



Informazioni su questo libro

Si tratta della copia digitale di un libro che per generazioni è stato conservata negli scaffali di una biblioteca prima di essere digitalizzato da Google nell'ambito del progetto volto a rendere disponibili online i libri di tutto il mondo.

Ha sopravvissuto abbastanza per non essere più protetto dai diritti di copyright e diventare di pubblico dominio. Un libro di pubblico dominio è un libro che non è mai stato protetto dal copyright o i cui termini legali di copyright sono scaduti. La classificazione di un libro come di pubblico dominio può variare da paese a paese. I libri di pubblico dominio sono l'anello di congiunzione con il passato, rappresentano un patrimonio storico, culturale e di conoscenza spesso difficile da scoprire.

Commenti, note e altre annotazioni a margine presenti nel volume originale compariranno in questo file, come testimonianza del lungo viaggio percorso dal libro, dall'editore originale alla biblioteca, per giungere fino a te.

Linee guide per l'utilizzo

Google è orgoglioso di essere il partner delle biblioteche per digitalizzare i materiali di pubblico dominio e renderli universalmente disponibili. I libri di pubblico dominio appartengono al pubblico e noi ne siamo solamente i custodi. Tuttavia questo lavoro è oneroso, pertanto, per poter continuare ad offrire questo servizio abbiamo preso alcune iniziative per impedire l'utilizzo illecito da parte di soggetti commerciali, compresa l'imposizione di restrizioni sull'invio di query automatizzate.

Inoltre ti chiediamo di:

- + *Non fare un uso commerciale di questi file* Abbiamo concepito Google Ricerca Libri per l'uso da parte dei singoli utenti privati e ti chiediamo di utilizzare questi file per uso personale e non a fini commerciali.
- + *Non inviare query automatizzate* Non inviare a Google query automatizzate di alcun tipo. Se stai effettuando delle ricerche nel campo della traduzione automatica, del riconoscimento ottico dei caratteri (OCR) o in altri campi dove necessiti di utilizzare grandi quantità di testo, ti invitiamo a contattarci. Incoraggiamo l'uso dei materiali di pubblico dominio per questi scopi e potremmo esserti di aiuto.
- + *Conserva la filigrana* La "filigrana" (watermark) di Google che compare in ciascun file è essenziale per informare gli utenti su questo progetto e aiutarli a trovare materiali aggiuntivi tramite Google Ricerca Libri. Non rimuoverla.
- + *Fanne un uso legale* Indipendentemente dall'utilizzo che ne farai, ricordati che è tua responsabilità accertarti di farne un uso legale. Non dare per scontato che, poiché un libro è di pubblico dominio per gli utenti degli Stati Uniti, sia di pubblico dominio anche per gli utenti di altri paesi. I criteri che stabiliscono se un libro è protetto da copyright variano da Paese a Paese e non possiamo offrire indicazioni se un determinato uso del libro è consentito. Non dare per scontato che poiché un libro compare in Google Ricerca Libri ciò significhi che può essere utilizzato in qualsiasi modo e in qualsiasi Paese del mondo. Le sanzioni per le violazioni del copyright possono essere molto severe.

Informazioni su Google Ricerca Libri

La missione di Google è organizzare le informazioni a livello mondiale e renderle universalmente accessibili e fruibili. Google Ricerca Libri aiuta i lettori a scoprire i libri di tutto il mondo e consente ad autori ed editori di raggiungere un pubblico più ampio. Puoi effettuare una ricerca sul Web nell'intero testo di questo libro da <http://books.google.com>



This is a digital copy of a book that was preserved for generations on library shelves before it was carefully scanned by Google as part of a project to make the world's books discoverable online.

It has survived long enough for the copyright to expire and the book to enter the public domain. A public domain book is one that was never subject to copyright or whose legal copyright term has expired. Whether a book is in the public domain may vary country to country. Public domain books are our gateways to the past, representing a wealth of history, culture and knowledge that's often difficult to discover.

Marks, notations and other marginalia present in the original volume will appear in this file - a reminder of this book's long journey from the publisher to a library and finally to you.

Usage guidelines

Google is proud to partner with libraries to digitize public domain materials and make them widely accessible. Public domain books belong to the public and we are merely their custodians. Nevertheless, this work is expensive, so in order to keep providing this resource, we have taken steps to prevent abuse by commercial parties, including placing technical restrictions on automated querying.

We also ask that you:

- + *Make non-commercial use of the files* We designed Google Book Search for use by individuals, and we request that you use these files for personal, non-commercial purposes.
- + *Refrain from automated querying* Do not send automated queries of any sort to Google's system: If you are conducting research on machine translation, optical character recognition or other areas where access to a large amount of text is helpful, please contact us. We encourage the use of public domain materials for these purposes and may be able to help.
- + *Maintain attribution* The Google "watermark" you see on each file is essential for informing people about this project and helping them find additional materials through Google Book Search. Please do not remove it.
- + *Keep it legal* Whatever your use, remember that you are responsible for ensuring that what you are doing is legal. Do not assume that just because we believe a book is in the public domain for users in the United States, that the work is also in the public domain for users in other countries. Whether a book is still in copyright varies from country to country, and we can't offer guidance on whether any specific use of any specific book is allowed. Please do not assume that a book's appearance in Google Book Search means it can be used in any manner anywhere in the world. Copyright infringement liability can be quite severe.

About Google Book Search

Google's mission is to organize the world's information and to make it universally accessible and useful. Google Book Search helps readers discover the world's books while helping authors and publishers reach new audiences. You can search through the full text of this book on the web at <http://books.google.com/>



1256,

(Alm) 1845 e. 11
1785-6



Propria. Ceteri solis.

Don. Caponi. Pinco. Mediol.

EPHEMERIDES

ASTRONOMICAE

Anni 1785.

AD MERIDIANUM MEDIOLANENSEM

SUPPUTATAE

AB ANGELO DE CESARIS



ACCEDIT APPENDIX

Cum Observationibus & Opusculis
&c. &c. &c.



MEDIOLANI. MDCCLXXXIII.

APUD JOSEPH GALEATIUM REGIUM TYPOGRAPHUM.
Superiorum permisso.

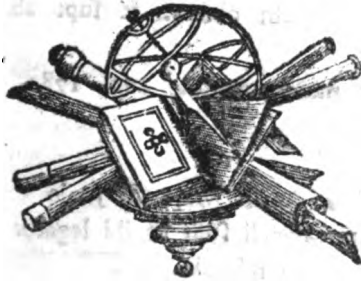


ECLIPSES ANNI 1785.

Nulla hoc anno habetur eclipsis Lunae,
& neutra ex quibus eclipsibus Solaribus
Mediolani visibilis.

9 *Februari.* Eclipsis Solis visibilis in Africae Asiaeque
regionibus.

4 *Augusti.* Eclipsis Solis centralis in regionibus Ame-
ricae septentrionalis, & maris pacifici.



*In Appendice ad Ephemerides habentur,
quae sequuntur.*

Supputatio obliquitatis eclipticae ex observationibus &c.
a FRANCISCO REGGIO.

Oppositio Saturni an. 1783. determinata a BARNABA
ORIANI.

Oppositio Jovis an. 1783. per. a CAJETANO ALLODIO.
De Altitudine media barometri & thermometri opusc.
FRANCISCI REGGIO.

Observationes planetarum an. 1782. & 1783. a FRANCISCO
REGGIO.

Observatio & tabulae novi planetae ex BARNABA ORIANI.

Observationes Satellitum Jovis hab. a BARNABA ORIANI.

Occultationes fixarum observ. & sup. ab ANGELO DE
CESARIS.

Observationes meteorologicae anni 1782. a FRANCISCO
REGGIO.

N. B. Mensibus Aprili Majo & Junio dies hebdomadae
ita singuli retrahendi sunt ut ibi legatur Ven. ubi legi-
tur Sat. & sic de reliquis.



FESTA MOBILIA.

| | | | |
|-----------------------------|-------|-------------|------------|
| Septuagesima | ----- | 23. | Januarii |
| Dies Cinerum | ----- | 9. | Februarii |
| Pascha Resurrectionis | ----- | 27. | Martii |
| Rogationes Ritu Romano | ----- | 2. 3. 4.) | |
| Ascensio Domini | ----- | 5.) | |
| Rogationes Ritu Ambrosiano | ----- | 9. 10. 11.) | Maji |
| Pentecostes | ----- | 15.) | |
| Dominica SS. Trinitatis | ----- | 22.) | |
| Solemnitas Corporis Christi | ----- | 26.) | |
| Adventus Ritu Ambrosiano | ----- | 13. | (Novembris |
| Adventus Ritu Romano | ----- | 27. | (|

CYCLORUM NUMERI.

| | | | | | | |
|-----------------------------|-------|-------|--|------------------------------|-------|---|
| Numerus aureus ^ε | ----- | 19 | \| | Indictio Romana | ----- | 3 |
| Cyclus Solaris | ----- | 2 | \| | Littera Dominicalis | ----- | B |
| Epacta | ----- | XVIII | \| | Littera Martyrologii t parv. | | |

QUATUOR ANNI TEMPORA.

| | | | |
|---------|-------|-------------|------------|
| Vere | ----- | 16. 18. 19. | Februarii |
| Aestate | ----- | 18. 20. 21. | Maji |
| Autumno | ----- | 21. 23. 24. | Septembris |
| Hyeme | ----- | 14. 16. 17. | Decembris |

OBLIQUITAS ECLIPTICAE.

| | |
|-------------|---------------|
| 1. Januarii | 23° 28' 10" 8 |
| 1. Aprilis | 10 , 3 |
| 1. Julii | 9 , 6 |
| 1. Octobris | 8 , 9 |

IANUARIUS 1785.

| Dies | <i>Phaenomena & Observaciones Solis</i> | Dies | <i>Phaenomena & Observaciones Lunae</i> |
|------|---|------|--|
| | Sol | | Luna |
| 5 | in parallelo γ Leporis culm. 10 ^h 29' | 1 | Apogea ad ν Leonis, cum occultatione prope horizontem: Conjunctio vera 11 ^h 35' diff. vera latit. 26' |
| 9 | in parall. ϵ Corvi culm. 16 ^h 57' | 3 | Ultimus Quadrans 7 ^h 36' |
| 10 | in parall. γ Hydr. culm. 17 ^h 38' | 4 | ad \times Scorpii 22 ^h 26' |
| 11 | in nodo descendente Saturni | 6 | ad σ , α & τ Scorpii 7 ^h 18' |
| 13 | in parall. ϵ Corvi culm. 16 ^h 16' | 10 | 10 ^h 44' 13 ^h 45' |
| 16 | in parall. ϵ Leporis culm. 9 ^h 24' | 10 | Novilunium 13 ^h 53' |
| 17 | in parall. δ Leporis culm. 9 ^h 43' | 12 | Perigea |
| 19 | in signo Aquarii 2 ^h 1' | 13 | ad Veneris & Jov. 6 ^h 30' & 17 ^h |
| 24 | in parall. β Ceti culm. 4 ^h 14' | 16 | ad \times Piscium 22 ^h 18' |
| 25 | in parall. β Scorp. culm. 19 ^h 22' | 17 | Primus Quadrans 5 ^h 48' |
| 29 | in parall. α Leporis culm. 8 ^h 34' | 19 | ad ν Tauri 9 ^h 30' |
| | in parall. β Canis culm. 9 ^h 23' | 21 | ad β Tauri 3 ^h 36' |
| | | 22 | ad τ Geminorum 12 ^h 25' |
| | | 24 | Plenilunium 21 ^h 16' |
| | | | ad δ Cancri 20 ^h 54' |
| | | 26 | ad ν Leonis 10 ^h 10' |
| | | | ad α Leonis 15 ^h 22' |
| | | 28 | Apogea ad ν Leonis 18 ^h 34' |
| | | 31 | (cum occultatione) ad α Virginis 4 ^h 40' |
| | | | |
| | | | <i>Planetae in parallelis fixarum</i> |
| | | | Saturnus prope parall. ϵ Corvi, |
| | | | τ & μ Sagitt., β & δ Leporis |
| | | | Jupiter i δ Eridani, 4 δ Eridani, |
| | | | 7 ζ Ophiuci, 10 α Virginis, |
| | | | 12 \times Orionis & ζ Erid., 24 δ |
| | | | Aquarii, 29 β Orionis |
| | | | Mars 1 β Corvi, 5 ν Leporis, |
| | | | 17 α Corvi, 22 ν Navis |
| | | | Venus 1 α Crateris, 4 Syrii, |
| | | | 7 α Librae & 53 Eridani, 12 ν |
| | | | Ceti & λ Virginis, 17 α Virg. |
| | | | & ν Orionis, 30 δ Ophiuci |
| | | | Mercurius 1 β Corvi & ν Sa- |
| | | | gittarii, 8 β Scorpii, 15 Syrii |
| | | | |
| | | | 27 |

IANUARIUS 1785.

| Dies mensis | Dies hebdomadae | Æquatio addenda tempori vero ut habeatur medium | Diffe- rentia | Longitudo Solis | Ascensio recta Solis | Declinatio Solis Australis |
|-------------|-----------------|--|------------------|--------------------|-------------------------|----------------------------------|
| | | M. S. | S. | S. G. M. S. | G. M. S. | G. M. S. |
| 1 | Sat. | + 4. 19. 2 | 28, 3 | 9. 11. 34. 6 | 282. 34. 47 | 22. 57. 53 |
| 2 | Dom. | 4. 47. 3 | 28, 1 | 9. 12. 35. 17 | 283. 40. 56 | 22. 52. 23 |
| 3 | Lun. | 5. 15. 0 | 27, 7 | 9. 13. 36. 28 | 284. 47. 0 | 22. 46. 24 |
| 4 | Mar. | 5. 42. 2 | 27, 2 | 9. 14. 37. 39 | 285. 52. 58 | 22. 39. 57 |
| 5 | Mer. | 6. 8. 9 | 26, 7 | 9. 15. 38. 50 | 286. 58. 49 | 22. 33. 3 |
| 6 | Jov. | 6. 35. 2 | 26, 3 | 9. 16. 40. 1 | 288. 4. 33 | 22. 25. 42 |
| 7 | Ven. | 7. 1. 0 | 25, 8 | 9. 17. 41. 12 | 289. 10. 10 | 22. 17. 55 |
| 8 | Sat. | 7. 26. 4 | 25, 4 | 9. 18. 42. 23 | 290. 15. 40 | 22. 9. 42 |
| 9 | Dom. | 7. 51. 3 | 24, 9 | 9. 19. 43. 34 | 291. 21. 2 | 22. 1. 3 |
| 10 | Lun. | 8. 15. 5 | 24, 2 | 9. 20. 44. 45 | 292. 26. 16 | 21. 51. 58 |
| 11 | Mar. | 8. 39. 2 | 23, 7 | 9. 21. 45. 55 | 293. 31. 21 | 21. 42. 27 |
| 12 | Mer. | 9. 2. 3 | 23, 1 | 9. 22. 47. 5 | 294. 36. 16 | 21. 32. 31 |
| 13 | Jov. | 9. 24. 7 | 22, 4 | 9. 23. 48. 14 | 295. 41. 1 | 21. 22. 10 |
| 14 | Ven. | 9. 46. 4 | 21, 7 | 9. 24. 49. 23 | 296. 45. 36 | 21. 11. 24 |
| 15 | Sat. | 10. 7. 6 | 21, 1 | 9. 25. 50. 31 | 297. 50. 1 | 21. 0. 14 |
| 16 | Dom. | 10. 27. 9 | 20, 4 | 9. 26. 51. 38 | 298. 54. 15 | 20. 48. 40 |
| 17 | Lun. | 10. 47. 5 | 19, 6 | 9. 27. 52. 44 | 299. 58. 18 | 20. 36. 43 |
| 18 | Mar. | 11. 6. 3 | 18, 8 | 9. 28. 53. 48 | 301. 2. 0 | 20. 24. 23 |
| 19 | Mer. | 11. 24. 4 | 18, 1 | 9. 29. 54. 51 | 302. 5. 51 | 20. 11. 39 |
| 20 | Jov. | 11. 41. 7 | 17, 3 | 10. 0. 55. 54 | 303. 9. 20 | 19. 58. 32 |
| 21 | Ven. | 11. 58. 2 | 16, 5 | 10. 1. 56. 56 | 304. 12. 37 | 19. 45. 3 |
| 22 | Sat. | 12. 13. 9 | 15, 7 | 10. 2. 57. 56 | 305. 15. 42 | 19. 31. 13 |
| 23 | Dom. | 12. 28. 9 | 15, 0 | 10. 3. 58. 55 | 306. 18. 35 | 19. 17. 1 |
| 24 | Lun. | 12. 43. 1 | 14, 2 | 10. 4. 59. 53 | 307. 21. 16 | 19. 2. 28 |
| 25 | Mar. | 12. 56. 4 | 13, 3 | 10. 6. 0. 50 | 308. 23. 45 | 18. 47. 34 |
| 26 | Mer. | 13. 8. 8 | 12, 4 | 10. 7. 1. 46 | 309. 26. 1 | 18. 32. 19 |
| 27 | Jov. | 13. 20. 5 | 11, 7 | 10. 8. 2. 41 | 310. 28. 5 | 18. 16. 44 |
| 28 | Ven. | 13. 31. 4 | 10, 9 | 10. 9. 3. 35 | 311. 29. 57 | 18. 0. 50 |
| 29 | Sat. | 13. 41. 4 | 10, 0 | 10. 10. 4. 28 | 312. 31. 36 | 17. 44. 36 |
| 30 | Dom. | 13. 50. 6 | 9, 2 | 10. 11. 5. 20 | 313. 33. 3 | 17. 28. 3 |
| 31 | Lun. | 13. 59. 0 | 8, 4 | 10. 12. 6. 11 | 314. 34. 18 | 17. 11. 12 |
| | | | 7, 5 | | | |

| Dies mensis | Dies hebdomadae | Distantia señionis a Sole | Diffe- rentia | Ini- tium Crepu- sculi | Ortus Centri Solis | Occa- sus Centri Solis | Finis Crepu- sculi | Hora Meri- dies | |
|-------------|-----------------|---------------------------------|------------------|---------------------------------|--------------------------|---------------------------------|--------------------------|-----------------------|-------|
| | | | | | | | | H. M. S. | M. S. |
| 1 | Sat. | 5. 9. 40,9 | 4. 24, 6 | 5. 50 | 7. 39 | 4. 21 | 6. 10 | 19. | 9 |
| 2 | Dom | 5. 5. 16,3 | 4. 24, 3 | 5. 49 | 7. 38 | 4. 22 | 6. 11 | 19. | 8 |
| 3 | Lun. | 5. 0. 52,0 | 4. 23, 9 | 5. 49 | 7. 38 | 4. 22 | 6. 11 | 19. | 8 |
| 4 | Mar. | 4. 56. 28,1 | 4. 23, 4 | 5. 48 | 7. 37 | 4. 23 | 6. 12 | 19. | 7 |
| 5 | Mer. | 4. 52. 4,7 | 4. 22, 9 | 5. 48 | 7. 37 | 4. 23 | 6. 12 | 19. | 7 |
| 6 | Jov. | 4. 47. 41,8 | 4. 22, 5 | 5. 47 | 7. 36 | 4. 24 | 6. 13 | 19. | 6 |
| 7 | Ven. | 4. 43. 19,3 | 4. 22, 0 | 5. 47 | 7. 35 | 4. 25 | 6. 13 | 19. | 5 |
| 8 | Sat. | 4. 38. 57,3 | 4. 21, 5 | 5. 45 | 7. 34 | 4. 26 | 6. 14 | 19. | 4 |
| 9 | Dom | 4. 34. 35,8 | 4. 20, 9 | 5. 45 | 7. 34 | 4. 26 | 6. 15 | 19. | 4 |
| 10 | Lun. | 4. 30. 14,9 | 4. 20, 3 | 5. 45 | 7. 33 | 4. 27 | 6. 15 | 19. | 3 |
| 11 | Mar. | 4. 25. 54,6 | 4. 19, 7 | 5. 44 | 7. 32 | 4. 28 | 6. 16 | 19. | 2 |
| 12 | Mer. | 4. 21. 34,9 | 4. 19, 0 | 5. 43 | 7. 32 | 4. 29 | 6. 17 | 19. | 2 |
| 13 | Jov. | 4. 17. 15,9 | 4. 18, 3 | 5. 43 | 7. 31 | 4. 29 | 6. 17 | 19. | 1 |
| 14 | Ven. | 4. 12. 57,6 | 4. 17, 6 | 5. 42 | 7. 30 | 4. 30 | 6. 18 | 19. | 0 |
| 15 | Sat. | 4. 8. 40,0 | 4. 16, 9 | 5. 41 | 7. 29 | 4. 31 | 6. 19 | 18. | 59 |
| 16 | Dom | 4. 4. 23,1 | 4. 16, 2 | 5. 41 | 7. 28 | 4. 32 | 6. 19 | 18. | 58 |
| 17 | Lun. | 4. 0. 6,9 | 4. 15, 5 | 5. 40 | 7. 26 | 4. 34 | 6. 20 | 18. | 56 |
| 18 | Mar. | 3. 55. 51,3 | 4. 14, 8 | 5. 39 | 7. 25 | 4. 35 | 6. 21 | 18. | 55 |
| 19 | Mer. | 3. 51. 36,6 | 4. 14, 0 | 5. 39 | 7. 24 | 4. 36 | 6. 21 | 18. | 54 |
| 20 | Jov. | 3. 47. 22,6 | 4. 13, 2 | 5. 38 | 7. 23 | 4. 37 | 6. 22 | 18. | 53 |
| 21 | Ven. | 3. 43. 9,4 | 4. 12, 3 | 5. 37 | 7. 21 | 4. 39 | 6. 23 | 18. | 51 |
| 22 | Sat. | 3. 38. 57,1 | 4. 11, 5 | 5. 36 | 7. 20 | 4. 40 | 6. 24 | 18. | 50 |
| 23 | Dom | 3. 34. 45,6 | 4. 10, 7 | 5. 35 | 7. 19 | 4. 41 | 6. 25 | 18. | 49 |
| 24 | Lun. | 3. 30. 34,9 | 4. 9, 9 | 5. 34 | 7. 18 | 4. 42 | 6. 26 | 18. | 48 |
| 25 | Mar. | 3. 26. 25,0 | 4. 9, 1 | 5. 33 | 7. 17 | 4. 43 | 6. 27 | 18. | 47 |
| 26 | Mer. | 3. 22. 15,9 | 4. 8, 3 | 5. 32 | 7. 16 | 4. 44 | 6. 28 | 18. | 46 |
| 27 | Jov. | 3. 18. 7,6 | 4. 7, 4 | 5. 31 | 7. 15 | 4. 45 | 6. 29 | 18. | 45 |
| 28 | Ven. | 3. 14. 0,2 | 4. 6, 6 | 5. 30 | 7. 14 | 4. 46 | 6. 30 | 18. | 44 |
| 29 | Sat. | 3. 9. 53,6 | 4. 5, 8 | 5. 29 | 7. 13 | 4. 47 | 6. 31 | 18. | 43 |
| 30 | Dom | 3. 5. 47,8 | 4. 5, 0 | 5. 28 | 7. 12 | 4. 48 | 6. 32 | 18. | 42 |
| 31 | Lun. | 3. 1. 49,8 | 4. 4, 2 | 5. 27 | 7. 11 | 4. 49 | 6. 33 | 18. | 41 |

| Dies mensis | Dies hebdomadae | Longitudo Lunae Meridie | Longitudo Lunae media nocte | Latitudo Lunae Meridie | Latitudo Lunae med. noct. | Paral- laxis Lunae Meri- die | Paral- laxis Lunae media noctē |
|-------------|-----------------|-------------------------------|-----------------------------------|------------------------------|---------------------------------|--|--|
| | | S. G. M. S. | S. G. M. S. | G. M. S. | G. M. S. | M. S. | M. S. |
| 1 | Sat. | 5. 16. 20. 25 | 5. 22. 14. 33 | 2. 9. 56 A | 2. 38. 28 A | 54. 12 | 54. 17 |
| 2 | Dom | 5. 28. 9. 49 | 6. 4. 6. 51 | 3. 5. 25 | 3. 30. 30 | 54. 22 | 54. 31 |
| 3 | Lun. | 6. 10. 6. 26 | 6. 16. 9. 10 | 3. 53. 28 | 4. 14. 2 | 54. 43 | 54. 57 |
| 4 | Mar. | 6. 22. 15. 31 | 6. 28. 26. 4 | 4. 31. 56 | 4. 46. 53 | 55. 13 | 55. 32 |
| 5 | Mer | 7. 4. 41. 34 | 7. 11. 2. 35 | 4. 58. 39 | 5. 6. 56 | 55. 54 | 56. 17 |
| 6 | Jov. | 7. 17. 29. 29 | 7. 24. 2. 37 | 5. 11. 30 | 5. 12. 3 | 56. 41 | 57. 7 |
| 7 | Ven. | 8. 0. 42. 14 | 8. 7. 28. 23 | 5. 8. 30 | 5. 0. 36 | 57. 31 | 58. 0 |
| 8 | Sat. | 8. 14. 21. 7 | 8. 21. 20. 13 | 4. 48. 16 | 4. 31. 26 | 58. 26 | 58. 52 |
| 9 | Dom | 8. 28. 25. 17 | 9. 5. 35. 51 | 4. 10. 14 | 3. 44. 52 | 59. 18 | 59. 41 |
| 10 | Lun. | 9. 12. 51. 12 | 9. 20. 10. 38 | 3. 15. 33 | 2. 42. 46 | 60. 0 | 60. 16 |
| 11 | Mar. | 9. 27. 33. 12 | 10. 4. 57. 58 | 2. 6. 56 | 1. 28. 47 | 60. 28 | 60. 37 |
| 12 | Mer. | 10. 12. 23. 39 | 10. 19. 49. 35 | 0. 48. 56 | 0. 8. 14 | 60. 41 | 60. 41 |
| 13 | Jov. | 10. 27. 14. 45 | 11. 4. 38. 16 | 0. 32. 32 B | 1. 12. 29 P | 60. 37 | 60. 29 |
| 14 | Ven. | 11. 11. 59. 16 | 11. 19. 17. 13 | 1. 51. 15 | 2. 27. 59 | 60. 19 | 60. 6 |
| 15 | Sat. | 11. 26. 31. 41 | 0. 3. 42. 10 | 3. 1. 55 | 3. 32. 44 | 59. 51 | 59. 34 |
| 16 | Dom | 0. 10. 48. 7 | 0. 17. 50. 0 | 3. 59. 50 | 4. 23. 0 | 59. 16 | 58. 56 |
| 17 | Lun. | 0. 24. 47. 18 | 1. 1. 39. 53 | 4. 42. 6 | 4. 57. 2 | 58. 34 | 58. 13 |
| 18 | Mar. | 1. 8. 28. 9 | 1. 15. 12. 1 | 5. 7. 32 | 5. 13. 39 | 57. 53 | 57. 33 |
| 19 | Mer. | 1. 21. 51. 41 | 1. 28. 27. 11 | 5. 15. 27 | 5. 13. 3 | 57. 14 | 56. 55 |
| 20 | Jov. | 2. 4. 58. 41 | 2. 11. 26. 24 | 5. 6. 37 | 4. 56. 22 | 56. 37 | 56. 20 |
| 21 | Ven. | 2. 17. 50. 37 | 2. 24. 11. 27 | 4. 42. 25 | 4. 25. 10 | 56. 4 | 55. 49 |
| 22 | Sat. | 3. 0. 29. 1 | 3. 6. 43. 29 | 4. 4. 49 | 3. 41. 44 | 55. 35 | 55. 22 |
| 23 | Dom | 3. 12. 55. 5 | 3. 19. 3. 56 | 3. 16. 11 | 2. 48. 34 | 55. 9 | 54. 57 |
| 24 | Lun. | 3. 25. 10. 20 | 4. 1. 14. 26 | 2. 19. 3 | 1. 48. 3 | 54. 47 | 54. 38 |
| 25 | Mar. | 4. 7. 16. 13 | 4. 13. 16. 0 | 1. 16. 3 | 0. 43. 25 | 54. 29 | 54. 21 |
| 26 | Mer. | 4. 19. 14. 9 | 4. 25. 10. 50 | 0. 10. 26 | 0. 22. 31 A | 54. 15 | 54. 10 |
| 27 | Jov. | 5. 1. 6. 24 | 5. 7. 1. 4 | 0. 55. 8 A | 1. 27. 5 | 54. 6 | 54. 3 |
| 28 | Ven. | 5. 12. 54. 58 | 5. 18. 48. 38 | 1. 58. 6 | 2. 27. 49 | 54. 2 | 54. 3 |
| 29 | Sat. | 5. 24. 42. 41 | 6. 0. 37. 28 | 2. 55. 59 | 3. 22. 20 | 54. 6 | 54. 11 |
| 30 | Dom | 6. 6. 33. 7 | 6. 12. 30. 15 | 3. 46. 34 | 4. 8. 29 | 54. 18 | 54. 28 |
| 31 | Lun. | 6. 18. 29. 41 | 6. 24. 31. 52 | 4. 27. 50 | 4. 44. 22 | 54. 40 | 54. 54 |

