterioribus Signis eorundem Argumentorum.

6. β Trianguli 4.								1780	7. γ Trianguli 4.							
Ascen. Recta 0° 29' 7" 32'' $\frac{1}{2}$ Variatio annua + 52. 73. Declinatio 33° 56' 18" 20. B. Variatio annua + 17. 52.								Argument. pro Aberratio- ne Longitudo Solis.	Ascen. Recta 1° 1' 4" 21'' Variatio annua + 52. 84. Declinatio 32° 49' 15" 80 B. Variatio annua + 17. 18.							
Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus Ω Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.		Nutatio in Declina- tion.							
— + — + — + + —				S. G. S.	— + — + — + + —											
20 3 1 7 5 3 4 3				O o VI	19 8 1 8 5 1 4 7											
21 7 3 3 8 4 2 9				10	21 3 3 4 8 1 3 8											
22 8 4 9 11 2 1 5				20	22 2 4 8 10 9 1 8											
22 7 6 2 13 4 0 2				I o VII	22 4 6 1 13 2 0 1											
22 2 7 5 15 2 1 7				10	22 0 7 3 15 1 1 5											
20 9 8 5 16 0 2 9				20	20 8 8 2 15 9 2 6											
19 1 9 2 16 5 4 0				II o VIII	19 0 8 9 16 3 3 8											
16 6 9 6 15 6 4 8				10	16 7 9 3 15 6 4 6											
13 7 9 7 14 8 5 4				20	13 8 9 4 14 9 5 3											
10 3 9 6 13 6 5 8				III o IX	10 6 9 2 13 6 5 8											
6 8 9 2 13 1 5 6				10	6 9 8 8 13 2 6 5											
2 8 8 5 12 5 7 1				20	3 1 8 1 12 6 7 1											
+ — + — + — + —				III o X	+ — + — + — + —											
1 3 7 5 11 8 7 7				10	4 7 5 9 10 9 7 7											
5 1 6 2 9 8 7 9				20	8 4 4 6 7 8 8 0											
8 8 4 9 7 6 7 9				V o XI	11 9 3 0 5 0 7 5											
12 4 3 3 4 6 7 4				10	15 0 1 4 1 6 6 9											
15 5 1 7 1 3 6 8																
+ — + — + — + —				20	17 6 0 0 1 6 5 9											
18 0 0 0 2 0 5 6				VI o O	19 8 1 8 5 1 4 5											
20 3 1 7 5 3 4 3																

Primum Signorum — + vel + — respondet sex primis Signis  
Argumentorum: secundum Signum, sex posterioribus Signis  
eorundem Argumentorum.



8. s Eridani 3. 1780 9. f Plejadum Atlas 5.

Ascensio Recta 1° 20' 29" 14"  $\frac{1}{2}$  Variatio annua + 43. 37. Declinatio 10° 12' 47" 10A. Variatio annua - 12. 71. Argument. pro Aberratione Longitudo Solis. Ascensio Recta 1° 24' 1' 42" Variatio annua + 53. 19. Declinatio 23° 21' 58" 40B. Variatio annua + 11. 78.

Aberratio in Ascens. Reclam. Aberratio in Declination. Nutatio in Ascens. Reclam. Nutatio in Declination. Argument. pro Nutatione Loc. & Ascend. Aberratio in Ascens. Reclam. Aberratio in Declination. Nutatio in Ascens. Reclam. Nutatio in Declination.

						S. G. S.												
+	+	-	+	-	+		-	+	+	-	-	+	+	-				
11	8	10	3	1	0	6	9	0	0	VI	11	8	0	9	3	5	7	3
14	4	9	8	1	6	5	8	10			14	7	0	0	6	9	6	2
16	6	8	9	3	8	4	0	20			17	1	0	9	10	1	5	0
18	2	7	8	6	3	3	0	1	0	VII	19	0	1	7	12	8	3	6
19	2	6	4	8	3	1	6	10			20	3	2	5	15	0	2	1
19	7	4	9	9	8	0	0	20			21	1	3	4	16	2	0	6
19	5	3	3	10	7	1	4			VIII	21	1	3	8	16	9	0	9
18	8	1	4	10	9	2	5	10			20	6	4	3	16	4	2	0
17	6	0	3	11	0	3	5	20			19	4	4	7	15	9	3	0
15	6	2	2	10	5	4	4	III	0	IX	17	6	4	9	15	4	4	0
13	5	4	0	10	9	5	3	10			15	2	5	0	14	9	5	0
10	7	5	5	11	2	6	2	20			12	4	4	9	14	5	6	0
7	7	7	1	11	4	7	3	IV	0	X	9	3	4	7	13	9	7	1
4	4	8	3	10	9	8	0	10			5	8	4	3	12	2	7	8
1	0	9	3	9	6	8	4	20			2	2	3	8	9	9	8	4
2	4	9	0	7	9	8	3	V	0	XI	1	5	3	4	7	1	8	7
5	8	10	4	5	8	8	4	10			5	1	2	5	3	7	8	6
8	9	10	5	3	5	7	8	20			8	7	1	7	0	5	8	1
11	8	10	3	1	4	6	9	VI	0	0	11	8	0	9	3	5	7	3

Primum Signorum — + vel + — respondet sex primis Signis Argumentorum: secundum Signum, sex posterioribus Signis eorundem Argumentorum.

10. ♄ Persei 3. 1780 11. ♄ Persei 3.

Ascensio Recta 1° 25' 54"  
 Variatio annua + 56. 14.  
 Declinatio 31° 12' 52" 40. B  
 Variatio annua + 11. 48.

Argument.  
 pro  
 Aberratio-  
 ne  
 Longitudo  
 Solis.

Ascensio Recta 1° 25' 47' 12"  
 Variatio annua + 59. 76.  
 Declinatio 39° 21' 24" 60. B.  
 Variatio annua + 11. 28.

Aberra- tio in Ascensu. Reclam.	Aberra- tio in Declina- tion.	Nutatio in Ascensu. Reclam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus ♄ ♄ Ascend.	Aberra- tio in Ascensu. Reclam.	Aberra- tio in Declina- tion.	Nutatio in Ascensu. Reclam.	Nutatio in Declina- tion.
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				S. G. S.														
-	+	+	-	-	+	+	-	-	+	+	-	-	+	+	-			
12	4	0	8	3	3	7	4	0	0	VI	13	3	2	3	4	2	7	4
15	5	0	3	6	5	6	3	10	16	8	1	0	7	8	6	3		
17	9	1	3	9	6	5	1	20	19	8	0	4	11	1	5	1		
20	3	2	3	12	4	3	7	I 0 VII	22	0	1	8	14	1	3	7		
21	7	3	3	14	6	2	2	10	23	9	3	1	16	2	2	2		
22	5	4	2	15	8	0	7	20	24	9	4	4	17	5	0	8		
22	7	4	8	16	6	0	8	II 0 VIII	24	1	5	5	18	2	0	7		
22	2	5	5	16	2	1	9	10	24	6	6	3	17	6	1	8		
20	9	5	8	15	6	2	9	20	23	3	7	1	17	1	2	9		
19	1	6	1	14	8	3	9	III 0 IX	21	3	7	6	15	9	3	8		
16	6	6	1	14	3	4	9	10	18	7	7	9	15	4	4	8		
13	7	5	9	14	5	5	9	20	15	5	8	0	15	2	5	9		
10	3	5	7	13	7	7	0	IV 0 X	11	8	7	8	14	4	7	0		
6	6	5	1	12	2	7	8	10	7	7	7	4	12	6	7	8		
2	8	4	5	10	0	8	4	20	3	4	6	7	10	1	8	4		
+									+									
1	3	4	6	7	2	8	7	V 0 XI	0	9	5	9	7	1	3	7		
5	1	2	7	3	9	8	6	10	5	2	4	8	3	5	3	6		
8	8	1	7	0	5	8	1	20	9	4	3	6	0	4	8	1		
12	4	0	8	3	3	7	4	VI 0 0	13	3	2	3	4	2	7	4		

Primum Signorum -- + vel + -- respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.

12. I Eridani 4. 5.				1780		13. 0 Eridani 4.										
Ascensio Recta 1° 26' 5' 21"				Argument. pro Aberratione Longitudo Solis.		Ascen Recta 2° 0' 17' 20" $\frac{1}{5}$										
Variatio annua + 38. 31.						Variatio annua + 43. 91.										
Declinatio 25° 16' 29" 60 A.						Declinatio 7° 25' 23" 10 A.										
Variatio annua - 11. 19.						Variatio annua - 9. 94.										
Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus $\square$ Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.								
-	+	+	-	S. G. S.	-	+	+	-								
II	4	9	3	2	3	7	4	O 0 VI	9	2	9	8	0	6	7	8
14	4	7	3	0	1	6	4	10	12	1	9	5	2	0	6	9
16	9	5	1	1	9	5	2	20	14	7	8	8	4	5	5	8
19	0	2	9	4	3	3	8	I C VII	16	7	7	9	6	8	4	3
20	4	0	3	6	1	2	3	10	18	3	6	8	8	7	2	9
21	3	2	4	7	5	0	9	20	19	3	5	4	10	1	1	5
21	5	4	7	8	6	0	6	II 0 VIII	19	7	3	9	II	0	0	0
21	1	6	9	8	9	1	8	10	19	5	2	2	II	1	1	4
20	0	9	0	9	1	2	9	20	18	7	0	5	II	2	2	4
18	2	II	6	8	8	3	8	III 0 IX	17	4	1	2	10	7	3	4
16	0	13	1	9	4	4	8	10	15	6	2	9	II	0	4	4
3	2	14	3	10	0	5	9	20	3	2	4	5	II	3	5	5
0	1	15	1	10	4	7	0	IV 0 X	10	5	6	0	II	3	6	7
6	6	14	3	10	0	7	8	10	7	4	7	3	10	6	7	7
3	0	14	1	9	2	8	4	20	4	1	8	4	9	4	8	3
+	-															
0	8	13	5	7	9	8	7	V 0 XI	0	7	9	1	7	6	8	7
4	5	12	5	6	2	8	6	10	+	-						
8	0	11	2	4	3	8	1	20	2	8	9	7	5	5	8	8
11	4	9	3	2	3	7	4	VI 0 0	6	1	9	9	3	1	8	5
									9	2	9	8	0	6	7	8

Primum Signorum - + vel + - respondet sex primis Signis  
Argumentorum; secundum Signum, sex posterioribus Signis  
eorundem Argumentorum.

14. v Eridani 3.				1780	15. 53. Eridani 4.											
Ascensio Recta 2° 45' 16" $\frac{1}{2}$				Argument. pro Aberratione Longitude Solis.	Ascensio Recta 2° 7' 59" $\frac{1}{2}$											
Variatio annua + 35 10.					Variatio annua + 41. 31.											
Declinatio 31° 1' 22" 90 A.					Declinatio 14° 44' 42" 80 A.											
Variatio annua - 7. 91.					Variatio annua - 7. 83.											
Aberratio in Ascens. Rectam.	Aberratio in Declination.	Nutatio in Ascens. Rectam.	Nutatio in Declination.	Argument. pro Nutatione Locus $\Omega$ Ascend.	Aberratio in Ascens. Rectam.	Aberratio in Declination.	Nutatio in Ascens. Rectam.	Nutatio in Declination.								
-	+	+	-	+	-	+	+	-	+	-	-	+				
8	6	15	4	2	2	8	2	S. G. S.	7	7	12	1	1	0	8	3
								0 0 VI								
11	9	14	5	0	3	7	5	10	10	5	11	5	1	4	7	6
15	5	13	1	1	5	6	5	20	13	7	10	7	3	6	6	6
18	2	11	3	3	4	5	1	I 0 VII	16	1	9	5	5	7	5	2
20	4	9	2	5	1	3	7	10	18	0	8	0	7	7	3	8
22	0	6	8	6	5	3	2	20	19	4	6	2	9	0	3	2
22	9	4	1	7	4	0	9	II 0 VIII	20	2	4	3	9	9	0	9
23	1	1	4	7	7	0	5	10	20	4	2	5	10	1	0	5
22	6	1	4	8	0	1	8	20	20	0	0	2	10	2	1	8
21	4	4	1	7	8	2	8	III 0 IX	18	9	1	9	9	7	2	3
19	6	6	8	8	2	3	9	10	17	3	3	9	10	1	2	9
17	2	9	2	8	7	5	0	20	15	2	5	8	10	4	5	1
14	2	11	3	9	1	6	4	IV 0 X	12	5	7	7	10	7	6	5
10	8	13	1	8	9	7	3	10	9	6	9	2	10	0	7	4
7	1	14	5	8	0	8	1	20	6	3	10	5	8	8	8	2
3	2	15	4	7	2	8	7	V 0 XI	2	8	11	5	7	3	8	8
+	-							10	+	-						
0	8	15	9	5	7	8	9	10	0	7	12	0	5	4	9	0
4	8	15	9	4	0	8	7	20	4	3	12	2	3	2	8	8
8	6	15	4	2	2	8	2	VI 0 0	7	7	12	1	1	0	8	3

Primum Signorum — + vel + — respondet sex primis Signis Argumentorum: secundum Signum, sex posterioribus Signis eorundem Argumentorum.



16. 54. Eridani 3.

1780

17. η Orionis 3.

Ascensio Recta 2° 7' 43" 1"  
 Variatio annua + 39. 38.  
 Declinatio 20° 7' 23" 20 A.  
 Variatio annua — 7. 61.

Argument.  
 Aberratio  
 in  
 Longitudo  
 Solis.

Ascensio Recta 2° 18' 21" 56"  
 Variatio annua + 45. 27.  
 Declinatio 2° 36' 50" 90 A.  
 Variatio annua — 4. 05.

Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tio.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tio.	Argument. pro Nutatione Locus Ω ♁ Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tio.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tio.								
—	+	+	—	+	—	+	—	+	—	+	—	+				
7	5	13	2	1	3	8	3	S. G. S. O o VI	3	8	8	9	0	1	8	8
10	8	12	5	1	0	7	6	10	7	2	8	7	2	5	8	3
13	8	11	5	3	0	6	6	20	10	3	8	3	5	1	7	6
15	6	10	0	5	0	5	2	I o VII	13	1	7	6	7	3	6	5
18	4	8	3	7	0	3	8	10	15	6	6	8	9	3	5	2
19	7	6	3	8	3	3	2	20	17	4	5	7	10	7	3	8
20	7	4	2	9	2	0	9	II o VIII	18	7	4	4	II	6	2	4
21	0	I	9	9	4	0	5	10	19	7	2	9	II	7	I	2
20	6	0	4	9	5	I	8	20	19	9	I	4	II	7	0	3
19	6	2	8	9	2	2	8	III o IX	10	6	0	2	II	0	I	5
18	0	5	1	9	5	2	9	10	18	6	1	7	II	2	2	7
15	8	7	2	9	9	5	1	20	17	I	3	2	II	5	3	8
13	2	9	0	10	2	6	5	IV o X	15	I	4	6	II	5	5	2
10	2	10	6	9	6	7	4	10	12	6	5	9	10	7	6	4
6	8	12	0	8	6	8	2	20	9	7	7	0	9	4	7	4
3	3	12	9	7	3	8	8	V o XI	6	5	7	8	7	4	8	3
+	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
0	4	13	4	5	4	9	c	10	3	I	8	4	5	3	8	8
4	0	13	5	3	4	8	8	20	+	0	4	8	8	2	7	0
7	5	13	2	1	3	8	3	VI o O	3	8	8	9	0	1	8	8

Primum Signorum — + vel + — respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.