JANUARIUS 1785.

| Die mensis | Dies hebdomadae | Diameter bovis. Lunae Meridie | | Diameter bovis. Lunae media nocte | | Declinatio Lunae in Meridiano | | Ortus Lunae | | Transitus Lunae per Meridianum | | Occasus Lunae | |
|------------|-----------------|-------------------------------|----|-----------------------------------|----|-------------------------------|------|-------------|------|--------------------------------|------|---------------|-----|
| | | M. | S. | M. | S. | G. | M. | H. | M. | H. | M. | H. | M. |
| 1 | Dec. | 29. | 36 | 29. | 38 | 5. | 11 B | 10. | 31 V | 4. | 3M | 10. | 25M |
| 2 | Dom. | 29. | 41 | 29. | 46 | 0. | 23 A | 11. | 34 | 4. | 42 | 10. | 41 |
| 3 | Lun. | 29. | 52 | 30. | 0 | 6. | 3 | * | * | 5. | 21 | 10. | 58 |
| 4 | Mar. | 30. | 9 | 30. | 19 | 11. | 36 | 0. | 38M | 6. | 2 | 11. | 16 |
| 5 | Mer. | 30. | 31 | 30. | 44 | 16. | 45 | 1. | 44 | 6 | 45 | 11. | 36 |
| 6 | Jov. | 30. | 57 | 31. | 11 | 21. | 29 | 2. | 56 | 7. | 53 | 0. | 2 V |
| 7 | Ven. | 31. | 2 | 31. | 40 | 24. | 54 | 4. | 9 | 8. | 26 | 0. | 37 |
| 8 | Sat. | 31. | 54 | 32. | 9 | 27. | 9 | 5. | 19 | 9. | 22 | 1. | 23 |
| 9 | Dom. | 32. | 23 | 32. | 35 | 27. | 29 | 6. | 25 | 10. | 23 | 8. | 22 |
| 10 | Lun. | 32. | 46 | 32. | 55 | 26. | 6 | 7. | 21 | 11. | 27 | 3. | 38 |
| 11 | Mar. | 33. | 2 | 33. | 6 | 22. | 33 | 8. | 4 | 0. | 28 V | 5. | 0 |
| 12 | Mer. | 33. | 8 | 33. | 8 | 17. | 31 | 8. | 39 | 1. | 26 | 6. | 23 |
| 13 | Jov. | 33. | 6 | 33. | 2 | 11. | 16 | 9. | 5 | 2. | 20 | 7. | 46 |
| 14 | Ven. | 32. | 56 | 32. | 49 | 4. | 30 A | 9. | 27 | 3. | 10 | 9. | 6 |
| 15 | Sat. | 32. | 41 | 32. | 32 | 2. | 32 B | 9. | 45 | 3. | 58 | 10. | 24 |
| 16 | Dom. | 32. | 22 | 32. | 11 | 9. | 18 | 10 | 6 | 4. | 47 | 11. | 42 |
| 17 | Lun. | 31. | 59 | 31. | 48 | 15. | 21 | 10. | 28 | 5. | 36 | * | * |
| 18 | Mar. | 31. | 37 | 31. | 26 | 20. | 24 | 10. | 53 | 6. | 27 | 0. | 58M |
| 19 | Mer. | 31. | 15 | 31. | 5 | 24. | 19 | 11. | 25 | 7. | 20 | 2. | 15 |
| 20 | Jov. | 30. | 55 | 30. | 46 | 26. | 48 | 11. | 59 | 8. | 24 | 3. | 30 |
| 21 | Ven. | 30. | 37 | 30. | 29 | 27. | 42 | 0. | 45 V | 9. | 9 | 4. | 32 |
| 22 | Sat. | 30. | 21 | 30. | 14 | 27. | 4 | 1. | 45 | 10. | 3 | 5. | 38 |
| 23 | Dom. | 30. | 7 | 30. | 1 | 25. | 0 | 2. | 48 | 10. | 55 | 6. | 21 |
| 24 | Lun. | 29. | 55 | 29. | 50 | 21. | 38+ | 3. | 54 | 11. | 44 | 7. | 0 |
| 25 | Mar. | 29. | 45 | 29. | 41 | * | * | 4. | 59 | + | + | 7. | 27 |
| 26 | Mer. | 29. | 37 | 29. | 34 | 17. | 25 | 6. | 3 | 0. | 29M | 7. | 47 |
| 27 | Jov. | 29. | 32 | 29. | 31 | 12. | 33 | 7. | 9 | 1. | 11 | 8. | 6 |
| 28 | Ven. | 29. | 30 | 29. | 31 | 7. | 11 | 8. | 13 | 1. | 52 | 8. | 23 |
| 29 | Sat. | 29. | 32 | 29. | 34 | 1. | 35 B | 9. | 16 | 2. | 32 | 8. | 39 |
| 30 | Dom. | 29. | 38 | 29. | 44 | 4. | 4 A | 10. | 20 | 3. | 10 | 8. | 53 |
| 31 | Lun. | 29. | 51 | 29. | 59 | 9. | 38 | 11. | 25 | 3. | 50 | 9. | 10 |

JANUARIUS 1785.

| Dies mensis | Longitudo Planeta- rum | Latitudo Plane- tarum | Declina- tio Pla- netarum | Ortus Plane- tarum | Transi- tus Pla- netarum per Me- ridianum | Occafus Plane- tarum |
|-------------|------------------------------|-----------------------------|---------------------------------|--------------------------|---|----------------------------|
| | S. G. M. | G. M. | G. M. | H. M. | H. M. | H. M. |

SATURNUS.

| | | | | | | |
|----|-----------|---------|----------|---------|---------|---------|
| 1 | 9. 24. 44 | 0. 11 A | 21. 22 A | 8. 27 M | 0. 56 V | 5. 25 V |
| 7 | 9. 25. 25 | 0 11 | 21. 15 | 8. 3 | 0. 33 | 5. 3 |
| 13 | 9. 26. 7 | 0. 12 | 21. 8 | 7. 39 | 0. 10 | 4. 41 |
| 19 | 9. 26. 50 | 0. 12 | 21. 0 | 7. 13 | 11. 45 | 4. 27 |
| 25 | 9. 27. 33 | 0. 13 | 20. 52 | 6. 48 | 11. 21 | 3. 54 |

JUPITER.

| | | | | | | |
|----|------------|--------|----------|----------|---------|--------|
| 1 | 11. 5. 27 | 1. 5 A | 10. 31 A | 10. 20 M | 3. 40 V | 9. 0 V |
| 7 | 11. 6. 36 | 1. 5 | 10. 6 | 9. 56 | 3. 18 | 8. 40 |
| 13 | 11. 7. 49 | 1. 4 | 9. 39 | 9. 33 | 2. 57 | 8. 21 |
| 19 | 11. 9. 5 | 1. 4 | 9. 10 | 9. 10 | 2. 36 | 8. 2 |
| 25 | 11. 10. 23 | 1. 3 | 8. 40 | 8. 48 | 2. 15 | 7. 42 |

MARS.

| | | | | | | |
|----|-----------|--------|----------|---------|---------|---------|
| 1 | 8. 10. 45 | 0. 5 A | 22. 11 A | 5. 20 M | 9. 46 M | 2. 12 V |
| 7 | 8. 15. 2 | 0 9 | 22. 47 | 5. 16 | 9. 38 | 2. 0 |
| 13 | 8. 19. 20 | 0 13 | 23. 16 | 5. 12 | 9. 31 | 1. 50 |
| 19 | 8. 23. 39 | 0. 17 | 23. 36 | 5. 7 | 9. 24 | 1. 41 |
| 25 | 8. 27. 58 | 0. 22 | 23. 49 | 5. 2 | 9. 18 | 1. 34 |

VENUS.

| | | | | | | |
|----|------------|---------|----------|---------|---------|---------|
| 1 | 10. 17. 13 | 1. 48 A | 17. 24 A | 9. 42 M | 2. 31 V | 7. 20 V |
| 7 | 10. 24. 31 | 1. 41 | 14. 57 | 9. 33 | 2. 33 | 7. 33 |
| 13 | 11. 1. 48 | 1. 31 | 12. 17 | 9. 22 | 2. 34 | 7. 46 |
| 19 | 11. 9. 2 | 1. 18 | 9. 23 | 9. 12 | 2. 36 | 8. 0 |
| 25 | 11. 16. 12 | 1. 2 | 6. 24 | 9. 0 | 2. 37 | 8. 14 |

MERCURIUS.

| | | | | | | |
|----|------------|---------|----------|---------|----------|---------|
| 1 | 9. 28. 36 | 1. 46 A | 28. 12 A | 8. 48 M | 1. 14 V | 5. 40 V |
| 7 | 10. 4. 36 | 0. 55 | 19. 32 | 8. 41 | 1. 20 | 5. 59 |
| 13 | 10. 11. 27 | 0. 31 B | 16. 52 | 8. 20 | 1. 12 | 6. 4 |
| 19 | 10. 10. 24 | 2. 19 | 15. 26 | 7. 50 | 0. 48 | 5. 46 |
| 25 | 10. 2. 59 | 3. 12 | 15. 53 | 6. 42 | 11. 38 M | 4. 34 |

ECLIPSES SATELLITUM JOVIS.

| Dies mensis | I. Satelles. | | | Dies | II. Satelles. | | | Dies | III. Satellés. | | |
|----------------|--------------|-----|----|------|---------------|-----|----|------|----------------|-----|------|
| | Emerfones | | | | Emerfones | | | | Inerf. Emerf. | | |
| | H. | M. | S. | | H. | M. | S. | | H. | M. | S. |
| 2 | 0 | 1. | 30 | I | 4 | 4. | 48 | I | 3. | 32. | 24 I |
| 3 | 18. | 29 | 45 | 4 | 17. | 21. | 0 | 1 | 6. | 39. | 20 E |
| 5 | 12. | 57. | 54 | 8 | 7. | 37. | 12 | 8 | 7. | 31. | 54 I |
| 7 | 7. | 26. | 0 | 11 | 19. | 53. | 36 | 8 | 10. | 38. | 48 E |
| 9 | 1. | 54. | 18 | 15 | 9. | 10. | 6 | 15 | 11. | 31. | 48 I |
| 10 | 20. | 22. | 30 | 18 | 22. | 26. | 48 | 15 | 14. | 36. | 42 E |
| 12 | 14. | 50. | 42 | 22 | 11. | 43. | 30 | 22 | 15. | 32. | 18 I |
| 14 | 9. | 19. | 0 | 26 | 1. | 0. | 30 | 22 | 18. | 26. | 6 E |
| 16 | 3. | 47. | 18 | 29 | 14. | 17. | 36 | 29 | 19. | 33. | 18 I |
| 17 | 22. | 15. | 42 | | | | | 39 | 22. | 36. | 6 E |
| 19 | 16. | 44. | 0 | | | | | | | | |
| 21 | 11. | 12. | 50 | | | | | | | | |
| 23 | 5. | 40. | 48 | | | | | | | | |
| 25 | 0. | 9. | 24 | | | | | Dies | | | |
| 26 | 18. | 37. | 54 | | | | | | IV. Satelles. | | |
| 28 | 13. | 6. | 30 | | | | | | Inerf. Emerf. | | |
| 30 | 7. | 35. | 12 | | | | | I | 0. | 56. | 0 E |
| | | | | | | | | 19 | 15. | 7. | 42 I |
| | | | | | | | | 19 | 19. | 3. | 18 E |

| Dies | Diameter Solis | Mora transitus Solis per Meridian. | Murus horarius Solis | Logarithmus distantie Solis a terra posita mediis 100000 | Longitudo Nodi Lunae |
|------|-------------------|---|----------------------------|--|-------------------------|
| | M. S. | M. S. | M. S. | | S. G. M. |
| 1 | 32. 35. 8 | 2. 21. 6 | 2. 32. 9 | 4. 992646 | 10. 23. 17 |
| 4 | 32. 35. 7 | 2. 21. 3 | 2. 32. 9 | 4. 992673 | 10. 23. 28 |
| 7 | 32. 35. 5 | 2. 21. 0 | 2. 32. 9 | 4. 992718 | 10. 23. 38 |
| 10 | 32. 35. 2 | 2. 20. 6 | 2. 32. 8 | 4. 992784 | 10. 23. 49 |
| 13 | 32. 34. 7 | 2. 20. 0 | 2. 32. 8 | 4. 992868 | 10. 23. 59 |
| 16 | 32. 34. 2 | 2. 19. 4 | 2. 32. 7 | 4. 992975 | 10. 24. 30 |
| 19 | 32. 33. 7 | 2. 18. 8 | 2. 32. 7 | 4. 993102 | 10. 24. 20 |
| 22 | 32. 33. 1 | 2. 18. 2 | 2. 32. 6 | 4. 993247 | 10. 24. 21 |
| 25 | 32. 32. 4 | 2. 17. 5 | 2. 32. 5 | 4. 993410 | 10. 24. 21 |
| 28 | 32. 31. 5 | 2. 16. 9 | 2. 32. 3 | 4. 993590 | 10. 24. 32 |

POSITIONES SATELLITUM JOVIS

Oriens

6^h Vespere

Occidens

| | Oriens | 6 ^h Vespere | Occidens |
|----|--------|------------------------|------------------------|
| 1 | | 4. 1♂ ² ○ | .1 |
| 2 | 4. | .2 1. | ○ |
| 3 | 4. | .1 | ○ .1. .2 |
| 4 | 4. | .1. 1 | ○ .2. |
| 5 | .4 | .2. | ○ .1. .1 |
| 6 | .4 | .1. 2 | ○ .2. |
| 7 | .4 | | ○ .1♂ ² .10 |
| 8 | 10 | .4 2. | ○ .2 |
| 9 | | .2 . | ○ .4 |
| 10 | | .1 | ○ 1♂ ² .4 |
| 11 | | .3. 1 | ○ .2. .4 |
| 12 | | .2. | ○ .1. .1 .4 |
| 13 | | 1♂ ² ○ | .1 .4 |
| 14 | 10 | | ○ .2. .4 |
| 15 | 20 | | ○ 1♂ ² .4 |
| 16 | | .1. .2 1. | ○ .4 |
| 17 | | .1 | ○ .4. 1♂ ² |
| 18 | | .4. 1 1. | ○ .2. |
| 19 | 4. | .2. | ○ 1♂ ² |
| 20 | 4. | 1♂ ² ○ | .2 |
| 21 | 4. | | ○ .1. .2. .10 |
| 22 | .4 | | ○ 1♂ ² .10 |
| 23 | .4 | 1♂ ² 1. | ○ .10 |
| 24 | | .1. 4 | ○ .1 .20 |
| 25 | | .1 1. .4 | ○ .2. |
| 26 | | .1. | ○ .1. 4 |
| 27 | | 1♂ ² ○ | .2 .4 |
| 28 | | | ○ .1. .2 1. .4 |
| 29 | | .1 | ○ .2. .1 .4 |
| 30 | 10 | 1♂ ² ○ | .4 |
| 31 | | .1. | ○ .2. 1 .4 |
| | | ○ | |

| <i>Dies</i> | <i>Phaenomena & Observations Solis</i> | <i>Dies</i> | <i>Phaenomena & Observations Lunae</i> |
|-------------|---|-------------|---|
| | Sol | | Luna |
| 2 | in parallelo Sirii culm. 9 ^h 28' | 2 | Ultimus Quadrans 2 ^h 21' |
| 3 | in parall. γ Corvi culm. 14 ^h 52' | 3 | ad A & ♄ Scorpii 5 ^h 18' & 8 ^h 0' |
| 5 | in parall. ♃ Ophiuci culm. 19 ^h 36' | 6 | ad ♁ Sagittarii 1 ^h 30' |
| 6 | in parall. γ Canis culm. 9 ^h 30' | 9 | Novilunium 1 ^h 1' |
| | item δ Corvi culm. 14 ^h 54' | 10 | Perigea |
| 7 | in parall. α Librae culm. 17 ^h 9' | 14 | ad ♄ Arietis 18 ^h 30' |
| 8 | in parall. 53 Erid. culm. 6 ^h 57' | 15 | Primus Quadrans 17 ^h 0' |
| 9 | Eclipsis Solis. <i>Vide supra.</i> | | ad ♄ Arietis 6 ^h 0' |
| 10 | in parall. γ Eridani culm. 6 ^h 9' | 16 | ad ♁ Tauri 5 ^h 54' |
| | item γ Librae culm. 17 ^h 42' | 22 | ad ♃ Leonis 16 ^h 6' diff. lat. 8' |
| 14 | in parallelo ♃ Ceti culm. 4 ^h 35' | 23 | Plenitunium 16 ^h 21'. Apogea |
| 15 | in parall. α Virginis culm. 16 ^h 5' | 24 | ad ♄ Leonis 12 ^h 9' |
| 17 | in signo Piscium 16 ^h 47' | 26 | ad ♃ Virginis 5 ^h 48' |
| | in parallelo ♃ Ceti culm. 2 ^h 47' | 27 | ad α Virginis 5 ^h 0' |
| 20 | in parall. δ Eridani culm. 5 ^h 14' | | |
| 22 | in parall. α Virgin. culm. 14 ^h 45' | | |
| | item α Orionis culm. 7 ^h 11' | | |
| 23 | in parall. ζ Eridani culm. 4 ^h 36' | | |
| 24 | in parall. α Virg. culm. 15 ^h 26' | | |
| 26 | in parall. β Librae culm. 16 ^h 22' | | |
| | item Rigel culm. 6 ^h 23' | | |
| 28 | in parall. α Hydrae culm. 10 ^h 27' | | |
| | | | |
| | Phaenomena & Observations Planetarum | | Planetae in parallelis fixarum |
| 1 | Mars ad ♁ Sagitt. diff. lat. 1.° 34' | | Saturnus prope parallelos β & δ Leporis, b Canis, ♁ Capri, 54 Eridani |
| 10 | Mars ad 1.2. ♄ Sagittarii diff. lat. 42' & 45' | | Jupiter 1 prope parallelos Rigel, 6 α Hydrae, 13 ♁ Aquarii, 19 β Aquarii, 24 ♃ Orionis |
| | Jupiter ad ♁ Aquarii diff. lat. 2' | | Mars ♁ Navis, α Corvi, γ Lepor. |
| 12 | Saturnus ad ♁ Capri diff. lat. 42' | | Venus 1 ♃ Serpentis, 4 α Aquarii, 7 δ Orionis & γ Virginis, 13 β Virginis & α Ceti, 17 Procyon, 20 ♃ Serpent. & α Orionis, 23 α Aquilae & β Canis, 26 γ Aquilae |
| 16 | Mercurius ad ♁ Capri diff. lat. 2' | | Mercurius 1 γ Capri & β Canis, 4 α Leporis, 8 α Librae & ♄ Scorpii, 13 & 19 β & ♁ Ceti, 26 α Leporis |
| | Mercurius in elongatione max. matutina | | |
| 18 | Venus ad ♁ Piscium diff. lat. 32' | | |
| 19 | Mercurius ad ♁ Capri diff. lat. 21' | | |
| 20 | Venus ad ζ Piscium diff. lat. 52' | | |
| 27 | Venus ad ♄ Piscium diff. lat. 32' | | |

| Dies mensis | Dies hebdomadae | Aequatio addenda tempori vero ut habeatur medium | | Differrentia | Longitudo Solis | | | Ascensio recta Solis | | | Declinatio Solis Australis | | |
|-------------|-----------------|--|-------|--------------|-----------------|-----|--------|----------------------|-----|----|----------------------------|-----|----|
| | | M. | S. | | S. | G. | M. | S. | G. | M. | S. | G. | M. | S. |
| 1 | Mar. | 14. | 6, 5 | 7, 5 | 10. | 13. | 7. 1 | 315. | 35. | 21 | 16. | 54. | 3 |
| 2 | Mer. | 14. | 13, 3 | 6, 8 | 10. | 14. | 7. 50 | 316. | 36. | 12 | 16. | 36. | 36 |
| 3 | Jov. | 14. | 19, 4 | 6, 1 | 10. | 15. | 8. 39 | 317. | 36. | 51 | 16. | 18. | 51 |
| 4 | Ven. | 14. | 24, 7 | 5, 3 | 10. | 16. | 9. 26 | 318. | 37. | 18 | 16. | 0. | 49 |
| 5 | Sat. | 14. | 29, 1 | 4, 4 | 10. | 17. | 10. 12 | 319. | 37. | 33 | 15. | 42. | 31 |
| | | | | 3, 6 | | | | | | | | | |
| 6 | Dom. | 14. | 32, 7 | | 10. | 18. | 10. 57 | 320. | 37. | 36 | 15. | 23. | 57 |
| 7 | Lun. | 14. | 35, 6 | 2, 9 | 10. | 19. | 11. 42 | 321. | 37. | 27 | 15. | 5. | 7 |
| 8 | Mar. | 14. | 37, 7 | 2, 1 | 10. | 20. | 12. 25 | 322. | 37. | 6 | 14. | 46. | 2 |
| 9 | Mer. | 14. | 38, 9 | 1, 2 | 10. | 21. | 13. 7 | 323. | 36. | 33 | 14. | 26. | 42 |
| 10 | Jov. | 14. | 39, 3 | 0, 4 | 10. | 22. | 13. 47 | 324. | 35. | 48 | 14. | 7. | 8 |
| | | | | 0, 3 | | | | | | | | | |
| 11 | Ven. | 14. | 39, 0 | | 10. | 23. | 14. 26 | 325. | 34. | 52 | 13. | 47. | 20 |
| 12 | Sat. | 14. | 38, 0 | 1, 0 | 10. | 24. | 15. 3 | 326. | 33. | 45 | 13. | 27. | 18 |
| 13 | Dom. | 14. | 36, 2 | 1, 8 | 10. | 25. | 15. 39 | 327. | 32. | 26 | 13. | 7. | 3 |
| 14 | Lun. | 14. | 33, 6 | 2, 6 | 10. | 26. | 16. 13 | 328. | 30. | 55 | 12. | 46. | 35 |
| 15 | Mar. | 14. | 30, 3 | 3, 3 | 10. | 27. | 16. 45 | 329. | 29. | 13 | 12. | 25. | 55 |
| | | | | 4, 1 | | | | | | | | | |
| 16 | Mer. | 14. | 26, 2 | 4, 8 | 10. | 28. | 17. 15 | 330. | 27. | 20 | 12. | 5. | 3 |
| 17 | Jov. | 14. | 21, 4 | | 10. | 29. | 17. 44 | 331. | 25. | 17 | 11. | 44. | 0 |
| 18 | Ven. | 14. | 15, 9 | 5, 5 | 11. | 0. | 18. 11 | 332. | 23. | 3 | 11. | 22. | 46 |
| 19 | Sat. | 14. | 9, 7 | 6, 2 | 11. | 1. | 18. 35 | 333. | 20. | 38 | 11. | 1. | 22 |
| 20 | Dom. | 14. | 2, 7 | 7, 0 | 11. | 2. | 18. 57 | 334. | 18. | 2 | 10. | 59. | 48 |
| | | | | 7, 6 | | | | | | | | | |
| 21 | Lun. | 13. | 55, 1 | 8, 3 | 11. | 3. | 19. 17 | 335. | 15. | 16 | 10. | 18. | 4 |
| 22 | Mar. | 13. | 46, 8 | | 11. | 4. | 19. 35 | 336. | 12. | 21 | 9. | 57. | 0 |
| 23 | Mer. | 13. | 38, 0 | 8, 8 | 11. | 5. | 19. 52 | 337. | 9. | 17 | 9. | 34. | 7 |
| 24 | Jov. | 13. | 28, 6 | 9, 4 | 11. | 6. | 20. 7 | 338. | 6. | 3 | 9. | 11. | 55 |
| 25 | Ven. | 13. | 18, 5 | 10, 1 | 11. | 7. | 20. 19 | 339. | 2. | 40 | 8. | 49. | 35 |
| | | | | 10, 6 | | | | | | | | | |
| 26 | Sat. | 13. | 7, 9 | | 11. | 8. | 20. 29 | 339. | 59. | 8 | 8. | 27. | 8 |
| 27 | Dom. | 12. | 56, 7 | 11, 2 | 11. | 9. | 20. 38 | 340. | 55. | 28 | 8. | 4. | 34 |
| 28 | Lun. | 12. | 45, 1 | 11, 6 | 11. | 10. | 20. 45 | 341. | 51. | 40 | 7. | 41. | 53 |
| | | | | 12, 1 | | | | | | | | | |

FEBRUARIUS 1785.

11

| Dies mensis | Dies hebdomadae | Distantia sectionis γ a Sole | | | Difference | Initium Crepusculi | Ortus Centri Solis | Occasus Centri Solis | Finis Crepusculi | Hora Italica Meridiei | | | | | | |
|-------------|-----------------|-------------------------------------|-----|-------|------------|--------------------|--------------------|----------------------|------------------|-----------------------|----|----|----|----|-----|----|
| | | H. | M. | S. | M. S. | H. M. | H. M. | H. M. | H. M. | H. M. | | | | | | |
| 1 | Mar. | 2. | 57. | 38,6 | 4. | 3, 4 | 5. | 26 | 7. | 9 | 4. | 51 | 6. | 34 | 18. | 39 |
| 2 | Mer. | 2. | 53. | 35,2 | 4. | 2, 6 | 5. | 25 | 7. | 8 | 4. | 52 | 6. | 35 | 18. | 38 |
| 3 | Jov. | 2. | 49. | 32,6 | 4. | 1, 8 | 5. | 24 | 7. | 6 | 4. | 54 | 6. | 36 | 18. | 36 |
| 4 | Ven. | 2. | 45. | 30,8 | 4. | 1, 0 | 5. | 23 | 7. | 5 | 4. | 55 | 6. | 37 | 18. | 35 |
| 5 | Sat. | 2. | 41. | 29,8 | 4. | 0, 2 | 5. | 21 | 7. | 3 | 4. | 57 | 6. | 39 | 18. | 33 |
| 6 | Dom | 2. | 37. | 29,6 | 3. | 59, 4 | 5. | 20 | 7. | 2 | 4. | 58 | 6. | 40 | 18. | 31 |
| 7 | Lun. | 2. | 33. | 30,2 | 3. | 58, 6 | 5. | 19 | 7. | 1 | 4. | 59 | 6. | 41 | 18. | 31 |
| 8 | Mar. | 2. | 29. | 31,6 | 3. | 57, 8 | 5. | 17 | 7. | 0 | 5. | 0 | 6. | 43 | 18. | 30 |
| 9 | Mer. | 2. | 25. | 33,8 | 3. | 56, 0 | 5. | 16 | 6. | 58 | 5. | 2 | 6. | 44 | 18. | 28 |
| 10 | Jov. | 2. | 21. | 36,8 | 3. | 56, 3 | 5. | 15 | 6. | 57 | 5. | 3 | 6. | 45 | 18. | 27 |
| 11 | Ven. | 2. | 17. | 40, 5 | 3. | 55, 5 | 5. | 13 | 6. | 55 | 5. | 5 | 6. | 47 | 18. | 25 |
| 12 | Sat. | 2. | 13. | 45, 0 | 3. | 54, 7 | 5. | 12 | 6. | 54 | 5. | 6 | 6. | 48 | 18. | 24 |
| 13 | Dom | 2. | 9. | 50, 3 | 3. | 53, 9 | 5. | 11 | 6. | 52 | 5. | 8 | 6. | 49 | 18. | 22 |
| 14 | Lun. | 2. | 5. | 56, 4 | 3. | 53, 2 | 5. | 10 | 6. | 51 | 5. | 9 | 6. | 50 | 18. | 21 |
| 15 | Mar. | 2. | 2. | 3, 2 | 3. | 52, 5 | 5. | 8 | 6. | 49 | 5. | 11 | 6. | 52 | 18. | 19 |
| 16 | Mer. | 1. | 58. | 10, 7 | 3. | 51, 8 | 5. | 7 | 6. | 48 | 5. | 12 | 6. | 53 | 18. | 18 |
| 17 | Jov. | 1. | 54. | 18, 9 | 3. | 51, 1 | 5. | 5 | 6. | 46 | 5. | 14 | 6. | 55 | 18. | 16 |
| 18 | Ven. | 1. | 50. | 27, 8 | 3. | 50, 4 | 5. | 4 | 6. | 45 | 5. | 15 | 6. | 56 | 18. | 15 |
| 19 | Sat. | 1. | 46. | 37, 4 | 3. | 49, 6 | 5. | 2 | 6. | 43 | 5. | 17 | 6. | 58 | 18. | 13 |
| 20 | Dom | 1. | 42. | 47, 8 | 3. | 48, 9 | 5. | 1 | 6. | 42 | 5. | 18 | 6. | 59 | 18. | 12 |
| 21 | Lun | 1. | 38. | 58, 9 | 3. | 48, 2 | 4. | 59 | 6. | 40 | 5. | 20 | 7. | 1 | 18. | 10 |
| 22 | Mar | 1. | 35. | 10, 6 | 3. | 47, 7 | 4. | 58 | 6. | 38 | 5. | 22 | 7. | 2 | 18. | 8 |
| 23 | Mer. | 1. | 31. | 22, 9 | 3. | 47, 1 | 4. | 56 | 6. | 37 | 5. | 22 | 7. | 4 | 18. | 7 |
| 24 | Jov. | 1. | 27. | 35, 8 | 3. | 46, 5 | 4. | 55 | 6. | 35 | 5. | 25 | 7. | 5 | 18. | 5 |
| 25 | Ven. | 1. | 23. | 49, 3 | 3. | 45, 9 | 4. | 53 | 6. | 34 | 5. | 26 | 7. | 7 | 18. | 4 |
| 26 | Sat. | 1. | 20. | 3, 4 | 3. | 45, 3 | 4. | 52 | 6. | 32 | 5. | 28 | 7. | 8 | 18. | 2 |
| 27 | Dom | 1. | 16. | 18, 1 | 3. | 44, 8 | 4. | 50 | 6. | 31 | 5. | 29 | 7. | 10 | 18. | 1 |
| 28 | Lun | 1. | 12. | 33, 3 | 3. | 44, 3 | 4. | 49 | 6. | 29 | 5. | 31 | 7. | 11 | 17. | 59 |

| Dies mensis | Dies hebdomadae | Longitudo Lunae Meridie | Longitudo Lunae media nocte | Latitudo Lunae Meridie | Latitudo Lunae med. noct. | Paral- laxis Lunae Meri- die | Paral- laxis Lunae media noctē |
|-------------|-----------------|-------------------------|-----------------------------|------------------------|---------------------------|--|--|
| | | S. G. M. S. | S. G. M. S. | G. M. S. | G. M. S. | M. S. | M. S. |
| 1 | Mar. | 7. 0. 37. 15 | 7. 6. 46. 27 | 4. 57. 51 A | 5. 8. 3 | 55. 9 | 55. 26 |
| 2 | Mer. | 7. 13. 0. 0 | 7. 19. 18. 29 | 5. 14. 48 | 5. 17. 50 | 55. 45 | 56. 7 |
| 3 | Jov. | 7. 25. 42. 24 | 8. 2. 12. 16 | 5. 17. 4 | 5. 12. 18 | 56. 32 | 56. 59 |
| 4 | Ven. | 8. 8. 48. 18 | 8. 15. 30. 55 | 5. 3. 14 | 4. 49. 53 | 57. 27 | 57. 56 |
| 5 | Sat. | 8. 22. 20. 20 | 8. 29. 16. 41 | 4. 32. 20 | 4. 10. 31 | 58. 24 | 58. 52 |
| 6 | Dom. | 9. 6. 19. 45 | 9. 13. 29. 22 | 3. 44. 39 | 3. 14. 49 | 59. 19 | 59. 45 |
| 7 | Lun. | 9. 20. 45. 19 | 9. 28. 6. 49 | 2. 41. 26 | 2. 4. 57 | 60. 10 | 60. 33 |
| 8 | Mar. | 10. 5. 33. 14 | 10. 13. 3. 25 | 1. 25. 53 | 0. 45. 4 A | 60. 52 | 61. 6 |
| 9 | Mer. | 10. 20. 36. 39 | 10. 28. 11. 34 | 0. 3. 9 A | 0. 38. 54 B | 61. 15 | 61. 19 |
| 10 | Jov. | 11. 5. 46. 49 | 11. 13. 21. 21 | 1. 20. 24 B | 2. 0. 23 | 61. 18 | 61. 13 |
| 11 | Ven. | 11. 20. 54. 2 | 11. 28. 23. 42 | 2. 38. 3 | 3. 12. 42 | 61. 3 | 60. 49 |
| 12 | Sat. | 0. 5. 49. 27 | 0. 13. 10. 27 | 3. 43. 50 | 4. 10. 54 | 0. 31 | 60. 9 |
| 13 | Dom. | 0. 20. 25. 59 | 0. 27. 35. 47 | 4. 33. 33 | 4. 51. 39 | 59. 45 | 59. 21 |
| 14 | Lun. | 1. 4. 39. 17 | 1. 11. 36. 29 | 5. 5. 0 | 5. 13. 39 | 58. 56 | 58. 30 |
| 15 | Mar. | 1. 18. 27. 33 | 1. 25. 12. 35 | 5. 17. 40 | 5. 17. 13 | 58. 4 | 57. 38 |
| 16 | Mer. | 2. 1. 51. 31 | 2. 8. 24. 45 | 5. 12. 31 | 5. 3. 48 | 57. 13 | 56. 49 |
| 17 | Jov. | 2. 14. 52. 40 | 2. 21. 15. 43 | 4. 51. 17 | 4. 55. 18 | 56. 27 | 56. 6 |
| 18 | Ven. | 2. 27. 34. 5 | 3. 3. 48. 17 | 4. 16. 10 | 3. 54. 13 | 55. 46 | 55. 28 |
| 19 | Sat. | 3. 9. 58. 47 | 3. 16. 6. 6 | 3. 29. 43 | 3. 3. 2 | 55. 15 | 54. 59 |
| 20 | Dom. | 3. 22. 10. 33 | 3. 28. 12. 32 | 3. 34. 27 | 2. 4. 22 | 54. 46 | 54. 35 |
| 21 | Lun. | 4. 4. 12. 28 | 4. 10. 10. 41 | 1. 33. 5 | 1. 0. 57 B | 54. 26 | 54. 18 |
| 22 | Mar. | 4. 16. 7. 30 | 4. 22. 3. 12 | 0. 28. 16 B | 0. 4. 38 A | 54. 12 | 54. 7 |
| 23 | Mer. | 4. 27. 58. 10 | 5. 3. 52. 37 | 0. 37. 21 A | 1. 9. 36 | 54. 3 | 54. 0 |
| 24 | Jov. | 5. 9. 46. 45 | 5. 15. 40. 50 | 1. 41. 3 | 2. 11. 25 | 53. 59 | 53. 59 |
| 25 | Ven. | 5. 21. 35. 12 | 5. 27. 30. 6 | 2. 40. 22 | 3. 7. 36 | 54. 0 | 54. 2 |
| 26 | Sat. | 6. 3. 25. 42 | 6. 9. 22. 19 | 3. 32. 52 | 3. 55. 54 | 54. 5 | 54. 9 |
| 27 | Dom. | 6. 15. 20. 21 | 6. 21. 20. 6 | 4. 16. 27 | 4. 34. 15 | 54. 16 | 54. 26 |
| 28 | Lun. | 6. 27. 21. 47 | 7. 3. 25. 48 | 4. 49. 7 | 5. 0. 49 | 54. 38 | 54. 51 |
| | | 7. 9. 32. 38 | 7. 15. 42. 42 | | | | |

| Dies mensis | Dies hebdomadae | Diameter horiz. Lunae Meridie | | Diameter horiz. Lunae media nocte | | Declinatio Lunae in Meridiano | | Ortus Lunae | | Transitus Lunae per Meridianum | | Occasus Lunae | |
|-------------|-----------------|-------------------------------|----|-----------------------------------|----|-------------------------------|------|-------------|------|--------------------------------|------|---------------|-----|
| | | M. | S. | M. | S. | G. | M. | H. | M. | H. | M. | H. | M. |
| 1 | Mar. | 30. | 7 | 30. | 16 | 14. | 51 A | * | * | 4. | 32M | 9. | 33M |
| 2 | Mer. | 30. | 26 | 30. | 38 | 19. | 36 | 0. | 31M | 5. | 17 | 9. | 45 |
| 3 | Jov. | 30. | 52 | 31. | 7 | 23. | 30 | 1. | 40 | 6. | 6 | 10. | 24 |
| 4 | Ven. | 31. | 22 | 31. | 38 | 26. | 21 | 2. | 50 | 7. | 0 | 11. | 4 |
| 5 | Sat. | 31. | 53 | 32. | 8 | 27. | 39 | 3. | 58 | 7. | 58 | 11. | 57 |
| 6 | Dom | 32. | 23 | 32. | 37 | 27. | 12 | 4. | 57 | 8. | 59 | 1. | 3 V |
| 7 | Lun. | 32. | 51 | 33. | 4 | 24. | 51 | 5. | 47 | 10. | 1 | 2. | 19 |
| 8 | Mar. | 33. | 14 | 33. | 22 | 20. | 35 | 6. | 26 | 11. | 1 | 3. | 44 |
| 9 | Mer. | 33. | 27 | 33. | 29 | 14. | 40 | 6. | 57 | 11. | 58 | 5. | 9 |
| 10 | Jov. | 33. | 29 | 33. | 26 | 7. | 52 | 7. | 20 | 0. | 52 V | 6. | 36 |
| 11 | Ven. | 33. | 21 | 33. | 13 | 0. | 41 A | 7. | 44 | 1. | 44 | 7. | 58 |
| 12 | Sat. | 33. | 3 | 32. | 51 | 6. | 27 B | 8. | 8 | 2. | 35 | 9. | 19 |
| 13 | Dom | 32. | 38 | 32. | 24 | 13. | 2 | 8. | 26 | 3. | 26 | 10. | 40 |
| 14 | Lun. | 32. | 11 | 31. | 57 | 18. | 50 | 8. | 51 | 4. | 18 | 11. | 59 |
| 15 | Mar. | 31. | 42 | 31. | 28 | 23. | 17 | 9. | 21 | 5. | 11 | * | * |
| 16 | Mer. | 31. | 14 | 31. | 1 | 26. | 15 | 9. | 56 | 6. | 7 | 1. | 17M |
| 17 | Jov. | 30. | 49 | 30. | 38 | 27. | 38 | 10. | 40 | 7. | 2 | 2. | 28 |
| 18 | Ven. | 30. | 28 | 30. | 18 | 27. | 32 | 11. | 34 | 7. | 57 | 3. | 30 |
| 19 | Sat. | 30. | 9 | 30. | 1 | 25. | 51 | 0. | 36 V | 8. | 50 | 4. | 20 |
| 20 | Dom | 29. | 54 | 29. | 48 | 22. | 52 | 1. | 39 | 9. | 39 | 4. | 54 |
| 21 | Lun. | 29. | 43 | 29. | 39 | 19. | 3 | 2. | 46 | 10. | 26 | 5. | 25 |
| 22 | Mar. | 29. | 35 | 29. | 33 | 14. | 18 | 3. | 52 | 11. | 9 | 5. | 52 |
| 23 | Mer. | 29. | 31 | 29. | 29 | 9. | 0 | 4. | 57 | 11. | 50 | 6. | 12 |
| 24 | Jov. | 29. | 28 | 29. | 28 | * | * | 6. | 2 | * | * | 6. | 29 |
| 25 | Ven. | 29. | 29 | 29. | 30 | 3. | 30 B | 7. | 6 | 0. | 30M | 6. | 46 |
| 26 | Sat. | 29. | 32 | 29. | 34 | 2. | 10 A | 8. | 10 | 1. | 10 | 7. | 2 |
| 27 | Dom | 29. | 38 | 29. | 43 | 7. | 43 | 9. | 16 | 1. | 50 | 7. | 18 |
| 28 | Lun. | 29. | 50 | 29. | 57 | 13. | 11 | 10. | 25 | 2. | 31 | 7. | 36 |

| <i>Die mensis</i> | <i>Longitudo Planetarum</i> | <i>Latitudo Planetarum</i> | <i>Declinatio Planetarum</i> | <i>Ortus Planetarum</i> | <i>Transitus Planetarum per Meridianum</i> | <i>Occlusus Planetarum</i> |
|-------------------|-----------------------------|----------------------------|------------------------------|-------------------------|--|----------------------------|
|-------------------|-----------------------------|----------------------------|------------------------------|-------------------------|--|----------------------------|

| S. G. M. | G. M. | G. M. | H. M. | H. M. | H. M.

SATURNUS.

| | | | | | | |
|----|-----------|---------|----------|---------|----------|---------|
| 1 | 9. 28. 36 | o. 12 A | 20. 44 A | 6. 26 M | 10. 59 M | 3. 32 V |
| 7 | 9. 29. 18 | o. 13 | 20. 36 | 6. 5 | 10. 38 | 3. 11 |
| 13 | 9. 29. 0 | o. 13 | 20. 28 | 5. 43 | 10. 17 | 2. 51 |
| 19 | 9. 0. 41 | o. 14 | 20. 20 | 5. 22 | 9. 57 | 2. 32 |
| 25 | 9. 1. 23 | o. 14 | 20. 12 | 5. 1 | 9. 37 | 4. 13 |

JUPITER.

| | | | | | | |
|----|------------|--------|--------|---------|---------|---------|
| 1 | 11. 11. 54 | 1. 3 A | 8. 8 A | 8. 22 M | 1. 52 V | 7. 22 V |
| 7 | 11. 13. 17 | 1. 3 | 7. 36 | 8. 0 | 1. 33 | 7. 6 |
| 13 | 11. 14. 41 | 1. 3 | 7. 3 | 7. 40 | 1. 15 | 6. 50 |
| 19 | 11. 16. 6 | 1. 3 | 6. 30 | 7. 20 | 0. 57 | 6. 34 |
| 25 | 11. 17. 33 | 1. 3 | 5. 56 | 7. 1 | 0. 40 | 6. 19 |

MARS.

| | | | | | | |
|----|-----------|---------|----------|---------|---------|---------|
| 1 | 9. 3. 0 | o. 27 A | 23. 54 A | 4. 54 M | 9. 10 M | 1. 26 V |
| 7 | 9. 7. 21 | o. 31 | 23. 48 | 4. 48 | 9. 5 | 1. 22 |
| 13 | 9. 11. 47 | o. 36 | 23. 33 | 4. 43 | 9. 1 | 1. 19 |
| 19 | 9. 16. 10 | o. 41 | 23. 10 | 4. 37 | 8. 57 | 1. 17 |
| 25 | 9. 20. 36 | o. 46 | 22. 39 | 4. 31 | 8. 53 | 1. 15 |

VENUS.

| | | | | | | |
|----|------------|---------------------|---------|---------|---------|---------|
| 1 | 11. 23. 27 | o. 38 A | 2. 50 A | 8. 46 M | 2. 38 V | 8. 30 V |
| 7 | o. 1. 28 | o. 15 | 2. 18 B | 8. 35 | 2. 39 | 8. 43 |
| 13 | o. 8. 24 | o. 9 ^a B | 3. 26 | 8. 24 | 2. 41 | 8. 58 |
| 19 | o. 15. 16 | o. 36 | 6. 34 | 8. 13 | 2. 42 | 9. 11 |
| 25 | o. 22. 0 | 1. 5 | 9. 32 | 8. 1 | 2. 43 | 9. 25 |

MERCURIUS.

| | | | | | | |
|----|------------|---------|----------|---------|----------|---------|
| 1 | 9. 27. 6 | 3. 19 B | 17. 30 A | 5. 48 M | 10. 46 M | 3. 34 V |
| 7 | 9. 25. 10 | 2. 10 | 18. 43 | 5. 39 | 10. 22 | 3. 5 |
| 13 | 9. 29. 17 | o. 59 | 19. 19 | 5. 34 | 10. 14 | 2. 54 |
| 19 | 10. 4. 40 | o. 5 A | 19. 10 | 5. 35 | 10. 16 | 2. 57 |
| 25 | 10. 11. 37 | o. 58 | 18. 13 | 5. 38 | 10. 23 | 3. 8 |

ECLIPSES SATELLITUM JOVIS

| Dies mensis | I. Satelles. | | | Dies | II. Satelles. | | | Dies | III. Satelles. | | |
|----------------|--------------|-----|----|------|---------------|-----|----|------|----------------|-----|----|
| | Emerfiones | | | | Emerfiones | | | | Emerfiones | | |
| | H. | M. | S. | | H. | M. | S. | | H. | M. | S. |
| 1 | 1. | 53. | 46 | 2 | 3. | 55. | 0 | 6 | 2. | 36. | 34 |
| 2 | 20. | 32. | 33 | 5 | 16. | 52. | 50 | 13 | 6. | 36. | 54 |
| 4 | 15. | 1. | 12 | 9 | 6.* | 10. | 40 | | | | |
| 6 | 9. | 29. | 52 | 12 | 19. | 28. | 40 | | | | |
| 8 | 3. | 58. | 23 | 16 | 8. | 46. | 48 | | | | |
| 9 | 22. | 47. | 14 | | | | | | | | |
| 11 | 16. | 55. | 57 | | | | | | | | |
| 13 | 11. | 24. | 42 | | | | | | | | |
| 14 | 5.* | 53. | 30 | | | | | | | | |

| Dies | Diameter Solis | | Mora transitus Solis per Meridian. | Motus horarius Solis | Logarithmus distantiae Solis a terra posita media 100000 | Longitudo Nodi Lunae |
|------|----------------|-------|------------------------------------|----------------------|--|----------------------|
| | M | S. | M. S. | M. S. | | S. G. M |
| 1 | 32. | 30, 0 | 2. 16, 0 | 2. 32, 0 | 4. 993860 | 10. 21. 39 |
| 4 | 32. | 28, 8 | 2. 15, 3 | 2. 31, 9 | 4. 994082 | 10. 21. 30 |
| 7 | 32. | 27, 8 | 2. 14, 6 | 2. 31, 7 | 4. 994321 | 10. 21. 20 |
| 10 | 32. | 26, 6 | 2. 13, 9 | 2. 31, 6 | 4. 994572 | 10. 21. 11 |
| 13 | 32. | 25, 4 | 2. 13, 2 | 2. 31, 4 | 4. 994840 | 10. 21. 1 |
| 16 | 32. | 24, 2 | 2. 12, 6 | 2. 31, 2 | 4. 995121 | 10. 20. 52 |
| 19 | 32. | 23, 0 | 2. 12, 0 | 2. 31, 0 | 4. 995414 | 10. 20. 42 |
| 22 | 32. | 21, 7 | 2. 11, 5 | 2. 30, 8 | 4. 995722 | 10. 20. 33 |
| 25 | 32. | 20, 3 | 2. 11, 0 | 2. 30, 6 | 4. 996028 | 10. 20. 23 |
| 28 | 32. | 18, 8 | 2. 10, 6 | 2. 30, 4 | 4. 996367 | 10. 20. 14 |

Phaenomena & Observationes Solis

| <i>Die</i> | <i>Phaenomena & Observationes Solis</i> | <i>Die</i> |
|------------|--|------------|
| | Sol | |
| 3 | Aquarii culm. 22 ^h 17' | |
| 4 | Orionis culm. 6 ^h 19' | |
| 6 | Eridani culm. 5 ^h 46' | |
| 8 | Antinoi culm. 19 ^h 40' | |
| 9 | Ophiuci culm. 16 ^h 42' | |
| 10 | Serpentis culm. 18 ^h 21' | |
| 11 | Ophiuci culm. 16 ^h 31' | |
| 12 | & μ Serpentis culm. 18 ^h 34' | |
| | & 16 ^h 2' | |
| 13 | Orionis & γ Aquarii culm. 5 ^h 36' & 22 ^h 30' | |
| 14 | Orionis culm. 5 ^h 48' | |
| 15 | Antinoi culm. 19 ^h 38' | |
| 16 | Antin. & α Aquar. & ϵ Orion. culm. 20 ^h 10', 22 ^h 4', & 5 ^h 37' | |
| 18 | Ceti & δ Orionis culm. 2 ^h 33' & 5 ^h 44' | |
| 19 | in signo Arietis 17 ^h 9' | |
| 21 | Antinoi, ζ & η Virg. culm. 19 ^h 32', 13 ^h 16', & 12 ^h 1' | |
| 25 | Ceti culm. 2 ^h 12' | |
| 26 | Aquilae & γ Ophiuci culm. 18 ^h 47' & 17 ^h 10' | |
| 27 | Virg. & α Ceti culm. 11 ^h 10' & 2 ^h 24' | |
| 30 | in media distantia a terra | |
| 31 | Virg. & β Oph. 12 ^h 0', & 16 ^h 47' | |

Phaenomena & Observationes Planetarum

| | |
|----|--|
| 2 | Mercurius ad γ Capri diff. lat. 58' |
| 3 | Mercurius ad δ Capri diff. lat. 54' |
| 7 | Mercurius ad ι Aquarii d. l. 11 |
| 10 | Saturnus ad \circ Capri diff. lat. 41' |
| | Jupiter in conjunct. cum Sole |
| 13 | Mars ad \circ Capri diff. lat. 1. ^o 24' |
| 18 | Mercurius ad χ Aquarii d. l. 36' |
| 19 | Venus ad ϵ Arietis diff. l. 1. ^o 14' |
| 21 | Venus ad δ Arietis diff. lat. 1. ^o 17' |
| 22 | Venus ad ζ Arietis diff. lat. 17' |
| 24 | Venus ad τ Arietis diff. lat. 44' |
| 25 | Venus in elongat. max. vespert. |
| 31 | Venus ad η Tauri diff. lat. 10' |

Phaenomena & Observationes Lunae

| <i>Die</i> | <i>Phaenomena & Observationes Lunae</i> | <i>Die</i> |
|------------|---|------------|
| | Luna | |
| 2 | ad τ Scorpii 15 ^h 30' diff. lat. 14' | |
| 3 | Ultimus Quadrans 17 ^h 33' | |
| | ad α & γ Scorpii 3 ^h 40' & 7 ^h 0' | |
| 5 | ad ϕ & τ Sagittarii 9 ^h & 17 ^h 30' | |
| 6 | ad \circ Sagittarii 12 ^h 54' | |
| 7 | ad 1.2.3. & Aquarii 6 ^h 30', 7 ^h 16' & 7 ^h 22' | |
| 10 | Novilunium 11 ^h 9'. Perigea | |
| 14 | ad ϵ Arietis 4 ^h 0' | |
| 16 | ad β Tauri 15 ^h 52' | |
| 17 | Primus Quadrans 6 ^h 36' | |
| 18 | ad 1. ω Geminorum 8 ^h 40' | |
| 19 | ad μ Cancri 14 ^h 48' | |
| 22 | ad α Leonis 3 ^h 57' | |
| 23 | Apogea | |
| | ad γ Leonis 15 ^h 0' | |
| 25 | Plenilunium 10 ^h 44' | |
| 29 | ad A Scorpii 18 ^h 55' | |
| 30 | ad α & τ Scorpi. 10 ^h 54' & 14 ^h 10' | |

Planetae in parallelis fixarum

Saturnus initio mensis ϵ Capri, 54 Eridani, sub finem λ Librae, θ & β Ceti, & β Scorpii
 Jupiter initio β Eridani, sub finem δ Ophiuci & η Serpentis
 Mars 1 β Corvi, \circ Sagittarii, γ Hydrae & δ Scorpii, 7 ϵ Corvi & τ Sagittarii, 10 β & δ Lepor. 13 b Canis & ϵ Capri, 21 γ Librae, 22 β Ceti & β Scorpii, 28 α Leporis & β Canis
 Venus 1 δ Serpent. & ϵ Virginis, 4 α Ophiuci, 5 α Leonis, 7 δ Delphini, 12 α Tauri & β Serpent., 13 γ Geminor., θ Leonis & δ Tauri, 19 δ Cancr., 22 Arct. 27 δ Leonis, & β Herculis
 Mercurius 1 α Crateris, 3 Sirii, 6 γ Ophiuci, γ Canis, & α Librae, 11 ϵ Ceti, 16 ϵ Eridani, ζ Ophiuci & α Virg., 18 Rigel, 25 η Orionis

| Dies mensis | Dies hebdomadar | Equatio addenda tempori vero ut habeatur medium | | Differrentia | Longitudo Solis | | | | Ascensio recta Solis | | | Declinatio Solis Australis | | |
|-------------|-----------------|---|-------|--------------|-----------------|-----|-----|----|----------------------|-----|----|----------------------------|-----|----|
| | | M. | S. | | S. | S. | G. | M. | S. | G. | M. | S. | G. | M. | S. |
| 1 | Mar. | 12. | 33. 0 | 12. 1 | 11. | 11. | 20. | 50 | 342. | 47. | 44 | 7. | 19. | 15 |
| 2 | Mer. | 12. | 30. 3 | 12. 7 | 11. | 12. | 20. | 54 | 343. | 43. | 41 | 6. | 16. | 11 |
| 3 | Jov. | 12. | 7. 0 | 13. 3 | 11. | 13. | 20. | 56 | 344. | 39. | 31 | 6. | 33. | 11 |
| 4 | Ven. | 11. | 53. 4 | 13. 6 | 11. | 14. | 20. | 57 | 345. | 35. | 15 | 6. | 10. | 5 |
| 5 | Sat. | 11. | 39. 4 | 14. 0 | 11. | 15. | 20. | 56 | 346. | 30. | 59 | 5. | 46. | 53 |
| 6 | Dom | 11. | 24. 9 | 14. 5 | 11. | 16. | 20. | 53 | 347. | 26. | 25 | 5. | 23. | 37 |
| 7 | Lun. | 11. | 10. 1 | 14. 8 | 11. | 17. | 20. | 49 | 348. | 21. | 51 | 5. | 0. | 17 |
| 8 | Mar. | 10. | 54. 9 | 15. 2 | 11. | 18. | 20. | 43 | 349. | 17. | 11 | 4. | 36. | 53 |
| 9 | Mer. | 10. | 39. 3 | 15. 6 | 11. | 19. | 20. | 36 | 350. | 12. | 26 | 4. | 13. | 28 |
| 10 | Jov. | 10. | 23. 5 | 15. 8 | 11. | 20. | 20. | 27 | 351. | 7. | 55 | 3. | 49. | 54 |
| | | | | 16. 0 | | | | | | | | | | |
| 11 | Ven. | 10. | 7. 5 | 16. 0 | 11. | 21. | 20. | 16 | 352. | 2. | 40 | 3. | 26. | 20 |
| 12 | Sat. | 9. | 51. 2 | 16. 3 | 11. | 22. | 20. | 3 | 352. | 57. | 41 | 3. | 2. | 44 |
| 13 | Dom | 9. | 34. 5 | 16. 7 | 11. | 23. | 19. | 48 | 353. | 52. | 38 | 2. | 39. | 6 |
| 14 | Lun. | 9. | 17. 5 | 17. 0 | 11. | 24. | 19. | 31 | 354. | 47. | 31 | 2. | 15. | 26 |
| 15 | Mar. | 9. | 0. 2 | 17. 3 | 11. | 25. | 19. | 18 | 355. | 42. | 20 | 1. | 51. | 45 |
| | | | | 17. 5 | | | | | | | | | | |
| 16 | Mer. | 8. | 42. 7 | 17. 5 | 11. | 26. | 18. | 51 | 356. | 37. | 5 | 1. | 28. | 3 |
| 17 | Jov. | 8. | 25. 0 | 17. 7 | 11. | 27. | 18. | 27 | 357. | 31. | 47 | 1. | 4. | 50 |
| 18 | Ven. | 8. | 7. 0 | 18. 0 | 11. | 28. | 18. | 1 | 358. | 26. | 26 | 0. | 40. | 37 |
| 19 | Sat. | 7. | 48. 9 | 18. 1 | 11. | 29. | 17. | 32 | 359. | 21. | 2 | 0. | 16. | 55 |
| 20 | Dom | 7. | 30. 7 | 18. 2 | 0. | 0. | 17. | 1 | 0. | 15. | 36 | 0. | 6. | 46 |
| | | | | 18. 3 | | | | | | | | | | |
| 21 | Lun. | 7. | 12. 4 | 18. 3 | 0. | 1. | 16. | 28 | 1. | 10. | 8 | 0. | 30. | 26 |
| 22 | Mar. | 6. | 53. 9 | 18. 5 | 0. | 2. | 15. | 53 | 2. | 4. | 28 | 0. | 54. | 5 |
| 23 | Mer. | 6. | 35. 3 | 18. 6 | 0. | 3. | 15. | 15 | 2. | 59. | 7 | 1. | 17. | 43 |
| 24 | Jov. | 6. | 16. 6 | 18. 7 | 0. | 4. | 14. | 35 | 3. | 53. | 34 | 1. | 41. | 19 |
| 25 | Ven. | 5. | 57. 8 | 18. 8 | 0. | 5. | 13. | 52 | 4. | 48. | 0 | 2. | 4. | 52 |
| | | | | 18. 7 | | | | | | | | | | |
| 26 | Sat. | 5. | 39. 1 | 18. 7 | 0. | 6. | 13. | 7 | 5. | 42. | 26 | 2. | 28. | 22 |
| 27 | Dom | 5. | 20. 3 | 18. 8 | 0. | 7. | 12. | 20 | 6. | 36. | 52 | 2. | 51. | 48 |
| 28 | Lun. | 5. | 1. 5 | 18. 8 | 0. | 8. | 11. | 30 | 7. | 31. | 18 | 3. | 15. | 11 |
| 29 | Mar. | 4. | 42. 8 | 18. 7 | 0. | 9. | 10. | 39 | 8. | 25. | 45 | 3. | 38. | 30 |
| 30 | Mer. | 4. | 24. 2 | 18. 6 | 0. | 10. | 9. | 46 | 9. | 20. | 13 | 4. | 1. | 46 |
| 31 | Jov. | 4. | 5. 7 | 18. 5 | 0. | 11. | 8. | 51 | 10. | 14. | 43 | 4. | 24. | 58 |
| | | | | 18. 4 | | | | | | | | | | |