18. ♀ Orionis 3.				1780	19. ♀ Orionis 2.			
Ascensio Recta 2° 21' 10" 18 <sup>1</sup> / <sub>2</sub>				Argument. pro Aberratione Longitude Solis.	Ascensio Recta 2° 22' 25" 17 <sup>1</sup> / <sub>2</sub>			
Variatio annua + 44. 06.					Variatio annua + 45. 45.			
Declinatio 6° 4' 5" 80 A.					Declinatio 2° 4' 24" 70 A.			
Variatio annua - 3. 08.					Variatio annua - 2. 65.			
Aberratio in Ascensu. Rectam.	Aberratio in Declination.	Nutatio in Ascensu. Rectam.	Nutatio in Declination.	Argument. pro Nutatione Locus ♀ Ascend.	Aberratio in Ascensu. Rectam.	Aberratio in Declination.	Nutatio in Ascensu. Rectam.	Nutatio in Declination.
- + + - + - - +	- + + - + - - +	- + + - + - - +	- + + - + - - +	S. G. S.	- + + - + - - +	- + + - + - - +	- + + - + - - +	- + + - + - - +
2 8 9 8 0 1 8 9	2 8 9 8 0 1 8 9	2 8 9 8 0 1 8 9	2 8 9 8 0 1 8 9	0 0 VI	2 4 8 7 0 1 8 9	2 4 8 7 0 1 8 9	2 4 8 7 0 1 8 9	2 4 8 7 0 1 8 9
6 2 9 6 2 4 8 6	6 2 9 6 2 4 8 6	6 2 9 6 2 4 8 6	6 2 9 6 2 4 8 6	10	5 9 8 6 2 5 8 6	5 9 8 6 2 5 8 6	5 9 8 6 2 5 8 6	5 9 8 6 2 5 8 6
9 4 9 1 4 8 7 8	9 4 9 1 4 8 7 8	9 4 9 1 4 8 7 8	9 4 9 1 4 8 7 8	20	9 1 8 2 5 1 7 8	9 1 8 2 5 1 7 8	9 1 8 2 5 1 7 8	9 1 8 2 5 1 7 8
12 4 8 3 7 0 0 6 8	12 4 8 3 7 0 0 6 8	12 4 8 3 7 0 0 6 8	12 4 8 3 7 0 0 6 8	I 0 VII	12 0 7 6 7 3 6 0 6	12 0 7 6 7 3 6 0 6	12 0 7 6 7 3 6 0 6	12 0 7 6 7 3 6 0 6
15 0 7 4 9 0 0 5 5	15 0 7 4 9 0 0 5 5	15 0 7 4 9 0 0 5 5	15 0 7 4 9 0 0 5 5	10	14 6 6 7 9 3 5 5 6	14 6 6 7 9 3 5 5 6	14 6 6 7 9 3 5 5 6	14 6 6 7 9 3 5 5 6
17 1 6 0 10 3 4 2 2	17 1 6 0 10 3 4 2 2	17 1 6 0 10 3 4 2 2	17 1 6 0 10 3 4 2 2	20	16 8 5 6 10 7 7 4 2	16 8 5 6 10 7 7 4 2	16 8 5 6 10 7 7 4 2	16 8 5 6 10 7 7 4 2
18 6 4 7 11 1 2 8 8	18 6 4 7 11 1 2 8 8	18 6 4 7 11 1 2 8 8	18 6 4 7 11 1 2 8 8	II 0 VIII	18 4 4 3 11 6 3 0 0	18 4 4 3 11 6 3 0 0	18 4 4 3 11 6 3 0 0	18 4 4 3 11 6 3 0 0
19 7 3 1 11 2 1 4 4	19 7 3 1 11 2 1 4 4	19 7 3 1 11 2 1 4 4	19 7 3 1 11 2 1 4 4	10	19 5 3 0 11 7 1 0 5	19 5 3 0 11 7 1 0 5	19 5 3 0 11 7 1 0 5	19 5 3 0 11 7 1 0 5
20 1 1 4 11 2 0 1 1	20 1 1 4 11 2 0 1 1	20 1 1 4 11 2 0 1 1	20 1 1 4 11 2 0 1 1	20	20 0 1 5 11 7 0 2	20 0 1 5 11 7 0 2	20 0 1 5 11 7 0 2	20 0 1 5 11 7 0 2
19 9 0 3 10 5 1 2	19 9 0 3 10 5 1 2	19 9 0 3 10 5 1 2	19 9 0 3 10 5 1 2	III 0 IX	19 8 0 0 11 0 1 2	19 8 0 0 11 0 1 2	19 8 0 0 11 0 1 2	19 8 0 0 11 0 1 2
19 1 2 1 10 7 2 2	19 1 2 1 10 7 2 2	19 1 2 1 10 7 2 2	19 1 2 1 10 7 2 2	10	19 1 1 5 11 2 2 1	19 1 1 5 11 2 2 1	19 1 1 5 11 2 2 1	19 1 1 5 11 2 2 1
17 8 3 8 11 1 3 5	17 8 3 8 11 1 3 5	17 8 3 8 11 1 3 5	17 8 3 8 11 1 3 5	20	17 9 3 11 5 3 4	17 9 3 11 5 3 4	17 9 3 11 5 3 4	17 9 3 11 5 3 4
15 9 5 3 11 2 4 9	15 9 5 3 11 2 4 9	15 9 5 3 11 2 4 9	15 9 5 3 11 2 4 9	IV 0 X	16 0 4 3 11 5 4 8	16 0 4 3 11 5 4 8	16 0 4 3 11 5 4 8	16 0 4 3 11 5 4 8
13 5 6 6 10 4 6 1	13 5 6 6 10 4 6 1	13 5 6 6 10 4 6 1	13 5 6 6 10 4 6 1	10	13 7 5 6 10 7 6 0	13 7 5 6 10 7 6 0	13 7 5 6 10 7 6 0	13 7 5 6 10 7 6 0
10 6 7 7 9 1 7 1	10 6 7 7 9 1 7 1	10 6 7 7 9 1 7 1	10 6 7 7 9 1 7 1	20	10 9 6 7 9 4 7 1	10 9 6 7 9 4 7 1	10 9 6 7 9 4 7 1	10 9 6 7 9 4 7 1
7 5 8 6 7 3 7 5	7 5 8 6 7 3 7 5	7 5 8 6 7 3 7 5	7 5 8 6 7 3 7 5	V 0 XI	7 8 7 6 7 4 7 5	7 8 7 6 7 4 7 5	7 8 7 6 7 4 7 5	7 8 7 6 7 4 7 5
4 2 9 3 5 1 8 7	4 2 9 3 5 1 8 7	4 2 9 3 5 1 8 7	4 2 9 3 5 1 8 7	10	4 5 8 2 5 3 8 7	4 5 8 2 5 3 8 7	4 5 8 2 5 3 8 7	4 5 8 2 5 3 8 7
0 7 9 7 2 6 9 0	0 7 9 7 2 6 9 0	0 7 9 7 2 6 9 0	0 7 9 7 2 6 9 0	20	1 0 8 6 2 7 9 0	1 0 8 6 2 7 9 0	1 0 8 6 2 7 9 0	1 0 8 6 2 7 9 0
+ - + - + - - +	+ - + - + - - +	+ - + - + - - +	+ - + - + - - +		+ - + - + - - +	+ - + - + - - +	+ - + - + - - +	+ - + - + - - +
2 8 9 8 0 1 8 9	2 8 9 8 0 1 8 9	2 8 9 8 0 1 8 9	2 8 9 8 0 1 8 9	VI 0 0	2 4 8 7 0 1 8 9	2 4 8 7 0 1 8 9	2 4 8 7 0 1 8 9	2 4 8 7 0 1 8 9

Primum Signorum — + Vel + — respondet sex primis Signis  
Argumentorum: secundum Signum, sex posterioribus Signis  
eorundem Argumentorum.

20. α Columbæ 2.				1780	21. × Orionis 3.			
Ascensio Recta 2 <sup>s</sup> 22°55'32"				Argument. pro Aberratio- ne Longitude Solis.	Ascensio Recta 2 <sup>s</sup> 24°20'12"			
Variatio annua + 32. 65.					Variatio annua + 72. 74.			
Declinatio 34°12'4"40 A.				Declinatio 9°45'36"50 A.				
Variatio annua — 2. 47.				Variatio annua — 1. 98.				
Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus $\mathcal{D}$ Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.
— + + — + — — +				S. G. S.	— + + — + — — +			
2 9 16 8 0 8 8 9				0 0 VII	2 1 10 9 0 2 9 0			
7 0 16 1 0 9 8 6				10	5 6 10 7 2 2 8 7			
10 9 15 1 2 6 7 9				20	8 9 10 0 4 6 8 0			
14 5 13 4 4 2 7 0				1 0 VII	12 0 9 3 6 8 7 1			
17 6 11 6 5 4 5 7				10	14 6 8 2 8 6 5 8			
20 2 9 3 6 5 4 4				20	16 8 6 7 9 9 4 5			
22 2 6 6 7 3 3 0				11 0 VIII	18 6 5 2 10 8 3 1			
23 5 3 8 7 3 1 6				10	19 7 3 4 10 8 1 8			
24 1 0 9 7 4 0 4				20	20 2 1 5 10 9 0 5			
23 9 2 1 7 0 1 0				III 0 IX	20 2 0 4 10 1 0 8			
23 0 5 0 7 2 2 1				10	19 5 2 3 10 5 2 0			
21 5 7 7 5 3 3 1				20	18 3 4 1 10 7 3 1			
19 0 10 2 7 5 4 7				IV 0 X	16 8 5 8 10 7 4 6			
16 5 12 4 7 4 6 0				10	14 1 7 4 10 1 5 9			
13 1 14 2 7 4 7 1				20	11 3 8 6 8 7 7 1			
9 4 15 7 5 4 7 7				V 0 XI	8 2 9 6 7 0 7 9			
5 4 16 5 3 9 8 7				10	4 9 10 3 5 0 8 6			
1 3 16 9 2 4 9 0				20	1 0 10 8 2 5 9 c			
+ —					+ —			
2 9 16 8 0 8 9 0				VI 0 0	2 1 10 9 0 2 9 c			

Primum Signorum — + vel + — respondet sex primis Signis  
Argumentorum secundum Signum, sex posterioribus Signis  
eorundem Argumentorum.

22. $\delta$ Leporis 3. 4.				1780				23. $\beta$ Aurigæ 3.									
Ascensio Recta $2^{\circ} 25' 37'' 12''$ Variatio annua $+ 38. 54.$ Declinatio $20^{\circ} 54' 21'' 90 A.$ Variatio annua $- I. 58.$				Argument pro Aberratione Longitude Solis.				Ascensio Recta $2^{\circ} 25' 50' 58''$ Variatio annua $+ 66. 10$ Declinatio $44^{\circ} 54' 7'' 70 B.$ Variatio annua $- I. 46.$									
Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus & Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.									
-	+	+	-	+	-	+	+	-	-	+	+	-	-	+	+	-	
I	5	13	9	0	3	9	0	0	S. G. S.	2	0	7	3	0	7	9	0
				-	+				O O VI								
5	2	13	6	1	8	8	7	10	10	6	9	7	4	5	0	8	7
8	7	12	8	3	9	8	0	20	20	11	6	7	3	9	1	8	0
11	9	11	7	5	7	7	2	I O VII	I O VII	15	9	7	0	12	6	7	2
14	8	10	2	7	3	5	9	10	10	19	7	6	4	15	6	5	9
17	3	8	4	8	5	4	6	20	20	22	0	5	7	17	6	4	6
19	3	6	4	9	3	3	2	II O VIII	II O VIII	25	5	4	7	19	0	3	2
20	4	4	1	9	4	1	9	10	10	27	3	3	7	17	0	1	9
21	2	1	7	9	4	0	7	20	20	28	3	2	5	18	8	0	7
				+	-												
21	3	0	7	8	8	0	6	III O IX	III O IX	28	3	1	3	18	1	0	6
20	7	3	2	9	1	1	8	10	10	27	5	0	0	18	2	1	8
19	6	5	5	9	3	3	0	20	20	26	0	1	3	18	4	3	0
17	7	7	6	9	4	4	4	IV O X	IV O X	23	6	2	5	18	0	4	4
15	3	9	5	8	7	5	7	10	10	20	4	3	7	16	5	5	7
12	5	11	0	7	7	7	0	20	20	16	7	4	7	14	3	7	0
9	4	12	4	6	3	7	8	V O XI	V O XI	12	5	5	7	11	4	7	8
5	9	13	3	4	4	8	6	10	10	7	8	6	4	7	5	8	6
2	2	13	8	2	4	9	0	20	20	2	9	7	0	3	4	9	0
+	-									+	-			+	-		
I	5	13	9	0	3	9	0	VI O O	VI O O	2	0	7	3	0	7	9	0

Primum Signorum  $- +$  vel  $+ -$  respondet sex primis Signis  
Argumentorum: secundum Signum, sex posterioribus Signis  
eorundem Argumentorum.



24.  $\beta$  Columbæ 3.

1780

25.  $\zeta$  Canis majoris. 3.

Ascensio Recta  $2^{\circ} 25' 48'' 23''$   
 Variatio annua  $+ 31. 72.$   
 Declinatio  $35^{\circ} 51' 52'' 50. A$   
 Variatio annua  $- 1. 47.$

ARGUMENT.  
 pro  
 Aberratione  
 Longitudo  
 Solis.

Ascensio Recta  $3^{\circ} 2^{\circ} 58' 18''$   
 Variatio annua  $+ 44. 62.$   
 Declinatio  $29^{\circ} 58' 37'' 10. A$   
 Variatio annua  $- 1. C4.$

Aberra- tio in Ascens. Reclam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Reclam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus $\odot$ Ascens.	Aberra- tio in Ascens. Reclam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Reclam.	Nutatio in Declina- tion.
---	--	-------------------------------------	------------------------------------	---	---	--	-------------------------------------	------------------------------------

-	+	+	-	+	-	-	+	S. G. S	+	-	+	-	-	+	-	+
1	7	17	1	0	5	9	0	Q $\odot$ VI	1	3	16	1	0	2	9	0
5	9	16	4	1	1	8	7	10	2	8	15	9	2	1	9	0
10	0	15	4	2	6	8	0	20	6	7	15	1	3	8	8	0
13	8	13	5	4	2	7	2	I $\odot$ VII	10	4	14	2	4	4	7	0
17	2	11	7	5	5	5	9	10	13	9	12	5	6	8	6	0
20	0	9	4	6	3	4	6	20	16	9	10	6	7	6	6	0
22	3	6	7	6	9	3	2	HO VIII	19	4	8	3	8	3	4	0
23	8	3	8	7	0	1	9	10	21	2	5	7	8	3	2	0
24	6	0	9	6	9	0	7	20	22	5	3	0	8	1	1	0
24	6	2	1	6	5	0	6	III $\odot$ IX	23	1	0	3	7	5	0	0
24	0	5	0	6	5	1	8	10	22	9	2	5	7	6	1	0
22	6	7	8	6	9	3	0	20	22	1	5	2	7	9	2	0
20	5	10	3	7	1	4	4	IV $\odot$ X	20	6	7	8	7	9	3	0
17	8	12	6	6	7	5	7	10	18	2	10	1	7	2	4	0
14	5	14	4	6	0	7	0	20	15	8	12	1	6	3	6	0
10	8	15	9	4	8	7	8	V $\odot$ XI	12	6	13	8	4	9	7	0
6	8	16	7	3	5	8	6	10	8	9	15	0	3	3	8	0
2	6	17	2	2	0	9	0	20	5	2	15	8	1	5	8	0
+	-															
1	8	17	1	0	5	9	0	VI $\odot$ Q	1	3	16	1	0	2	9	0

Primum Signorum — + vel + — respondet sex primis Signis  
 Argumentorum: secundum Signum sex posterioribus Signis  
 eorundem Argumentorum.

26.  $\beta$  Canis major. 2.

1780

2.  $\alpha$  Canobus 1.

Ascensio Recta  $3^{\circ}3'15''17''\frac{1}{2}$   
 Variatio annua  $+ 39. 72.$   
 Declinatio  $17^{\circ}51'39''40'' A.$   
 Variatio annua  $+ 1. 14.$

Argument.  
 pro  
 Aberratio-  
 ne  
 Longitudo  
 Solis.

Ascensio Recta  $3^{\circ}4'46''8''$   
 Variatio annua  $+ 20. 06.$   
 Declinatio  $52^{\circ}54'52''90'' A.$   
 Variatio annua  $+ 1. 67.$

Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.	Argument. pro Nutatione Loci $\Omega$ & Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.
+ -	+ -	+ -	+ -	S. G. S.	+ -	+ -	+ -	+ -
1 13	2 0	1 9	0 0	VI.	2 3	19 4	1 0	9 0
+					+			
2 5	13 1	2 4	9 0	10	3 4	18 2	1 7	9 0
6 1	12 6	4 4	8 6	20	9 1	18 5	2 3	8 0
9 6	11 7	6 4	7 7	10 VII	14 5	17 5	2 9	7 8
12 6	10 4	8 0	6 8	10	19 4	15 7	3 4	7 0
15 4	8 8	9 1	6 0	20	23 7	13 5	3 9	6 2
17 6	7 0	9 9	4 8	10 VIII	27 3	10 8	4 0	5 0
19 3	5 0	9 9	2 9	10	30 1	7 9	3 5	3 1
20 5	2 7	9 8	1 6	20	32 0	4 7	3 4	1 9
21 0	0 4	9 2	0 3	10 IX	32 9	1 3	2 8	0 7
	+		+			+		+
20 8	1 8	9 4	1 0	10	32 8	2 0	2 7	0 6
20 0	4 1	9 0	2 2	20	31 7	5 4	2 8	1 8
18 7	6 2	9 6	3 4	10 X	29 7	8 5	2 7	3 2
16 6	8 1	8 8	4 9	10	26 7	11 5	2 6	4 6
14 3	9 8	7 7	6 2	20	22 9	13 9	2 1	5 9
11 4	11 2	6 1	7 3	10 XI	18 5	16 1	1 2	7 1
8 3	12 2	4 1	8 2	10	13 4	17 8	0 4	8 0
		+	-			+	-	
4 7	12 9	2 1	8 8	20	8 0	18 8	0 3	8 7
1 1	13 2	0 1	9 0	10 VI	2 3	19 4	1 0	9 0

Primum Signorum — + vel + — respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.



30.  $\beta$  Canis minoris 3.

1780

31.  $\xi$  Argonavis 3. 4.

Afcentio Recta  $3^{\circ} 18' 48'' 17''$   
 Variatio annua  $+ 49. 10.$   
 Declinatio  $8^{\circ} 43' 12'' 40 B.$   
 Variatio annua  $- 6. 47.$

Argument.  
 pro  
 Aberratio-  
 ne  
 Longitude  
 Solis.

Afcentio Recta  $3^{\circ} 25' 0'' 46''$   
 Variatio annua  $+ 37. 96.$   
 Declinatio  $24^{\circ} 19' 12'' 50 A.$   
 Variatio annua  $+ 8. 47.$

Aberra- tio in Ascens. Reclam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Reclam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus $\Omega$ Ascend.	Aberra- tio in Ascens. Reclam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Reclam.	Nutatio in Declina- tion.
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+	-	+	-	+	-	S. G. S.	+	-	+	-	+	-	+					
5	9	5	3	0	5	8	6	0	0	VI	8	5	14	2	1	6	8	1
2	4	5	0	2	6	8	9	10			4	8	14	5	3	7	8	7
1	0	4	6	5	3	8	9	20			1	2	14	3	5	8	8	9
4	5	4	0	7	9	8	5	I	0	VII	2	6	13	9	7	2	8	7
7	8	3	4	10	2	7	8	10			6	3	13	0	8	7	8	1
10	9	2	6	11	7	6	8	20			9	8	11	4	9	7	7	3
13	7	1	7	12	7	5	8	II	0	VIII	12	9	9	9	9	9	6	5
16	0	0	8	12	9	4	4	10			15	6	7	9	9	7	5	1
18	0	0	1	12	8	3	2	20			28	0	5	7	9	5	4	0
19	2	1	0	12	3	2	1	III	0	IX	19	8	3	3	8	6	2	8
19	9	1	9	12	7	1	2	10			21	1	0	7	8	8	1	9
20	1	2	7	13	0	0	3	20			21	6	1	7	8	6	0	6
19	6	3	6	13	0	1	6	IV	0	X	21	4	4	2	8	4	0	5
18	5	4	1	12	2	3	1	10			20	6	6	6	7	6	1	9
17	1	4	7	10	7	4	5	20			19	3	8	7	6	1	3	5
14	6	5	0	8	6	5	8	V	0	XI	17	0	10	6	4	5	4	9
12	0	5	2	6	1	7	0	10			14	7	12	2	2	4	6	2
9	1	5	3	3	4	7	9	20			11	7	13	4	0	3	7	4
5	9	5	3	0	5	8	6	VI	0	0	8	5	14	2	1	6	8	1

Primum Signorum — + vel + — respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.



32. ♀ Argonavis 2.

1780

33. ♀ Argonavis 3. 4.

Ascen. Recta  $3^{\circ} 28' 57'' \frac{1}{2}$   
 Variatio annua  $+ 31. 77.$   
 Declinatio  $39^{\circ} 23' 28'' 70 A.$   
 Variatio annua  $+ 9. 70.$

Argument.  
 pro  
 Abertatio-  
 ne  
 Longitudo  
 Solis.

Ascensio Recta  $3^{\circ} 29' 32' 42'' \frac{1}{2}$   
 Variatio annua  $+ 38. 52.$   
 Declinatio  $23^{\circ} 40' 58'' 00 A.$   
 Variatio annua  $+ 9. 88.$

Aber- ratio in Ascens. Reclam.	Aber- ratio in Declina- tion.	Nutatio in Ascens. Reclam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus ♀ Ascend.	Aber- ratio in Ascens. Reclam.	Aber- ratio in Declina- tion.	Nutatio in Ascens. Reclam.	Nutatio in Declina- tion.
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+	-	+	-	+	-	+	-	S G. S.	+	-	+	-	+	-	+	-
11	4	16	3	3	6	7	9	0 0 VI	9	8	13	7	2	0	7	9
7	4	17	1	5	0	8	6	10	6	3	14	1	3	9	8	6
3	0	17	4	0	4	8	8	20	2	6	14	2	5	9	8	8
+	+								-	+						
1	3	17	2	7	4	8	7	I 0 VII	1	1	13	8	7	6	8	7
5	6	16	4	8	4	8	8	10	4	8	13	0	8	9	8	3
10	0	15	2	8	7	7	6	20	8	5	11	8	9	8	7	6
13	8	13	5	8	8	6	7	II 0 VIII	11	7	10	2	10	3	6	7
17	2	11	4	8	2	5	4	10	14	6	8	3	9	9	5	4
20	0	9	0	7	7	4	4	20	16	9	6	3	9	6	4	4
22	6	6	2	6	7	3	4	III 0 IX	19	2	3	9	8	7	3	4
24	2	3	3	7	4	2	2	10	20	5	1	5	8	8	2	2
25	1	0	3	6	1	1	3	20	21	3	1	0	7	8	1	3
25	3	2	6	4	7	0	1	IV 0 X	21	5	3	4	8	4	0	1
24	7	5	7	4	6	1	6	10	21	0	5	7	7	5	1	6
23	3	0	4	3	2	3	1	20	19	8	7	9	6	1	3	1
21	2	11	0	1	5	4	5	V 0 XI	18	0	9	9	4	3	4	5
18	5	13	1	0	1	5	9	10	15	7	11	5	2	8	5	9
15	2	14	9	1	8	7	0	20	12	9	12	8	0	1	7	0
11	4	16	3	3	6	7	9	VI 0 0	9	8	13	7	2	0	7	9

Primum Signorum — + vel + — respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum



36. ζ Hydræ 3. 4.

1780

37. χ Ursæ majoris 4.

Afcen. Recta 4° 10' 56" 15"  
 Variatio annua + 47. 96.  
 Declinatio 6° 46' 42" 10. U.  
 Variatio annua — 13. 13.

Argument.  
 pro  
 Aberratio-  
 ne  
 Longitudo  
 Solis.

Afcensio Recta 4° 12' 7" 50"  
 Variatio annua + 62. 70.  
 Declinatio 48° 0' 46" 20. B.  
 Variatio annua — 13. 44.

Aberra- tio in Afcens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Afcens. Rectam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus ♀ ♂ Ascend.	Aberra- tio in Afcens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Afcens. Rectam.	Nutatio in Declina- tion.
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+		-		+		-		S. G. S.	+		-		+		-	
11	9	6	3	0	7	6	8	0 0 VI	18	2	4	9	6	7	6	7
9	1	5	9	2	1	7	7	10	14	0	6	5	2	6	7	6
6	0	5	3	4	9	8	3	20	9	4	7	9	1	6	8	2
2	7	4	6	7	4	8	4	10 VII	4	0	9	1	5	6	8	5
0	+	7	3	7	9	7	8	10	1	0	10	1	9	3	8	4
4	1	2	7	11	2	8	0	20	6	5	10	7	12	3	8	0
7	2	1	6	14	4	7	4	10 VIII	10	9	11	0	14	6	7	4
10	3	0	5	12	5	6	4	10	15	3	11	0	15	8	6	4
13	0	0	5	12	6	5	4	20	19	3	10	5	16	6	5	5
15	3	1	6	11	9	4	4	10 IX	22	7	9	9	16	9	4	5
17	1	2	7	12	3	3	7	10	25	4	8	9	18	0	3	8
18	4	3	7	12	6	2	7	20	27	4	7	7	19	2	2	8
19	2	4	6	12	7	1	6	10 X	23	5	6	1	20	2	1	7
19	4	5	3	12	0	0	2	10	28	8	4	5	19	9	0	3
19	0	5	9	10	6	1	4	20	28	2	2	7	18	8	1	3
18	0	6	3	8	6	2	9	10 XI	25	7	0	8	16	8	2	7
16	4	6	5	6	4	4	4	10	24	4	1	1	13	9	4	2
14	4	6	5	3	5	5	6	20	21	5	3	0	10	6	5	5
11	9	6	3	0	7	6	8	10 O	18	2	4	9	6	7	6	7

Primum Signorum — + vel + — respondet sex primis Signis  
 Argumentorum : secundum Signum , sex posterioribus Signis  
 eorundem Argumentorum.

38.  $\beta$  Argonavis

1780

39.  $\mu$  Leonis 3.

Ascensio Recta  $4^{\circ}17'41''6''$   
 Variatio annua  $+ 11. 34$   
 Declinatio  $68^{\circ} 48' 49'' 00 A.$   
 Variatio annua  $- 14. 83.$

Argument.  
 pro  
 Aberratione  
 Longitudo  
 Solis.

Ascensio Recta  $4^{\circ}25'3'20''\frac{1}{2}$   
 Variatio annua  $+ 52. 03.$   
 Declinatio  $27^{\circ} 2' 2'' 30 B$   
 Variatio annua  $- 16. 43.$

Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus $\Omega$ $\textcircled{3}$ Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion*	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.
+ -	+ -	+ -	+ -	S. G. S.	+ -	+ -	+ -	+ -
36 0	11 7	17 0	6 6	0 0 VI	16 8	2 2	3 7	5 1
30 0	13 5	17 7	7 7	10	14 3	1 0	0 6	6 3
						+	-	+
22 2	14 9	16 3	7 8	20	11 5	0 4	2 6	7 3
13 6	15 8	14 8	8 3	I 0 VII	8 0	1 8	5 8	7 8
4 6	16 3	12 5	8 3	10	4 4	3 0	8 5	8 1
- +								
4 6	16 2	10 4	8 1	20	0 8	4 2	10 7	8 1
					- +			
3 6	15 7	7 7	7 5	II 0 VIII	2 9	5 4	12 4	7 7
12 2	14 7	4 8	6 7	10	6 6	6 2	13 0	7 1
50 0	13 1	2 2	5 9	20	10 0	6 9	13 4	6 4
		+	-					
6 0	11 3	0 9	5 0	III 0 IX	13 1	7 4	13 4	5 7
43 0	9 1	2 6	4 3	10	15 8	7 6	14 1	5 0
47 6	6 6	4 6	3 4	20	18 0	7 7	14 8	4 3
50 6	3 9	7 1	2 4	IV 0 X	19 8	7 5	15 3	3 3
52 2	1 1	9 6	1 3	10	20 0	7 1	14 9	2 2
	- +		+					
52 2	1 7	12 3	0 3	20	21 3	6 5	13 8	0 8
								- +
50 4	5 14	0 1	8 8	V 0 XI	21 1	5 7	12 1	0 7
47 7	1 15	4 3	4 4	10	20 2	4 6	9 6	2 3
43 9	5 16	6 4	8 8	20	18 8	3 5	6 9	3 3
30 11	7 17	0 6	0 0	VI 0 0	16 8	2 2	3 7	5 1

Primum Signorum  $- +$  vel  $+ -$  respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.



40.  $\eta$  Argonavis 2.

1780

41.  $\alpha$  Crateris 3.

Ascensio Recta  $5^{\circ}9'8''\frac{1}{2}$   
 Variatio annua  $+ 34.51$ .  
 Declinatio  $58^{\circ}31'58''70$ . A  
 Variatio annua  $- 18.73$ .

Argument.  
 pro  
 Aberatio-  
 ne  
 Longitudo  
 Solis

Ascensio Recta  $5^{\circ}12'16''23''$   
 Variatio annua  $+ 44.28$ .  
 Declinatio  $17^{\circ}7'58''10$ . A  
 Variatio annua  $- 19.09$ .

Aber-  
 ratio in  
 Ascens.  
 Rectam.

Aber-  
 ratio in  
 Declina-  
 tion

Nutatio  
 in  
 Ascens.  
 Rectam.

Nutatio  
 in  
 Declina-  
 tion

Argument.  
 pro  
 Nutatione  
 Locus  $\Omega$   
 $\textcircled{3}$  Ascend.

Aber-  
 ratio in  
 Ascens.  
 Rectam.

Aber-  
 ratio in  
 Declina-  
 tion.

Nutatio  
 in  
 Ascens.  
 Rectam.

Nutatio  
 in  
 Declina-  
 tion

+		-		+		-		+		-		+		-		+		-	
+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-
32	5	9	8	13	5	3	3	S. G. S.	+	-	+	-	-	+	-	+	-	+	-
								O o VI	18	2	9	5	2	6	2	8			
30	0	12	4	15	1	4	7	10	16	8	10	2	5	1	4	2			
25	8	14	5	15	8	5	8	20	14	8	10	8	7	4	5	4			
21	3	16	3	16	4	6	7	I o VII	12	5	10	9	9	5	6	4			
16	0	17	6	16	2	7	3	10	9	7	10	8	10	9	7	0			
0	3	18	3	15	3	7	7	20	6	6	10	2	12	1	7	4			
4	3	18	5	13	7	7	6	II o VIII	3	3	9	5	12	5	7	5			
+	-																		
I	8	18	I	II	8	7	4	10	0	0	8	4	12	I	7	4			
7	9	17	2	9	9	6	8	20	3	3	7	1	II	7	6	8			
13	8	15	7	7	4	6	3	III o IX	6	6	5	5	10	7	6	5			
19	3	13	8	5	9	6	0	10	9	7	3	7	10	6	6	2			
24	I	II	4	4	3	5	4	20	12	5	I	9	10	5	5	7			
27	8	8	7	2	3	4	9	IV o X	14	8	0	0	10	I	5	2			
31	5	5	7	0	5	4	0	10	16	8	I	9	8	9	4	4			
33	8	2	6	3	4	2	7	20	18	2	3	7	7	2	3	2			
35	I	0	7	6	I	I	5	V o XI	19	I	5	5	5	0	I	8			
35	3	3	9	9	2	0	I	10	19	4	7	1	5	6	0	3			
34	4	6	9	II	5	I	8	20	19	I	8	4	0	0	I	4			
32	5	9	8	13	5	3	3	VI o O	18	2	9	5	2	6	2	8			

Primum Signum  $--+$  vel  $+-$  respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.

42. α Corvi 4.				1780				43. ε Corvi 4.									
Ascen. Recta 5° 29' 16" 24" <sup>1</sup> / <sub>5</sub>				Argument. pro Aberratione. Longitudo Solis				Ascensio recta 5° 29' 42" 50" <sup>1</sup> / <sub>5</sub>									
Variatio annua — 46. 06.								Variatio annua + 46. 13.									
Declinatio 23° 30' 4" 10. A.								Declinatio 21° 23' 43" 10 A									
Variatio annua + 20. 04.								Variatio annua + 20. 04.									
Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Notatio in Ascens. Rectam.	Notatio in Declina- tion.	Argument. pro Nutatio- ne Locus Ω 3 Ascend.	Aberra- tio in Ascens. Rectam	Aberra- tio in Declina- tion.	Notatio in Ascens. Rectam	Notatio in Declina- tion.									
+ 20	- 0	+ 7	- 4	3	8	0	1	S. G. S.	+ 19	- 8	+ 7	- 4	3	4	0	1	
19	7	8	6	6	5	1	8	O o VI	19	5	8	6	6	1	1	8	
18	7	9	6	8	7	3	3	20	18	5	9	4	8	2	3	2	
17	2	10	3	10	8	4	3	I o VII	17	0	10	0	10	5	4	3	
15	1	10	7	12	3	5	5	10	15	0	10	3	12	0	5	5	
12	6	10	8	13	2	6	3	20	12	5	10	3	13	0	6	3	
9	7	10	6	13	6	6	8	II o VIII	9	6	9	9	13	4	6	8	
6	5	9	9	13	0	6	9	10	6	4	9	3	12	8	6	9	
3	1	9	1	12	5	6	8	20	3	1	8	3	12	4	6	8	
0	+	4	8	0	11	3	6	III o IX	0	+	4	7	1	11	3	6	7
3	8	6	6	11	1	6	8	10	3	8	5	7	11	2	6	8	
7	2	5	0	10	8	6	8	20	7	1	4	2	10	9	6	8	
10	3	3	2	10	1	6	7	IV o X	10	2	2	5	10	3	6	7	
13	1	1	3	8	6	6	1	10	13	0	0	7	8	8	6	1	
15	6	0	6	6	9	5	3	20	15	4	1	0	7	2	5	3	
17	5	2	4	4	2	4	3	V o XI	17	3	2	8	4	5	4	3	
18	8	4	3	1	7	2	9	10	18	6	4	5	2	0	2	9	
19	8	6	0	1	1	1	6	20	19	6	6	0	0	8	1	6	
20	0	7	4	3	8	0	1	VI o O	19	8	7	4	3	4	0	1	

Primum Signorum — + vel + — respondet sex primis Signis Argumentorum: secundum Signum, sex posterioribus Signis eorundem Argumentorum.

44. Crucis I.				1780	45. ♂ Corvi 4.			
Ascensio Recta 6° 3' 38' 7"				Argument. pro Aberratio ne Longitudo Solis	Ascensio Recta 6° 4' 37' 49" $\frac{1}{2}$			
Variatio annua + 48. 54.					Variatio annua + 46. 62.			
Declinatio 61° 52' 45" 70 A					Declinatio 15° 17' 15" 30. A			
Variatio annua + 20. 00.					Variatio annua + 19. 98.			
Aberra- tio in Ascens. Recliam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Recliam.	Nutatio in Declina- tion.	Argument. pro Nuratore Locus ♂ ♁ Ascend.	Aberra- tio in Ascens. Recliam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Recliam.	Nutatio in Declina- tion.
+ -	+ -	+ -	+ -	S. G. S.	+ -	+ -	+ -	+ -
38 9 3 1	16 7 0 4	0 4	+	O O VI	18 9 7 4	2 4 0 6		
33 9 6 2	19 1 1 2	10			18 9 8 2	5 1 1 0		
37 4 9 0	20 7 2 7	20			18 3 8 7	7 5 2 5		
35 2 11 6	21 7 3 8	I O VII			17 2 9 0	9 8 3 7		
31 6 13 8	21 8 5 0	10			15 5 9 0	11 5 4 8		
27 0 15 5	21 2 5 9	20			13 4 8 7	11 7 5 7		
21 8 16 8	19 8 6 5	II O VIII			10 9 8 2	13 2 6 4		
15 8 17 6	17 1 6 6	10			8 0 7 4	12 8 6 5		
9 4 17 9	14 8 6 7	20			4 9 6 4	12 5 6 6		
2 6 17 0	11 9 6 7	III O IX			1 7 5 2	11 5 6 7		
- +					- +			
4 0 16 8	10 2 6 9	10			1 7 2 8	11 3 6 9		
10 8 15 5	8 0 7 1	20			4 9 2 3	11 3 7 1		
17 0 13 8	5 5 7 0	IV O X			8 0 0 8	10 9 7 1		
23 0 11 6	1 8 6 5	10			10 9 0 8	9 7 6 6		
28 0 9 0	1 8 5 7	20			13 4 2 3	7 9 5 8		
31 3 6 2	5 6 4 8	V O XI			15 5 2 8	5 7 4 9		
35 7 3 1	9 6 3 0	10			17 2 5 2	3 1 3 7		
37 8 1 0	13 5 2 0	20			18 3 6 4	0 3 2 1		
38 9 3 1	16 7 0 4	VI O O			18 9 7 4	2 4 0 0		

Primum Signorum — + vel + — respondet sex primis Signis  
Argumentorum: secundum Signum, sex posterioribus Signis  
eorundem Argumentorum.

46.  $\gamma$  Crucis 2.

1780

47.  $\beta$  Corvi 3.

Ascensio Recta  $6^{\circ}4'46''14''\frac{1}{2}$   
 Variatio annua  $+ 48. 64.$   
 Declinatio  $55^{\circ}52'42'' 40 A.$   
 Variatio annua  $+ 19. 98.$

Argument.  
 pro  
 Aberratio-  
 ne  
 Longitudo  
 Solis

Ascensio Recta  $6^{\circ}5'43'2''\frac{1}{2}$   
 Variatio annua  $+ 46. 98.$   
 Declinatio  $22^{\circ} 10' 35'' 50 A.$   
 Variatio annua  $+ 19. 95.$

Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion	Argument. pro Nutatione Loci $\alpha$ $\beta$ Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.
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+	-	+	-	+	-	S. G. S.	+	-	+	-	+	-	+	-
32	5	3	2	13	3	0 6	19	7	5	8	5	6	0	8
						+							+	
32	5	6	1	15	9	10	19	7	7	7	8	3	0	8
31	5	8	8	17	8	20	19	2	9	2	10	6	2	3
29	6	11	1	19	2	7	18	1	10	4	12	6	3	6
26	6	13	1	19	7	8	16	4	11	4	13	9	4	7
22	9	14	9	19	2	5	14	3	11	9	14	7	5	6
18	6	15	9	18	4	6	11	8	12	1	14	7	6	3
13	7	16	7	16	3	6	8	8	12	0	13	9	6	4
8	4	16	9	14	3	6	5	5	11	4	13	0	6	6
2	8	16	6	11	8	6	1	4	10	6	11	6	6	7
	+													
2	8	15	8	10	5	6	4	8	9	5	11	2	6	9
8	4	14	5	8	9	7	8	1	8	0	10	7	7	1
13	7	12	8	6	8	7	11	2	6	2	9	8	7	1
18	6	10	7	3	9	6	13	9	4	3	8	1	6	7
22	9	8	2	0	5	5	16	0	2	3	5	8	5	9
			+											
26	6	5	5	3	1	4	17	8	0	2	3	2	5	0
29	6	2	6	6	9	3	19	0	1	9	0	2	2	8
			+											
31	5	0	3	10	2	2	19	7	3	9	2	7	2	3
32	5	3	2	13	3	0	19	7	5	8	5	6	0	8

Primum Signorum -- + vel + -- respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.



48.  $\beta$  Crucis 2.

1780

49.  $\epsilon$  Ursæ majoris 2.

Ascensio Recta  $6^{\circ} 8' 45''$   
 Variatio annua  $+ 51. 14.$   
 Declinatio  $58^{\circ} 29' 1'' 20. A$   
 Variatio annua  $+ 19. 81.$

Argument.  
 pro  
 Aberratio-  
 ne  
 Longitudo  
 Solis.