| Dias Dias. mensis | Dias Dias. mensis | Distantia sectionis Y & Sole | | | Diffe- rentia | Ini- tium Crepu- sculi | Ortus Centri Solis | Occa- sus Centri Solis | Finis Crepu- sculi | | Hora Italica Meridi- diei |
|----------------------|----------------------|------------------------------------|-----|------|------------------|---------------------------------|--------------------------|---------------------------------|--------------------------|--------|------------------------------------|
| | | H | M | S. | | | | | M. | S. |  | H | M. |
| 1 | Mar. | 1. | 8. | 49.0 | 3. 43, 8 | 4. 47 | 6. 27 | 5. 33 | 7. 13 | 17. 57 | |
| 2 | Mer. | 1. | 5. | 5,2 | 3. 43, 3 | 4. 46 | 6. 25 | 5. 35 | 7. 14 | 17. 55 | |
| 3 | Jov. | 1. | 1. | 21,9 | 3. 42, 9 | 4. 44 | 6. 24 | 5. 36 | 7. 16 | 17. 54 | |
| 4 | Ven. | 0. | 57. | 59,0 | 3. 42, 5 | 4. 43 | 6. 22 | 5. 38 | 7. 17 | 17. 52 | |
| 5 | Sat. | 0. | 53. | 56,5 | 3. 42, 1 | 4. 42 | 6. 21 | 5. 39 | 7. 18 | 17. 51 | |
| 6 | Dom | 0. | 50. | 14,4 | 3. 41, 7 | 4. 40 | 6. 19 | 5. 41 | 7. 20 | 17. 49 | |
| 7 | Lun | 0. | 46. | 32,7 | 3. 41, 4 | 4. 39 | 6. 18 | 5. 42 | 7. 21 | 17. 48 | |
| 8 | Mar. | 0. | 42. | 51,3 | 3. 41 0 | 4. 37 | 6. 16 | 5. 44 | 7. 23 | 17. 46 | |
| 9 | Mer. | 0. | 39. | 10,3 | 3. 40, 6 | 4. 35 | 6. 15 | 5. 45 | 7. 25 | 17. 45 | |
| 10 | Jov. | 0. | 35. | 29,7 | 3. 40, 3 | 4. 34 | 6. 13 | 5. 47 | 7. 26 | 17. 43 | |
| 11 | Ven. | 0. | 31. | 49,4 | 3. 40, 0 | 4. 32 | 6. 11 | 5. 48 | 7. 28 | 17. 42 | |
| 12 | Sat. | 0. | 28. | 9,4 | 3. 39, 8 | 4. 30 | 6. 10 | 5. 50 | 7. 30 | 17. 40 | |
| 13 | Dom | 0. | 24. | 29,6 | 3. 39, 6 | 4. 28 | 6. 9 | 5. 51 | 7. 32 | 17. 38 | |
| 14 | Lun | 0. | 20. | 50,0 | 3. 39, 3 | 4. 26 | 6. 7 | 5. 53 | 7. 34 | 17. 36 | |
| 15 | Mar. | 0. | 17. | 10,7 | 3. 39, 1 | 4. 25 | 6. 5 | 5. 55 | 7. 35 | 17. 34 | |
| 16 | Mer. | 0. | 13. | 31,6 | 3. 38, 8 | 4. 23 | 6. 4 | 5. 56 | 7. 37 | 17. 32 | |
| 17 | Jov. | 0. | 9. | 52,8 | 3. 38, 6 | 4. 21 | 6. 2 | 5. 58 | 7. 39 | 17. 30 | |
| 18 | Ven. | 0. | 6. | 14,2 | 3. 38, 4 | 4. 19 | 6. 1 | 5. 59 | 7. 41 | 17. 28 | |
| 19 | Sat. | 0. | 2. | 35,8 | 3. 38, 2 | 4. 17 | 5. 59 | 6. 0 | 7. 42 | 17. 26 | |
| 20 | Dom | 23. | 58. | 57,6 | 3. 38, 1 | 4. 15 | 5. 58 | 6. 2 | 7. 43 | 17. 24 | |
| 21 | Lun | 23. | 55. | 19,5 | 3. 38, 0 | 4. 14 | 5. 56 | 6. 4 | 7. 46 | 17. 22 | |
| 22 | Mar. | 23. | 51. | 41,5 | 3. 37, 9 | 4. 12 | 5. 54 | 6. 6 | 7. 48 | 17. 20 | |
| 23 | Mer. | 23. | 48. | 3,6 | 3. 37, 8 | 4. 10 | 5. 53 | 6. 7 | 7. 50 | 17. 18 | |
| 24 | Jov. | 23. | 44. | 25,8 | 3. 37, 8 | 4. 8 | 5. 51 | 6. 9 | 7. 52 | 17. 16 | |
| 25 | Ven. | 23. | 40. | 48,0 | 3. 37, 8 | 4. 7 | 5. 49 | 6. 11 | 7. 53 | 17. 14 | |
| 26 | Sat. | 23. | 37. | 10,2 | 3. 37, 7 | 4. 5 | 5. 48 | 6. 12 | 7. 55 | 17. 12 | |
| 27 | Dom | 23. | 33. | 32,5 | 3. 37, 7 | 4. 3 | 5. 46 | 6. 14 | 7. 57 | 17. 10 | |
| 28 | Lun | 23. | 29. | 54,8 | 3. 37, 8 | 4. 1 | 5. 45 | 6. 15 | 7. 59 | 17. 8 | |
| 29 | Mar. | 23. | 26. | 17,0 | 3. 37, 9 | 3. 59 | 5. 43 | 6. 17 | 8. 1 | 17. 6 | |
| 30 | Mer. | 23. | 22. | 39,1 | 3. 38, 0 | 3. 57 | 5. 41 | 6. 19 | 8. 3 | 17. 4 | |
| 31 | Jov. | 23. | 19. | 1,1 | 3. | 3. 55 | 5. 40 | 6. 20 | 8. 5 | 17. 2 | |

| Dies mensis | Dies hebdomadae | Longitudo Lunae Meridie | Longitudo Lunae media nocte | Latitudo Lunae Meridie | Latitudo Lunae med. noct. | Parallaxis Lunae Meridie | Parallaxis Lunae media nocte |
|-------------|-----------------|-------------------------|-----------------------------|------------------------|---------------------------|--------------------------|------------------------------|
| | | S. G. M. S. | S. G. M. S. | G. M. S. | G. M. S. | M. S. | M. S. |
| 1 | Mar. | 7. 9. 32. 38 | 7. 15. 42. 42 | 5. 9. 13. B | 5. 14. 74 | 55. 6 | 55. 22 |
| 2 | Mer. | 7. 21. 56. 20 | 7. 28. 14. 3 | 5. 15. 26 | 5. 13. 1 | 55. 40 | 56. 0 |
| 3 | Jov. | 8. 4. 36. 11 | 8. 11. 3. 14 | 5. 6. 40 | 4. 56. 24 | 56. 22 | 56. 46 |
| 4 | Ven. | 8. 17. 35. 31 | 8. 24. 13. 29 | 4. 42. 7 | 4. 23. 55 | 57. 11 | 57. 37 |
| 5 | Sat. | 9. 0. 57. 28 | 9. 7. 47. 15 | 4. 1. 53 | 3. 36. 5 | 58. 5 | 58. 34 |
| 6 | Dom. | 9. 14. 44. 25 | 9. 21. 47. 30 | 3. 6. 40 | 2. 34. 2 | 59. 2 | 59. 29 |
| 7 | Lun. | 9. 28. 57. 3 | 10. 6. 12. 47 | 1. 58. 29 | 1. 20. 36 A | 59. 54 | 60. 18 |
| 8 | Mar. | 10. 13. 34. 16 | 10. 21. 0. 48 | 0. 40. 50 A | 0. 0. 1 B | 60. 39 | 60. 57 |
| 9 | Mer. | 10. 28. 31. 48 | 11. 6. 6. 5 | 0. 41. 16 B | 1. 22. 1 | 61. 11 | 61. 21 |
| 10 | Jov. | 11. 13. 42. 44 | 11. 21. 20. 19 | 2. 1. 31 | 2. 38. 52 | 61. 25 | 61. 24 |
| 11 | Ven. | 11. 28. 57. 34 | 12. 6. 33. 4 | 3. 13. 20 | 3. 44. 12 | 61. 19 | 61. 9 |
| 12 | Sat. | 0. 14. 5. 46 | 0. 21. 34. 25 | 4. 10. 56 | 4. 33. 9 | 60. 54 | 60. 35 |
| 13 | Dom. | 0. 28. 57. 50 | 1. 6. 15. 16 | 4. 50. 28 | 5. 2. 46 | 60. 13 | 59. 48 |
| 14 | Lun. | 1. 13. 26. 10 | 1. 20. 30. 9 | 5. 10. 6 | 5. 12. 37 | 59. 21 | 58. 53 |
| 15 | Mar. | 1. 27. 26. 50 | 2. 4. 16. 17 | 5. 10. 25 | 5. 3. 51 | 58. 24 | 57. 55 |
| 16 | Mer. | 2. 10. 58. 37 | 2. 17. 34. 8 | 4. 53. 11 | 4. 38. 48 | 57. 27 | 56. 59 |
| 17 | Jov. | 2. 24. 3. 11 | 3. 0. 26. 14 | 4. 21. 3 | 4. 0. 18 | 56. 3 | 56. 9 |
| 18 | Ven. | 3. 6. 43. 42 | 3. 12. 56. 17 | 3. 36. 56 | 3. 11. 18 | 55. 47 | 55. 27 |
| 19 | Sat. | 3. 19. 4. 28 | 3. 25. 8. 54 | 2. 43. 44 | 2. 14. 34 | 55. 9 | 54. 53 |
| 20 | Dom. | 4. 1. 10. 9 | 4. 7. 8. 51 | 1. 44. 12 | 1. 12. 56 | 54. 39 | 54. 27 |
| 21 | Lun. | 4. 13. 5. 29 | 4. 19. 0. 35 | 0. 41. 5 | 0. 8. 58 B | 54. 17 | 54. 10 |
| 22 | Mar. | 4. 24. 54. 47 | 5. 0. 48. 25 | 0. 23. 10 A | 0. 54. 57 A | 54. 5 | 54. 2 |
| 23 | Mer. | 5. 6. 41. 54 | 5. 12. 35. 27 | 1. 26. 6 | 1. 56. 16 | 54. 0 | 54. 0 |
| 24 | Jov. | 5. 18. 29. 41 | 5. 24. 24. 50 | 2. 25. 14 | 2. 52. 41 | 54. 1 | 54. 3 |
| 25 | Ven. | 6. 0. 21. 0 | 6. 6. 18. 25 | 3. 18. 15 | 3. 41. 42 | 54. 7 | 54. 12 |
| 26 | Sat. | 6. 12. 17. 26 | 6. 18. 18. 11 | 4. 2. 48 | 4. 21. 19 | 54. 18 | 54. 25 |
| 27 | Dom. | 6. 24. 20. 49 | 7. 0. 25. 30 | 4. 36. 57 | 4. 49. 31 | 54. 34 | 54. 44 |
| 28 | Lun. | 7. 6. 32. 22 | 7. 12. 41. 35 | 4. 58. 50 | 5. 4. 47 | 54. 55 | 55. 7 |
| 29 | Mar. | 7. 18. 53. 27 | 7. 25. 8. 85 | 5. 7. 11 | 5. 5. 57 | 55. 21 | 55. 3 |
| 30 | Mer. | 8. 1. 25. 48 | 8. 7. 16. 42 | 5. 1. 1 | 4. 52. 20 | 55. 51 | 56. 8 |
| 31 | Jov. | 7. 14. 11. 8 | 8. 20. 39. 22 | 4. 39. 56 | 4. 23. 50 | 56. 27 | 57. 47 |

| Dies mensis | Dierubdomador | Diameter horiz. Lunae Meridie | | Diameter horiz. Lunae media nocte | | Declinatio Lunae in Meridiano | | Ortus Lunae | | Transitus Lunae per Meridianum | | Occasus Lunae | |
|-------------|---------------|-------------------------------|----|-----------------------------------|----|-------------------------------|------|-------------|------|--------------------------------|------|---------------|------|
| | | M | S. | M. | S. | G. | M. | H. | M. | H. | M. | H. | M. |
| 1 | Mar. | 30. | 5 | 30. | 14 | 18. | 3 A | 11. | 28 V | 3. | 15 M | 7. | 59 M |
| 2 | Mer. | 30. | 24 | 30. | 35 | 22. | 10 | * | * | 4. | 1 | 8. | 26 |
| 3 | Jov. | 30. | 47 | 31. | 0 | 25. | 24 | 0. | 39 M | 4. | 53 | 9. | 1 |
| 4 | Ven. | 31. | 14 | 31. | 28 | 27. | 18 | 1. | 46 | 5. | 48 | 9. | 46 |
| 5 | Sat. | 31. | 43 | 31. | 59 | 27. | 35 | 2. | 49 | 6. | 47 | 10. | 47 |
| 6 | Dom. | 32. | 14 | 32. | 29 | 26. | 10 | 3. | 38 | 7. | 46 | 11. | 59 |
| 7 | Lun. | 32. | 43 | 32. | 56 | 22. | 55 | 4. | 34 | 8. | 45 | 1. | 15 V |
| 8 | Mar. | 33. | 7 | 33. | 17 | 17. | 59 | 4. | 57 | 9. | 43 | 2. | 39 |
| 9 | Mer. | 33. | 25 | 33. | 30 | 11. | 44 | 5. | 24 | 0. | 38 | 4. | 3 |
| 10 | Jov. | 33. | 32 | 33. | 32 | 4. | 32 A | 5. | 47 | 11. | 32 | 5. | 29 |
| 11 | Ven. | 33. | 29 | 33. | 24 | 2. | 40 B | 6. | 10 | 0. | 24 V | 6. | 53 |
| 12 | Sat. | 33. | 16 | 33. | 5 | 9. | 43 | 6. | 32 | 1. | 17 | 8. | 16 |
| 13 | Dom. | 32. | 52 | 32. | 39 | 16. | 6 | 6. | 56 | 2. | 10 | 9. | 39 |
| 14 | Lun. | 32. | 24 | 32. | 9 | 21. | 23 | 7. | 25 | 3. | 9 | 11. | 1 |
| 15 | Mar. | 31. | 53 | 31. | 37 | 25. | 9 | 7. | 59 | 4. | 2 | * | * |
| 16 | Mer. | 31. | 22 | 31. | 7 | 27. | 18 | 8. | 41 | 5. | 0 | 0. | 20 M |
| 17 | Jov. | 30. | 53 | 30. | 39 | 27. | 38 | 9. | 33 | 5. | 57 | 1. | 24 |
| 18 | Ven. | 30. | 27 | 30. | 16 | 26. | 28 | 10. | 37 | 6. | 51 | 2. | 20 |
| 19 | Sat. | 30. | 7 | 29. | 58 | 23. | 53 | 11. | 42 | 7. | 42 | 3. | 2 |
| 20 | Dom. | 29. | 50 | 29. | 44 | 20. | 19 | 0. | 47 V | 8. | 30 | 3. | 36 |
| 21 | Lun. | 29. | 38 | 29. | 34 | 15. | 51 | 1. | 52 | 9. | 14 | 4. | 0 |
| 22 | Mar. | 29. | 32 | 29. | 30 | 10. | 47 | 2. | 55 | 9. | 56 | 4. | 24 |
| 23 | Mer. | 29. | 29 | 29. | 29 | 5. | 23 B | 4. | 2 | 10. | 37 | 4. | 45 |
| 24 | Jov. | 29. | 30 | 29. | 31 | 0. | 18 A | 5. | 6 | 11. | 16 | 5. | 0 |
| 25 | Ven. | 29. | 33 | 29. | 26 | 5. | 54 | 6. | 9 | 11. | 56 | 5. | 14 |
| 26 | Sat. | 29. | 39 | 29. | 43 | * | * | 7. | 14 | * | * | 5. | 30 |
| 27 | Dom. | 29. | 48 | 29. | 53 | 11. | 21 | 8. | 21 | 0. | 37 M | 5. | 49 |
| 28 | Lun. | 29. | 59 | 30. | 6 | 16. | 25 | 9. | 33 | 1. | 21 | 6. | 12 |
| 29 | Mar. | 30. | 13 | 30. | 21 | 20. | 51 | 10. | 37 | 2. | 7 | 6. | 33 |
| 30 | Mer. | 30. | 30 | 30. | 39 | 24. | 20 | 11. | 45 | 2. | 57 | 7. | 9 |
| 31 | Jov. | 30. | 49 | 31. | 0 | 26. | 44 | * | * | 3. | 50 | 7. | 50 |

| <i>Dies mensis</i> | <i>Longitudo Planetarum</i> | <i>Latitudo Planetarum</i> | <i>Declinatio Planetarum</i> | <i>Ortus Planetarum</i> | <i>Transitus Planetarum per Meridianum</i> | <i>Occasus Planetarum</i> |
|--------------------|-----------------------------|----------------------------|------------------------------|-------------------------|--|---------------------------|
| | <i>S. G. M.</i> | <i>G. M.</i> | <i>G. M.</i> | <i>H. M.</i> | <i>H. M.</i> | <i>H. M.</i> |

SATURNUS.

| | | | | | | |
|----|-----------|---------|---------|---------|---------|---------|
| 1 | 10. 1. 24 | 0. 15 A | 10. 6 A | 4. 43 M | 9. 20 M | 1. 57 V |
| 7 | 10. 2. 0 | 0. 15 | 19. 59 | 4. 22 | 8. 59 | 1. 36 |
| 13 | 10. 2. 33 | 0. 16 | 19. 52 | 4. 1 | 8. 39 | 1. 17 |
| 19 | 10. 3. 3 | 0. 16 | 19. 45 | 3. 41 | 8. 19 | 0. 57 |
| 25 | 10. 3. 31 | 0. 17 | 19. 39 | 2. 22 | 8. 0 | 0. 38 |

JUPITER.

| | | | | | | |
|----|------------|--------|---------|---------|----------|--------|
| 1 | 11. 18. 30 | 1. 3 A | 5. 33 A | 6. 47 M | 0. 28 V | 6. 9 V |
| 7 | 11. 19. 57 | 1. 3 | 5. 0 | 6. 28 | 0. 11 | 5. 53 |
| 13 | 11. 21. 24 | 1. 3 | 4. 25 | 6. 8 | 11. 53 M | 5. 38 |
| 19 | 11. 22. 51 | 1. 3 | 3. 51 | 5. 48 | 11. 35 | 5. 23 |
| 25 | 11. 24. 18 | 1. 3 | 3. 17 | 5. 29 | 11. 19 | 5. 9 |

MARS.

| | | | | | | |
|----|------------|---------|----------|---------|---------|---------|
| 1 | 9. 23. 35 | 0. 49 A | 22. 16 A | 4. 26 M | 8. 51 M | 1. 16 V |
| 7 | 9. 28. 1 | 0. 54 | 21. 22 | 4. 18 | 8. 47 | 1. 17 |
| 13 | 10. 2. 29 | 0. 58 | 20. 30 | 4. 10 | 8. 44 | 1. 18 |
| 19 | 10. 6. 57 | 1. 3 | 19. 38 | 4. 2 | 8. 41 | 1. 20 |
| 25 | 10. 11. 27 | 1. 8 | 18. 30 | 3. 53 | 8. 37 | 1. 21 |

VENUS.

| | | | | | | |
|----|-----------|---------|----------|---------|---------|--------|
| 1 | 0. 26. 28 | 1. 24 B | 11. 27 B | 7. 54 M | 2. 45 V | 9. 3 V |
| 7 | 1. 2. 51 | 1. 54 | 14. 13 | 7. 44 | 2. 47 | 9. 50 |
| 13 | 1. 9. 9 | 2. 24 | 16. 48 | 7. 34 | 2. 49 | 10. 3 |
| 19 | 1. 15. 14 | 2. 54 | 19. 9 | 7. 24 | 2. 50 | 10. 16 |
| 25 | 1. 21. 14 | 3. 23 | 21. 15 | 7. 14 | 2. 52 | 10. 30 |

MERCURIUS.

| | | | | | | |
|----|------------|---------|----------|---------|----------|---------|
| 1 | 10. 16. 51 | 1. 26 A | 17. 13 A | 5. 40 M | 10. 30 M | 3. 20 V |
| 7 | 10. 25. 25 | 1. 57 | 14. 57 | 5. 42 | 10. 42 | 3. 42 |
| 13 | 11. 4. 45 | 2. 13 | 11. 53 | 5. 44 | 10. 57 | 4. 10 |
| 19 | 11. 14. 50 | 2. 14 | 8. 6 | 5. 43 | 11. 13 | 4. 43 |
| 25 | 11. 25. 40 | 1. 58 | 3. 34 | 5. 42 | 11. 31 | 5. 20 |

SATELLITES JOVIS
 nequeunt hoc mense observari.

| <i>Dies</i> | <i>Diameter Solis</i> | <i>Mora transitus Solis per Meridian.</i> | <i>Motus horarius Solis</i> | <i>Logarithmus distantiae Solis a terra postea media 10000</i> | <i>Longitudo Nodi Lunae</i> |
|-------------|-----------------------|---|-----------------------------|--|-----------------------------|
| | <i>M. S.</i> | <i>M. S.</i> | <i>M. S.</i> | | <i>S. G. M.</i> |
| 1 | 32. 18, 0 | 2. 10, 4 | 2. 30, 1 | 4. 996477 | 10. 20. 10 |
| 4 | 32. 16, 9 | 2. 10, 0 | 2. 29, 9 | 4. 996815 | 10. 20. 1 |
| 7 | 32. 15, 1 | 2. 9, 6 | 2. 29, 7 | 4. 997168 | 10. 19. 51 |
| 10 | 32. 14, 0 | 2. 9, 3 | 2. 29, 4 | 4. 997521 | 10. 19. 42 |
| 13 | 32. 12, 4 | 2. 9, 0 | 2. 29, 2 | 4. 997881 | 10. 19. 33 |
| 16 | 32. 10, 8 | 2. 8, 8 | 2. 29, 0 | 4. 998244 | 10. 19. 23 |
| 19 | 32. 9, 2 | 2. 8, 6 | 2. 28, 8 | 4. 998619 | 10. 19. 13 |
| 22 | 32. 7, 4 | 2. 8, 5 | 2. 28, 5 | 4. 998993 | 10. 19. 2 |
| 25 | 32. 5, 7 | 2. 8, 4 | 2. 28, 2 | 4. 999368 | 10. 18. 54 |
| 28 | 32. 4, 1 | 2. 8, 5 | 2. 28, 0 | 4. 999743 | 10. 18. 44 |

SATELLITES JOVIS
nequeunt hoc mense observari.