Ascensio Recta  $6^{\circ} 11' 4' 12'' \frac{1}{2}$   
 Variatio annua  $+ 40. 20.$   
 Declinatio  $57^{\circ} 9' 30'' 20. B$   
 Variatio annua  $- 19. 67.$

Aberra- tio in Ascensio- nem.	Aberra- tio in Declina- tionem.	Nutatio in Ascensio- nem.	Nutatio in Declina- tionem.	Argument. pro Nutatione Locus $\Omega$ $\oslash$ Ascend.	Aberra- tio in Ascensio- nem.	Aberra- tio in Declina- tionem.	Nutatio in Ascensio- nem.	Nutatio in Declina- tionem.
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+	-	+	-	-	+	+	-	S. G. S.	+	-	-	+	+	-	-	+
34	4	2	4	14	5	1	4	O O VI	33	5	7	6	13	6	1	8
34	7	5	2	17	3	0	3	10	34	0	4	7	11	5	0	1
34	0	8	0	19	2	1	9	20	33	5	1	6	8	4	1	6
32	2	10	4	20	6	3	3	I O VII	32	0	1	6	5	1	2	8
29	5	12	6	21	1	4	5	10	29	5	4	7	1	8	4	1
25	8	14	4	20	8	5	4	20	26	1	7	6	1	3	5	1
21	4	15	8	19	7	6	2	II O VIII	21	9	10	3	3	9	5	9
16	4	15	6	17	4	6	3	10	17	0	12	7	6	2	6	1
10	7	17	0	15	4	6	6	20	11	6	14	7	8	2	6	4
4	9	16	8	12	8	6	6	III O IX	5	9	16	3	9	0	6	6
1	+	2	16	2	11	2	6	10	0	0	17	4	11	3	6	9
7	3	15	0	9	4	7	0	20	5	9	17	9	13	5	7	1
13	0	13	4	7	3	7	2	IV O X	11	6	17	9	15	7	7	5
18	4	11	4	4	0	6	8	10	17	0	17	4	16	8	7	1
		9	0	0	5	6	3	20	21	9	16	3	17	8	6	6
23	2			+												
27	4	6	4	3	3	5	3	V O XI	26	1	14	7	17	9	5	7
0	7	3	5	7	5	4	2	10	29	5	12	7	16	8	4	7
33	0	0	6	11	2	2	8	20	32	0	10	3	15	6	3	3
34	4	2	4	14	5	1	4	VI O O	33	5	7	6	13	6	1	8

Primum Signorum -- + vel + -- respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.

50. $\gamma$ Hydræ 3.				1780	51. $\epsilon$ Centauri 3.			
Ascensio Recta 6° 16' 45" 2 <sup>1</sup> / <sub>2</sub>				Argument pro Aberratione Longitude Solis	Ascensio Recta 6° 17' 4' 39"			
Variatio annua + 48 53					Variatio annua + 50 37			
Declinatio 22° 0' 17" 10A. $\frac{1}{2}$					Declinatio 35° 32' 40" 90A.			
Variatio annua + 19. 20.					Variatio annua + 19 17			
Aberratio in Ascens. Rectam.	Aberratio in Declination.	Nutatio in Ascens. Rectam.	Nutatio in Declination.	Argument pro Nutatione Locus $\Omega$ Ascend.	Aberratio in Ascens. Rectam.	Aberratio in Declination.	Nutatio in Ascens. Rectam.	Nutatio in Declination.
+ - + -	+ -	+ -	+ -	S. G. S.	+ - + -	+ -	+ -	+ -
19 1 5 5 3 4 2 5	19 7 6 6 6 3 1 0			0 0 VI	21 7 2 4 5 9 2 5			
				10	22 4 3 6 8 5 1 0			
				20	22 4 4 6 11 4 0 1			
19 7 7 5 8 8 0 6	19 1 8 2 11 1 2 1			I 0 VII	21 7 5 5 13 5 2 1			
18 0 8 7 12 7 3 5	18 0 8 7 12 7 3 5			10	20 4 6 5 15 0 3 5			
16 3 8 9 13 8 4 5	16 3 8 9 13 8 4 5			20	18 4 7 1 15 8 4 5			
14 0 8 8 14 3 5 4	14 0 8 8 14 3 5 4			II 0 VIII	15 9 7 4 15 8 5 4			
11 4 8 5 13 7 5 9	11 4 8 5 13 7 5 9			10	12 9 7 6 15 0 5 9			
8 4 7 9 13 2 6 3	8 4 7 9 13 2 6 3			20	9 5 7 5 14 0 6 3			
5 2 7 1 12 1 6 7	5 2 7 1 12 1 6 7			III 0 IX	5 8 7 2 12 7 6 7			
1 7 6 0 12 1 6 9	1 7 6 0 12 1 6 9			10	2 0 6 8 12 3 6 9			
				20	2 0 6 0 11 6 7 2			
1 7 4 8 11 8 7 2	1 7 4 8 11 8 7 2			IV 0 X	5 8 5 0 10 8 7 5			
5 2 3 4 11 1 7 5	5 2 3 4 11 1 7 5			10	9 5 4 0 8 7 7 4			
8 4 1 9 9 6 7 4	8 4 1 9 9 6 7 4			20	12 9 2 8 6 4 7 1			
11 4 0 3 7 7 7 1	11 4 0 3 7 7 7 1			V 0 XI	15 9 1 6 3 6 6 3			
				10	18 4 0 3 0 3 5 3			
14 0 1 2 5 2 6 3	14 0 1 2 5 2 6 3			20	20 4 1 0 2 8 3 9			
16 3 2 8 2 3 5 3	16 3 2 8 2 3 5 3			VI 0 O	21 7 2 4 5 9 2 5			
				10				
18 0 4 2 0 5 3 9	18 0 4 2 0 5 3 9			20				
19 1 5 5 3 4 2 5	19 1 5 5 3 4 2 5			VI 0 O				

Primum Signorum -- + vel + -- respondet sex primis Signis Argumentorum: secundum Signum, sex posterioribus Signis eorundem Argumentorum.

52. ♀ Virginis 3

1780

53. μ Bootis 3.

Ascen. Recta 6°20'52'36"  
 Variatio annua + 46. 11.  
 Declinatio 0°32'6" 70 B.  
 Variatio annua — 18. 74.

Argument.  
 pro  
 Aberratione  
 Longitudinis  
 Solis

Ascensio Recta 6°26'3'4"  
 Variatio annua + 34. 05.  
 Declinatio 19°30'45" 10 B.  
 Variatio annua — 18. 02.

Aberratio in Ascens. Rectam.	Aberratio in Declination.	Nutatio in Ascens. Rectam.	Nutatio in Declination.	Argument. pro Nutatione Locis ☿ Ascend	Aberratio in Ascens. Rectam.	Aberratio in Declination.	Nutatio in Ascens. Rectam.	Nutatio in Declination.
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+		-		+		-		S. G. S.	+		-		+		-		+	
17	2	8	5	0	0	3	1	0 0 VI	17	5	10	0	3	0	3	9		
18	1	8	3	2	7	1	7	10	18	8	9	0	0	4	2	5		
18	5	7	9	5	3	0	6	20	19	6	7	5	2	1	1	0		
18	3	7	2	7	6	1	6	1 0 VII	19	8	5	9	4	6	0	6		
17	6	6	3	9	7	2	9	10	19	4	4	1	6	7	2	1		
16	3	5	2	11	1	4	0	20	18	4	2	2	8	4	3	3		
14	5	4	0	12	0	5	0	11 0 VIII	16	8	0	2	9	7	4	3		
12	4	2	6	12	0	5	5	10	14	8	1	8	10	1	5	0		
9	8	1	1	12	0	6	0	20	12	2	3	7	10	3	5	7		
6	9	0	3	11	4	5	5	III 0 IX	9	4	5	6	10	2	6	0		
3	9	1	8	11	6	6	8	10	6	2	7	3	11	1	6	7		
8	7	3	2	11	8	7	2	20	2	8	8	7	11	6	7	2		
2	6	4	5	11	8	7	7	IV 0 X	0	7	9	9	11	9	7	7		
5	8	5	6	11	0	7	7	10	4	2	10	8	11	7	7	8		
8	7	6	7	9	6	7	4	20	7	5	11	4	10	7	7	7		
11	4	7	5	7	6	6	7	V 0 XI	10	6	11	5	9	4	7	3		
13	7	8	1	5	3	5	8	10	13	3	11	4	7	5	6	4		
15	6	8	4	2	7	4	5	20	15	6	10	8	5	4	5	3		
17	2	8	5	0	0	3	1	V 10 0	17	5	10	0	3	0	3	9		

Primum Signorum — + vel + — respondet sex primis Signis Argumentorum: secundum Signum, sex posterioribus Signis eorundem Argumentorum.

54. $\beta$ Centauri 1. 2.				1780	55. $\gamma$ Centauri 3.			
Ascensio Recta $6^{\circ}27'7''23''$				Argument. pro Aberratione Longitude Solis.	Ascensio Recta $6^{\circ}28'27''29\frac{1}{2}''$			
Variatio annua $+ 61. 56.$					Variatio annua $+ 52. 93.$			
Declinatio $59^{\circ} 17'57'' 00. A$					Declinatio $35^{\circ} 16'23'' 30. A$			
Variatio annua $+ 17. 85.$				Variatio annua $+ 17. 63.$				
Aberra- tio in Ascens. Reclam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Reclam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus $\Omega$ $\odot$ Ascend.	Aberra- tio in Ascens. Reclam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Reclam.	Nutatio in Declina- tion.
+ -	- +	+ -	+ -	S. G. S.	+ -	+ -	+ -	+ -
32 0 2 7 13 5 4 0				O o VI	19 8 1 4 5 5 4 2			
34 3 0 0 16 9 2 6				10	21 0 3 2 8 6 2 8			
	+ -							
36 1 2 7 19 9 1 1				20	22 5 4 8 11 4 1 4			
			- +					+ -
36 5 5 3 22 0 0 5				I o VII	22 8 6 3 13 6 0 2			2 8
35 8 7 7 23 2 2 0				10	22 5 7 7 15 4 1 0			8 0
34 1 9 9 23 3 3 2				20	21 0 8 7 16 1 3 0			8 0
31 4 11 9 22 6 4 2				II o VIII	19 8 9 6 16 6 4 1			1 1
27 6 13 4 22 5 4 9				10	17 4 10 1 15 7 4 8			8 8
23 1 14 5 18 4 5 6				20	14 7 10 3 14 6 5 5			5 5
17 8 15 3 16 1 5 9				III o IX	11 5 10 2 13 6 5 6			6 6
11 9 15 5 14 8 6 7				10	7 9 9 8 13 2 6 6			8 6
5 7 15 3 13 0 7 2				20	4 0 9 1 12 5 7 1			1 1
	+ -							
0 6 14 5 10 9 7 7				IV o X	0 0 0 8 1 11 5 7 7			7 7
7 0 13 4 7 8 7 9				10	4 0 6 9 9 8 7 9			7 9
13 1 11 9 4 0 7 8				20	7 9 5 4 7 7 7 8			8 8
		+ -						
18 8 9 9 0 9 7 3				V o XI	11 5 3 8 4 6 7 2			2 2
23 9 7 7 5 2 6 5				10	14 7 2 1 1 2 6 6			6 6
28 4 5 3 9 4 5 4				20	17 4 0 3 2 2 5 5			5 5
32 0 2 7 13 5 4 0				VI o O	19 8 1 4 5 5 4 2			2 2

Primum Signorum — + vel + — respondet sex primis Signis  
Argumentorum: secundum Signum, sex posterioribus Signis  
eorundem Argumentorum.



56.  $\gamma$  Bootis 3.

1780

57.  $\alpha$  Centauri 1.

Ascensio Recta  $7^{\circ}5'48''11''$   
 Variatio annua  $+ 36. 58.$   
 Declinatio  $39^{\circ}16'41''50B.$   
 Variatio annua  $- 16. 26.$

Argument.  
 pro  
 Aberratio-  
 ne  
 Longitudo  
 Solis

Ascen. Recta  $7^{\circ}6'15'40''$   
 Variatio annua  $+ 66. 64.$   
 Declinatio  $59^{\circ}55'14''70A.$   
 Variatio annua  $+ 16. 16.$

Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tionem.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tionem.	Argument. pro Nutatione Locus $\Omega$ & Ascend.	Aberra- tio in Ascens. Rectam	Aberra- tio in Declina- tionem.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tionem.
+ -	- +	+ +	- -	+ S. G. S.	+ -	- +	- +	+ -
19 2 13	0 5 9 5 2	0 4 0 3 9	0 3 9	O o VI	29 6 5 1 12	6 5 2	6 5 2	6 5 2
21 4 11	0 4 0 3 9	0 4 0 3 9	0 3 9	10	32 8 2 6 16	6 3 9	6 3 9	6 3 9
23 2 8	7 1 7 2 4	- +	0 9	20	35 8 0 0 20	0 2 4	0 2 4	0 2 4
24 2 6	2 0 6 0 9	+ -	0 6	I o VII	37 2 2 6 22	6 0 9	6 0 9	6 0 9
24 4 3	4 2 8 0 6	+ -	0 6	10	37 7 5 1 24	1 0 6	1 0 6	1 0 6
23 9 0	6 4 8 2 0	+ -	0 0	20	36 8 7 5 24	5 2 0	5 2 0	5 2 0
22 6 2	3 6 3 3 2	6 3 3 2	2	II o VIII	34 8 9 6 24	1 3 2	1 3 2	1 3 2
20 7 5	1 7 3 4 0	3 4 0	0	10	31 9 11 5 22	3 4 0	3 4 0	3 4 0
18 4 7	7 7 9 4 8	7 9 4 8	8	20	28 0 13 0 20	1 4 8	1 4 8	1 4 8
15 0 10	2 8 2 5 5	2 5 5	5	III o IX	23 2 14 1 18	3 5 5	3 5 5	3 5 5
11 5 12	3 9 3 6 3	3 6 3	3	10	17 2 14 8 16	9 6 3	9 6 3	9 6 3
7 3 15	3 11 2 7 7	3 6 9 9	9	20	11 6 15 0 15	3 6 9	3 6 9	3 6 9
0 8 16	1 11 5 8 1	1 2 7 7	7	IV o X	5 4 14 8 13	1 7 7	1 7 7	1 7 7
5 1 16	5 11 2 8 1	5 8 1	1	10	1 4 14 1 10	0 8 1	0 8 1	0 8 1
9 2 16	3 10 6 7 9	3 6 7 9	9	20	8 0 13 0 6	2 8 1	2 8 1	2 8 1
12 9 15	7 9 4 7 4	7 4 4	4	V o XI	14 0 11 5 1	5 7 9	5 7 9	5 7 9
16 2 14	6 7 8 6 5	6 5 5	5	10	20 0 9 6 3	4 7 4	4 7 4	4 7 4
19 2 13	0 5 9 5 2	0 5 2	2	20	25 2 7 5 8	2 6 5	2 6 5	2 6 5
				VI o O	29 6 5 1 12	6 5 2	6 5 2	6 5 2

Primum Signorum  $-+$  vel  $+ -$  respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.

58. ζ Bootis 3.	1780	59. ε Bootis 3.
Ascensio Recta 7° 7' 39" 41" Variatio annua + 42. 96. Declinatio 14° 40' 59" 70. B Variatio annua - 15. 88.	Argument. pro Aberratione Longitude Solis.	Ascensio Recta 7° 8' 50" 46" Variatio annua + 39. 48. Declinatio 28° 0' 41" 90 B Variatio annua - 15. 62.

Aberratio in Ascensio Rectam.	Aberratio in Declination.	Nutatio in Ascensio Rectam.	Nutatio in Declination.	Argument pro Nutatione Locus Ω Ascend.	Aberratio in Ascensio Rectam.	Aberratio in Declination.	Nutatio in Ascensio Rectam.	Nutatio in Declination.
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+	-	-	+	+	-	-	+	S.	G.	S.	+	-	-	+	+	-	+	
14	9	9	2	1	8	5	4	0	0	VI	16	3	10	6	3	9	5	0
17	0	8	5	0	7	4	0		10		18	4	9	3	1	4	4	2
18	4	7	5	3	2	2	7		20		20	2	7	7	0	8	2	9
19	3	6	2	5	5	1	2	I	0	VI	21	2	5	9	3	0	1	5
19	6	4	8	7	6	0	4		10		21	6	3	9	5	2	0	2
19	3	3	3	9	1	1	8		20		21	3	1	9	6	8	1	6
18	4	1	7	10	3	2	0	II	0	VIII	20	3	0	2	8	2	2	7
17	0	0	0	10	5	2	9		10		18	8	2	3	8	8	3	6
14	9	1	7	10	5	4	7		20		16	7	4	4	8	9	4	5
12	6	3	3	10	3	5	4	III	0	IX	14	1	6	3	9	1	5	2
9	8	4	2	11	1	6	2		10		11	1	8	1	10	2	6	1
6	7	6	2	11	2	6	9		20		7	7	9	6	10	6	6	8
3	4	7	5	11	5	7	7	IV	0	X	4	1	10	8	11	7	7	0
0	0	8	5	11	1	8	1		10		0	4	11	6	11	1	8	0
3	4	9	2	10	0	8	2		20		3	4	12	3	10	5	8	8
6	7	9	6	8	5	8	0	V	0	XI	7	0	12	3	9	4	8	1
9	8	9	7	6	4	7	5		10		10	5	12	1	7	7	7	0
12	6	9	6	4	3	6	6		20		13	5	11	5	5	9	6	1
14	9	9	2	1	8	5	4	VI	0	0	16	3	10	6	3	9	5	0

Primum Signorum — + vel + — respondet sex primis Signis Argumentorum: secundum Signum, sex posterioribus Signis eorundem Argumentorum.

60. $\beta$ Bootis 3.								1780	61. $\delta$ Bootis 3.															
Ascensio Recta $7^{\circ}13'24''58''\frac{1}{2}$								Argument. pro Aberratio- ne Longitudo Solis	Ascensio Recta $7^{\circ}16'39'31''\frac{1}{2}$															
Variatio annua $+ 34. 08.$									Variatio annua $+ 36. 28.$															
Declinatio $41^{\circ}16'0''60 B.$								Declinatio $34^{\circ}8'49''40 B.$																
Variatio annua $- 14. 56.$								Variatio annua $- 13. 77.$																
Aberra- tio in Ascens. Re <sup>9</sup> am.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Re <sup>9</sup> am.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus $\Omega$ $\odot$ Ascend.				Aberra- tio in Ascens. Re <sup>9</sup> am.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Re <sup>9</sup> am.	Nutatio in Declina- tion.													
$+$	$-$	$-$	$+$	$+$	$-$	$-$	$+$	S. G. S.	$+$	$-$	$-$	$+$	$+$	$-$	$-$	$+$								
17	5	14	6	5	7	6	1	O $\circ$ VI	15	2	14	0	4	1	6	5								
20	4	12	8	3	8	4	9	10	17	9	12	4	2	3	5	3								
22	7	10	5	1	8	3	6	20	20	2	10	5	0	1	4	1								
					$+$								$+$											
24	2	8	1	0	3	1	9	IV $\circ$ II	21	7	8	3	2	0	2	4								
25	1	5	2	2	2	0	4	10	22	8	5	7	4	1	0	9								
					$+$	$-$								$+$										
25	1	2	4	4	0	1	1	20	23	1	3	0	5	7	0	6								
		$+$	$-$																					
23	5	0	6	5	7	2	3	II $\circ$ VIII	22	7	0	3	7	0	1	8								
										$+$	$-$													
23	0	3	5	6	5	3	2	10	21	5	2	5	7	6	2	8								
20	9	6	5	7	0	4	2	20	19	8	5	2	7	9	3	8								
18	1	9	1	7	4	4	9	III $\circ$ IX	17	4	7	8	8	0	4	5								
14	8	11	5	8	6	5	9	10	14	6	10	1	9	3	5	6								
11	0	13	5	9	3	6	7	20	11	2	12	1	9	6	6	5								
6	9	15	2	9	9	7	5	IV $\circ$ X	7	5	13	6	10	3	7	4								
2	6	16	4	10	6	8	1	10	3	6	14	9	10	4	8	1								
	$+$									$+$														
1	7	17	0	10	1	8	4	20	0	4	15	6	9	9	8	4								
6	0	17	2	9	8	8	4	V $\circ$ XI	4	4	15	9	9	0	8	4								
10	2	16	8	8	7	7	9	10	8	2	15	7	7	7	8	0								
14	1	16	0	7	5	7	2	20	11	8	14	9	6	1	7	5								
17	5	14	6	5	7	6	1	VI $\circ$ O	15	2	14	0	4	1	6	5								

Primum Signorum  $- +$  vel  $+ -$  respondet sex primis Signis  
Argumentorum : secundum Signum, sex posterioribus Signis  
eorundem Argumentorum.

62.  $\delta$  Draconis 3.

1780

63.  $\gamma$  Urfæ minoris 3.

Ascensio Recta  $7^{\circ} 20' 0'' 52''$   
 Variatio annua  $+ 19. 83.$   
 Declinatio  $59^{\circ} 44' 33'' 40 B.$   
 Variatio annua  $- 12. 89.$

Argument.  
 pro  
 Aberratio-  
 ne  
 Longitudo  
 Solis

Ascensio Recta  $7^{\circ} 20' 18' 15''$   
 Variatio annua  $- 3. 11.$   
 Declinatio  $72^{\circ} 37' 3'' 90 B.$   
 Variatio annua  $- 12. 82.$

Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion	Argument. pro Nutatione Locus $\delta$ Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tio.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.
				S. G. S.				
+	-	+	+	-	+	-	+	+
23	8 16	2 10	0 6	9	0 0 VI	39	0 15	6 17
28	6 14	0 9	7 5	8	10	47	5 13	1 18
32	6 11	5 8	1 4	5	20	54	5 10	3 18
35	8 8	5 6	5 3	0	I 0 VII	59	5 7	2 17
37	8 5	4 4	7 1	6	10	63	5 3	8 15
			+	-				
38	6 2	0 3	0 0	0	20	65	0 0	4 13
	+	-					+	-
38	2 1	3 1	2 1	5	II 0 VIII	64	5 3	1 11
		-	+					
36	6 4	7 0	3 2	5	10	62	5 6	5 8
34	0 7	9 1	4 3	5	20	58	0 9	7 6
30	4 10	9 2	6 4	4	III 0 IX	51	5 12	6 4
26	0 13	5 4	2 5	3	10	44	5 15	1 1 9
								+
20	8 15	7 5	5 6	2	20	35	5 17	2 0 7
14	4 17	6 7	2 7	3	IV 0 X	25	5 18	7 3 6
8	2 18	7 8	5 8	0	10	15	0 19	7 7 5
1	4 19	4 9	6 8	4	20	3	5 20	0 9 6
	+						+	-
4	6 19	4 10	2 8	6	V 0 XI	8	0 19	8 11 4
12	0 18	9 10	5 8	4	10	19	0 19	7 14 6
18	2 17	9 10	5 7	8	20	29	5 17	5 10 4
23	8 16	2 10	0 6	9	VI 0 0	39	0 15	6 17 8

Primum Signorum  $+ -$  vel  $- +$  respondet sex primis Signis  
 Argumentorum : secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.



64. $\delta$ Serpentis 3.				1780	65. $\beta$ Serpentis 3.			
Ascen. Recta $7^{\circ} 21' 4'' 40''$ Variatio annua $+ 43. 05.$ Declinatio $11^{\circ} 17' 12'' 50. B$ Variatio annua $- 12. 60.$				Argument. pro Aberratione Longitudo Solis	Ascen. Recta $7^{\circ} 24' 0' 36''$ Variatio annua $+ 41. 48.$ Declinatio $16^{\circ} 7' 24'' 60. P$ Variatio annua $- 11. 78.$			
Aberratio in Ascens. Rectam.	Aberratio in Declination.	Notatio in Ascens. Rectam.	Notatio in Declination.	Argument. pro Nutatione Locus $\Omega$ $\delta$ Ascend.	Aberratio in Ascens. Rectam.	Aberratio in Declination.	Notatio in Ascens. Rectam.	Notatio in Declination.
+ - + + - - +	- + + - - +	- + + - - +	- + + - - +	S. G. S.	+ - - + + - - +	+ - - + + - - +	+ - - + + - - +	+ - - + + - - +
11 8 10 6 1 1 6 9	11 3 11 7 1 5 7 2	11 3 11 7 1 5 7 2	11 3 11 7 1 5 7 2	0 0 VI	14 1 11 0 0 8 6 1	14 1 11 0 0 8 6 1	14 1 11 0 0 8 6 1	14 1 11 0 0 8 6 1
14 4 10 0 1 4 5 8	16 4 9 9 3 2 4 9	16 4 9 9 3 2 4 9	16 4 9 9 3 2 4 9	10	16 6 9 9 3 2 4 9	16 6 9 9 3 2 4 9	16 6 9 9 3 2 4 9	16 6 9 9 3 2 4 9
16 6 9 0 3 8 4 5	18 2 7 9 6 3 3 1	18 2 7 9 6 3 3 1	18 2 7 9 6 3 3 1	20	18 3 8 6 5 6 3 5	18 3 8 6 5 6 3 5	18 3 8 6 5 6 3 5	18 3 8 6 5 6 3 5
18 2 7 9 6 3 3 1	19 3 6 5 8 6 1 6	19 3 6 5 8 6 1 6	19 3 6 5 8 6 1 6	I 0 VII	19 5 7 0 7 8 1 9	19 5 7 0 7 8 1 9	19 5 7 0 7 8 1 9	19 5 7 0 7 8 1 9
19 3 6 5 8 6 1 6	19 8 4 9 10 6 0 0	19 8 4 9 10 6 0 0	19 8 4 9 10 6 0 0	10	20 2 5 1 9 8 0 4	20 2 5 1 9 8 0 4	20 2 5 1 9 8 0 4	20 2 5 1 9 8 0 4
19 8 4 9 10 6 0 0	19 6 3 0 12 3 1 5	19 6 3 0 12 3 1 5	19 6 3 0 12 3 1 5	20	20 2 3 1 11 5 1 1	20 2 3 1 11 5 1 1	20 2 3 1 11 5 1 1	20 2 3 1 11 5 1 1
19 6 3 0 12 3 1 5	18 9 1 1 13 4 2 4	18 9 1 1 13 4 2 4	18 9 1 1 13 4 2 4	10	19 7 1 0 12 6 2 2	19 7 1 0 12 6 2 2	19 7 1 0 12 6 2 2	19 7 1 0 12 6 2 2
18 9 1 1 13 4 2 4	17 7 0 8 13 8 3 5	17 7 0 8 13 8 3 5	17 7 0 8 13 8 3 5	20	18 6 1 0 13 0 3 1	18 6 1 0 13 0 3 1	18 6 1 0 13 0 3 1	18 6 1 0 13 0 3 1
17 7 0 8 13 8 3 5	11 8 2 7 13 9 4 4	11 8 2 7 13 9 4 4	11 8 2 7 13 9 4 4	III 0 IX	16 8 3 1 13 2 4 0	16 8 3 1 13 2 4 0	16 8 3 1 13 2 4 0	16 8 3 1 13 2 4 0
11 8 2 7 13 9 4 4	13 5 4 5 14 3 5 3	13 5 4 5 14 3 5 3	13 5 4 5 14 3 5 3	10	14 6 5 1 13 6 5 1	14 6 5 1 13 6 5 1	14 6 5 1 13 6 5 1	14 6 5 1 13 6 5 1
13 5 4 5 14 3 5 3	10 7 6 1 13 9 6 3	10 7 6 1 13 9 6 3	10 7 6 1 13 9 6 3	20	11 9 7 0 13 2 6 1	11 9 7 0 13 2 6 1	11 9 7 0 13 2 6 1	11 9 7 0 13 2 6 1
10 7 6 1 13 9 6 3	7 6 7 7 13 1 7 3	7 6 7 7 13 1 7 3	7 6 7 7 13 1 7 3	IV 0 X	8 9 8 6 2 6 7 2	8 9 8 6 2 6 7 2	8 9 8 6 2 6 7 2	8 9 8 6 2 6 7 2
7 6 7 7 13 1 7 3	4 3 8 9 11 8 8 0	4 3 8 9 11 8 8 0	4 3 8 9 11 8 8 0	10	5 5 9 9 11 6 7 9	5 5 9 9 11 6 7 9	5 5 9 9 11 6 7 9	5 5 9 9 11 6 7 9
4 3 8 9 11 8 8 0	0 8 9 8 0 2 8 4	0 8 9 8 0 2 8 4	0 8 9 8 0 2 8 4	20	2 1 11 0 10 0 8 4	2 1 11 0 10 0 8 4	2 1 11 0 10 0 8 4	2 1 11 0 10 0 8 4
0 8 9 8 0 2 8 4	2 2 10 5 8 1 8 6	2 2 10 5 8 1 8 6	2 2 10 5 8 1 8 6	V 0 XI	1 4 11 7 8 2 8 7	1 4 11 7 8 2 8 7	1 4 11 7 8 2 8 7	1 4 11 7 8 2 8 7
2 2 10 5 8 1 8 6	5 7 10 9 5 9 8 4	5 7 10 9 5 9 8 4	5 7 10 9 5 9 8 4	10	4 8 12 1 6 0 8 6	4 8 12 1 6 0 8 6	4 8 12 1 6 0 8 6	4 8 12 1 6 0 8 6
5 7 10 9 5 9 8 4	8 9 10 9 3 5 7 8	8 9 10 9 3 5 7 8	8 9 10 9 3 5 7 8	20	8 2 12 1 3 8 8 0	8 2 12 1 3 8 8 0	8 2 12 1 3 8 8 0	8 2 12 1 3 8 8 0
8 9 10 9 3 5 7 8	11 8 10 6 1 1 6 9	11 8 10 6 1 1 6 9	11 8 10 6 1 1 6 9	VI 0 0	11 3 11 7 1 5 7 2	11 3 11 7 1 5 7 2	11 3 11 7 1 5 7 2	11 3 11 7 1 5 7 2
11 8 10 6 1 1 6 9								

Primum Signorum  $- +$  vel  $+ -$  respondet sex primis Signi Argumentorum: secundum Signum, sex posterioribus Signi eorundem Argumentorum.

66. $\mu$ Serpentis 4.				1780	67. $\epsilon$ Serpentis 4.			
Ascensio Recta $7^{\circ}24'32''27''$ Variatio annua $+ 46. 95.$ Declinatio $2^{\circ} 44'30''20$ A. Variatio annua $+ 11. 64.$				Argument. pro Aberratione Longitude Solis.	Ascensio Recta $7^{\circ}24'57''51''$ Variatio annua $+ 44. 68.$ Declinatio $5^{\circ} 9' 13'' 40$ B. Variatio annua $- 11. 51.$			
Aberratio in Ascens. Rectam.	Aberratio in Declination.	Nutatio in Ascens. Rectam.	Nutatio in Declination.		Argument. pro Nutatione Locus $\Omega$ & Ascend	Aberratio in Ascens. Rectam	Aberratio in Declination.	Nutatio in Ascens. Rectam.
+ - + -	+ -	+ + -	+ + -	S. G. S	+ - - + + -	+ - - + + -	+ - - + + -	+ - - + + -
10 5 7 5 0 3 7 3				0 0 VI	10 5 9 1 0 5 7 4			
13 3 7 5 3 0 6 2				10	13 4 8 8 2 1 6 3			
15 3 7 2 5 7 5 c				20	15 5 8 2 4 6 5 1			
17 3 6 6 8 3 3 6				I 0 VII	17 5 7 4 7 1 3 7			
18 5 6 1 10 7 2 0				10	18 7 6 2 9 5 2 2			
19 2 5 2 12 7 0 5				20	19 4 5 0 II 5 0 7			
19 4 4 2 14 4 0 9				II V III	19 6 3 7 13 2 0 7			
18 9 3 1 15 4 2 1				10	18 1 2 2 14 2 1 9			
17 9 1 8 15 7 3 0				20	17 1 0 6 14 5 2 9			
16 3 0 5 15 7 3 9				III 0 IX	16 5 0 9 14 6 3 8			
14 2 0 7 15 7 5 0				10	14 3 2 5 14 8 4 9			
11 6 2 1 15 0 6 0				20	11 7 4 0 14 2 6 0			
8 8 3 3 13 9 7 1				IV 0 X	8 9 5 3 13 4 7 0			
5 7 4 4 12 3 7 8				10	5 8 6 5 12 0 7 8			
2 3 5 4 10 2 8 4				20	2 4 7 5 10 1 8 4			
1 0 6 2 7 9 8 7				V 0 XI	1 0 8 2 8 0 8 7			
4 3 6 8 5 2 8 6				10	4 4 8 8 5 5 8 6			
7 6 7 3 2 5 8 1				20	7 7 9 1 3 0 8 1			
10 5 7 5 0 3 7 3				V 10 0	10 5 9 1 0 5 7 4			

Primum Signorum  $- +$  vel  $+ -$  respondet sex primis Signis Argumentorum: secundum Signum, sex posterioribus Signis eorundem Argumentorum.

68. ♄ Scorpii 4.								1780	69. γ Serpentis 3.							
Ascensio Recta 7°25'50"16" <sup>1</sup> / <sub>2</sub>								Argument. pro Aberratione Longitude Solis.	Ascensio Recta 7°26'34'30" <sup>1</sup> / <sub>2</sub>							
Variatio annua + 55. 20.									Variatio annua + 41. 24.							
Declinatio 28° 33'13" 00 A.									Declinatio 16°24'10"40 B.							
Variatio annua + 11. 26.									Variatio annua — 11. 04.							
Aberra- tio in Ascens. Rectam.		Aberra- tio in Declina- tion.		Nutatio in Ascens. Rectam.		Nutatio in Declina- tion.		Argument. pro Nutatione Locus Ω ♄ Ascend.	Aberra- tio in Ascens. Rectam.		Aberra- tio in Declina- tion.		Nutatio in Ascens. Rectam.		Nutatio in Declina- tion.	
+	-	+	-	-	+	+	-	S. G. S.	+	-	-	+	+	-	+	
II	8	0	0	2	8	7	4	0 0 VI	10	1	II	8	I	5	7	5
14	8	0	9	6	2	6	3	10	12	8	II	I	0	9	6	4
17	5	I	7	9	4	5	I	20	15	2	10	0	3	I	5	2
19	6	2	6	12	3	3	7	I 0 VII	17	2	8	7	5	5	3	8
21	I	3	5	15	0	2	2	10	18	4	7	I	7	8	2	3
22	0	3	9	17	2	0	7	20	19	4	5	3	10	2	0	9
22	2	4	5	18	9	0	7	II 0 VIII	19	6	3	3	II	4	0	6
21	8	4	9	19	7	I	9	10	19	3	I	3	12	5	I	8
20	6	5	I	19	7	2	9	20	18	4	0	8	13	0	2	9
18	8	5	2	19	3	3	8	III 0 IX	16	8	2	9	13	3	3	7
16	5	5	I	18	8	4	9	10	14	8	4	9	13	7	4	8
13	6	4	9	17	3	6	0	20	12	3	6	7	13	2	5	9
10	4	4	5	15	8	7	0	IV 0 X	9	5	8	4	12	6	7	0
6	8	3	9	13	4	7	8	10	6	4	6	7	11	6	7	8
3	I	3	5	10	6	8	4	20	3	I	10	9	10	0	8	4
0	+	2	6	7	5	8	7	V 0 XI	0	4	II	7	8	I	8	7
4	6	I	7	4	I	8	6	10	3	8	12	0	6	0	8	7
8	2	0	9	0	6	8	I	20	7	0	12	I	3	8	8	2
II	8	0	0	2	8	7	4	VI 0 0	10	I	II	8	I	5	7	5

Primum Signum — + vel + — respondet sex primis Signis  
Argumentorum : secundum Signum sex posterioribus Signis  
eorundem Argumentorum.

70. ♀ Draconis 4.

1780

71. ♂ Ophiuchi 3.

Ascensio Recta  $7^{\circ}29'27''\frac{1}{2}$   
 Variatio annua  $+ 17.26$ .  
 Declinatio  $59^{\circ}9'17''40B$ .  
 Variatio annua  $- 10.19$ .

Argument.  
 pro  
 Aberratio-  
 ne  
 Longitudo  
 Solis.

Ascensio Recta  $8^{\circ}1'40'33''\frac{1}{2}$   
 Variatio annua  $+ 47.45$ .  
 Declinatio  $4^{\circ}8'24''50A$ .  
 Variatio annua  $+ 9.51$ .

Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus ♀ ♂ Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.									
+ 16	- 2	+ 17	+ 6	7	5	7	7	0	VI	+ 8	- 9	+ 6	- 9	0	3	7	9
21	1	15	9	7	6	6	8	10		11	7	6	9	3	1	6	0
25	3	13	6	6	4	5	5	20		14	3	6	4	5	9	5	7
28	6	11	0	3	3	4	2	10	VII	16	5	6	1	7	5	4	5
31	2	7	9	2	7	2	7	10		18	1	5	5	10	9	3	1
32	8	4	7	2	9	1	4	20		19	1	4	6	12	9	1	6
33	4	1	4	1	0	2	2	10	VIII	19	6	3	8	14	6	0	2
33	0	2	1	0	3	1	5	10		19	4	2	9	15	6	1	2
31	4	5	4	1	3	2	6	20		18	7	1	8	15	9	2	3
29	2	8	5	2	3	3	5	10	IX	17	5	0	7	15	9	3	3
25	9	11	5	4	0	4	5	10		15	5	0	5	15	9	4	3
21	9	14	0	5	2	5	6	20		13	3	1	6	15	1	5	4
17	2	16	2	6	3	6	8	10	X	10	6	2	8	14	0	6	7
11	9	18	0	7	4	7	7	10		7	6	3	7	12	4	7	6
6	4	19	0	7	9	8	3	20		4	4	4	6	10	3	3	2
0	6	19	5	8	1	8	7	10	XI	1	0	5	3	7	9	8	7
5	2	19	5	9	2	8	7	10		2	4	6	0	5	2	8	8
10	9	18	8	8	0	8	4	20		5	8	6	5	2	5	8	6
16	2	17	6	7	5	7	7	10	0	8	9	6	9	0	3	8	9

Primum Signorum — + vel + — respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.



72.  $\gamma$  Herculis 3.

1780

73.  $\beta$  Herculis 3.

Ascen. Recta  $8^{\circ}3'32''$   
 Variatio annua  $+ 39.77$ .  
 Declinatio  $19^{\circ}40'57''70$ . B.  
 Variatio annua  $- 9.09$ .