| Dies | Phaenomena & Observationes Solis | Dies | Phaenomena & Observationes Lunae |
|---|---|---|--|
| | Sol in parallelo | | Luna |
| 2 | Serpentis culm. 14 ^h 49' | 2 | Ultimus Quadrans 4 ^h 59' |
| 3 | Procyon, & β Aquilae culm. 6 ^h 33' & 18 ^h 48' | 3 | ad φ & σ Sagitt. 17 ^h 36' & 22 ^h 0' |
| 4 | Orionis culm. 4 ^h 16' | 4 | ad γ Capri & Mart. 19 ^h & 19 ^h 4' |
| 7 | Serpentis, & α Orion. culm. 14 ^h 25', & 4 ^h 36' | 5 | α Aquarii 14 ^h 30' |
| 10 | Aquilae culm. 18 ^h 16' | 8 | Novilunium 20 ^h 21'. Perigea |
| 11 | Canis, & Pegasi culm. 5 ^h 52' & 20 ^h 8' | 12 | ad Veneris } Imm. 2 ^h 26' Emerf. 1 ^h 19' |
| 14 | Pegasi & β Cancri culm. 20 ^h 54', & 6 ^h 30' | 13 | ad β Tauri 0 ^h 30' |
| 15 | Aquilae culm. 17 ^h 56' | 14 | ad ε Geminorum 8 ^h 54' |
| 16 | Leonis & ε Delphini culm. 8 ^h 39' & 18 ^h 38' | 15 | Primus Quadrans 22 ^h 24' |
| 18 | Serpentis culm. 13 ^h 34' | 16 | ad α Geminorum 10 ^h 24' |
| 19 | in signo Tauri 5 ^h 50' | 16 | ad γ Cancri 9 ^h 20' |
| 21 | Virginis culm. 10 ^h 50' | 18 | ad π & α Leonis 9 ^h 36' & 10 ^h 42' |
| 23 | Ophiuci culm. 15 ^h 15' | 20 | ad σ Leonis 13 ^h 55' diff. lat. 16' |
| 24 | Leonis culm. 7 ^h 45' | 21 | Apogea |
| 26 | δ & ζ Delphini & γ Pegasi culm. 18 ^h 8', 18 ^h 6', & 21 ^h 41' | 24 | Plenilunium 2 ^h 48' |
| 28 | Delphini culm. 18 ^h 8' | 26 | ad π & σ & α Scorp. 3 ^h & 12 ^h 10' & 15 ^h 48' |
| 29 | Herculis, ζ Bootis, ε Aquilae culm. 1 ^h 33', 11 ^h 59' & 16 ^h 18' | 27 | ad 43 Ophiuci } Imm. 12 ^h 58' Emerf. 13 ^h 35' |
| 30 | Tauri & α Delphini culm. 1 ^h 34' & 17 ^h 54' | 29 | ad σ Sagittarii 3 ^h 40' |
| Phaenomena & Observat. Planet. | | Planetae in parallelis fixarum | |
| 3 | Merc. in conjunct. super. cū Sole | Saturnus λ Librae, θ & β Ceti β Scorpii | |
| 4 | Mars ad γ Capri diff. lat. 1.° 16' | Jupiter 1 γ Orionis, μ Serpent & γ Aquarii, 7 ζ Orionis, 1 γ Antin., α Aquar. & σ Orion. | |
| 5 | Mars ad 1. 2. 3. d & δ Capri d. l. 1.° 19', 40', 17', & 1.° 14' | 22 δ Ceti & δ Orion, 28 γ Virg | |
| 7 | Venus ad μ Tauri diff. lat. 58' | Mars 1 δ Capri & δ Aquarii, 4 ε Librae & Sirii, 9 γ Canis & Librae, 13 γ Erid. & γ Librae | |
| 10 | Mars ad μ Capri diff. lat. 39' | 19 ε Ceti, 21 λ Virginis, 25 Ceti, 29 σ Virginis | |
| 12 | Venus ad 1. α Tauri diff. lat. 34' | Venus 1 γ Tauri, 5 ζ & ε Leonis, 8 δ Herculis & ε Geminor., 16 β Pegasi, 20 μ Leon. | |
| 12 | Ven. in occurf. Lunae } Im. 0 ^h 26' } Em. 1 ^h 19' | 25 α Coronae & 2 Cieni | |
| 13 | Mars ad ε Aquarii diff. lat. 45' | Mercurius 15 α Sagittae, 19 γ Arietis & γ Tauri, 23 Arcuri | |
| 20 | Saturnus ad γ Capri diff. lat. 36' | 26 δ Leonis & β Herculis | |
| 20 | Mercurius ad δ Arietis diff. lat. 4' | 30 γ Tauri | |
| 22 | Mars ad σ Aquarii diff. lat. 17' | | |
| | Mercurius ad 1. 2. 3 τ Arietis diff. lat. 31', 1', & 1' | | |
| 26 | Mercurius ad η Arietis d. l. 33' | | |
| 29 | Mars ad λ Aquarii d. l. 1.° 12' | | |

| Dies mensis | Die hebdomadae | Æquatio addenda tempori vero ut habeatur medium | Differrentia | Longitudo Solis | | | Ascensio recta Solis | | | Declinatio Solis Borealis | | |
|-------------|----------------|---|--------------|-----------------|-----|--------|----------------------|--------|------------|---------------------------|----|----|
| | | | | M. | S. | S. | G. | M. | S. | G. | M. | S. |
| 1 | Sat. | 3. 46, 3 | 18, 4 | 0. | 12. | 7. 54 | 11. | 9. 14 | 4. 48. 4 | | | |
| 2 | Dom. | 3. 29, 1 | 18, 2 | 0. | 13. | 6. 56 | 12. | 3. 47 | 5. 11. 6 | | | |
| 3 | Lun. | 3. 11, 0 | 18, 1 | 0. | 14. | 5. 56 | 12. | 58. 23 | 5. 34. 8 | | | |
| 4 | Mar. | 2. 53, 1 | 17, 9 | 0. | 15. | 4. 54 | 13. | 53. 2 | 5. 56. 52 | | | |
| 5 | Mer. | 2. 35, 3 | 17, 8 | 0. | 16. | 3. 51 | 14. | 47. 44 | 6. 19. 37 | | | |
| 6 | Jov. | 2. 17, 7 | 17, 6 | 0. | 17. | 2. 46 | 15. | 42. 29 | 6. 42. 16 | | | |
| 7 | Ven. | 2. 0, 4 | 17, 3 | 0. | 18. | 1. 39 | 16. | 37. 17 | 7. 4. 48 | | | |
| 8 | Sat. | 1. 43, 4 | 17, 0 | 0. | 19. | 0. 31 | 17. | 32. 9 | 7. 27. 13 | | | |
| 9 | Dom. | 1. 26, 7 | 16, 7 | 0. | 19. | 59. 21 | 18. | 27. 5 | 7. 49. 50 | | | |
| 10 | Lun. | 1. 10, 2 | 16, 5 | 0. | 20. | 58. 8 | 19. | 22. 5 | 8. 11. 38 | | | |
| | | | 16, 2 | | | | | | | | | |
| 11 | Mar. | 0. 54, 0 | | 0. | 21. | 56. 54 | 20. | 17. 10 | 8. 33. 38 | | | |
| 12 | Mer. | 0. 38, 0 | 16, 0 | 0. | 22. | 55. 38 | 21. | 12. 19 | 8. 55. 30 | | | |
| 13 | Jov. | 0. 22, 3 | 15, 7 | 0. | 23. | 54. 20 | 22. | 7. 33 | 9. 17. 14 | | | |
| 14 | Ven. | 0. 7, 0 | 15, 3 | 0. | 24. | 53. 0 | 23. | 2. 52 | 9. 38. 49 | | | |
| 15 | Sat. | 0. 7, 9 | 14, 9 | 0. | 25. | 51. 38 | 23. | 58. 16 | 10. 0. 14 | | | |
| | | | 14, 6 | | | | | | | | | |
| 16 | Dom. | 0. 22, 5 | | 0. | 26. | 50. 13 | 24. | 53. 45 | 10. 21. 28 | | | |
| 17 | Lun. | 0. 36, 7 | 14, 2 | 0. | 27. | 48. 46 | 25. | 49. 19 | 10. 42. 32 | | | |
| 18 | Mar. | 0. 50, 6 | 13, 9 | 0. | 28. | 47. 17 | 26. | 44. 58 | 11. 3. 26 | | | |
| 19 | Mer. | 1. 4, 1 | 13, 5 | 0. | 29. | 45. 46 | 27. | 40. 43 | 11. 24. 9 | | | |
| 20 | Jov. | 1. 17, 1 | 13, 0 | 1. | 0. | 44. 12 | 28. | 36. 34 | 11. 44. 40 | | | |
| | | | 12, 7 | | | | | | | | | |
| 21 | Ven. | 1. 29, 8 | | 1. | 1. | 42. 36 | 29. | 32. 31 | 12. 5. 0 | | | |
| 22 | Sat. | 1. 42, 1 | 12, 3 | 1. | 2. | 40. 58 | 30. | 28. 25 | 12. 25. 8 | | | |
| 23 | Dom. | 1. 54, 0 | 11, 9 | 1. | 3. | 39. 18 | 31. | 24. 45 | 12. 45. 3 | | | |
| 24 | Lun. | 2. 5, 4 | 11, 4 | 1. | 4. | 37. 26 | 32. | 21. 2 | 13. 4. 46 | | | |
| 25 | Mar. | 2. 16, 3 | 10, 9 | 1. | 5. | 35. 52 | 33. | 17. 26 | 13. 24. 16 | | | |
| | | | 10, 3 | | | | | | | | | |
| 26 | Mer. | 2. 26, 6 | | 1. | 6. | 34. 6 | 34. | 13. 58 | 13. 43. 33 | | | |
| 27 | Jov. | 2. 36, 4 | 9, 8 | 1. | 7. | 32. 18 | 35. | 10. 38 | 14. 2. 36 | | | |
| 28 | Ven. | 2. 45, 7 | 9, 3 | 1. | 8. | 30. 29 | 36. | 7. 25 | 14. 21. 25 | | | |
| 29 | Sat. | 2. 54, 6 | 8, 9 | 1. | 9. | 28. 38 | 37. | 4. 20 | 14. 40. 1 | | | |
| 30 | Dom. | 3. 3, 1 | 8, 5 | 1. | 10. | 26. 46 | 38. | 1. 23 | 14. 58. 23 | | | |
| | | | 7, 9 | | | | | | | | | |

| Dies mensis | Dies hebdomadae | Distantia sectionis Υ a Sole | | | Differrentia | Initium Crepusculi | Ortus Centri Solis | Occasus Centri Solis | Finis Crepusculi | Hora Italica Meridiei | | | | | | |
|-------------|-----------------|---------------------------------------|-----|------|--------------|--------------------|--------------------|----------------------|------------------|-----------------------|----|----|----|----|-----|----|
| | | H. | M. | S. | | | | | | M. | S. | H. | M. | H. | M. | |
| 1 | Sat. | 23. | 15. | 23,1 | 3. | 38, 2 | 3. | 54 | 5. | 39 | 6. | 21 | 8. | 6 | 17. | 0 |
| 2 | Dom. | 23. | 11. | 44,9 | 3. | 38, 4 | 3. | 52 | 5. | 37 | 6. | 23 | 8. | 8 | 16. | 58 |
| 3 | Lun. | 23. | 8. | 6,5 | 3. | 38, 6 | 3. | 50 | 5. | 36 | 6. | 24 | 8. | 10 | 16. | 56 |
| 4 | Mar. | 23. | 4. | 27,9 | 3. | 38, 8 | 3. | 48 | 5. | 34 | 6. | 26 | 8. | 12 | 16. | 54 |
| 5 | Mer. | 23. | 0. | 49,1 | 3. | 39, 0 | 3. | 46 | 5. | 33 | 6. | 27 | 8. | 14 | 16. | 55 |
| 6 | Jov. | 22. | 57. | 10,1 | 3. | 39, 2 | 3. | 44 | 5. | 31 | 6. | 29 | 8. | 16 | 16. | 53 |
| 7 | Ven. | 22. | 53. | 30,9 | 3. | 39, 5 | 3. | 42 | 5. | 30 | 6. | 30 | 8. | 18 | 16. | 51 |
| 8 | Sat. | 22. | 49. | 51,4 | 3. | 39, 8 | 3. | 34 | 5. | 28 | 6. | 32 | 8. | 21 | 16. | 49 |
| 9 | Dom. | 22. | 46. | 11,6 | 3. | 40, 0 | 3. | 37 | 5. | 26 | 6. | 34 | 8. | 23 | 16. | 47 |
| 10 | Lun. | 22. | 42. | 31,6 | 3. | 40, 3 | 3. | 35 | 5. | 24 | 6. | 36 | 8. | 25 | 16. | 45 |
| 11 | Mar. | 22. | 38. | 51,3 | 3. | 40, 6 | 3. | 34 | 5. | 23 | 6. | 37 | 8. | 27 | 16. | 43 |
| 12 | Mer. | 22. | 35. | 10,7 | 3. | 40, 9 | 3. | 32 | 5. | 21 | 6. | 39 | 8. | 28 | 16. | 41 |
| 13 | Jov. | 22. | 31. | 29,8 | 3. | 41, 3 | 3. | 30 | 5. | 19 | 6. | 41 | 8. | 30 | 16. | 39 |
| 14 | Ven. | 22. | 27. | 48,5 | 3. | 41, 6 | 3. | 28 | 5. | 18 | 6. | 42 | 8. | 32 | 16. | 38 |
| 15 | Sat. | 22. | 24. | 6,9 | 3. | 41, 9 | 3. | 26 | 5. | 16 | 6. | 44 | 8. | 34 | 16. | 36 |
| 16 | Dom. | 22. | 20. | 25,0 | 3. | 42, 3 | 3. | 24 | 5. | 14 | 6. | 46 | 8. | 36 | 16. | 34 |
| 17 | Lun. | 22. | 16. | 42,7 | 3. | 42, 6 | 3. | 22 | 5. | 13 | 6. | 47 | 8. | 38 | 16. | 32 |
| 18 | Mar. | 22. | 13. | 0,1 | 3. | 43, 0 | 3. | 20 | 5. | 11 | 6. | 49 | 8. | 40 | 16. | 30 |
| 19 | Mer. | 22. | 9. | 17,1 | 3. | 43, 4 | 3. | 18 | 5. | 10 | 6. | 50 | 8. | 42 | 16. | 28 |
| 20 | Jov. | 22. | 5. | 33,7 | 3. | 43, 8 | 3. | 15 | 5. | 8 | 6. | 52 | 8. | 45 | 16. | 26 |
| 21 | Ven. | 22. | 1. | 49,9 | 3. | 44, 2 | 3. | 13 | 5. | 7 | 6. | 53 | 8. | 47 | 16. | 24 |
| 22 | Sat. | 21. | 58. | 5,7 | 3. | 44, 7 | 3. | 11 | 5. | 5 | 6. | 55 | 8. | 49 | 16. | 22 |
| 23 | Dom. | 21. | 54. | 21,0 | 3. | 45, 2 | 3. | 9 | 5. | 3 | 6. | 57 | 8. | 51 | 16. | 20 |
| 24 | Lun. | 21. | 50. | 35,8 | 3. | 45, 6 | 3. | 7 | 5. | 2 | 6. | 58 | 8. | 53 | 16. | 19 |
| 25 | Mar. | 21. | 46. | 50,2 | 3. | 46, 1 | 3. | 5 | 5. | 1 | 6. | 59 | 8. | 55 | 16. | 17 |
| 26 | Mer. | 21. | 43. | 4,1 | 3. | 46, 6 | 3. | 2 | 5. | 0 | 7. | 0 | 8. | 58 | 16. | 15 |
| 27 | Jov. | 21. | 39. | 17,5 | 3. | 47, 1 | 3. | 0 | 4. | 58 | 7. | 2 | 9. | 0 | 16. | 13 |
| 28 | Ven. | 21. | 35. | 30,4 | 3. | 47, 7 | 2. | 58 | 4. | 57 | 7. | 3 | 9. | 2 | 16. | 12 |
| 29 | Sat. | 21. | 31. | 42,7 | 3. | 48, 2 | 2. | 56 | 4. | 56 | 7. | 4 | 9. | 4 | 16. | 10 |
| 30 | Dom. | 21. | 27. | 54,5 | | | 2. | 54 | 4. | 54 | 7. | 6 | 9. | 6 | 16. | 8 |

| Dies mensis | Dies hebdomadae | Longitudo Lunae Meridie | | | Longitudo Lunae mediu nocte | | | Latitudo Lunae Meridie | | | Latitudo Lunae med. noct. | | | Paral- laxis Lunae Meridie | | Paral- laxis Lunae media noctē | |
|-------------|-----------------|-------------------------------|-----|--------|-----------------------------------|-----|--------|------------------------------|-------|------|---------------------------------|----------|-----|-------------------------------------|-----|--|----|
| | | S. | G. | M. S. | S. | G. | M. S. | G. | M. S. | G. | M. S. | M. | S. | M. | S. | | |
| 1 | Sat. | 8. | 27. | 11. 40 | 9. | 3. | 48. 22 | 3. | 4. | 8 A | 3. | 40. | 58 | 57. | 8 | 57. | 30 |
| 2 | Dom | 9. | 10. | 29. 39 | 9. | 17. | 15. 50 | 3. | 14. | 32 | 2. | 45. | 3 | 57. | 52 | 58. | 15 |
| 3 | Lun. | 9. | 24. | 7. 9 | 10. | 1. | 3. 46 | 2. | 12. | 49 | 1. | 38. | 13 | 58. | 38 | 58. | 51 |
| 4 | Mar. | 10. | 8. | 5. 46 | 10. | 15. | 13. 6 | 1. | 1. | 42 | 0. | 23. 48 A | 59. | 24 | 59. | 46 | |
| 5 | Mer. | 10. | 22. | 25. 41 | 10. | 29. | 43. 17 | 0. | 14. | 57 B | 0. | 53. 49 | 60. | 5 | 60. | 22 | |
| 6 | Jov. | 11. | 7. | 5. 30 | 11. | 14. | 31. 33 | 1. | 32. | 13 | 2. | 9. 18 | 60. | 37 | 60. | 48 | |
| 7 | Ven. | 11. | 22. | 0. 45 | 11. | 29. | 31. 59 | 2. | 44. | 22 | 3. | 16. 41 | 60. | 56 | 61. | 0 | |
| 8 | Sat. | 0. | 7. | 4. 19 | 0. | 14. | 36. 21 | 3. | 45. | 37 | 4. | 10. 36 | 60. | 58 | 60. | 52 | |
| 9 | Dom | 0. | 22. | 7. 7 | 0. | 29. | 35. 7 | 4. | 31. | 5 | 4. | 46. 50 | 60. | 43 | 60. | 29 | |
| 10 | Lun. | 1. | 6. | 59. 18 | 1. | 14. | 18. 37 | 4. | 57. | 32 | 5. | 3. 13 | 60. | 11 | 59. | 50 | |
| 11 | Mar. | 1. | 21. | 38. 4 | 1. | 28. | 39. 3 | 5. | 3. | 59 | 5. | 0. 0 | 59. | 26 | 59. | 20 | |
| 12 | Mer. | 2. | 5. | 39. 13 | 2. | 12. | 32. 24 | 4. | 51. | 31 | 4. | 38. 56 | 58. | 33 | 58. | 6 | |
| 13 | Jov. | 2. | 19. | 18. 1 | 2. | 25. | 56. 35 | 4. | 22. | 35 | 4. | 2. 56 | 57. | 38 | 57. | 10 | |
| 14 | Ven. | 3. | 2. | 28. 16 | 3. | 8. | 53. 28 | 3. | 40. | 25 | 3. | 15. 28 | 56. | 45 | 56. | 17 | |
| 15 | Sat. | 3. | 15. | 12. 34 | 3. | 21. | 26. 16 | 2. | 48. | 28 | 2. | 19. 49 | 55. | 54 | 55. | 33 | |
| 16 | Dom | 3. | 27. | 35. 6 | 4. | 3. | 39. 47 | 1. | 49. | 53 | 1. | 19. 2 | 55. | 14 | 54. | 57 | |
| 17 | Lun. | 4. | 9. | 40. 57 | 4. | 15. | 39. 17 | 0. | 47. | 36 | 0. | 15. 56 B | 54. | 42 | 54. | 30 | |
| 18 | Mar. | 4. | 21. | 35. 28 | 4. | 27. | 30. 10 | 5. | 15. | 45 A | 0. | 47. 4 | 54. | 31 | 54. | 14 | |
| 19 | Mer. | 5. | 3. | 23. 58 | 5. | 9. | 17. 28 | 1. | 17. | 47 | 1. | 47. 36 | 54. | 9 | 54. | 7 | |
| 20 | Jov. | 5. | 15. | 11. 10 | 5. | 21. | 5. 36 | 2. | 16. | 15 | 2. | 43. 27 | 54. | 6 | 54. | 7 | |
| 21 | Ven. | 5. | 27. | 1. 13 | 6. | 2. | 58. 25 | 3. | 8. | 55 | 3. | 32. 22 | 54. | 11 | 54. | 16 | |
| 22 | Sat. | 6. | 8. | 57. 28 | 6. | 14. | 58. 39 | 3. | 53. | 37 | 4. | 12. 21 | 54. | 22 | 54. | 30 | |
| 23 | Dom | 6. | 21. | 2. 15 | 6. | 27. | 8. 25 | 4. | 28. | 20 | 4. | 41. 19 | 54. | 39 | 54. | 49 | |
| 24 | Lun. | 7. | 3. | 17. 13 | 7. | 9. | 28. 43 | 4. | 51. | 8 | 4. | 57. 35 | 55. | 0 | 55. | 12 | |
| 25 | Mar. | 7. | 15. | 43. 4 | 7. | 22. | 0. 15 | 5. | 0. | 32 | 4. | 59. 51 | 55. | 25 | 55. | 38 | |
| 26 | Mer. | 7. | 28. | 20. 13 | 8. | 4. | 43. 3 | 4. | 55. | 30 | 4. | 47. 27 | 55. | 52 | 56. | 6 | |
| 27 | Jov. | 8. | 11. | 8. 47 | 8. | 17. | 37. 25 | 4. | 35. | 38 | 4. | 20. 8 | 56. | 21 | 56. | 36 | |
| 28 | Ven. | 8. | 24. | 8. 58 | 9. | 0. | 43. 29 | 4. | 1. | 10 | 3. | 58. 51 | 56. | 51 | 57. | 8 | |
| 29 | Sat. | 9. | 7. | 21. 1 | 9. | 14. | 1. 43 | 3. | 13. | 25 | 2. | 45. 8 | 57. | 24 | 57. | 41 | |
| 30 | Dom | 9. | 20. | 45. 40 | 9. | 27. | 23. 2 | 2. | 14. | 15 | 1. | 41. 12 | 57. | 58 | 58. | 15 | |

| Dies mensis | Dies hebdomadae | Diameter horiz. Lunae Meridie | | Diameter horiz. Lunae media nocte | | Declinatio Lunae in Meridiano | | Ortus Lunae | | Transitus Lunae per Meridianum | | Occasus Lunae | |
|-------------|-----------------|-------------------------------|----|-----------------------------------|----|-------------------------------|------|-------------|------|--------------------------------|-----|---------------|------|
| | | M. | S. | M. | S. | G. | M. | H. | M. | H. | M. | H. | M. |
| 1 | Sat. | 31. | 12 | 31. | 24 | 27. | 30 A | 0. | 48M | 4. | 46M | 8. | 44M |
| 2 | Dom | 31. | 36 | 31. | 48 | 26. | 48 | 1. | 42 | 5. | 44 | 9. | 50 |
| 3 | Lun. | 32. | 1 | 32. | 14 | 24. | 14 | 2. | 26 | 6. | 42 | 11. | 2 |
| 4 | Mar. | 32. | 26 | 32. | 38 | 20. | 6 | 3. | 1 | 7. | 35 | 0. | 22 V |
| 5 | Mer. | 32. | 49 | 32. | 58 | 14. | 40 | 3. | 31 | 8. | 32 | 1. | 44 |
| 6 | Jov | 33. | 6 | 33. | 12 | 8. | 15 | 3. | 53 | 9. | 24 | 3. | 6 |
| 7 | Ven. | 33. | 16 | 33. | 18 | 1. | 9 A | 4. | 17 | 10. | 16 | 4. | 28 |
| 8 | Sat. | 33. | 17 | 33. | 14 | 6. | 11 B | 4. | 38 | 11. | 8 | 5. | 51 |
| 9 | Dom | 33. | 19 | 33. | 2 | 12. | 50 | 5. | 2 | 0. | 2 V | 7. | 16 |
| 10 | Lun. | 32. | 52 | 32. | 40 | 18. | 46 | 5. | 30 | 0. | 58 | 8. | 40 |
| 11 | Mar. | 32. | 27 | 32. | 13 | 23. | 21 | 6. | 4 | 1. | 55 | 9. | 59 |
| 12 | Mer. | 31. | 58 | 31. | 43 | 26. | 19 | 6. | 44 | 2. | 53 | 11. | 14 |
| 13 | Jov. | 31. | 28 | 31. | 13 | 27. | 24 | 7. | 31 | 3. | 52 | * | * |
| 14 | Ven. | 30. | 58 | 30. | 44 | 26. | 58 | 8. | 30 | 4. | 49 | 0. | 14M |
| 15 | Sat. | 30. | 31 | 30. | 20 | 24. | 51 | 9. | 34 | 5. | 43 | 1. | 7 |
| 16 | Dom | 30. | 10 | 30. | 0 | 21. | 28 | 10. | 41 | 6. | 32 | 1. | 44 |
| 17 | Lun. | 29. | 52 | 29. | 45 | 17. | 17 | 11. | 47 | 7. | 18 | 2. | 18 |
| 18 | Mar. | 29. | 40 | 29. | 36 | 12. | 26 | 0. | 54 V | 8. | 2 | 2. | 35 |
| 19 | Mer. | 29. | 34 | 29. | 33 | 7. | 9 | 1. | 59 | 8. | 43 | 2. | 58 |
| 20 | Jov. | 29. | 32 | 29. | 33 | 1. | 40 B | 3. | 2 | 9. | 22 | 3. | 15 |
| 21 | Ven. | 29. | 35 | 29. | 38 | 3. | 58 A | 4. | 5 | 10. | 2 | 3. | 30 |
| 22 | Sat. | 29. | 41 | 29. | 45 | 9. | 31 | 5. | 10 | 10. | 43 | 3. | 47 |
| 23 | Dom | 29. | 50 | 29. | 56 | 14. | 44 | 6. | 17 | 11. | 26 | 4. | 6 |
| 24 | Lun. | 30. | 2 | 30. | 8 | * | * | 7. | 27 | * | * | 4. | 26 |
| 25 | Mar. | 30. | 15 | 30. | 22 | 19. | 27 | 8. | 39 | 0. | 12M | 4. | 49 |
| 26 | Mer. | 30. | 30 | 30. | 38 | 24. | 1 | 9. | 46 | 1. | 1 | 5. | 17 |
| 27 | Jov. | 30. | 46 | 30. | 54 | 26. | 27 | 10. | 48 | 1. | 53 | 5. | 56 |
| 28 | Ven. | 31. | 3 | 31. | 12 | 27. | 20 | 11. | 41 | 2. | 48 | 6. | 48 |
| 29 | Sat. | 31. | 21 | 31. | 30 | 26. | 40 | * | * | 3. | 46 | 7. | 53 |
| 30 | Dom | 31. | 39 | 31. | 48 | 24. | 18 | 0. | 27M | 4. | 43 | 9. | 3 |

| Dies mensis | Longitudo | Latitudo | Declina- | Ortus | Transi- | Occasus |
|-------------|-----------------|-----------------|---------------------|-----------------|--|-----------------|
| | Planeta- rum | Plane- tarum | tio Pla- netarum | Plane- tarum | tus Pla- netarum per Me- ridianum | Plane- tarum |
| | S. G. M. | G. M. | G. M. | H. M. | H. M. | H. M. |

SATURNUS.

| | | | | | | |
|----|-----------|---------|----------|-------|--------|---------|
| 1 | 10. 4. 2 | 0. 18 A | 19. 33 A | 2. 2M | 7. 41M | 0. 20 V |
| 7 | 10. 4. 25 | 0. 19. | 19. 29 | 2. 41 | 7. 20 | 11. 59M |
| 13 | 10. 4. 45 | 0. 20 | 19. 25 | 2. 20 | 6. 59 | 11. 38 |
| 19 | 10. 5. 2 | 0. 20 | 19. 21 | 1. 58 | 6. 38 | 11. 18 |
| 25 | 10. 5. 14 | 0. 20 | 19. 18 | 1. 37 | 6. 17 | 10. 57 |

JUPITER.

| | | | | | | |
|----|------------|--------|---------|-------|--------|---------|
| 1 | 11. 26. 0 | 1. 4 A | 2. 35 A | 5. 9M | 11. 2M | 4. 55 V |
| 7 | 11. 27. 25 | 1. 4 | 2. 2 | 4. 50 | 10. 45 | 4. 40 |
| 13 | 11. 28. 48 | 1. 5 | 1. 29 | 4. 31 | 10. 28 | 4. 25 |
| 19 | 0. 0. 10 | 1. 6 | 0. 57 | 4. 12 | 10. 11 | 4. 10 |
| 25 | 0. 1. 31 | 1. 6 | 0. 26 | 3. 53 | 9. 54 | 3. 55 |

MARS.

| | | | | | | |
|----|------------|---------|---------|--------|-------|---------|
| 1 | 10. 16. 44 | 1. 13 A | 17. 1 A | 3. 43M | 8. 34 | 1. 25 V |
| 7 | 10. 21. 15 | 1. 18 | 15. 41 | 3. 33 | 8. 30 | 1. 27 |
| 13 | 10. 25. 45 | 1. 23 | 14. 16 | 3. 23 | 8. 26 | 1. 29 |
| 19 | 11. 0. 16 | 1. 27 | 12. 46 | 3. 11 | 8. 21 | 1. 31 |
| 25 | 11. 4. 46 | 1. 31 | 11. 12 | 2. 59 | 8. 16 | 1. 33 |

VENUS.

| | | | | | | |
|----|-----------|---------|----------|-------|---------|----------|
| 1 | 1. 27. 30 | 3. 53 B | 23. 23 B | 7. 4M | 2. 52 V | 10. 40 V |
| 7 | 2. 2. 33 | 4. 17 | 24. 51 | 6. 56 | 2. 52 | 10. 48 |
| 13 | 2. 7. 6 | 4. 35 | 26. 1 | 6. 46 | 2. 49 | 10. 52 |
| 19 | 2. 11. 2 | 4. 49 | 26. 52 | 6. 36 | 2. 44 | 10. 52 |
| 25 | 2. 14. 11 | 4. 55 | 27. 23 | 6. 24 | 2. 35 | 10. 46 |

MERCURIUS.

| | | | | | | |
|----|-----------|---------|---------|--------|---------|--------|
| 1 | 0. 9. 21 | 1. 17 A | 2. 31 B | 5. 42M | 11. 55M | 6. 8 V |
| 7 | 0. 21. 45 | 0. 22 | 8. 8 | 5. 38 | 0. 15 V | 6. 52 |
| 13 | 1. 4. 14 | 0. 43 B | 13. 36 | 5. 39 | 0. 39 | 7. 39 |
| 19 | 1. 15. 45 | 1. 45 | 18. 13 | 5. 39 | 1. 0 | 8. 21 |
| 25 | 1. 25. 17 | 2. 27 | 21. 28 | 5. 38 | 1. 16 | 8. 54 |