Argument.  
 pro  
 Aberratio-  
 ne  
 Longitudo  
 Solis.

Ascen. Recta  $8^{\circ}5'11'50''$   
 Variatio annua  $+ 38.82$ .  
 Declinatio  $21^{\circ}58'55''90$  B.  
 Variatio annua  $- 8.41$ .

Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus $\Omega$ Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.
+ 8	9 13	0 1	5 8	0 0 VI	8	3 13	7 1	5 8 1
12	0 12	2 0	8 7	10	11	5 12	9 0	4 7 3
14	8 11	1 3	0 6	20	14	4 11	8 2	7 6 3
17	1 9	6 5	3 4	7 1 0 VII	16	7 10	2 4	9 4 9
18	9 7	8 7	5 3	4 10	19	1 8	4 7	0 3 6
20	2 5	9 9	3 1	8 20	20	2 6	4 8	8 2 2
20	8 3	7 11	0 0	4 10 VIII	21	1 4	1 10	4 0 7
20	8 1	4 12	0 1	0 10	21	2 1	7 11	4 0 7
20	2 0	9 12	3 2	1 20	20	7 0	7 11	8 1 9
18	9 3	3 12	6 3	0 III 0 IX	19	5 3	2 12	0 2 8
17	1 5	5 12	8 4	2 10	17	8 5	5 12	0 4 1
14	8 7	5 12	6 5	3 20	15	6 7	6 12	1 5 1
12	0 9	4 12	0 6	6 IV 0 X	12	7 9	5 11	7 6 4
8	9 10	8 10	9 7	5 10	9	7 11	0 10	7 7 3
5	4 12	1 9	6 8	2 20	6	1 12	5 9	3 8 1
1	8 12	9 7	7 8	7 V 0 XI	2	5 13	4 7	5 8 7
1	8 13	3 5	6 8	7 10	1	1 13	9 5	7 8 9
5	4 13	4 3	8 8	7 20	4	7 14	0 3	6 8 7
8	9 13	0 1	5 8	0 VI 0 0	8	3 13	7 1	5 8 1

Primum Signorum — + vel + — respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.

74.  $\eta$  Draconis 3.

1780

75.  $\alpha$ . Trianguli 2. 3.

Afcensio Recta  $8^{\circ} 5' 15'' 38''$   
 Variatio annua  $+ 11. 90.$   
 Declinatio  $62^{\circ} 0' 54'' 20 B.$   
 Variatio annua  $- 8. 39.$

Argument  
 pro  
 Aberratio-  
 ne  
 Longitudo  
 Solis.

Afcensio Recta  $8^{\circ} 6' 23'' 33''$   
 Variatio annua  $+ 93. 04$   
 Declinatio  $68^{\circ} 35' 28'' 20 A$   
 Variatio annua  $+ 8. 03.$

Aberra- tio in Afcenfi. Rectam.		Aberra- tio in Declina- tion.		Nutatio in Afcenfi. Rectam.		Nutatio in Declina- tion.		Argument. pro Nutatione Locus $\Omega$ & Afcend.		Aberra- tio in Afcenfi. Rectam.		Aberra- tio in Declina- tion.		Nutatio in Afcenfi. Rectam.		Nutatio in Declina- tion.	
+	-	+	+	-	-	+	S. G. S.	+	-	-	+	+	+	-	+	+	-
16	6 18	4	7	2	8	1	O o VI	21	1	14	2	9	9	8	1		
22	9 16	9	7	4	7	3	10	29	4	12	4	16	5	7	3		
28	8 14	9	6	6	6	3	20	36	7	10	2	21	3	6	3		
33	4 12	3	5	8	4	9	I o VII	42	5	7	8	26	5	4	9		
38	0 9	4	4	7	3	6	10	48	1	5	1	30	7	3	6		
40	4 6	2	3	9	2	2	20	51	7	2	4	33	9	2	2		
42	2 2	8	2	7	0	7	II o VIII	53	8	0	6	36	6	0	7		
42	+	-	+	-	+	-	10	53	8	3	5	37	7	0	7		
41	2 4	2	1	2	1	9	20	52	4	6	3	37	2	1	9		
38	8 7	5	0	3	2	8	III o IX	49	6	8	9	35	9	2	8		
35	4 10	6	1	4	4	1	10	45	0	11	2	34	2	4	1		
31	0 13	4	2	8	5	1	20	39	2	13	2	30	6	5	1		
25	2 15	8	3	6	6	4	IV o X	32	3	14	8	27	9	6	4		
19	2 17	6	5	0	7	3	10	24	4	15	9	21	2	7	3		
12	2 18	9	5	9	8	1	20	15	8	16	5	16	2	8	1		
5	0 19	7	6	5	8	7	V o XI	6	6	16	7	9	9	8	7		
2	+	-	+	-	+	-	10	2	+	8	16	3	3	3	8	9	
9	4 19	5	7	0	8	7	20	12	2	15	5	3	6	8	7		
14	6 18	4	7	2	8	1	VI o O	21	1	14	2	9	9	8	1		

Primum Signorum  $- +$  vel  $+ -$  respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.

76. ζ Ophiuchi 3. 1780 77. ζ Herculis 3.

Ascensio Recta 8° 6' 16" 1/2 Variatio annua + 49. 44. Declinatio 10° 6' 18" 70 A. Variatio annua + 8. 07. Argument. pro Aberratione Longitude Solis. Ascen Recta 8° 8' 15" 19" 1/2 Variatio annua + 34. 53. Declinatio 32° 0' 35" 50 B. Variatio annua - 7. 43.

Aberratio in Ascens. Rectam.	Aberratio in Declination.	Nutatio in Ascens. Rectam.	Nutatio in Declination.	Argument. pro Nutatione Locus ♀ Ascend.	Aberratio in Ascens. Rectam.	Aberratio in Declination.	Nutatio in Ascens. Rectam.	Nutatio in Declination.
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+	-	+	-	-	+	+	-	S. G. S.	+	-	-	+	+	-	-	+
7	5	5	0	0	7	8	1	O o VI	8	0	15	7	2	1	8	2
10	6	5	2	3	5	7	3	10	11	7	14	8	0	3	7	5
13	4	5	2	6	3	6	3	20	15	0	13	5	1	5	6	5
15	8	5	1	9	2	4	9	I c VII	17	9	11	7	3	4	5	2
17	7	4	8	11	7	3	6	10	20	3	9	5	5	3	3	9
19	0	4	3	13	7	2	2	20	22	0	7	0	7	0	2	5
19	8	3	9	15	5	0	7	II o VIII	23	1	4	4	8	4	0	0
20	0	3	1	16	5	0	7	10	23	4	1	6	9	4	1	0
19	6	2	3	16	8	1	9	20	23	1	1	9	8	1	6	6
18	5	1	5	16	7	2	8	III o IX	22	0	3	9	10	2	2	6
17	0	0	6	16	7	4	1	10	20	3	6	6	10	6	3	9
14	9	0	2	15	8	5	1	20	7	9	9	1	10	5	4	9
12	3	1	1	14	6	6	4	IV o X	15	0	11	3	10	2	6	2
9	4	2	0	12	9	7	3	10	11	7	13	1	9	5	7	1
6	2	2	8	10	7	8	1	20	8	0	14	6	8	5	8	0
2	8	3	5	8	1	8	7	V o XI	4	0	15	6	7	1	8	7
0	+	7	4	1	5	1	8	9	10	0	0	16	1	5	5	8
4	2	4	7	2	4	8	7	20	4	0	16	2	3	8	8	7
7	5	5	0	0	7	8	1	VI o O	8	0	15	7	2	1	8	2

Primum Signorum — + vel + — respondet sex primis Signis Argumentorum; secundum Signum, sex posterioribus Signis eorundem Argumentorum.

78. ♌ Scorpii 3.	1780	79. ♄ Herculis 3.
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Ascensio Recta 8° 8' 59" 40" Variatio annua + 58. 75. Declinatio 33° 52' 17" 90 A. Variatio annua + 7. 19.	Argument. pro Aberratio- ne Longitudo Solis.	Ascensio Recta 8° 8' 50" 22" Variatio annua + 30. 84. Declinatio 39° 21' 10" 30 B. Variatio annua - 7. 25.
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Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.	Argument. pro Notatione Locus ♄ ♁ Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.
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+	-	-	+	-	+	+	-	S. G. S.	+	-	-	+	+	-	-	+
8	I	2	8	2	3	8	2	O ° VI	8	7	17	2	2	7	8	+
II	0	2	0	5	9	7	5	IO	12	7	16	3	1	1	7	5
15	3	I	2	9	4	6	5	20	16	4	14	7	0	5	6	5
18	3	0	3	12	8	5	2	I ° VII	19	5	12	8	2	1	5	2
		+	-													
20	7	0	5	15	7	3	9	IO	22	1	10	4	3	9	3	9
22	4	I	4	18	0	2	5	20	24	0	7	7	5	4	2	5
23	4	2	2	20	0	I	0	II ° VIII	25	1	4	9	6	7	1	0
							+								+	-
23	8	3	0	21	0	I	0	IO	25	5	1	9	7	7	1	0
											+	-				
23	4	3	6	21	2	I	6	20	25	1	1	3	8	2	1	6
22	4	4	2	20	8	2	6	III ° IX	24	0	4	3	8	6	2	6
20	7	4	6	20	6	3	9	IO	22	1	7	2	9	2	3	9
18	3	4	8	19	2	4	9	20	19	5	9	9	9	3	4	9
15	3	5	0	17	5	6	2	IV ° X	16	4	12	3	9	2	6	2
II	9	5	0	15	1	7	1	IO	12	7	14	2	8	8	7	1
8	1	4	8	12	0	8	0	20	8	7	15	9	8	0	8	0
4	0	4	5	8	7	8	7	V ° XI	4	9	17	0	6	9	8	7
										+	-					
0	0	4	1	5	1	8	9	IO	0	0	17	6	5	6	8	9
	+															
4	0	3	5	1	4	8	7	20	4	9	17	7	4	2	8	7
				+	-											
8	I	2	8	2	3	8	2	VI ° 0	8	7	17	2	2	7	8	12

Primum Signorum — + vel + — respondet sex primis Signis Argumentorum: secundum Signum, sex posterioribus Signis eorundem Argumentorum.



80. ε Herculis 3<sup>a</sup>

1780

81. η Ophiuchi 2.

Ascensio Recta 8° 12' 58" 5<sup>1</sup>/<sub>2</sub>  
 Variatio annua + 34. 53.  
 Declinatio 31° 15' 47" 40 B.  
 Variatio annua — 5. 37.

Argument.  
 pro  
 Aberratione  
 Longitude  
 Solis.

Ascensio Recta 8° 14' 26" 40<sup>1</sup>/<sub>2</sub>  
 Variatio annua + 51. 50.  
 Declinatio 15° 26' 10" 00 A.  
 Variatio annua + 5. 37.

Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus Ω 3) Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.
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+	-	-	+	+	-	-	+	S. G. S.	+	-	-	+	-	+	+	-
6	3	15	8	1	6	8	5	O o VI	5	3	3	5	0	7	8	6
10	0	15	0	0	2	8	0	10	8	6	3	5	3	9	8	1
13	5	13	8	2	1	7	3	20	12	0	3	2	6	7	7	4
16	7	11	4	3	9	6	1	I o VII	14	5	2	8	9	7	6	2
19	2	10	1	5	8	4	8	10	16	8	2	6	12	4	4	9
21	1	7	8	7	4	3	3	20	18	7	2	0	14	5	3	4
22	4	5	2	8	7	1	9	II o VIII	19	9	1	4	16	4	2	0
23	0	2	5	9	6	0	5	10	20	5	0	9	17	4	0	6
23	0	0	3	9	9	0	8	20	20	5	0	2	17	7	0	7
22	2	3	0	10	2	2	1	III o IX	19	9	0	3	17	6	2	0
20	8	5	7	10	6	2	6	10	18	7	1	0	17	6	2	7
18	7	8	3	10	3	3	7	20	16	8	1	6	16	7	3	8
16	0	10	5	10	1	5	2	IV o X	14	5	2	1	15	4	5	3
12	9	12	5	9	2	6	4	10	12	0	2	5	13	5	6	5
9	3	14	2	8	2	7	4	20	8	6	2	9	11	2	7	5
5	6	15	1	6	7	8	4	V o XI	5	3	3	4	8	5	8	4
L	6	15	9	5	1	8	7	10	1	8	3	5	5	5	8	7
2	4	16	1	3	3	9	0	20	1	8	3	5	2	4	9	0
6	3	15	8	1	6	8	5	VI o O	5	3	3	5	0	7	8	6

Primum Signorum — + vel + — respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.

82. $\delta$ Herculis 3.				1780	83. $\beta$ Ophiuchi 3.			
Ascensio Recta $8^{\circ}16'45''3''$ Variatio annua $+ 37.02$ . Declinatio $25^{\circ}6'48''30$ B. Variatio annua $- 4.60$ .				Argument. pro Aberratione Longitude Solis.	Ascensio Recta $8^{\circ}23'9''11''$ Variatio annua $+ 44.54$ . Declinatio $4^{\circ}40'28''10$ B. Variatio annua $- 2.39$ .			
Aberratio in Ascens. Rectam.	Aberratio in Declination.	Notatio in Ascens. Rectam.	Notatio in Declination.	Argument. pro Notatione Locis & Ascend.	Aberratio in Ascens. Rectam.	Aberratio in Declination.	Notatio in Ascens. Rectam.	Notatio in Declination.
+ -	- +	+ + - -	+ -	S. G. S.	+ -	- +	+ + - -	+ -
4 6	14 7	I 0 8 7	0 0 VII	2 4	9 3	0 1	9 0	
8	I 14	I 0 8 2	10	5 9	9 1	2 4	8 7	
11	4 13	0 2 9 7	20	9 1	8 7	4 9	7 9	
14	5 11	7 5 0 6	I 0 VII	12 0	8 0	7 4	6 9	
17	1 9	9 6 9 5	10	14 6	7 0	9 7	5 6	
19	2 7	9 8 5 3	20	16 8	5 9	11 6	4 3	
20	8 5	6 1 2 2	II 0 VIII	18 4	4 6	13 2	3 0	
21	8 3	1 10 8 0	10	19 5	3 0	14 2	1 5	
21	9 0	5 11 1 0	20	20 0	1 4	14 5	0 2	
21	5 2	I 11 3 1	III 0 IX	19 8	0 2	14 5	1 1	
20	4 4	6 11 6 2	10	19 1	1 7	14 6	2 1	
19	5 7	0 11 2 4	20	17 9	3 3	14 0	3 4	
16	3 9	I 10 6 5	IV 0 X	16 0	4 8	13 0	4 8	
13	5 11	0 9 7 6	10	13 7	6 1	11 7	6 0	
10	4 12	5 8 4 7	20	10 9	7 2	9 8	7 1	
6	8 13	7 6 7 8	V 0 XI	7 8	8 1	7 6	8 0	
3	0 14	5 4 9 8	10	4 5	8 8	5 1	8 7	
0	+ 8	14 8 3 0	20	1 0	9 2	2 7	9 0	
4	6 14	7 1 0 8	VI 0 0	2 4	9 3	0 1	9 0	

Primum Signorum — + vel + — respondet sex primis Signis Argumentorum; secundum Signum, sex posterioribus Signis eorundem Argumentorum.

84.  $\gamma$  Ophiuchi 3.

1780

85.  $\mu$  Herculis 4.

Ascens. Recta  $8^{\circ}24'13''$   
 Variatio annua  $+ 45.19$ .  
 Declinatio  $2^{\circ}48'27''$  10. B.  
 Variatio annua  $- 2.02$ .

Argument.  
 pro  
 Aberratione  
 Longitude  
 Solis.

Ascensio Recta  $8^{\circ}24'27''$   
 Variatio annua  $+ 35.62$ .  
 Declinatio  $27^{\circ}52'7''$  30. B.  
 Variatio annua  $- 1.94$ .

Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus $\Omega$ $\frac{1}{2}$ Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.										
+ 2	- 1	+ 8	- 9	0	0	9	0	9	0	S. G. S. 0 0 VI	+ 2	- 0	+ 2	- 5	0	5	9	0
5	5	8	7	2	6	8	7	10	5	8	5	1	1	4	8	7	0	
8	8	8	3	5	1	8	0	20	9	5	7	5	3	3	8	8	0	
11	8	7	6	7	6	7	1	I 0 VII	12	9	9	7	5	0	7	1	1	
14	4	6	8	10	0	5	9	10	16	0	11	8	6	7	5	9	9	
16	6	5	7	12	0	4	6	20	18	8	13	3	8	3	4	6	6	
18	3	4	4	13	6	3	3	II 0 VIII	19	6	14	6	9	7	3	3	3	
19	4	2	9	14	6	1	8	10	21	8	15	3	10	4	1	8	8	
19	9	1	4	14	9	0	6	20	22	6	15	6	10	5	0	6	6	
19	9	0	2	14	9	0	8	III 0 IX	22	6	15	4	10	5	0	8	8	
19	2	1	7	15	0	1	8	10	21	8	14	7	10	8	1	8	8	
18	0	3	2	14	3	3	0	20	19	6	13	7	10	5	3	0	0	
16	2	4	6	13	3	4	5	IV 0 X	18	8	12	1	9	8	4	5	5	
13	9	5	9	11	9	5	8	10	16	0	10	2	8	9	5	8	8	
12	2	7	0	9	9	7	0	20	12	9	8	1	7	4	7	0	0	
8	1	7	9	7	7	7	9	V 0 XI	9	5	5	6	6	0	7	9	9	
4	8	8	4	5	2	8	6	10	5	8	3	0	5	2	8	6	6	
1	4	8	8	2	6	9	0	20	2	0	0	3	2	3	9	0	0	
- 2	+ 1	- 8	- 9	0	0	9	0	VI 0 0	- 2	+ 0	- 2	+ 5	- 0	+ 5	- 9	0	0	

Primum Signorum  $- +$  vel  $+ -$  respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.



86. ♀ Serpentis 4.

1780

87. ♀ Herculis 3.

Afscensio Recta 8° 27' 13" 6"  
 Variatio annua + 47. 45.  
 Declinatio 3° 39' 25" 60 A.  
 Variatio annua + 0. 98.

Argument.  
 pro  
 Aberratio-  
 ne  
 Longitudo  
 Solis.

Afscensio Recta 8° 27' 16" 40" 1/2  
 Variatio annua + 30. 92.  
 Declinatio 37° 17' 25" 90. B.  
 Variatio annua - 0. 99.

Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus ♀ ♂ Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.								
+ 1	- 0	+ 6	- 8	0	0	9	0	S. G. S. 0 0 VI	+ 1	- 3	+ 17	- 4	0	4	9	0
4	5	6	7	2	6	8	8	10	5	6	17	0	1	- 2	8	8
7	8	6	4	5	1	8	2	20	9	8	16	2	2	6	8	2
10	9	6	0	7	6	7	4	I 0 VII	13	6	14	8	4	3	7	4
13	7	5	3	9	9	6	3	10	17	0	12	9	5	8	6	3
16	0	4	6	11	7	5	0	20	19	7	10	7	6	8	5	0
17	9	3	6	13	4	3	6	II 0 VIII	22	3	8	2	7	9	3	6
19	1	2	5	14	4	2	3	10	23	9	5	3	8	6	2	3
19	8	1	3	14	7	1	2	20	24	8	2	4	8	5	1	2
20	0	0	1	14	7	0	2	III 0 IX	25	0	0	6	8	5	0	2
19	5	1	1	14	8	1	5	10	24	4	3	6	8	8	1	5
18	4	2	3	14	1	2	7	20	23	0	6	5	8	5	2	7
16	8	3	4	13	1	4	1	IV 0 X	21	8	9	2	8	0	4	1
14	6	4	4	11	7	5	4	10	19	0	11	7	7	3	5	4
12	0	5	2	9	8	6	7	20	15	6	13	7	6	2	6	7
9	1	5	9	7	6	7	6	V 0 XI	11	8	15	4	4	8	7	6
5	9	6	3	5	1	8	5	10	7	3	16	6	3	4	8	5
2	4	6	8	2	7	8	9	20	3	0	17	2	2	0	8	9
- 1	+ 0	6	8	0	0	9	0	VI 0 0	- 1	+ 3	17	4	0	4	9	0

Primum Signorum — + Vel + — respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.



88.  $\gamma$  Sagittæ præced. 4.

1780

89.  $\gamma$  Serpentis 3.

Ascensio Recta  $8^{\circ}27'44''41'''$   
 Variatio annua  $+ 57.53$ .  
 Declinatio  $29^{\circ}34'9''70$  A.  
 Variatio annua  $+ 0.78$ .

Argument.  
 pro  
 Aberratio-  
 ne  
 Longitudo  
 Solis.

Ascensio Recta  $9^{\circ}2'29'24''$   
 Variatio annua  $+ 47.20$ .  
 Declinatio  $2^{\circ}56'5''30$  A.  
 Variatio annua  $- 0.86$ .

Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tio.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tio.	Argument. pro Nutatione Locus $\Omega$ $\textcircled{D}$ Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tio.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tio.
+ 0	- 8	+ 2	+ 3	S. G. S. 0 0 VI	- 0	+ 7	+ 7	0 0 9 0
4	8	2	1	10	+ 2	- 8	7	0 2 7 8 9
8	6	1	9	20	6	2	6	5 5 8 5
12	2	1	7	I 0 VII	9	4	6	0 8 1 7 6
15	4	1	4	10	12	3	5	3 10 6 6 7
17	3	1	1	20	14	9	4	4 12 7 5 4
20	3	0	7	II 0 VIII	17	0	3	4 14 4 4 1
21	9	0	2	10	18	5	2	3 15 4 2 8
22	8	0	1	20	19	6	1	1 15 7 1 5
23	0	0	6	- + III 0 IX	20	0	0	1 15 7 0 2
24	5	0	9	10	19	8	1	3 15 8 1 2
21	3	1	5	20	19	0	2	5 15 1 2 3
19	5	1	6	IV 0 X	17	7	3	6 14 1 3 6
17	1	1	9	10	15	8	4	6 12 6 5 0
14	2	2	1	20	13	4	5	4 10 5 6 3
10	8	2	3	V 0 XI	10	6	6	1 8 1 7 4
7	1	2	3	10	7	5	6	6 5 5 8 3
3	6	2	3	20	4	2	6	9 2 8 8 9
- 0	+ 8	- 2	- 3	VI 0 0	0	7	7	0 0 9 0

Primum Signorum  $- +$  vel  $+ -$  respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.

90. $\delta$ Lyrae 3.				1780	91. $\epsilon$ Aquila 4.			
Ascensio Recta $9^{\circ}11'42''21''$				Argument. pro Aberratio- ne Longitudo Solis.	Ascensio Recta $9^{\circ}12'24'45''\frac{1}{2}$			
Variatio annua $+ 31. 58.$					Variatio annua $+ 41. 01.$			
Declinatio $36^{\circ}37'51''80 B.$					Declinatio $14^{\circ}47'4''90 B.$			
Variatio annua $+ 4. 07.$				Variatio annua $+ 54. 31.$				
Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Notatio in Ascens. Rectam.	Notatio in Declina- tion.	Argument. pro Nutatione Locus $\odot$ $\textcircled{3}$ Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Notatio in Ascens. Rectam.	Notatio in Declina- tion.
-	+	-	+	S. G. S.	-	+	-	+
3	9	17	0	0 $\circ$ VI	3	9	12	4
0	0	17	2	10	0	4	12	4
3	9	16	8	20	3	2	12	0
8	5	16	0	I $\circ$ VII	6	7	11	3
12	4	14	6	10	10	2	10	1
16	0	12	8	20	13	0	8	10
19	0	10	5	II $\circ$ VIII	15	5	7	1
21	5	8	1	10	17	5	5	3
23	3	5	2	20	19	3	3	2
24	4	2	4	III $\circ$ IX	20	3	1	0
24	8	0	6	10	20	6	1	0
24	4	3	5	20	20	4	3	2
23	3	6	4	IV $\circ$ X	19	4	5	3
21	5	9	1	10	18	1	7	1
19	0	11	6	20	16	0	8	8
16	0	13	6	V $\circ$ XI	13	5	10	1
12	4	15	2	10	10	6	11	3
8	5	16	4	20	7	4	12	0
3	9	17	0	VI $\circ$ O	3	9	12	4

Primum Signorum — + vel + — respondet sex primis Signis  
Argumentorum: secundum Signum, sex posterioribus Signis  
eorundem Argumentorum.



94. β Cygni 3.

1780

95. α Arminoi 4.

Ascensio Recta 9° 20' 27" 44"  $\frac{1}{2}$   
 Variatio annua + 36. 39.  
 Declinatio 27° 30' 35" 10. B  
 Variatio annua + 7. 01.

Argument.  
 pro  
 aberratio-  
 ne  
 Longitudo  
 Solis.

Ascensio Recta 9° 21' 20' 7"  $\frac{1}{2}$   
 Variatio annua + 46. 74.  
 Declinatio 1° 45' 32" 50 A.  
 Variatio annua + 7. 29.

Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus $\delta$ Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.
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-	+	-	+	-	+	-	+	S. G. S.	-	+	+	-	+	-	+	-
7	0	14	9	1	6	8	5	O 0 VI	6	5	7	4	0	1	8	4
3	1	15	2	3	4	8	8	10	3	1	7	2	2	6	8	8
+	-								+	0	3	6	9	5	3	8
0	8	15	1	5	3	8	9	20	0	-	6	9	5	3	8	9
4	7	14	5	7	2	8	6	I 0 VII	3	8	6	3	8	0	8	6
8	3	13	4	8	7	7	9	10	7	2	5	5	10	4	8	0
11	9	11	0	10	0	7	0	20	10	2	4	5	12	4	7	0
14	9	10	1	11	0	6	1	II 0 VIII	13	0	3	5	14	2	6	2
17	5	8	1	11	5	4	6	10	15	4	2	3	15	2	4	7
19	6	5	6	11	3	3	5	20	17	3	1	0	15	6	3	6
													+			
21	2	3	1	11	0	2	4	III 0 IX	18	6	0	3	15	7	2	5
22	1	0	5	10	9	1	3	10	19	6	1	5	15	7	1	4
		+	-			+	-									
22	3	2	1	10	1	0	0	20	19	8	2	7	15	0	0	1
														-		+
21	9	4	6	9	2	1	4	IV 0 X	19	5	3	9	14	0	1	4
20	7	7	1	7	9	2	8	10	18	5	4	9	12	5	2	7
18	9	9	3	6	2	4	2	20	17	0	5	8	10	5	4	1
16	6	11	3	4	4	5	5	V 0 XI	15	0	6	6	8	1	5	4
13	6	12	9	2	3	6	8	10	12	5	7	0	5	5	6	7
10	5	14	1	0	4	7	7	20	9	7	7	3	2	8	7	7
			+	-												
7	0	14	9	1	6	8	5	VI 0 0	6	5	7	4	0	1	8	4

Primum Signorum -- + vel + -- respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.



96. « Sagittæ 4.

1780

97. η Antinoi 4.

Afcen. Recta 9° 22' 34" 8"  
 Variatio annua + 40. 33.  
 Declinatio 17° 31' 18" 40 B.  
 Variatio annua + 7. 70.

Argument.  
 pro  
 Aberratio-  
 ne  
 Longitudo  
 Solis.

Afcensio Recta 9° 25' 19" 0"  
 Variatio annua + 46. 02.  
 Declinatio 0° 27' 22" 90 B.  
 Variatio annua + 8. 57.

Aberra-  
 tio in  
 Ascens.  
 Rectam.

Aberra-  
 tio in  
 Declina-  
 tion.

Nutatio  
 in  
 Ascens.  
 Rectam.

Nutatio  
 in  
 Declina-  
 tion.

Argument.  
 pro  
 Nutatione  
 Locus Ω  
 3 Ascend.

Aberra-  
 tio in  
 Ascens.  
 Rectam.

Aberra-  
 tio in  
 Declina-  
 tion.

Nutatio  
 in  
 Ascens.  
 Rectam.

Nutatio  
 in  
 Declina-  
 tion.

-	+	-	+	-	+	-	+	S	G.	S.	-	+	-	+	-	+	-	+
7	0	12	2	1	1	8	3	O	o	VI	7	7	8	1	0	0	8	7
3	6	12	4	3	3	8	8	10			4	5	8	0	2	7	8	1
0	0	12	2	5	4	8	9	20			1	0	7	6	5	3	8	9
+	-										+	-						
3	6	11	7	7	5	8	6	I	o	VII	2	4	7	1	7	9	8	7
7	0	10	8	9	4	8	0	10			5	8	6	3	10	3	8	7
10	3	9	5	10	9	7	1	20			8	9	5	3	12	3	7	2
13	2	8	0	12	3	6	4	II	o	VIII	11	8	4	1	14	0	6	4
15	9	6	2	13	0	4	8	10			14	3	2	9	15	0	5	0
18	0	4	2	13	0	3	8	20			16	6	1	5	15	3	4	0
19	5	2	2	12	7	2	7	III	o	IX	18	2	0	1	15	3	2	9
														+				
20	4	0	0	12	6	1	5	10			19	2	1	3	15	4	1	9
20	7	2	2	11	9	0	3	20			19	7	2	6	14	7	0	6
20	4	4	2	10	9	1	3	IV	o	X	19	5	4	0	13	7	0	7
19	5	6	2	9	5	2	5	10			18	8	5	0	12	2	2	1
18	0	8	0	7	8	4	0	20			17	6	6	0	10	2	3	6
15	9	9	5	5	6	5	3	V	o	XI	15	6	6	8	7	9	4	9
13	2	10	8	3	3	6	6	10			13	5	7	6	5	3	6	3
10	3	11	7	1	2	7	6	20			10	7	8	0	2	7	7	4
7	0	12	2	1	1	8	3	VI	o	O	7	7	8	1	0	0	8	1

Primum Signorum — + vel + — respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum

98. " Pavonis 2. 1780 99. γ Cygni 3.

Afscensio Recta 10° 2' 1" 48"  
 Variatio annua + 72. 76.  
 Declinatio 57° 25' 10" 50A.  
 Variatio annua — 10. 63.

Argument. pro Aberratione Longitudo Solis.

Afscensio Recta 10° 3' 34" 58"  
 Variatio annua + 32. 37.  
 Declinatio 39° 33' 46" 90B.  
 Variatio annua + 11. 08.

Aberratio in Afscens. Rectam.	Aberratio in Declination.	Nutatio in Afscens. Rectam.	Nutatio in Declination.	Argument. pro Nutatione Locus Ascend.	Aberratio in Afscens. Rectam.	Aberratio in Declination.	Nutatio in Afscens. Rectam.	Nutatio in Declination.
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— +		— +		+ —		+ —		S. G. S.	— +		— +		— +		— +	
17	8	9	0	6	9	7	7	0 0 VI	13	1	16	0	4	0	7	5
12	0	10	4	2	4	8	4	10	9	1	16	8	5	5	8	2
				—	+											
5	7	11	4	2	5	8	8	20	4	8	17	3	7	0	8	8
+	0	6	12	2	7	6	8	1 0 VII	0	4	17	2	8	2	8	9
									+	—						
7	0	12	5	12	5	8	3	10	3	9	16	5	9	4	8	7
13	0	12	4	17	0	7	7	20	8	2	15	5	10	3	8	1
18	8	12	0	21	0	6	8	II 0 VIII	12	3	13	6	10	7	7	3
23	9	11	3	24	0	5	6	10	15	9	11	8	10	6	6	4
28	4	10	1	26	2	4	5	20	19	1	9	5	10	0	5	0
32	0	8	7	27	6	3	5	III 0 IX	21	7	6	7	9	2	3	9
34	3	7	0	28	8	2	6	10	23	6	3	9	8	7	2	8
36	1	5	1	28	7	1	4	20	24	8	0	9	7	6	1	8
										+	—					
36	5	3	1	28	2	0	1	IV 0 X	25	3	2	1	6	4	0	6
					—	+									+	—
35	8	0	8	26	3	1	4	10	25	0	5	1	4	9	1	0
										+	—					
34	1	1	3	23	8	2	7	20	23	8	7	9	3	3	2	2
31	4	3	5	20	6	4	3	V 0 XI	22	2	10	4	1	4	3	7
27	6	5	5	16	4	5	7	10	19	7	12	6	0	5	5	1
23	1	7	4	12	1	6	8	20	16	6	14	5	2	2	6	4
17	8	9	0	6	9	7	7	VI 0 0	13	1	16	0	4	0	7	5

Primum Signorum — + vel + — responderet sex primis Signis Argumentorum: secundum Signum, sex posterioribus Signis eorundem Argumentorum.

100. ε Delphini 4.

1780

101. ζ Delphini 4.

Ascensio Recta 10° 5' 49' 28"  
 Variatio annua + 43. 14.  
 Declinatio 10° 34' 9" 40 B.  
 Variatio annua + 11. 69.

Argument.  
 pro  
 Aberratio-  
 ne  
 Longitudo  
 Solis.

Ascensio Recta 10° 6' 15' 20"  
 Variatio annua + 42. 16.  
 Declinatio 13° 55' 47" 00 B.  
 Variatio annua + 11. 85.

A' erratio in Ascens. Rectam.	Aberratio in Declination.	Nutatio in Ascens. Rectam.	Nutatio in Declination.	Argument. pro Nutatione Locis Ω Ascend.	Aberratio in Ascens. Rectam.	Aberratio in Declination.	Nutatio in Ascens. Rectam.	Nutatio in Declination.
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-		+		-		+		S. G. S.	-		+		-		+	
10	6	10	5	0	9	7	3	O O VI	11	2	11	4	1	3	7	2
7	6	10	6	3	4	8	1	10	8	1	11	7	3	7	8	0
4	5	10	5	5	7	8	7	20	4	8	11	7	5	9	8	6
1	0	10	0	8	1	8	8	I O VII	1	4	11	2	7	7	8	7
+	-	-	+	-	+	-	+	10	+	1	10	6	10	2	8	4
2	3	9	3	10	1	8	5	20	5	5	9	5	11	7	7	9
5	7	8	4	11	9	8	0	II O VIII	8	8	8	2	13	1	7	2
8	8	6	9	13	3	7	2	10	11	8	6	5	13	8	6	1
11	6	5	5	14	1	6	2	20	14	4	4	8	13	7	5	1
14	4	3	7	14	3	5	1	20	16	6	2	8	13	5	4	1
16	6	2	0	14	0	4	0	III O IX	18	6	2	8	13	4	3	1
18	2	0	2	14	0	3	0	10	18	3	0	8	13	4	3	1
19	2	1	6	13	3	2	0	20	19	4	1	2	12	6	2	2
19	7	3	4	12	2	0	8	IV O X	19	9	3	2	11	5	1	1
19	5	5	2	10	7	0	7	10	19	9	5	2	10	0	0	4
18	8	6	7	8	8	2	0	20	19	2	6	9	8	0	1	9
17	6	8	0	6	5	3	0	V O XI	18	0	8	5	5	9	3	5
15	6	9	1	4	0	5	0	10	16	2	9	8	3	5	4	9
13	5	9	9	1	7	6	2	20	13	9	10	8	1	1	6	1
10	6	10	5	0	9	7	3	VI O O	11	2	11	4	1	3	7	2

Primum Signorum — + vel + — respondet sex primis Signis Argumentorum: secundum Signum, sex posterioribus Signis eorundem Argumentorum.



102.  $\beta$  Delphini 3.

1780

103.  $\delta$  Delphini 4.

Ascensio Recta  $10^{\circ}6'48'38''$   
 Variatio annua  $+ 42. 21.$   
 Declinatio  $13^{\circ}50'31''50B.$   
 Variatio annua  $+ 12. 01.$

Argument.  
 pro  
 Aberratione  
 Longitudo  
 Solis.

Ascensio Recta  $10^{\circ}8'17'47$   
 Variatio annua  $+ 42. 16$   
 Declinatio  $14^{\circ}17'48''20B$   
 Variatio annua  $+ 12. 42.$

Aberratio in Ascens. Rectam.	Aberratio in Declination.	Nutatio in Ascens. Rectam.	Nutatio in Declination.	Argument. pro Nutatione Locus $\Omega$ $\Downarrow$ Ascend.	Aberratio in Ascens. Rectam.	Aberratio in Declination.	Nutatio in Ascens. Rectam.	Nutatio in Declination.
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				S. G. S.											
-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+
II	2	II	4	I	3	7	2	O	o	VI	II	8	II	4	I
8	1	II	7	3	7	8	0	IO			8	7	II	7	3
4	8	II	7	5	9	8	6	20			5	4	II	7	6
I	4	II	2	7	7	8	7	I	o	VII	2	I	II	2	8
+	-										+	-			
2	1	IO	6	IO	2	8	4	IO			I	4	IO	6	IO
5	5	9	5	II	7	7	9	20			4	8	9	5	II
8	8	8	2	13	1	7	2	II	o	VIII	8	I	8	2	13
I	8	6	5	13	8	6	1	IO			II	2	6	5	13
14	4	4	8	13	7	5	1	20			14	5	4	8	13
16	6	2	8	13	5	4	1	III	o	IX	16	3	2	8	13
18	3	o	8	13	4	3	1	IO			18	1	o	8	13
			+								+	-			
19	4	I	2	12	6	2	2	20			19	3	I	2	12
19	9	3	2	II	5	1	1	IV	o	X	20	o	3	2	II
							+								+
19	9	5	2	IO	o	o	4	IO			20	o	5	2	IO
19	2	6	9	8	o	1	9	20			19	4	6	9	8
18	o	8	5	5	9	3	5	V	o	XI	18	4	8	5	5
16	2	9	8	3	5	4	9	IO			16	7	9	8	3
13	9	IO	8	I	1	6	1	20			14	6	IO	8	I
			+				-								+
II	2	II	4	I	3	7	2	VI	o	O	II	8	II	4	I

Primum Signorum — + vel + — respondet sex primis Signis Argumentorum : secundum Signum , sex posterioribus Signis eorundem Argumentorum.