SATELLITES JOVIS
 sequuntur hoc mense observari.

| <i>Dies</i> | <i>Diameter Solis</i> | <i>Mora transitus Solis per Meridian.</i> | <i>Motus horarius Solis</i> | <i>Logarithmus distantiae Solis a terra posita media 100000</i> | <i>Longitudo Nodi Lunae</i> |
|-------------|-----------------------|---|-----------------------------|---|-----------------------------|
| | <i>M. S.</i> | <i>M. S.</i> | <i>M. S.</i> | | <i>S. G. M.</i> |
| 1 | 32. 1, 8 | 2. 8, 6 | 2. 27, 6 | 5. 000247 | 10. 18. 31 |
| 4 | 32. 0, 1 | 2. 8, 7 | 2. 27, 3 | 5. 000622 | 10. 18. 21 |
| 7 | 31. 58, 3 | 2. 8, 8 | 2. 27, 0 | 5. 000994 | 10. 18. 12 |
| 10 | 31. 56, 7 | 2. 9, 1 | 2. 26, 8 | 5. 001364 | 10. 18. 2 |
| 13 | 31. 55, 1 | 2. 9, 4 | 2. 26, 6 | 5. 001731 | 10. 17. 53 |
| 16 | 31. 53, 5 | 2. 9, 7 | 2. 26, 4 | 5. 002090 | 10. 17. 43 |
| 19 | 31. 52, 0 | 2. 10, 0 | 2. 26, 2 | 5. 002442 | 10. 17. 34 |
| 22 | 31. 50, 4 | 2. 10, 4 | 2. 26, 0 | 5. 002792 | 10. 17. 24 |
| 25 | 31. 48, 8 | 2. 10, 8 | 2. 25, 8 | 5. 003130 | 10. 17. 15 |
| 28 | 31. 47, 3 | 2. 11, 2 | 2. 25, 5 | 5. 003461 | 10. 17. 6 |

SATELLITES JOVIS
nequeunt hoc mense observari.

| <i>Phaenomena & Observations Solis</i> | | <i>Phaenomena & Observations Lunae</i> | |
|---|--|--|--|
| <i>Sol in parallelo</i> | | <i>Luna</i> | |
| 17 Delphini culm. 17 ^h 56' | | 1 Ultimus Quadrans 13 ^h 4' | |
| 28 Leonis culm. 8 ^h 56' | | ad ε Capri 18 ^h 40' | |
| 3 Tauri & β Serp. culm. 1 ^h 39' | | 2 ad θ Aquarii 19 ^h 43' | |
| & 12 ^h 50' | | 5 ad δ Piscium 17 ^h 0' | |
| 57 Serp., γ Geminor., & θ Leonis culm. 12 ^h 52', 3 ^h 33', & 8 ^h 9' | | 6 Perigea ad α Piscium 12 ^h 48' | |
| 6 in nodo ascend. Mercurii | | 8 Novilunium 5 ^h 7' | |
| 8 in nodo ascend. Martis | | 9 ad φ & α Tauri 8 ^h 20' & 8 ^h 47' | |
| 17 Bootis, & γ Herculis culm. 10 ^h 4', & 12 ^h 32' | | ad Mercurii 12 ^h 40' | |
| 20 in signo Geminorum 6 ^h 2' | | 10 ad Veneris 6 ^h 23' diff. lat. 4' | |
| 21 Arcturi culm. 10 ^h 12' | | ad β Tauri 10 ^h 10' | |
| 24 γ Leonis culm. 6 ^h 0' | | 12 ad α Geminorum 19 ^h 15' | |
| 29 δ Leonis culm. 6 ^h 34' | | 13 ad μ Cancri 6 ^h 0' | |
| 30 β Herculis culm. 11 ^h 48' | | 15 Primus Quadrans 15 ^h 36' | |
| | | ad ↓ & α Leonis 5 ^h 0' & 17 ^h 40' | |
| | | 17 ad τ & υ Leonis 14 ^h 10' & 21 ^h 12' | |
| | | 19 Apogea ad ↓ Virginis 16 ^h 0' | |
| | | 23 Plenilunium 16 ^h 4' | |
| | | ad ♀ Scorp. 9 ^h 58', Im. 8 ^h 12' diff. Em. 9. 19) m. 7' | |
| | | 25 ad γ Sagittarii 13 ^h 48' | |
| | | 26 ad ε Sagittarii 9 ^h 20' diff. lat. 31' | |
| | | 28 ad Sat. & θ Capri 8 ^h 0', & 15 ^h 20' | |
| | | 29 ad δ Capri 9 ^h 0' | |
| | | 30 Ultimus Quadrans 18 ^h 39' | |
| | | 31 Perigea | |
| <i>Phaenomena & Observations Planetarum</i> | | <i>Plantae in parallelis fixarum</i> | |
| 4 Mars ad 1. 2. 3. h Aquarii d. 1. 2', 7' & 20' | | Sat. α Libr., θ & β Ceti & β Scorp. | |
| 5 Mars ad φ Aquarii diff. lat. 38' | | Jupiter initio mensis, Antinoi, ζ & γ Virginis; sub finem α Piscium & γ Ceti | |
| 6 Mercurius ad 1. α Tauri diff. lat. 1.° 26' | | Mars 1 ζ Eridani, η α Aquarii & β Librae & Rigel, β α Hydrae, α β Aquarii, 16 β Eridani & α Antinoi, 19 θ Virginis, 20 τ Ophiuci & α Ceti, 22 ζ Serpentis, 25 δ Ophiuci, η & μ Serpentis, 28 γ Antinoi & α Aquarii | |
| Mercurius ad 1. 2. γ Tauri d. 1. 1.° 27' & 1.° 19' | | Venus 1 β Cygni & α Coron., 10 μ Leon., 14 β Pegasi, 21 ζ Gemin. & δ Herc., 23 ι & ζ Leonis | |
| 19 Saturnus Rationarius | | Mercurius 1 β & γ Tauri, 15 μ & η Gemin., α Arietis, δ Geminior., 22 β Herc. & β Leon. | |
| 20 Mars ad 20 Piscium diff. lat. 26' | | | |
| 23 Mercurius in conjunctione inferiori cum Sole | | | |
| 24 Venus ad β Tauri diff. lat. 14' | | | |
| 29 Venus in conjunctione inferiori cum Sole | | | |

| Dies mensis | Dies hebdomadae | Æquatio subtrahenda a tempore vero ut habeatur medium | | Diffe- rentia | Longitudo Solis | | | | Ascensio recta Solis | | | Declinatio Solis Borealis | | |
|-------------|-----------------|--|-------|------------------|--------------------|-----|-----|----|-------------------------|-----|----|---------------------------------|-----|----|
| | | M. | S. | S. | S. | G. | M. | S. | G. | M. | S. | G. | M. | S. |
| 1 | Lun. | 3. | 11, 0 | 7, 9 | 1. | 11. | 24. | 52 | 38. | 58. | 34 | 15. | 16. | 30 |
| 2 | Mar. | 3. | 18, 3 | 7, 3 | 1. | 12. | 22. | 57 | 39. | 55. | 54 | 15. | 34. | 21 |
| 3 | Mer. | 3. | 25, 0 | 6, 7 | 1. | 13. | 21. | 1 | 40. | 53. | 23 | 15. | 51. | 57 |
| 4 | Jov. | 3. | 31, 0 | 6, 0 | 1. | 14. | 19. | 3 | 41. | 51. | 0 | 16. | 9. | 18 |
| 5 | Ven. | 3. | 36, 4 | 5, 4 | 1. | 15. | 17. | 4 | 42. | 48. | 46 | 16. | 26. | 23 |
| 6 | Sat. | 3. | 41, 2 | 4, 8 | 1. | 16. | 15. | 4 | 43. | 46. | 41 | 16. | 43. | 12 |
| 7 | Dom. | 3. | 45, 5 | 4, 3 | 1. | 17. | 13. | 3 | 44. | 44. | 45 | 16. | 59. | 44 |
| 8 | Lun. | 3. | 49, 2 | 3, 7 | 1. | 18. | 11. | 0 | 45. | 42. | 58 | 17. | 15. | 59 |
| 9 | Mar. | 3. | 52, 3 | 3, 1 | 1. | 19. | 8. | 56 | 46. | 41. | 20 | 17. | 31. | 57 |
| 10 | Mer. | 3. | 54, 8 | 2, 5 | 1. | 20. | 6. | 51 | 47. | 39. | 50 | 17. | 47. | 37 |
| | | | | 1, 9 | | | | | | | | | | |
| 11 | Jov. | 3. | 56, 7 | | 1. | 21. | 4. | 44 | 48. | 38. | 29 | 18. | 3. | 0 |
| 12 | Ven. | 3. | 58, 0 | 1, 3 | 1. | 22. | 2. | 36 | 49. | 37. | 16 | 18. | 18. | 5 |
| 13 | Sat. | 3. | 58, 8 | 0, 8 | 1. | 23. | 0. | 24 | 50. | 36. | 12 | 18. | 32. | 51 |
| 14 | Dom. | 3. | 59, 1 | 0, 3 | 1. | 23. | 58. | 14 | 51. | 35. | 17 | 18. | 47. | 19 |
| 15 | Lun. | 3. | 58, 9 | 0, 8 | 1. | 24. | 56. | 1 | 52. | 34. | 30 | 19. | 1. | 28 |
| | | | | 0, 8 | | | | | | | | | | |
| 16 | Mar. | 3. | 58, 1 | | 1. | 25. | 53. | 46 | 53. | 33. | 52 | 19. | 15. | 17 |
| 17 | Mer. | 3. | 56, 7 | 1, 4 | 1. | 26. | 51. | 29 | 54. | 33. | 22 | 19. | 28. | 46 |
| 18 | Jov. | 3. | 54, 7 | 2, 0 | 1. | 27. | 49. | 11 | 55. | 33. | 0 | 19. | 41. | 56 |
| 19 | Ven. | 3. | 52, 2 | 2, 5 | 1. | 28. | 46. | 51 | 56. | 32. | 45 | 19. | 54. | 46 |
| 20 | Sat. | 3. | 49, 2 | 3, 0 | 1. | 29. | 44. | 29 | 57. | 32. | 38 | 20. | 7. | 15 |
| | | | | 3, 4 | | | | | | | | | | |
| 21 | Dom. | 3. | 45, 8 | | 2. | 0. | 42. | 6 | 58. | 32. | 39 | 20. | 19. | 23 |
| 22 | Lun. | 3. | 41, 8 | 4, 0 | 2. | 1. | 39. | 41 | 59. | 32. | 48 | 20. | 31. | 11 |
| 23 | Mar. | 3. | 37, 2 | 4, 6 | 2. | 2. | 37. | 15 | 60. | 33. | 4 | 20. | 42. | 38 |
| 24 | Mer. | 3. | 32, 1 | 5, 1 | 2. | 3. | 34. | 47 | 61. | 33. | 27 | 20. | 53. | 44 |
| 25 | Jov. | 3. | 26, 1 | 5, 5 | 2. | 4. | 32. | 18 | 62. | 33. | 58 | 21. | 4. | 28 |
| | | | | 5, 9 | | | | | | | | | | |
| 26 | Ven. | 3. | 20, 7 | | 2. | 5. | 29. | 48 | 63. | 34. | 37 | 21. | 14. | 50 |
| 27 | Sat. | 3. | 14, 1 | 6, 6 | 2. | 6. | 27. | 18 | 64. | 35. | 24 | 21. | 24. | 50 |
| 28 | Dom. | 3. | 7, 0 | 7, 1 | 2. | 7. | 24. | 47 | 65. | 36. | 18 | 21. | 34. | 28 |
| 29 | Lun. | 2. | 59, 5 | 7, 5 | 2. | 8. | 22. | 15 | 66. | 37. | 20 | 21. | 43. | 44 |
| 30 | Mar. | 2. | 51, 5 | 8, 0 | 2. | 9. | 19. | 42 | 67. | 38. | 29 | 21. | 52. | 38 |
| 31 | Mer. | 2. | 43, 1 | 8, 4 | 2. | 10. | 17. | 8 | 68. | 39. | 44 | 22. | 1. | 9 |
| | | | | 8, 8 | | | | | | | | | | |

| Dies mensis | Dies hebdomadae | Distantia sectionis Y a Sole | | | Differentia | | Initium Crepusculi | | Ortus Centri Solis | | Occasus Centri Solis | | Finis Crepusculi | | Hora Italica Meridiei | |
|-------------|-----------------|------------------------------|-----|------|-------------|-------|--------------------|----|--------------------|----|----------------------|----|------------------|----|-----------------------|----|
| | | H. | M. | S. | M. | S. | H. | M. | H. | M. | H. | M. | H. | M. | H. | M. |
| 1 | Lun. | 21. | 24. | 4.7 | 3. | 48, 3 | 2. | 52 | 4. | 53 | 7. | 7 | 9. | 8 | 16. | 6 |
| 2 | Mar. | 21. | 20. | 16,4 | 3. | 49, 9 | 2. | 50 | 4. | 52 | 7. | 8 | 9. | 10 | 16. | 5 |
| 3 | Mer. | 21. | 16. | 26,5 | 3. | 50, 5 | 2. | 48 | 4. | 50 | 7. | 10 | 9. | 12 | 16. | 3 |
| 4 | Jov. | 21. | 12. | 36,0 | 3. | 51, 1 | 2. | 46 | 4. | 49 | 7. | 11 | 9. | 14 | 16. | 1 |
| 5 | Ven. | 21. | 8. | 44,9 | 3. | 51, 7 | 2. | 44 | 4. | 48 | 7. | 12 | 9. | 16 | 16. | 0 |
| 6 | Sat. | 21. | 4. | 53,2 | 3. | 52, 3 | 2. | 41 | 4. | 46 | 7. | 14 | 9. | 19 | 15. | 58 |
| 7 | Dom. | 21. | 1. | 0,9 | 3. | 52, 8 | 2. | 39 | 4. | 45 | 7. | 15 | 9. | 21 | 15. | 57 |
| 8 | Lun. | 20. | 57. | 8,1 | 3. | 53, 4 | 2. | 37 | 4. | 44 | 7. | 16 | 9. | 23 | 15. | 55 |
| 9 | Mar. | 20. | 53. | 14,7 | 3. | 54, 0 | 2. | 34 | 4. | 43 | 7. | 17 | 9. | 26 | 15. | 54 |
| 10 | Mer. | 20. | 49. | 20,7 | 3. | 54, 6 | 2. | 32 | 4. | 41 | 7. | 19 | 9. | 28 | 15. | 52 |
| 11 | Jov. | 20. | 45. | 26,1 | 3. | 55, 2 | 2. | 30 | 4. | 40 | 7. | 20 | 9. | 30 | 15. | 51 |
| 12 | Ven. | 20. | 41. | 30,9 | 3. | 55, 7 | 2. | 28 | 4. | 39 | 7. | 21 | 9. | 32 | 15. | 49 |
| 13 | Sat. | 20. | 37. | 35,2 | 3. | 56, 3 | 2. | 26 | 4. | 38 | 7. | 22 | 9. | 34 | 15. | 47 |
| 14 | Dom. | 20. | 33. | 38,9 | 3. | 56, 9 | 2. | 24 | 4. | 37 | 7. | 23 | 9. | 36 | 15. | 46 |
| 15 | Lun. | 20. | 29. | 42,0 | 3. | 57, 5 | 2. | 22 | 4. | 36 | 7. | 24 | 9. | 38 | 15. | 44 |
| 16 | Mar. | 20. | 25. | 44,5 | 3. | 58, 0 | 2. | 20 | 4. | 34 | 7. | 26 | 9. | 40 | 15. | 43 |
| 17 | Mer. | 20. | 21. | 46,5 | 3. | 58, 5 | 2. | 18 | 4. | 33 | 7. | 27 | 9. | 42 | 15. | 42 |
| 18 | Jov. | 20. | 17. | 48,0 | 3. | 59, 0 | 2. | 16 | 4. | 32 | 7. | 28 | 9. | 44 | 15. | 40 |
| 19 | Ven. | 20. | 13. | 49,0 | 3. | 59, 5 | 2. | 14 | 4. | 31 | 7. | 29 | 9. | 46 | 15. | 38 |
| 20 | Sat. | 20. | 9. | 49,5 | 4. | 0, 0 | 2. | 12 | 4. | 30 | 7. | 30 | 9. | 48 | 15. | 36 |
| 21 | Dom. | 20. | 5. | 49,5 | 4. | 0, 6 | 2. | 10 | 4. | 29 | 7. | 31 | 9. | 50 | 15. | 35 |
| 22 | Lun. | 20. | 1. | 48,9 | 4. | 1, 1 | 2. | 8 | 4. | 28 | 7. | 32 | 9. | 52 | 15. | 34 |
| 23 | Mar. | 19. | 57. | 47,8 | 4. | 1, 6 | 2. | 6 | 4. | 27 | 7. | 33 | 9. | 54 | 15. | 32 |
| 24 | Mer. | 19. | 53. | 46,2 | 4. | 2, 1 | 2. | 4 | 4. | 26 | 7. | 34 | 9. | 56 | 15. | 31 |
| 25 | Jov. | 19. | 49. | 44,1 | 4. | 2, 6 | 2. | 2 | 4. | 25 | 7. | 35 | 9. | 58 | 15. | 30 |
| 26 | Ven. | 19. | 45. | 41,5 | 4. | 3, 1 | 2. | 0 | 4. | 24 | 7. | 36 | 10. | 0 | 15. | 28 |
| 27 | Sat. | 19. | 41. | 38,4 | 4. | 3, 6 | 1. | 58 | 4. | 23 | 7. | 37 | 10. | 2 | 15. | 27 |
| 28 | Dom. | 19. | 37. | 34,8 | 4. | 4, 1 | 1. | 56 | 4. | 22 | 7. | 38 | 10. | 4 | 15. | 26 |
| 29 | Lun. | 19. | 33. | 30,7 | 4. | 4, 6 | 1. | 54 | 4. | 21 | 7. | 39 | 10. | 6 | 15. | 25 |
| 30 | Mar. | 19. | 29. | 26,1 | 4. | 5, 0 | 1. | 52 | 4. | 20 | 7. | 40 | 10. | 8 | 15. | 24 |
| 31 | Mer. | 19. | 25. | 21,1 | 4. | 5, 5 | 1. | 50 | 4. | 19 | 7. | 41 | 10. | 10 | 15. | 23 |

| Dies mensis | Dies hebdomadae | Longitudo Lunae Meridie | Longitudo Lunae media nocte | Latitudo Lunae Meridie | Latitudo Lunae med. noct. | Paral- laxis Lunae Meri- die | Paral- laxis Lunae media nocte |
|-------------|-----------------|-------------------------|-----------------------------|------------------------|---------------------------|--|--|
| | | S. G. M. S. | S. G. M. S. | G. M. S. | G. M. S. | M. S. | M. S. |
| 1 | Lun. | 10. 4. 23. 53 | 10. 11. 18. 24 | 1. 6. 22 A | 0. 30. 16 A | 58. 32 | 58. 48 |
| 2 | Mar. | 10. 18. 16. 36 | 10. 25. 18. 33 | 0. 6. 37 B | 0. 43. 40 | 59. 4 | 59. 19 |
| 3 | Mer. | 11. 2. 24. 11 | 11. 9. 33. 24 | 1. 20. 25 | 1. 56. 10 | 59. 33 | 59. 45 |
| 4 | Jov. | 11. 16. 45. 56 | 11. 24. 1. 24 | 2. 30. 20 | 3. 2. 13 | 59. 56 | 60. 4 |
| 5 | Ven. | 0. 1. 19. 31 | 0. 8. 39. 32 | 3. 31. 21 | 3. 57. 4 | 60. 10 | 60. 12 |
| 6 | Sat. | 0. 16. 0. 39 | 0. 23. 21. 58 | 4. 18. 53 | 4. 36. 22 | 60. 13 | 60. 9 |
| 7 | Dom. | 1. 0. 42. 48 | 1. 8. 2. 7 | 4. 49. 16 | 4. 57. 23 | 60. 2 | 59. 52 |
| 8 | Lun. | 1. 15. 18. 43 | 1. 22. 31. 38 | 5. 0. 34 | 4. 58. 55 | 59. 39 | 59. 23 |
| 9 | Mar. | 1. 29. 40. 6 | 2. 6. 43. 25 | 4. 52. 32 | 4. 41. 42 | 59. 4 | 58. 43 |
| 10 | Mer. | 2. 13. 40. 57 | 2. 20. 32. 23 | 4. 26. 52 | 4. 8. 25 | 58. 20 | 57. 56 |
| 11 | Jov. | 2. 27. 17. 19 | 3. 3. 55. 47 | 3. 46. 37 | 3. 22. 0 | 57. 31 | 57. 6 |
| 12 | Ven. | 3. 10. 27. 55 | 3. 16. 53. 58 | 2. 55. 7 | 2. 26. 23 | 56. 42 | 56. 18 |
| 13 | Sat. | 3. 23. 14. 8 | 3. 29. 28. 56 | 1. 56. 13 | 1. 25. 0 | 55. 56 | 55. 35 |
| 14 | Dom. | 4. 5. 38. 54 | 4. 11. 44. 40 | 0. 53. 11 | 0. 21. 6 B | 55. 17 | 55. 1 |
| 15 | Lun. | 4. 17. 46. 49 | 4. 23. 46. 4 | 0. 10. 56 A | 0. 42. 40 | 54. 46 | 54. 34 |
| 16 | Mar. | 4. 29. 43. 3 | 5. 5. 38. 30 | 1. 13. 35 | 1. 43. 37 | 54. 25 | 54. 19 |
| 17 | Mer. | 5. 11. 33. 4 | 5. 17. 27. 27 | 2. 12. 28 | 2. 39. 52 | 54. 15 | 54. 13 |
| 18 | Jov. | 5. 23. 22. 14 | 5. 29. 18. 5 | 3. 5. 35 | 3. 29. 20 | 54. 13 | 54. 16 |
| 19 | Ven. | 6. 5. 15. 24 | 6. 11. 14. 46 | 3. 50. 53 | 4. 9. 58 | 54. 22 | 54. 30 |
| 20 | Sat. | 6. 17. 16. 43 | 6. 23. 21. 36 | 4. 26. 24 | 4. 39. 54 | 54. 39 | 54. 50 |
| 21 | Dom. | 6. 29. 29. 36 | 7. 5. 40. 57 | 4. 50. 20 | 4. 57. 26 | 55. 2 | 55. 16 |
| 22 | Lun. | 7. 11. 55. 57 | 7. 18. 14. 38 | 5. 1. 3 | 5. 1. 1 | 55. 31 | 55. 46 |
| 23 | Mar. | 7. 24. 36. 57 | 8. 1. 2. 52 | 4. 57. 16 | 4. 49. 43 | 56. 2 | 56. 19 |
| 24 | Mer. | 8. 7. 32. 27 | 8. 14. 5. 28 | 4. 38. 20 | 4. 23. 10 | 56. 36 | 56. 51 |
| 25 | Jov. | 8. 20. 41. 47 | 8. 27. 21. 9 | 4. 4. 21 | 3. 42. 3 | 57. 8 | 57. 23 |
| 26 | Ven. | 9. 4. 3. 28 | 9. 10. 48. 31 | 3. 16. 28 | 2. 47. 55 | 57. 38 | 57. 52 |
| 27 | Sat. | 9. 17. 35. 59 | 9. 24. 25. 45 | 2. 16. 48 | 1. 43. 32 | 58. 5 | 58. 17 |
| 28 | Dom. | 10. 1. 17. 53 | 10. 8. 12. 10 | 1. 8. 30 | 0. 32. 15 A | 58. 29 | 58. 40 |
| 29 | Lun. | 10. 15. 8. 26 | 10. 22. 6. 35 | 0. 4. 44 B | 0. 41. 50 | 58. 49 | 58. 58 |
| 30 | Mar. | 10. 29. 6. 36 | 11. 6. 8. 30 | 1. 18. 27 | 1. 54. 0 | 59. 6 | 59. 12 |
| 31 | Mer. | 11. 13. 12. 13 | 11. 20. 17. 31 | 2. 27. 58 | 2. 59. 47. | 59. 18 | 59. 23 |

| Dies mensis | Dies hebdomadae | | Diameter horiz. Lunae Meridie | Diameter horiz. Lunae media nocte | Declinatio Lunae in Meridiano | Ortus Lunae | Transitus Lunae per Meridianum | Occasus Lunae |
|-------------|-----------------|--------|-------------------------------|-----------------------------------|-------------------------------|-------------|--------------------------------|---------------|
| | M. | S. | M. | S. | G. M. | H. M. | H. M. | H. M. |
| 1 | Lun. | 31. 57 | 32. 6 | 21. 19 A | 1. 7M | 5. 38M | 10. 16M | |
| 2 | Mar. | 32. 15 | 32. 23 | 16. 36 | 1. 38 | 6. 31 | 11. 32 | |
| 3 | Mer. | 32. 31 | 32. 38 | 10. 33 | 2. 3 | 7. 23 | 0. 53 V | |
| 4 | Jov. | 32. 43 | 32. 48 | 3. 57 A | 2. 26 | 8. 13 | 2. 12 | |
| 5 | Ven. | 32. 51 | 32. 53 | 2. 58 B | 2. 47 | 9. 3 | 3. 31 | |
| 6 | Sat. | 32. 53 | 32. 51 | 9. 46 | 3. 10 | 9. 54M | 4. 52 | |
| 7 | Dom. | 32. 47 | 32. 41 | 16. 0 | 3. 34 | 10. 47 | 6. 14 | |
| 8 | Lun. | 32. 34 | 32. 26 | 21. 14 | 4. 3 | 11. 42 | 7. 35 | |
| 9 | Mar. | 32. 16 | 32. 4 | 24. 55 | 4. 41 | 0. 41 V | 8. 58 | |
| 10 | Mer. | 31. 51 | 31. 38 | 27. 58 | 5. 24 | 1. 41 | 10. 3 | |
| 11 | Jov. | 31. 24 | 31. 11 | 27. 12 | 6. 17 | 2. 39 | 10. 58 | |
| 12 | Ven. | 30. 57 | 30. 44 | 25. 41 | 7. 17 | 3. 35 | 11. 47 | |
| 13 | Sat. | 30. 32 | 30. 21 | 22. 46 | 8. 31 | 4. 27 | * | |
| 14 | Dom. | 30. 11 | 30. 2 | 18. 51 | 9. 38 | 5. 16 | 0. 17M | |
| 15 | Lun. | 29. 54 | 29. 48 | 14. 10 | 10. 46 | 6. 1 | 0. 43 | |
| 16 | Mar. | 29. 43 | 29. 39 | 8. 58 | 11. 50 | 6. 43 | 1. 4 | |
| 17 | Mer. | 29. 37 | 29. 36 | 3. 33 B | 0. 54 V | 7. 22 | 1. 23 | |
| 18 | Jov. | 29. 36 | 29. 38 | 2. 2 A | 1. 56 | 8. 1 | 1. 38 | |
| 19 | Ven. | 29. 41 | 29. 45 | 7. 34 | 2. 59 | 8. 41 | 1. 55 | |
| 20 | Sat. | 29. 50 | 29. 56 | 12. 58 | 4. 6 | 9. 23 | 2. 13 | |
| 21 | Dom. | 30. 3 | 30. 11 | 17. 46 | 5. 13 | 10. 8 | 2. 30 | |
| 22 | Lun. | 30. 19 | 30. 28 | 21. 49 | 6. 21 | 10. 56 | 2. 53 | |
| 23 | Mar. | 30. 36 | 30. 45 | 25. 7 | 7. 31 | 11. 48 | 3. 23 | |
| 24 | Mer. | 30. 54 | 31. 3 | * 7 | 8. 38 | * 7 | 4. 1 | |
| 25 | Jov. | 31. 12 | 31. 20 | 26. 53 | 9. 38 | 0. 43M | 4. 46 | |
| 26 | Ven. | 31. 28 | 31. 36 | 27. 4 | 10. 29 | 1. 40 | 5. 43 | |
| 27 | Sat. | 31. 43 | 31. 50 | 25. 35 | 11. 7 | 2. 38 | 6. 51 | |
| 28 | Dom. | 31. 56 | 32. 1 | 22. 24 | 11. 40 | 3. 24 | 8. 5 | |
| 29 | Lun. | 32. 7 | 32. 12 | 17. 55 | * 7 | 4. 28 | 9. 22 | |
| 30 | Mar. | 32. 16 | 32. 20 | 12. 8 | 0. 7M | 5. 19 | 10. 41 | |
| 31 | Mer. | 32. 23 | 32. 25 | 5. 54 | 0. 29 | 6. 8 | 11. 59 | |

| <i>Dies mensis</i> | <i>Longitudo Planetarum</i> | <i>Latitudo Planetarum</i> | <i>Declinatio Planetarum</i> | <i>Ortus Planetarum</i> | <i>Transitus Planetarum per Meridianum</i> | <i>Occasus Planetarum</i> |
|--------------------|-----------------------------|----------------------------|------------------------------|-------------------------|--|---------------------------|
| | <i>S. G. M.</i> | <i>G. M.</i> | <i>G. M.</i> | <i>H. M.</i> | <i>H. M.</i> | <i>H. M.</i> |