104. ♀ Delphini 4.

1780

105. ♀ Cygni 4.

Ascensio Recta 10°9'6"57"  
 Variatio annua + 41. 91.  
 Declinatio 15°20'40"90. B  
 Variatio annua + 12. 65.

Argument.  
 pro  
 Aberratio-  
 ne  
 Longitudo  
 Solis.

Ascen. Recta 10°15'53'33"  
 Variatio annua + 38. 32.  
 Declinatio 29°20'3"70. B.  
 Variatio annua + 14. 40.

Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus Ω ⊕ Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.
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-	+	-	+	-	+	-	+	S. G. S.	-	+	-	+	-	+	-	+	
2	0	II	5	I	4	7	0	O o VI	15	0	I3	I	3	6	6	3	
9	1	II	9	3	7	7	9	10	12	0	14	2	5	6	7	4	
5	9	II	9	6	0	8	5	20	8	6	14	7	7	4	8	0	
2	4	II	5	8	2	8	6	I o VII	4	9	14	8	9	1	8	4	
+	-																
I	0	10	8	10	2	8	4	10		I	2	14	5	10	7	8	4
									+	-							
4	5	9	8	II	8	8	0	20	2	7	13	8	II	9	8	I	
7	8	8	5	I3	2	7	2	II o VIII	6	4	12	6	12	8	7	4	
10	9	6	9	I3	9	6	2	10	10	0	II	1	12	9	6	5	
I3	7	5	I	I3	7	5	2	20	I3	2	9	2	12	4	5	8	
16	0	3	I	I3	6	4	2	III o IX	16	I	7	I	II	7	4	8	
17	9	I	0	I3	5	3	5	10	18	4	4	6	II	3	4	0	
		+	-														
19	I	I	0	12	6	2	3	20	20	2	2	I	10	2	3	I	
										+	-						
19	8	3	I	II	5	I	3	IV o X	21	5	0	5	8	9	2	0	
					+	-											
10	0	5	I	10	0	0	I	10	22	0	3	I	7	2	0	8	
														+	-		
19	5	6	9	8	0	I	7	20	21	8	5	6	5	2	0	7	
18	4	8	5	5	9	3	2	V o XI	21	0	8	0	3	I	2	2	
16	8	9	8	3	4	4	7	10	19	6	10	0	0	8	3	8	
												+	-				
14	6	10	8	I	I	5	9	20	17	3	II	8	I	4	5	I	
			+	-													
12	0	II	5	I	4	7	0	VI o O	15	0	I3	I	3	6	6	3	

Primum Signorum — + vel + — respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.

106. e Pegasi 4.

1780

107. s Pegasi 3.

Afcensio Recta 10° 17' 58" 14"  
 Variatio annua + 41. 58.  
 Declinatio 18° 52' 20" 20B.  
 Variatio annua + 14. 33.

Argument.  
 pro  
 Aberratio-  
 ne  
 Longitudo  
 Solis.

Afcen. Recta 10° 23' 20" 26"  
 Variatio annua + 44. 30.  
 Declinatio 8° 52' 32" 20. B.  
 Variatio annua + 16. 09.

Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus $\Omega$ & Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.
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-		+		-		+		S. G. S.	-		+		-		+	
14	2	11	6	2	3	6	1	O O VI	14	9	10	0	1	2	5	4
11	6	12	2	4	6	7	2	10	12	6	10	3	3	6	6	6
8	5	12	5	6	8	7	9	20	9	9	10	3	6	1	7	5
5	2	12	4	8	9	8	3	I O VII	6	8	9	0	8	5	8	0
0	7	11	6	10	7			10	3	7	9	3	10	6	8	2
+	-					8	3									
0	7	11	0	12	4	8	1	20	0	3	8	3	12	4	8	1
5	2	9	9	13	4	7	5	II O VIII	3	0	7	1	13	9	7	7
2	5	8	3	13	8	6	6	10	6	2	5	8	14	5	6	9
11	6	6	6	13	6	5	9	20	9	3	4	2	14	6	6	2
14	2	4	7	13	2	4	9	III O IX	12	1	2	5	14	5	5	3
16	6	2	6	12	9	4	2	10	14	5	0	7	14	4	4	7
18	3	0	4	12	0	3	3	20	16	4	1	0	13	5	3	9
19	5	1	7	10	7	2	2	IV O X	18	0	2	8	12	4	3	1
20	1	3	8	9	2	1	2	10	18	9	4	5	10	8	1	9
20	1					+	-									
19	5	8	7	2	0	5		20	19	2	6	1	8	8	0	3
18	3	7	7	4	9	2	0	V O IX	19	0	7	4	6	5	1	2
16	6	9	3	2	4	3	5	10	18	0	8	5	4	0	2	6
14	2	10	6	0	1	4	9	20	16	8	9	4	1	5	3	1
				+	-								+	-		
		11	6	2	3	6	1	VI O O	14	9	10	0	1	2	5	4

Primum Signorum — + Vel + — respondet sex primis Signi  
 Argumentorum: secundum Signum, sex posterioribus Signi  
 eorundem Argumentorum.

108. $\mu$ Cygni 4.				1780	109. $\alpha$ Gruis 2.			
Ascen. Recta $10^{\circ}23'34''35''$				Argument. pro Aberratio- ne Longitudo Solis.	Ascensio Recta $10^{\circ}28'34''6''$			
Variatio annua $+ 39. 90.$					Variatio annua $+ 57. 79$			
Declinatio $27^{\circ}45'30''60. B.$					Declinatio $48^{\circ}0'51'' 10. A.$			
Variatio annua $+ 16. 13.$					Variatio annua $- 17. 11$			
Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus $\Omega$ $\odot$ Ascend.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.
— + — + — + — +				S. G. S.	— + — + — + — +			
16 5 12 2 3 8 5 4				00 VI.	23 4 1 8 8 5 4 8			
13 9 13 3 5 9 6 6				10	20 3 3 9 4 7 6 0			
11 0 14 0 7 8 7 5				20	16 7 6 0 0 9 7 0			
7 6 14 0 9 5 8 0				10 VII	9 8 7 9 3 2 7 6			
4 1 14 2 11 3 8 2				10	6 0 9 6 7 2 8 0			
0 4 13 4 12 5 8 1				20	2 3 11 0 10 9 8 0			
+ —					+ —			
3 3 12 4 13 5 7 7				10 VIII	1 6 11 9 14 3 7 7			
6 9 11 0 13 7 6 9				10	5 3 12 5 17 1 7 0			
10 4 9 3 12 6 6 2				20	8 9 12 7 19 1 6 5			
13 4 7 3 12 4 5 3				10 IX	12 3 12 7 20 6 5 6			
16 1 5 0 11 9 4 7				10	16 6 12 2 22 1 5 2			
18 3 2 7 10 8 3 9				20	19 6 11 3 22 6 4 4			
20 0 0 3 9 3 3 1				IV 0 X	23 8 10 2 22 5 3 6			
+ —					+ —			
21 0 2 2 7 8 1 9				10	25 4 8 6 21 7 2 5			
21 4 4 6 5 5 0 3				20	27 1 6 9 20 1 1 3			
21 1 6 9 3 3 1 2				V 0 XI	28 1 4 8 16 8 0 3			
20 1 8 9 1 0 2 6				10	28 1 2 7 15 1 1 9			
18 8 10 7 1 4 3 1				20	27 4 0 4 12 0 3 4			
16 5 12 2 3 8 5 4				VI 0 VI	23 4 1 8 8 5 4 8			

Primum Signorum — + vel + — respondet sex primis Signis  
Argumentorum: secundum Signum sex posterioribus Signis  
eorundem Argumentorum.

110. ♄ Pegasi 3.

1780

111. ♄ Pegasi 3.

Ascensio Recta  $11^{\circ} 7' 37\frac{1}{2}''$   
 Variatio annua  $+ 44. 87.$   
 Declinatio  $9^{\circ} 41' 23'' 50 B.$   
 Variatio annua  $+ 18. 54.$

Argument.  
 pro  
 Aberratio-  
 ne  
 Longitude  
 Solis.

Ascensio Recta  $11^{\circ} 8' 10' 33''$   
 Variatio annua  $+ 42. 02.$   
 Declinatio  $29^{\circ} 4' 34'' 90 B.$   
 Variatio annua  $+ 18. 62.$

Aberra-  
 tio in  
 Ascens.  
 Rectam.

Aberra-  
 tio in  
 Declina-  
 tion.

Nutatio  
 in  
 Ascens.  
 Rectam.

Nutatio  
 in  
 Declina-  
 tion.

Argument.  
 pro  
 Nutatione  
 Locus &  
 3) Ascend.

Aberra-  
 tio in  
 Ascens.  
 Rectam.

Aberra-  
 tio in  
 Declina-  
 tion.

Nutatio  
 in  
 Ascens.  
 Rectam.

Nutatio  
 in  
 Declina-  
 tion.

					S. G. S.													
+	-	+	-	+		-	+	-	+	-	+							
17	1	9	0	1	4	3	5	0	0	VI	19	2	10	7	4	5	3	4
15	5	9	3	4	0	4	6	10			17	4	12	0	7	0	4	8
13	4	9	4	6	4	6	6	20			15	0	13	0	9	1	6	0
10	9	9	2	8	8	6	9	I	0	VII	12	1	13	6	11	0	6	9
8	0	8	7	11	0	7	5	10			9	0	13	8	12	7	7	5
4	9	8	0	12	8	7	7	20			5	4	13	6	13	8	7	7
1	7	7	0	14	2	7	6	II	0	VIII	1	8	13	0	14	7	7	6
+	-	+	-	+	-	+	-				+	-	+	-	+	-	+	-
1	7	5	7	14	9	7	2	10			1	8	12	0	14	8	7	2
4	9	4	4	15	0	6	8	20			5	4	10	7	14	3	6	8
8	0	2	9	14	6	6	2	III	0	IX	9	0	8	9	13	5	6	2
10	9	1	2	14	6	5	9	10			12	1	6	9	12	8	5	9
		+	-															
13	4	0	3	14	7	5	3	20			15	0	4	7	11	3	5	3
15	5	1	9	13	4	4	7	IV	0	X	17	4	2	4	9	7	4	8
													+	-				
17	1	3	5	11	8	3	8	10			19	2	0	0	7	9	3	9
18	2	4	9	9	8	2	6	20			20	5	2	4	5	5	2	6
18	8	6	2	7	4	1	3	V	0	XI	21	2	4	7	2	9	1	4
						+	-											
18	8	7	3	4	8	0	3	10			20	5	6	9	0	3	0	2
															+	-		
18	2	8	3	2	3	2	0	20			19	2	8	9	2	2	1	9
						+	-											
17	1	9	0	0	4	3	5	VI	0	0	17	4	10	7	4	5	3	4

Primum Signorum — + vel + — respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.



112.  $\circ$  Andromedæ 4.

1780

113.  $\gamma$  Cephei 4.

Ascensio Recta  $11^{\circ}12'57''19''$   
 Variatio annua  $+ 41. 03.$   
 Declinatio  $41^{\circ} 8'49'' 90. B$   
 Variatio annua  $+ 19. 17.$

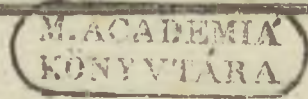
Argument.  
 pro  
 Aberratio-  
 ne  
 Longitudo  
 Solis.

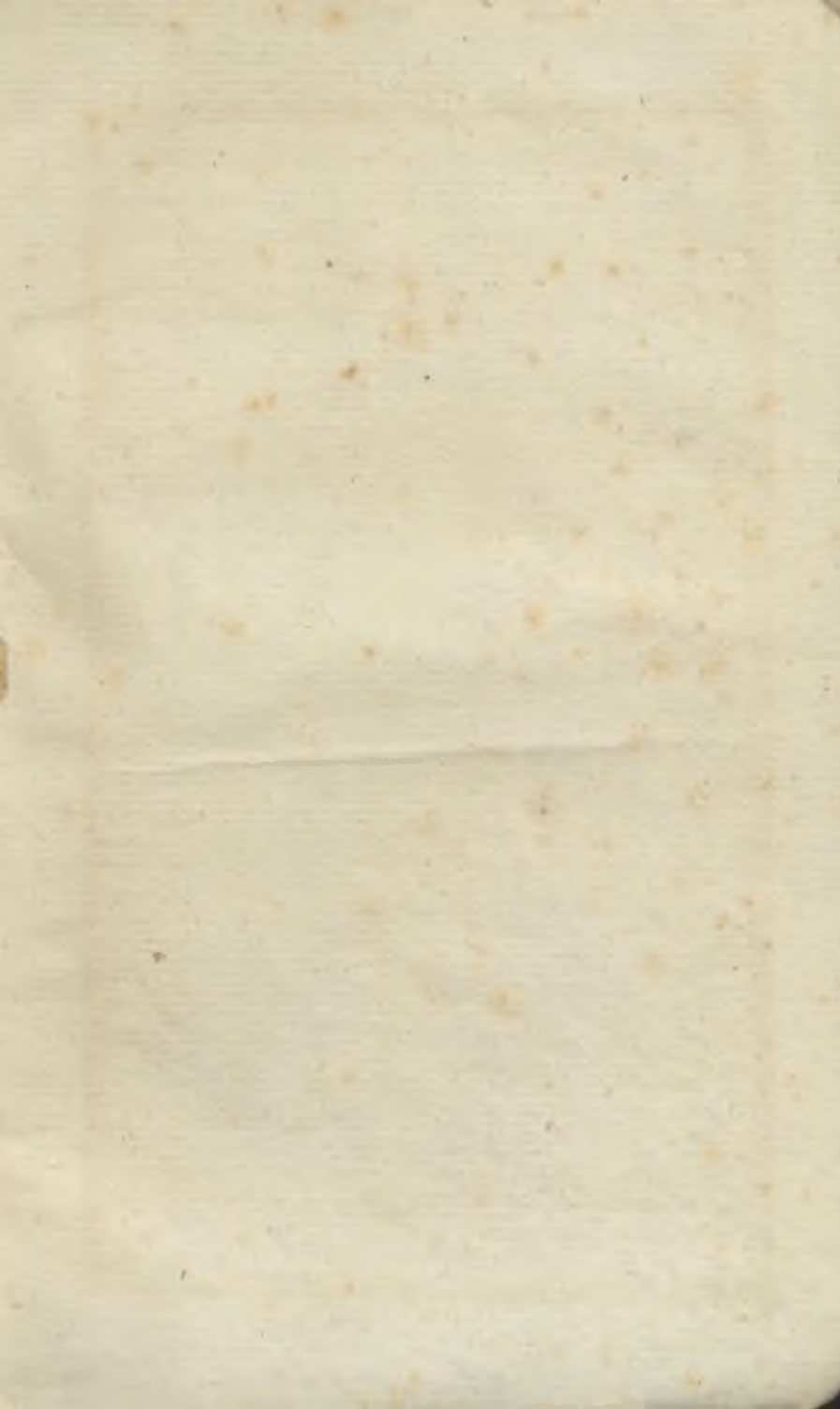
Ascensio Recta  $11^{\circ}22'37'0''$   
 Variatio annua  $+ 35. 52.$   
 Declinatio  $76^{\circ} 24'7'' 10. B$   
 Variatio annua  $+ 19. 89.$

Aberra- tio in Ascens. rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.	Argument. pro Nutatione Locus $\Omega$ & Ascens.	Aberra- tio in Ascens. Rectam.	Aberra- tio in Declina- tion.	Nutatio in Ascens. Rectam.	Nutatio in Declina- tion.
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-		+		-		+		S. G. S.	-		+		-		+	
3	0	9	9	7	4	2	7	$\circ \circ VII$	76	4	0	7	32	2	1	4
21	5	11	9	9	5	4	0	10	73	2	4	1	33	7	3	0
9	0	13	6	11	4	5	4	20	68	0	7	3	34	0	4	4
6	0	14	7	13	1	6	4	$I \circ VII$	60	8	10	3	33	5	5	4
2	6	15	5	14	4	7	1	10	51	6	13	0	32	1	6	3
8	8	15	9	15	3	7	5	20	40	8	15	4	29	6	6	9
4	7	15	7	15	6	7	5	$II \circ VIII$	28	8	17	3	26	3	7	2
0	4	15	1	15	3	7	2	10	16	0	18	6	21	8	7	0
+	-	-	+	-	+	-	+	20	2	8	19	4	16	4	6	9
3	8	14	1	14	3	6	9		+	-	-	+	-	+	-	+
7	9	12	6	12	9	6	7	$III \circ IX$	10	8	19	6	10	8	6	6
11	8	10	7	11	9	6	2	10	24	0	19	2	5	3	6	6
15	4	8	5	9	7	5	8	20				+	-	-	+	-
18	5	6	0	7	9	5	3	$III \circ X$	36	0	18	2	0	5	6	2
21	0	3	3	5	6	4	4	10	46	4	16	6	6	4	6	2
22	8	0	6	2	9	3	4	20	56	8	14	6	12	0	5	4
		+	-						64	0	12	0	17	4	4	6
24	0	2	2	0	3	1	9	$V \circ XI$	71	2	9	2	22	3	3	3
				+	-											
24	15	4	9	2	6	0	4	10	74	2	6	1	26	6	1	9
				-	+											
24	1	7	5	5	1	1	2	20	76	8	2	7	29	8	0	2
											+	-			+	-
23	0	9	9	7	4	2	7	$VI \circ \circ$	76	4	0	7	32	2	1	4

Primum Signorum — + vel + -- respondet sex primis Signis  
 Argumentorum: secundum Signum, sex posterioribus Signis  
 eorundem Argumentorum.





Date	Description	Amount
1870	Jan 1	100.00
1870	Feb 1	200.00
1870	Mar 1	300.00
1870	Apr 1	400.00
1870	May 1	500.00
1870	Jun 1	600.00
1870	Jul 1	700.00
1870	Aug 1	800.00
1870	Sep 1	900.00
1870	Oct 1	1000.00
1870	Nov 1	1100.00
1870	Dec 1	1200.00
1871	Jan 1	1300.00
1871	Feb 1	1400.00
1871	Mar 1	1500.00
1871	Apr 1	1600.00
1871	May 1	1700.00
1871	Jun 1	1800.00
1871	Jul 1	1900.00
1871	Aug 1	2000.00
1871	Sep 1	2100.00
1871	Oct 1	2200.00
1871	Nov 1	2300.00
1871	Dec 1	2400.00
1872	Jan 1	2500.00
1872	Feb 1	2600.00
1872	Mar 1	2700.00
1872	Apr 1	2800.00
1872	May 1	2900.00