SATURNUS.

| | | | | | | |
|----|-----------|---------|----------|----------|---------|----------|
| 1 | 10. 5. 24 | 0. 21 A | 19. 17 A | 1. 15 M | 5. 55 M | 10. 35 M |
| 7 | 10. 5. 30 | 0. 21 | 19. 16 | 0. 52 | 5. 32 | 10. 12 |
| 13 | 10. 5. 22 | 0. 22 | 19. 16 | 0. 29 | 5. 9 | 9. 49 |
| 19 | 10. 5. 31 | 0. 23 | 19. 17 | 0. 5 | 4. 45 | 9. 25 |
| 25 | 10. 5. 27 | 0. 14 | 19. 18 | 11. 41 V | 4. 21 | 9. 1 |

JUPITER.

| | | | | | | |
|----|----------|--------|--------|---------|---------|---------|
| 1 | 0. 2. 47 | 1. 7 A | 0. 3 B | 3. 33 M | 9. 36 M | 3. 39 V |
| 7 | 0. 4. 3 | 1. 8 | 0. 32 | 3. 12 | 9. 17 | 3. 22 |
| 13 | 0. 5. 16 | 1. 9 | 1. 0 | 2. 51 | 8. 58 | 3. 5 |
| 19 | 0. 6. 26 | 1. 10 | 1. 27 | 2. 30 | 8. 39 | 2. 48 |
| 25 | 0. 7. 24 | 1. 11 | 1. 53 | 2. 8 | 8. 19 | 2. 30 |

MARS.

| | | | | | | |
|----|------------|---------|---------|---------|--------|---------|
| 1 | 11. 9. 14 | 1. 35 A | 9. 37 A | 2. 46 M | 8. 9 M | 1. 32 V |
| 7 | 11. 13. 44 | 1. 39 | 7. 58 | 2. 32 | 8. 3 | 1. 34 |
| 13 | 11. 18. 12 | 1. 43 | 6. 17 | 2. 18 | 7. 56 | 1. 34 |
| 19 | 11. 22. 40 | 1. 46 | 4. 34 | 2. 4 | 7. 49 | 1. 34 |
| 25 | 11. 27. 6 | 1. 49 | 2. 51 | 1. 49 | 7. 41 | 1. 33 |

VENUS.

| | | | | | | |
|----|-----------|---------|----------|---------|---------|----------|
| 1 | 2. 16. 21 | 4. 50 B | 27. 35 B | 6. 10 M | 2. 22 V | 10. 34 V |
| 7 | 2. 17. 20 | 4. 33 | 27. 24 | 5. 52 | 2. 4 | 10. 16 |
| 13 | 2. 16. 57 | 3. 59 | 26. 48 | 5. 29 | 1. 39 | 9. 49 |
| 19 | 2. 15. 7 | 3. 6 | 25. 44 | 5. 6 | 1. 8 | 9. 10 |
| 25 | 2. 12. 4 | 1. 55 | 24. 11 | 4. 39 | 0. 31 | 8. 23 |

MERCURIUS.

| | | | | | | |
|----|----------|---------|----------|---------|----------|---------|
| 1 | 2. 2. 13 | 2. 39 B | 23. 14 B | 5. 36 M | 1. 23 V | 9. 10 V |
| 7 | 2. 6. 18 | 2. 31 | 23. 35 | 5. 28 | 1. 17 | 9. 6 |
| 13 | 2. 7. 23 | 1. 9 | 22. 43 | 5. 15 | 0. 59 | 8. 43 |
| 19 | 2. 5. 43 | 0. 26 A | 20. 53 | 4. 55 | 0. 29 | 8. 3 |
| 25 | 2. 8. 31 | 2. 9 | 18. 36 | 4. 26 | 11. 48 M | 7. 10 |

ECLIPSES SATELLITUM JOVIS.

| Dies mensis | I. Satelles. | | | Dies | II. Satelles. | | | Dies | III. Satelles. | | |
|----------------|--------------|-----|----|------|---------------|-----|----|------|----------------|-----|------|
| | Immerfiones | | | | Immerfiones | | | | Imers. Emerf. | | |
| | H. | M. | S. | | H. | M. | S. | | H. | M. | S. |
| 1 | 6 | 32. | 32 | 1 | 21. | 45. | 22 | 3 | 0. | 14. | 2 I |
| 4 | 1. | 1. | 15 | 5 | 11. | 4. | 6 | 3 | 3. | 1. | 35 E |
| 5 | 19. | 29. | 57 | 9 | 0. | 22. | 48 | 10 | 4. | 15. | 42 I |
| 7 | 13. | 58. | 36 | 12 | 13. | 41. | 21 | 10 | 7. | 2. | 0 E |
| 9 | 8. | 27. | 11 | 16 | 2. | 59. | 48 | 17 | 8. | 16. | 54 I |
| 11 | 2. | 55. | 46 | 19 | 16. | 18. | 10 | 17 | 11. | 1. | 52 E |
| 12 | 21. | 24. | 18 | 23 | 5. | 36. | 30 | 25 | 0. | 17. | 32 I |
| 14 | 15.* | 51. | 48 | 26 | 18. | 54. | 48 | 25 | 3. | 1. | 17 E |
| 16 | 10. | 21. | 15 | 30 | 8. | 12. | 58 | 31 | 16. | 17. | 40 I |
| 18 | 4. | 49. | 42 | | | | | 31 | 19. | 0. | 4 E |
| 19 | 23. | 18. | 6 | | | | | | | | |
| 21 | 17. | 46. | 30 | | | | | | | | |
| 23 | 12. | 14. | 50 | | | | | Dies | IV. Satelles. | | |
| 25 | 6. | 43. | 8 | | | | | | Imers. Emerf. | | |
| 27 | 1. | 11. | 24 | | | | | 14 | 23. | 34. | 20 I |
| 28 | 19. | 39. | 40 | | | | | 15 | 2. | 42. | 6 E |
| 29 | 14.* | 7. | 52 | | | | | 31 | 17. | 51. | 8 I |
| | | | | | | | | 31 | 20. | 50. | 14 E |

| Dies | Diameter Solis | Mora transitus Solis per Meridian. | Motus horarius Solis | Logarithmus distantiae Solis a terra posita media 10000 | Longitudo Nodi Lunae |
|------|-------------------|---|----------------------------|---|-------------------------|
| | M. S. | M. S. | M. S. | | S. G. M. |
| 1 | 31. 45. 9 | 2. 11. 6 | 2. 25. 3 | 5. 003718 | 10. 16. 56 |
| 4 | 31. 44. 8 | 2. 12. 1 | 2. 25. 1 | 5. 004093 | 10. 16. 46 |
| 7 | 31. 43. 7 | 2. 12. 6 | 2. 24. 9 | 5. 004392 | 10. 16. 37 |
| 10 | 31. 42. 5 | 2. 13. 1 | 2. 24. 7 | 5. 004680 | 10. 16. 27 |
| 13 | 31. 41. 1 | 2. 13. 6 | 2. 24. 5 | 5. 004955 | 10. 16. 18 |
| 16 | 31. 40. 0 | 2. 14. 1 | 2. 24. 3 | 5. 005217 | 10. 16. 8 |
| 19 | 31. 38. 9 | 2. 14. 6 | 2. 24. 1 | 5. 005465 | 10. 15. 59 |
| 22 | 31. 37. 8 | 2. 15. 0 | 2. 24. 0 | 5. 005700 | 10. 15. 49 |
| 25 | 31. 36. 8 | 2. 15. 4 | 2. 23. 9 | 5. 005918 | 10. 15. 40 |
| 28 | 31. 35. 9 | 2. 15. 8 | 2. 23. 8 | 5. 006121 | 10. 15. 30 |

POSITIONES SATELLITUM JOVIS

Oriens

4^h Mane

Occidens

| | Oriens | 4 ^h Mane | Occidens |
|----|--------|---------------------|----------|
| 1 | | ○ | |
| 2 | | ○ | |
| 3 | | ○ | |
| 4 | | ○ | |
| 5 | | ○ | |
| 6 | | ○ | |
| 7 | | ○ | |
| 8 | | ○ | |
| 9 | | ○ | |
| 10 | | ○ | |
| 11 | | ○ | |
| 12 | | ○ | |
| 13 | | ○ | |
| 14 | | ○ | |
| 15 | | ○ | |
| 16 | | ○ | |
| 17 | | ○ | |
| 18 | | ○ | |
| 19 | | ○ | |
| 20 | | ○ | |
| 21 | | ○ | |
| 22 | | ○ | |
| 23 | | ○ | |
| 24 | | ○ | |
| 25 | | ○ | |
| 26 | | ○ | |
| 27 | | ○ | |
| 28 | | ○ | |
| 29 | | ○ | |
| 30 | | ○ | |
| 31 | | ○ | |
| | | ○ | |

| Dies | Phaenomena & Observationes Solis | Dies | Phaenomena & Observationes Lunae | |
|------|---|------|---|--|
| | Sol in parallelo | | Luna | |
| 17 | Canceri culm. 3 ^h 50' | 2 | ad ♀ Piscium 16 ^h 0' | |
| 3 | Geminor. & α Arietis culm. 2 ^h 29', & 21 ^h 4' | 4 | ad 1. 2. ♀ Arietis 18 ^h 0' & 19 ^h 40' | |
| 4 | & α Geminorum culm. 1 ^h 9' & 1 ^h 17' | 6 | Novilunium 14 ^h 20' | |
| 5 | nodo Veneris | 7 | ad 3. informem Aurigae 6 ^h 30' | |
| 16 | Tauri culm. 21 ^h 50' | 8 | ad ♀ Geminorum 2 ^h 40' | |
| 25 | in signo Canceri 3 ^h 48' | 9 | ad α Geminorum 4 ^h 0' | |
| 30 | in nodo Jovis, item in Apogeo | 10 | ad ♀ praefepo Canceri 6 ^h 20' | |
| | | 12 | ad α Leonis 2 ^h 16' | |
| | | 13 | Apogea ad δ Leonis 8 ^h 40' | |
| | | 14 | Primus Quadrans ad ♀ Leonis 19 ^h 20' | |
| | | 16 | ad α Virginis 15 ^h 6' | |
| | | 19 | ad δ & ♀ Scorp. 17 ^h 57' & 18 ^h 40' | |
| | | 20 | ad α & ♀ Scorp. 7 ^h 12' & 10 ^h 32' | |
| | | 22 | Plenilun. 2 ^h 53' Imm. 12 ^h 30' | |
| | | | ad ♀ Sagittarii) Em. 13 ^h 44' | |
| | | 26 | Perigea ad δ Aquarii 7 ^h 32' | |
| | | 27 | ad α Capri 18 ^h 24' | |
| | | 27 | ad ♀ Aquarii 17 ^h 20' | |
| | | 28 | Ultimus Quadrans ad δ Piscium 18 ^h 15' | |
| | | 29 | ad ♀ Piscium 1 ^h 0' | |
| | | | <i>Planetae in parallelis fixarum</i> | |
| | | | Saturnus ♀ Scorpis, β & θ Ceti, α Librae | |
| | | | Jupiter ♀ Ceti, 7. δ Aquilae & ♀ Ophiuci, 13 ♀ Virg. & α Ceti, 30 ♀ Serpentis | |
| | | | Mars 2 ♀ Ceti & δ Oriona., 3 ♀ Virg., 4 ♀ Antinoi, 5 & ♀ Virg., 10 α Pisc., 13 ♀ Ceti & δ Aqu. & ♀ Ophiu., 16 α Ceti & ♀ Serp., 21. δ Virg. & β Ophiu., 25 Proc., 30 α Serp. Venus 1 β Hero., 4 ♀ Leo., & ζ Tauri, 6 Arcturi, 9 ♀ Hero. & ♀ Bootis, 14 ♀ Arietis, 18 α Sagittae, 30 ♀ Tauri, 25 ♀ Leonis & ♀ Gemin., 30 ♀ Serp. Mercur. 1 ♀ Gemin., 7 & β Serp., 6 Aldebar., 7 β Leon., 13 ♀ Gem., 7 ♀ Serp., 16 ♀ Tauri, α Sagittae, 19 ♀ Ariet., 22 ♀ Canceri, 26 Arct., 30 β Hero. | |
| | Phaenomena & Observationes Planetarum | | | |
| 5 | Venus ad 1. 2. ♀ Tauri diff. lat. 1.° 35' & 1.° 43' | | | |
| 6 | Venus ad 2. 3. ♀ Tauri diff. lat. 1.° 23' & 1.° 29' | | | |
| 11 | Venus ad α Tauri diff. lat. 53' | | | |
| 12 | Mars ad Jovis diff. lat. 41' | | | |
| | Mercurius ad α Tauri 2.° 34' | | | |
| 14 | Mercurius ad Veneris diff. lat. 1.° 15' | | | |
| | Mercurius ad ♀ Tauri diff. lat. 1.° 49' | | | |
| 16 | Mercurius ad δ Tauri d. l. 23' | | | |
| 18 | Mercurius in elongat. max. matutina | | | |
| | Mercurius ad α Tauri diff. lat. 48' | | | |
| 19 | Mercurius ad α Capri diff. lat. 42' | | | |
| 23 | Mercurius ad i Tauri d. l. 1.° 6' | | | |
| 25 | Mercurius ad i Tauri d. l. 1.° 8' | | | |
| 26 | Mercurius ad l Tauri d. l. 30' | | | |
| 28 | Mercurius ad n Tauri d. l. 36' | | | |

| Dies mensis | Dies hebdomadae | Æquatio | Diffe- | Longitudo | Ascensio recta | Declinatio |
|-------------|-----------------|---|------------------|---------------|----------------|-------------------|
| | | subtrahenda a tempore vero ut habeatur medium | rentia | Solis | Solis | Solis Borealis |
| | | M. S. | S. | S. G. M. S. | G. M. S. | G. M. S. |
| 1 | Jov | 2. 34, 3 | 8, 8 | 2. 11. 14. 34 | 69. 41. 5 | 22. 9. 17 |
| 2 | Ven. | 2. 25, 0 | 9, 3 | 2. 12. 11. 59 | 70. 42. 32 | 22. 17. 2 |
| 3 | Sat. | 2. 15, 4 | 9, 6 | 2. 13. 9. 24 | 71. 44. 5 | 22. 24. 23 |
| 4 | Dom | 2. 5, 4 | 10, 0 | 2. 14. 6. 48 | 72. 45. 47 | 22. 31. 21 |
| 5 | Lun. | 1. 55, 0 | 10, 4 | 2. 15. 4. 12 | 73. 47. 29 | 22. 37. 56 |
| 6 | Mar. | 1. 44, 3 | 10, 7 | 2. 16. 1. 35 | 74. 49. 19 | 22. 44. 7 |
| 7 | Mer. | 1. 33, 2 | 11, 1 | 2. 16. 58. 58 | 75. 51. 14 | 22. 49. 54 |
| 8 | Jov. | 1. 21, 8 | 11, 4 | 2. 17. 56. 20 | 76. 53. 13 | 22. 55. 17 |
| 9 | Ven. | 1. 10, 1 | 11, 7 | 2. 18. 53. 41 | 77. 55. 16 | 23. 0. 16 |
| 10 | Sat. | 0. 58, 2 | 11, 9 | 2. 19. 51. 1 | 78. 57. 23 | 23. 4. 50 |
| 11 | Dom | 0. 46, 2 | 12, 0 | 2. 20. 48. 21 | 79. 59. 33 | 23. 9. 0 |
| 12 | Lun. | 0. 34, 1 | 12, 1 | 2. 21. 45. 40 | 81. 1. 46 | 23. 12. 46 |
| 13 | Mar. | 0. 21, 8 | 12, 3 | 2. 22. 42. 58 | 82. 4. 1 | 23. 16. 7 |
| 14 | Mer. | 0. 9, 3 | 12, 5 | 2. 23. 40. 15 | 83. 6. 18 | 23. 19. 4 |
| 15 | Jov. | 0. 3, 4 | 12, 7 | 2. 24. 37. 31 | 84. 8. 37 | 23. 21. 36 |
| | | | 12, 8 | | | |
| 16 | Ven | 0. 16, 2 | addenda 12, 9 | 2. 25. 34. 46 | 85. 10. 57 | 23. 23. 43 |
| 17 | Sat | 0. 29, 1 | | 2. 26. 32. 1 | 86. 13. 18 | 23. 25. 26 |
| 18 | Dom | 0. 41, 9 | 12, 8 | 2. 27. 29. 15 | 87. 15. 40 | 23. 26. 44 |
| 19 | Lun. | 0. 54, 8 | 12, 9 | 2. 28. 26. 28 | 88. 18. 2 | 23. 27. 37 |
| 20 | Mar. | 1. 7, 7 | 12, 9 | 2. 29. 23. 40 | 89. 20. 24 | 23. 28. 5 |
| | | | 12, 8 | | | |
| 21 | Mer. | 1. 20, 5 | | 3. 0. 20. 52 | 90. 22. 45 | 23. 28. 8 |
| 22 | Jov. | 1. 33, 3 | 12, 8 | 3. 1. 18. 3 | 91. 25. 5 | 23. 27. 46 |
| 23 | Ven. | 1. 46, 0 | 12, 7 | 3. 2. 15. 14 | 92. 27. 25 | 23. 27. 0 |
| 24 | Sat. | 1. 58, 6 | 12, 6 | 3. 3. 12. 25 | 93. 29. 44 | 23. 25. 49 |
| 25 | Dom | 2. 11, 2 | 12, 6 | 3. 4. 9. 36 | 94. 32. 1 | 23. 24. 14 |
| | | | 12, 5 | | | |
| 26 | Lun. | 2. 23, 7 | | 3. 5. 6. 47 | 95. 34. 17 | 23. 22. 14 |
| 27 | Mar. | 2. 36, 1 | 12, 4 | 3. 6. 3. 58 | 96. 36. 31 | 23. 19. 49 |
| 28 | Mer. | 2. 48, 3 | 12, 2 | 3. 7. 1. 10 | 97. 38. 43 | 23. 16. 59 |
| 29 | Jov. | 3. 0, 3 | 12, 0 | 3. 7. 58. 22 | 98. 40. 52 | 23. 13. 45 |
| 30 | Ven. | 3. 12, 1 | 11, 8 | 3. 8. 55. 34 | 99. 42. 58 | 23. 10. 6 |
| | | | 11, 6 | | | |

| Dies mensis | Dies hebdomadae | Distantia señionis Y a Sole | | | Diffe- rentia | | Ini- tium Crepu- sculi | | Ortus Centri Solis | | Occa- sus Centri Solis | | Finis Crepu- sculi | | Hora Italica Meri- diei | |
|-------------|-----------------|-----------------------------------|-----|------|------------------|------|---------------------------------|----|--------------------------|----|---------------------------------|----|--------------------------|----|----------------------------------|----|
| | | H. | M. | S. | M. | S. | H. | M. | H. | M. | H. | M. | H. | M. | H. | M. |
| 1 | Jov. | 19. | 21. | 15,7 | 4. | 5, 8 | 1. | 48 | 4. | 19 | 7. | 41 | 10. | 12 | 15. | 22 |
| 2 | Ven. | 19. | 17. | 9,9 | 4. | 6, 2 | 1. | 46 | 4. | 18 | 7. | 42 | 10. | 14 | 15. | 21 |
| 3 | Sat. | 19. | 13. | 3,7 | 4. | 6, 6 | 1. | 44 | 4. | 18 | 7. | 42 | 10. | 16 | 15. | 20 |
| 4 | Dom. | 19. | 8. | 57,1 | 4. | 7, 0 | 1. | 43 | 4. | 17 | 7. | 43 | 10. | 17 | 15. | 19 |
| 5 | Lun. | 19. | 4. | 50,1 | 4. | 7, 4 | 1. | 42 | 4. | 16 | 7. | 44 | 10. | 18 | 15. | 18 |
| 6 | Mar. | 19. | 0. | 42,2 | 4. | 7, 7 | 1. | 41 | 4. | 16 | 7. | 44 | 10. | 19 | 15. | 17 |
| 7 | Mer. | 18. | 56. | 35,0 | 4. | 7, 9 | 1. | 40 | 4. | 15 | 7. | 45 | 10. | 20 | 15. | 16 |
| 8 | Jov. | 18. | 52. | 27,1 | 4. | 8, 2 | 1. | 39 | 4. | 15 | 7. | 45 | 10. | 21 | 15. | 16 |
| 9 | Ven. | 18. | 48. | 18,9 | 4. | 8, 4 | 1. | 38 | 4. | 14 | 7. | 46 | 10. | 22 | 15. | 15 |
| 10 | Sat. | 18. | 44. | 10,5 | 4. | 8, 6 | 1. | 37 | 4. | 14 | 7. | 46 | 10. | 23 | 15. | 14 |
| 11 | Dom. | 18. | 40. | 1,9 | 4. | 8, 8 | 1. | 36 | 4. | 14 | 7. | 46 | 10. | 24 | 15. | 14 |
| 12 | Lun. | 18. | 35. | 53,1 | 4. | 9, 0 | 1. | 35 | 4. | 13 | 7. | 47 | 10. | 25 | 15. | 13 |
| 13 | Mar. | 18. | 31. | 44,1 | 4. | 9, 2 | 1. | 34 | 4. | 13 | 7. | 47 | 10. | 26 | 15. | 13 |
| 14 | Mer. | 18. | 27. | 34,9 | 4. | 9, 3 | 1. | 34 | 4. | 13 | 7. | 47 | 10. | 26 | 15. | 13 |
| 15 | Jov. | 18. | 23. | 25,6 | 4. | 9, 4 | 1. | 33 | 4. | 13 | 7. | 47 | 10. | 27 | 15. | 13 |
| 16 | Ven. | 18. | 19. | 16,2 | 4. | 9, 4 | 1. | 33 | 4. | 13 | 7. | 47 | 10. | 27 | 15. | 13 |
| 17 | Sat. | 18. | 15. | 6,8 | 4. | 9, 5 | 1. | 32 | 4. | 12 | 7. | 48 | 10. | 28 | 15. | 12 |
| 18 | Dom. | 18. | 10. | 57,3 | 4. | 9, 5 | 1. | 32 | 4. | 12 | 7. | 48 | 10. | 28 | 15. | 12 |
| 19 | Lun. | 18. | 6. | 47,8 | 4. | 9, 4 | 1. | 31 | 4. | 12 | 7. | 48 | 10. | 29 | 15. | 12 |
| 20 | Mar. | 18. | 2. | 38,4 | 4. | 9, 4 | 1. | 31 | 4. | 12 | 7. | 48 | 10. | 29 | 15. | 12 |
| 21 | Mer. | 17. | 58. | 29,0 | 4. | 9, 3 | 1. | 31 | 4. | 12 | 7. | 48 | 10. | 29 | 15. | 12 |
| 22 | Jov. | 17. | 54. | 19,7 | 4. | 9, 3 | 1. | 31 | 4. | 12 | 7. | 48 | 10. | 29 | 15. | 12 |
| 23 | Ven. | 17. | 50. | 10,4 | 4. | 9, 3 | 1. | 32 | 4. | 12 | 7. | 48 | 10. | 28 | 15. | 12 |
| 24 | Sat. | 17. | 46. | 1,1 | 4. | 9, 2 | 1. | 32 | 4. | 12 | 7. | 48 | 10. | 28 | 15. | 12 |
| 25 | Dom. | 17. | 41. | 51,9 | 4. | 9, 1 | 1. | 32 | 4. | 12 | 7. | 48 | 10. | 28 | 15. | 12 |
| 26 | Lun. | 17. | 37. | 42,8 | 4. | 8, 9 | 1. | 32 | 4. | 12 | 7. | 47 | 10. | 27 | 15. | 13 |
| 27 | Mar. | 17. | 32. | 33,9 | 4. | 8, 8 | 1. | 33 | 4. | 12 | 7. | 47 | 10. | 27 | 15. | 12 |
| 28 | Mer. | 17. | 29. | 25,1 | 4. | 8, 6 | 1. | 34 | 4. | 13 | 7. | 47 | 10. | 26 | 15. | 14 |
| 29 | Jov. | 17. | 25. | 16,5 | 4. | 8, 4 | 1. | 34 | 4. | 13 | 7. | 47 | 10. | 26 | 15. | 13 |
| 30 | Ven. | 17. | 21. | 8,1 | 4. | 8, 2 | 1. | 35 | 4. | 13 | 7. | 47 | 10. | 25 | 15. | 13 |

| Dies mensis | Dies hebdomadae | Longitudo Lunae Meridie | | | | Longitudo Lunae media nocte | | | | Latitudo Lunae Meridie | | | Latitudo Lunae med. noct. | | | Rarat. laxis Meridie | | Paral. laxis Lunae media nocte | | | |
|-------------|-----------------|-------------------------|-----|-----|----|-----------------------------|-----|-----|----|------------------------|-----|----|---------------------------|----|-----|----------------------|-----|--------------------------------|-----|-----|----|
| | | S | G | M | S. | S. | G | M | S. | G. | M. | S. | G | M | S. | M. | S. | M. | S. | | |
| 1 | Jov | 11. | 27. | 24 | 5 | 0. | 4. | 31. | 48 | 3. | 28. | 32 | B | 3. | 54 | 55 | 59. | 26. | 59. | 28 | |
| 2 | Ven | 0 | 11. | 40. | 33 | 0. | 18. | 49. | 46 | 4. | 17. | 37 | | 4 | 35. | 38. | 59. | 28. | 59. | 26 | |
| 3 | Sat. | 0 | 25 | 58. | 59 | 1. | 3. | 7. | 43 | 4. | 49. | 38 | | 4. | 59. | 6 | 59. | 23. | 59. | 18 | |
| 4 | Dom | 1 | 10. | 15. | 29 | 1. | 17. | 21 | 35 | 5. | 3. | 53 | | 5. | 3. | 58 | 59. | 10. | 59. | 0 | |
| 5 | Lun. | 1. | 24. | 25. | 20 | 2. | 1. | 26. | 8 | 4 | 59. | 24 | | 4. | 50. | 23 | 58. | 49. | 58. | 25 | |
| 6 | Mar. | 2. | 8. | 23. | 23 | 2. | 15. | 16 | 40 | 4. | 37. | 2 | | 4. | 19. | 45 | 58. | 19. | 58. | 2 | |
| 7 | Mer. | 2. | 22. | 5. | 25 | 2. | 28. | 49. | 18 | 3. | 58. | 56 | | 4. | 35. | 1 | 57. | 44. | 54. | 25 | |
| 8 | Jov. | 3 | 5. | 28 | 5 | 3. | 12. | 1. | 40 | 3. | 8. | 24 | | 3. | 39. | 33 | 57. | 4. | 56. | 4 | |
| 9 | Ven. | 3 | 18. | 29 | 59 | 3. | 24. | 53. | 10 | 2. | 9. | 0 | | 1. | 37. | 12 | 56. | 24. | 57. | 5 | |
| 10 | Sat. | 4. | 1. | 11. | 27 | 4. | 7. | 25. | 9 | 1. | 4. | 33 | | 0. | 31. | 28 | B | 55. | 45 | 55. | 27 |
| 11 | Dom | 4. | 13. | 34. | 32 | 4. | 19. | 40. | 8 | 0 | 1 | 39 | A | 0. | 34. | 28 | 55. | 10. | 54. | 56 | |
| 12 | Lun. | 4. | 25. | 42 | 27 | 5. | 1. | 42. | 5 | 1. | 6. | 35 | | 1. | 37. | 44 | 54. | 44. | 54. | 34 | |
| 13 | Mar. | 5. | 7. | 39. | 37 | 5. | 13. | 35. | 42 | 2. | 7. | 40 | | 2. | 36. | 6 | 54. | 26. | 54. | 20 | |
| 14 | Mer. | 5. | 19. | 30. | 58 | 5. | 25. | 26. | 6 | 3 | 2. | 48 | | 3. | 27. | 31 | 54. | 17. | 54. | 17 | |
| 15 | Jov | 6. | 1. | 21. | 39 | 6. | 7. | 18. | 16 | 3. | 50. | 3 | | 4. | 10. | 9 | 54. | 19. | 54. | 23 | |
| 16 | Ven. | 6. | 13. | 16. | 43 | 6. | 19. | 17. | 34 | 4. | 27 | 39 | | 4. | 42. | 18 | 54. | 30. | 54. | 39 | |
| 17 | Sat. | 6. | 25. | 31. | 7 | 7. | 1 | 27. | 48 | 4. | 53. | 54 | | 5. | 2. | 14 | 54. | 51 | 55. | 5 | |
| 18 | Dom | 7 | 7. | 38. | 23 | 7. | 13. | 53. | 11 | 5. | 7. | 11 | | 5 | 8. | 34 | 55. | 21 | 55. | 38 | |
| 19 | Lun. | 7. | 20. | 12 | 25 | 7. | 26. | 36. | 16 | 5. | 6. | 13 | | 5. | 0 | 1 | 55. | 56 | 56. | 16 | |
| 20 | Mar | 8. | 3 | 4. | 57 | 8 | 9. | 38. | 24 | 1 | 49. | 55 | | 4. | 35 | 55 | 56. | 37 | 56. | 57 | |
| 21 | Mer. | 8. | 16 | 16. | 24 | 8. | 22 | 58. | 28 | 4. | 18. | 0 | | 3 | 56. | 20 | 57. | 17 | 57. | 37 | |
| 22 | Jov. | 8. | 29. | 45. | 33 | 9. | 6. | 36 | 15 | 3. | 31 | 8 | | 3. | 2 | 40 | 57. | 56 | 58. | 14 | |
| 23 | Ven. | 9 | 13. | 30. | 31 | 9 | 30. | 27 | 53 | 2. | 31 | 10 | | 1 | 57. | 8 | 58. | 31 | 58. | 46 | |
| 24 | Sat | 9 | 27. | 28. | 1 | 10 | 4. | 30 | 24 | 2 | 21. | 4 | | 0. | 43. | 34 | 58. | 59 | 59. | 9 | |
| 25 | Dom | 10. | 11. | 34. | 40 | 10. | 18. | 40. | 22 | 0. | 5. | 12 | A | 6 | 33. | 21 | B | 59. | 12 | 59. | 23 |
| 26 | Lun. | 10. | 25. | 46. | 59 | 11. | 2. | 54. | 11 | 1. | 11. | 36 | | 1. | 48. | 48 | 59. | 27 | 59. | 29 | |
| 27 | Mar. | 11 | 10. | 1. | 44 | 11. | 17. | 9. | 18 | 7. | 24. | 19 | | 2. | 57. | 34 | 59. | 30 | 59. | 29 | |
| 28 | Mer. | 11. | 24 | 15. | 30 | 0 | 1. | 23. | 7 | 3. | 28. | 2 | | 3. | 55. | 15 | 59. | 26 | 59. | 22 | |
| 29 | Jov. | 0. | 8. | 28 | 55 | 0 | 15. | 33. | 40 | 4. | 18. | 50 | | 4 | 38. | 25 | 59. | 16 | 59. | 9 | |
| 30 | Ven. | 0. | 22. | 37. | 10 | 0. | 29. | 39. | 9 | 4. | 53. | 44 | | 5. | 4 | 28 | 59. | 2 | 59. | 53 | |

| Dies hebdomadae Dies mensis | Diameter horiz. Lunae Meridie | | Diameter horiz. Lunae media noctē | | Declinatio Lunae in Meri- diano | | Ortus Lunae | Transitus Lunae per Meri- dianum | Occasus Lunae | | | |
|--------------------------------|--|----|---|----|--|------|----------------|---|------------------|------|-----|------|
| | M. | S. | M. | S. | G. | M. | H. | M. | H. | M. | | |
| 1 Jov. | 32. | 27 | 32. | 28 | 0. | 53 B | 0. | 50M | 6. | 56M | 1. | 14 V |
| 2 Ven. | 32. | 28 | 32. | 27 | 7. | 28 | 1. | 14 | 7. | 45 | 2. | 32 |
| 3 Sat. | 32. | 26 | 32. | 23 | 13. | 44 | 1. | 23 | 8. | 35 | 3. | 51 |
| 4 Dom. | 32. | 19 | 32. | 13 | 19. | 11 | 1. | 54 | 9. | 28 | 5. | 12 |
| 5 Lun. | 32. | 7 | 32. | 0 | 23. | 32 | 2. | 31 | 10. | 24 | 6. | 32 |
| 6 Mar. | 31. | 51 | 31. | 41 | 26. | 18 | 3. | 10 | 11. | 23 Y | 7. | 46 |
| 7 Mer. | 31. | 31 | 31. | 21 | 27. | 11 | 4. | 9 | 0. | 22 | 8. | 44 |
| 8 Jov. | 31. | 11 | 31. | 0 | 26. | 23 | 5. | 6 | 1. | 20 | 9. | 34 |
| 9 Ven. | 30. | 48 | 30. | 37 | 24. | 2 | 6. | 11 | 2. | 15 | 10. | 15 |
| 10 Sat. | 30. | 26 | 30. | 16 | 20. | 28 | 7. | 19 | 3. | 5 | 10. | 42 |
| 11 Dom. | 30 | 7 | 29. | 59 | 16. | 1 | 8. | 26 | 3. | 51 | 11. | 5 |
| 12 Lun. | 29. | 53 | 29. | 48 | 11. | 0 | 9. | 27 | 4. | 34 | 11. | 24 |
| 13 Mar. | 29. | 42 | 29. | 40 | 5. | 36 | 10. | 38 | 5. | 14 | 11. | 38 |
| 14 Mer. | 29. | 38 | 29. | 38 | 0. | 1 B | 11. | 40 | 5. | 53 | 11. | 54 |
| 15 Jov. | 29. | 29 | 29. | 41 | 5. | 32 A | 0. | 43 V | 6. | 32 | ? | ? |
| 16 Ven. | 29. | 45 | 29. | 59 | 10. | 55 | 1. | 47 | 7. | 13 | 0. | 11M |
| 17 Sat. | 29. | 56 | 30. | 4 | 15. | 58 | 2. | 52 | 7. | 56 | 0. | 29 |
| 18 Dom. | 30. | 12 | 30. | 22 | 20. | 23 | 3. | 59 | 8. | 42 | 0. | 51 |
| 19 Lun. | 30. | 32 | 30. | 42 | 24. | 1 | 5. | 9 | 9. | 32 | 1. | 17 |
| 20 Mar. | 30. | 55 | 31. | 6 | 26. | 21 | 6. | 18 | 10. | 27 | 1. | 42 |
| 21 Mer. | 31. | 17 | 31. | 28 | 27. | 13 | 7. | 22 | 11. | 24 | 2. | 33 |
| 22 Jov. | 31. | 38 | 31. | 48 | * | ? | 8. | 16 | * | * | 3. | 26 |
| 23 Ven. | 31. | 57 | 32. | 5 | 26. | 18 | 9. | 0 | 0. | 23M | 4. | 32 |
| 24 Sat. | 32. | 12 | 32. | 18 | 23. | 37 | 9. | 36 | 1. | 21 | 5. | 48 |
| 25 Dom. | 32. | 23 | 32. | 26 | 19. | 24 | 10. | 6 | 2. | 17 | 7. | 4 |
| 26 Lun. | 32. | 28 | 32. | 29 | 14. | 0 | 10. | 27 | 3. | 10 | 8. | 24 |
| 27 Mar. | 32. | 49 | 32. | 29 | 7. | 42 | 10. | 49 | 4. | 0 | 9. | 43 |
| 28 Mer. | 32. | 27 | 32. | 26 | 1. | 5 A | 11. | 11 | 4. | 49 | 10. | 52 |
| 29 Jov. | 32. | 22 | 32. | 18 | 5. | 41 A | 11. | 33 | 5. | 38 | 0. | 12 V |
| 30 Ven. | 32. | 14 | 32. | 9 | 12. | 0 | 11. | 59 | 6. | 27 | 1. | 38 |

| <i>Dies mensis</i> | <i>Longitudo Planetarum</i> | <i>Latitudo Planetarum</i> | <i>Declinatio Planetarum</i> | <i>Ortus Planetarum</i> | <i>Transitus Planetarum per Meridianum</i> | <i>Occasus Planetarum</i> |
|--------------------|-----------------------------|----------------------------|------------------------------|-------------------------|--|---------------------------|
| | <i>S. G. M.</i> | <i>G. M.</i> | <i>G. M.</i> | <i>H. M.</i> | <i>H. M.</i> | <i>H. M.</i> |

SATURNUS.

| | | | | | | |
|----|-----------|---------|----------|----------|---------|---------|
| 1 | 10. 5. 20 | 0. 24 A | 19. 22 A | 11. 11 V | 3. 51 M | 8. 31 M |
| 7 | 10. 5. 8 | 0. 25 | 19. 25 | 10. 47 | 3. 26 | 8. 5 |
| 13 | 10. 4. 53 | 0. 26 | 19. 29 | 10. 21 | 3. 0 | 7. 39 |
| 19 | 10. 4. 36 | 0. 27 | 19. 34 | 9. 55 | 2. 34 | 7. 13 |
| 25 | 10. 4. 16 | 0. 27 | 19. 40 | 9. 30 | 2. 8 | 6. 46 |

JUPITER.

| | | | | | | |
|----|-----------|---------|---------|---------|---------|--------|
| 1 | 0. 8. 49 | 1. 12 A | 2. 22 B | 1. 43 M | 7. 55 M | 2. 7 V |
| 7 | 0. 9. 48 | 1. 13 | 2. 45 | 1. 20 | 7. 34 | 1. 48 |
| 13 | 0. 10. 42 | 1. 15 | 3. 5 | 0. 57 | 7. 12 | 1. 27 |
| 19 | 0. 11. 32 | 1. 16 | 3. 23 | 0. 33 | 6. 50 | 1. 7 |
| 25 | 0. 12. 17 | 1. 18 | 3. 39 | 0. 10 | 6. 28 | 0. 46 |

MARS.

| | | | | | | |
|----|-----------|---------|---------|---------|---------|---------|
| 1 | 0. 2. 18 | 1. 52 A | 0. 47 A | 1. 34 M | 7. 34 M | 1. 34 V |
| 7 | 0. 6. 39 | 1. 54 | 0. 55 B | 1. 19 | 7. 25 | 1. 31 |
| 13 | 0. 11. 0 | 1. 56 | 2. 36 | 1. 93 | 7. 16 | 1. 29 |
| 19 | 0. 15. 17 | 1. 57 | 4. 14 | 0. 47 | 7. 7 | 1. 27 |
| 25 | 0. 19. 31 | 1. 58 | 5. 50 | 0. 32 | 6. 58 | 1. 24 |

VENUS.

| | | | | | | |
|----|----------|---------|----------|---------|----------|---------|
| 1 | 2. 7. 48 | 0. 19 B | 21. 58 B | 3. 59 M | 11. 40 M | 7. 21 V |
| 7 | 2. 4. 24 | 1. 5 A | 20. 0 | 3. 32 | 11. 3 | 6. 34 |
| 13 | 2. 2. 0 | 2. 15 | 18. 24 | 3. 8 | 10. 30 | 5. 52 |
| 19 | 2. 0. 57 | 3. 10 | 17. 18 | 2. 44 | 10. 9 | 5. 16 |
| 25 | 2. 1. 19 | 3. 48 | 16. 45 | 2. 26 | 9. 40 | 4. 54 |

MERCURIUS.

| | | | | | | |
|----|-----------|---------|----------|---------|----------|---------|
| 1 | 1. 19. 28 | 3. 38 A | 16. 31 B | 2. 57 M | 10. 10 M | 5. 23 V |
| 7 | 1. 29. 2 | 4. 8 | 15. 56 | 3. 34 | 10. 45 | 5. 56 |
| 13 | 2. 1. 17 | 3. 57 | 16. 33 | 3. 18 | 10. 31 | 5. 44 |
| 19 | 2. 6. 6 | 3. 16 | 18. 8 | 3. 8 | 10. 28 | 5. 48 |
| 25 | 2. 13. 15 | 2. 14 | 20. 12 | 3. 2 | 10. 33 | 6. 4 |

ECLIPSES SATELLITUM JOVIS.

| <i>Dies mensis</i> | I. Satelles. | | | <i>Dies</i> | II. Satelles. | | | <i>Dies</i> | III. Satelles. | | |
|--------------------|--------------------|-----------|-----------|-------------|--------------------|-----------|-----------|-------------|-----------------------|-----------|-----------|
| | <i>Immerfiones</i> | | | | <i>Immerfiones</i> | | | | <i>Imersf. Emerf.</i> | | |
| | <i>H.</i> | <i>M.</i> | <i>S.</i> | | <i>H.</i> | <i>M.</i> | <i>S.</i> | | <i>H.</i> | <i>M.</i> | <i>S.</i> |
| 1 | 8 | 36. | 6 | 2 | 21. | 30. | 54 | 7 | 20. | 17. | 27 I |
| 3 | 3. | 4. | 14 | 6 | 10. | 48. | 54 | 7 | 22. | 58. | 36 E |
| 4 | 21. | 32. | 22 | 10 | 0. | 6. | 51 | 15 | 0. | 16. | 54 I |
| 6 | 16. | 0. | 30 | 13 | 13. ^v | 14. | 46 | 15 | 2. | 56. | 44 E |
| 8 | 10. | 28. | 36 | 17 | 2. | 42. | 39 | 22 | 4. | 16. | 18 I |
| 10 | 4. | 56. | 40 | 20 | 16. | 0. | 29 | 22 | 7. | 14. | 49E |
| 11 | 23. | 24. | 44 | 24 | 5. | 18. | 22 | 29 | 8. | 15. | 42 I |
| 13 | 17. | 52. | 48 | 27 | 18. | 36. | 18 | 29 | 10. | 52. | 51 E |
| 15 | 12. | 20. | 51 | | | | | | | | |
| 17 | 6. | 48. | 54 | | | | | | | | |
| 19 | 1. | 16. | 57 | | | | | | | | |
| 20 | 19. | 45. | 0 | | | | | | | | |
| 22 | 14. ^v | 13. | 3 | | | | | <i>Dies</i> | IV. Satelles. | | |
| 24 | 8. | 41. | 6 | | | | | | <i>Imersf. Emerf.</i> | | |
| 26 | 3. | 9. | 9 | | | | | 17 | 12. | 7. | 0 I |
| 27 | 21. | 37. | 12 | | | | | 17 | 14. ^v | 56. | 48 E |
| 29 | 16. | 5. | 15 | | | | | | | | |

| <i>Dies</i> | <i>Diameter Solis</i> | <i>Mora transitus Solis per Meridian.</i> | <i>Motus horarius Solis</i> | <i>Logarithmus distantiae Solis a terra posita media 100000</i> | <i>Longitudo Nodi Lunae</i> |
|-------------|-----------------------|---|-----------------------------|---|-----------------------------|
| | <i>M. S.</i> | <i>M. S.</i> | <i>M. S.</i> | | <i>S. G. M.</i> |
| 1 | 31. 34, 8 | 2. 16, 4 | 2. 23, 7 | 5. 006368 | 10. 15. 18 |
| 4 | 31. 34, 2 | 2. 16, 7 | 2. 23, 5 | 5. 006534 | 10. 15. 8 |
| 7 | 31. 33, 6 | 2. 16, 9 | 2. 23, 4 | 5. 006684 | 10. 14. 58 |
| 10 | 31. 33, 0 | 2. 17, 1 | 2. 23, 3 | 5. 006815 | 10. 14. 48 |
| 13 | 31. 33, 4 | 2. 17, 2 | 2. 23, 2 | 5. 006928 | 10. 14. 39 |
| 16 | 31. 31, 9 | 2. 17, 3 | 2. 23, 1 | 5. 007026 | 10. 14. 29 |
| 19 | 31. 31, 6 | 2. 17, 4 | 2. 23, 0 | 5. 007105 | 10. 14. 26 |
| 22 | 31. 31, 3 | 2. 17, 4 | 2. 23, 0 | 5. 007172 | 10. 14. 19 |
| 25 | 31. 31, 1 | 2. 17, 4 | 2. 23, 0 | 5. 007207 | 10. 14. 1 |
| 28 | 31. 31, 0 | 2. 17, 3 | 2. 23, 0 | 5. 007220 | 10. 13. 53 |

POSITIONES SATELLITUM JOVIS

Oriens 3^h Mane Occidens

| | | | | |
|----|----|-------------|-----|----------------|
| 1 | 10 | .2 | ○ | 3. 4. |
| 2 | | 3. 4 | ♂ ○ | .2 |
| 3 | | 3. 4. | ○ | .1 2. |
| 4 | 4. | .3 2. 1. | ○ | |
| 5 | 4. | .2 | ○ | .1 1. |
| 6 | .4 | .1 | ○ | .2 .1 |
| 7 | .4 | | ○ | 1. 10 10 |
| 8 | .4 | 2. | ○ | .1 3. |
| 9 | | .4 3. 1. | ○ | .2 |
| 10 | | 3. .4 | ○ | .1 2. |
| 11 | | .1 2. 1. | ○ | .4 |
| 12 | 10 | .2 | ○ | .1 .4 |
| 13 | | .1 | ○ | .2 .1 .4 |
| 14 | 10 | | ○ | .1 3. .4 |
| 15 | | .2 .1 | ○ | 3. 4. |
| 16 | | 3. 1. .2 | ○ | 4. |
| 17 | | 3. | ○ | .1 2. 4. |
| 18 | | .3 2. 1. | ○ | 4. |
| 19 | | 4 ♂ 2 .3 | ○ | .1 |
| 20 | | 4. .1 | ○ | .2 .1 |
| 21 | 4. | | ○ | .2 .1 3. |
| 22 | 4. | 2. .1 | ○ | 3. |
| 23 | .4 | | ○ | .1 10 |
| 24 | .4 | 3. .1 | ○ | .1 |
| 25 | | .4 .3 2. .1 | ○ | |
| 26 | | 2 ♂ .3 | ○ | .1 |
| 27 | | .1 | ○ | .4 2 ♂ .1 |
| 28 | | | ○ | 2 ♂ .1 .4 .1 |
| 29 | | 2. .1 | ○ | .1 10 10 |
| 30 | 10 | .2 | ○ | 3. 10 10 10 10 |
| | | | ○ | |
| | | | ○ | |

| Dies | Phaenomena & Observaciones Solis | Dies | Phaenomena & Observaciones Lunae |
|--|--|--|---|
| <i>Sol in parallelo</i> | | <i>Luna</i> | |
| 6 ^a | ♄ & ♊ Geminorum culm. 23 ^h 0' | 1 | ad ♈ Arietis 13 ^h 15' |
| | & 22 ^h 52' | 2 | ad ♉ Tauri 11 ^h 4' |
| 8 ^a | ♈ Arietis & ♊ Geminor. culm | 3 | ad ☉ Tauri 1 ^h 0' |
| | 19 ^h 39' & ☉ 4' | 4 | ad ♈ Tauri 3 ^h 2' |
| 9 ^a | ♋ Cancrī culm. 1 ^h 13' | 6 | Novilunium 1 ^h 4' |
| 11 ^a | ♌ Herculis culm. 8 ^h 55' | 9 | ad ♌ Leonis 10 ^h 48' |
| 13 ^a | ♌ Leonis culm. 3 ^h 29' | 11 | ad ♌ Leonis 12 ^h 54' |
| 18 ^a | ♌ Leonis culm. 2 ^h 14' | 12 | Apogea |
| 21 ^a | ♌ Arcturi culm. 6 ^h 0' | 13 | ad ♎ & ♍ Virg. 7 ^h 45' & 23 ^h 10' |
| 22 ^a | ♌ signo Leonis 2 ^h 9' | 14 | Primus Quadrans 8 ^h 10' |
| 23 ^a | ♌ Herculis culm. 7 ^h 53' | 17 | ad ♏, ♏, ♏ Scorpi. 3 ^h , 16 ^h 19 ^h |
| 25 ^a | ♌ Bootis culm. 5 ^h 22' | 18 | ad 43 Ophiuci 13 ^h 0' |
| | | 19 | ad λ Sagittarii 15 ^h 48' |
| | | 20 | ad ♎ Sagittarii 10 ^h 54' |
| | | 21 | Plenilunium 12 ^h 2' |
| | | 22 | ad ♐ Capri 13 ^h 30' |
| | | 23 | ad ☉ Aquarii 15 ^h 15' |
| | | 26 | Perigea ad ♋ Piscium 9 ^h 30' |
| | | 27 | ad ♈ Arietis 17 ^h 20' |
| | | 28 | Ultimus Quadrans 3 ^h 53' |
| | | | ad μ Arietis 13 ^h 30' |
| | | 29 | ad ♉ Tauri 17 ^h 50' |
| | | 31 | ad ♈ Tauri 9 ^h 0' |
| <i>Phaenomena & Observaciones Planetarum</i> | | <i>Plantae in parallelis fixarum</i> | |
| 2 | Mars ad ☉ Piscium diff. lat. 21' | Saturnus prope ♋ Scorpii, ♋ & ☉ Ceti, λ Librae, ☉ & ♐ Capri, 54 Erid. b Canis, ♋ & ♌ Leporis, μ, τ, & 2. ξ Sagitt. Jupiter ☉ Serp., α Equ., ♋ Virg. Mars 1 α Orion., 5 α Aquilae, 7 ♋ Canis min. & ♋ Pegasi, 13 γ Aquilae, ♋ Leon., ♋ Delph., 18 ♋ Serpentis, 24 α Ophiuci, 25 α Leonis, 28 ζ Aquilae Venus γ Serp., γ Gemin., ♋ Leon., 7 ♋ Tauri, 13 α Sagittae & ♋ Leonis, 25 ♋ Tauri, e Pegasi & ♋ Cancrī, 31 ♋ Bootis & γ Herculis Mercurius ♋ Geminor., α Arietis, ♋ & μ Geminor., 7 ♋ Tauri, 24 Arcturi, 28 α Sagittae, 30 ♋ Serpentis & α Tauri | |
| 3 | Venus ad ♋ Tauri diff. lat. 14' | | |
| 4 | Venus ad ♋ Tauri diff. lat. 34' | | |
| 9 | Venus ad Aldebaran d. l. 1. 0 5' | | |
| 15 | Venus ad 1. i Tauri d. l. 42' | | |
| 16 | Jupiter ad ☉ Piscium d. l. 13' | | |
| 17 | Mars ad ♈ Arietis d. l. 1. 0 35' | | |
| | Mercurius in conjunctione superiore | | |
| 21 | Venus ad m Tauri diff. lat. 2' | | |
| 24 | Oppositio Saturni | | |
| 25 | Saturnus ad ☉ Capri d. l. 56' | | |
| 27 | Mars ad ☉ Arietis d. l. 1. 0 20' | | |
| 28 | Mars ad ☉ Arietis diff. lat. 35' | | |

| Die mensis | Die hebdomadae | Æquatio addenda tempori ut habeatur medium | | Diffe- rentia | Longitudo Solis | | | | Ascensio recta Solis | | | Declinatio Solis Borealis | | |
|------------|----------------|--|-------|------------------|--------------------|-----|-----|----|-------------------------|-----|----|---------------------------------|-----|----|
| | | M | S. | | S. | S. | G. | M. | S. | G. | M. | S. | | |
| 1 | Ven. | 3. | 23, 7 | 11, 6 | 3. | 9. | 52. | 46 | 100. | 45. | 2 | 23. | 6. | 3 |
| 2 | Sat. | 3. | 35, 1 | 11, 4 | 3. | 10. | 49. | 58 | 101. | 47. | 1 | 23. | 1. | 36 |
| 3 | Dom | 3. | 46, 3 | 11, 2 | 3. | 11. | 47. | 11 | 102. | 48. | 57 | 22. | 56. | 45 |
| 4 | Lun. | 3. | 57, 2 | 10, 9 | 3. | 12. | 44. | 25 | 103. | 50. | 49 | 22. | 51. | 30 |
| 5 | Mar | 4. | 7, 7 | 10, 5 | 3. | 13. | 41. | 39 | 104. | 52. | 36 | 22. | 45. | 51 |
| 6 | Mer | 4. | 17, 9 | 10, 2 | 3. | 14. | 38. | 53 | 105. | 54. | 18 | 22. | 39. | 48 |
| 7 | Jov. | 4. | 27, 8 | 9, 9 | 3. | 15. | 36. | 7 | 106. | 55. | 54 | 22. | 33. | 21 |
| 8 | Ven | 4. | 37, 2 | 9, 4 | 3. | 16. | 33. | 21 | 107. | 57. | 24 | 22. | 26. | 31 |
| 9 | Sat. | 4. | 46, 2 | 9, 0 | 3. | 17. | 30. | 36 | 108. | 58. | 48 | 22. | 19. | 18 |
| 10 | Dom | 4. | 54, 8 | 8, 6 | 3. | 18. | 27. | 50 | 110. | 0. | 6 | 22. | 11. | 42 |
| 11 | Lun. | 5. | 3, 0 | 8, 2 | 3. | 19. | 25. | 4 | 111. | 1. | 17 | 22. | 3. | 43 |
| 12 | Mar | 5. | 10, 7 | 7, 7 | 3. | 20. | 22. | 18 | 112. | 2. | 21 | 21. | 55. | 21 |
| 13 | Mer | 5. | 18, 0 | 7, 3 | 3. | 21. | 19. | 33 | 113. | 3. | 18 | 21. | 46. | 36 |
| 14 | Jov | 5. | 24, 7 | 6, 7 | 3. | 22. | 16. | 47 | 114. | 4. | 7 | 21. | 37. | 29 |
| 15 | Ven. | 5. | 30, 8 | 6, 1 | 3. | 23. | 14. | 2 | 115. | 4. | 48 | 21. | 28. | 0 |
| | | | | 5, 7 | | | | | | | | | | |
| 16 | Sat | 5. | 36, 5 | | 3. | 24. | 11. | 16 | 116. | 5. | 22 | 21. | 18. | 9 |
| 17 | Dom | 5. | 41, 8 | 5, 3 | 3. | 25. | 8. | 31 | 117. | 5. | 48 | 21. | 7. | 57 |
| 18 | Lun | 5. | 46, 4 | 4, 6 | 3. | 26. | 5. | 46 | 118. | 6. | 5 | 20. | 57. | 23 |
| 19 | Mar. | 5. | 50, 3 | 3, 9 | 3. | 27. | 3. | 1 | 119. | 6. | 14 | 20. | 46. | 28 |
| 20 | Mer | 5. | 53, 7 | 3, 4 | 3. | 28. | 0. | 17 | 120. | 6. | 15 | 20. | 35. | 12 |
| | | | | 3, 0 | | | | | | | | | | |
| 21 | Jov. | 5. | 56, 7 | | 3. | 28. | 57. | 34 | 121. | 6. | 7 | 20. | 23. | 56 |
| 22 | Ven. | 5. | 59, 1 | 2, 4 | 3. | 29. | 54. | 51 | 122. | 5. | 51 | 20. | 11. | 40 |
| 23 | Sat. | 6. | 0, 9 | 1, 8 | 4. | 0. | 52. | 9 | 123. | 5. | 27 | 19. | 59. | 23 |
| 24 | Dom | 6. | 2, 2 | 1, 3 | 4. | 1. | 49. | 28 | 124. | 4. | 54 | 19. | 46. | 45 |
| 25 | Lun. | 6. | 2, 9 | 0, 7 | 4. | 2. | 46. | 47 | 125. | 4. | 12 | 19. | 33. | 47 |
| | | | | 0, 1 | | | | | | | | | | |
| 26 | Mar. | 6. | 3, 0 | | 4. | 3. | 44. | 8 | 126. | 3. | 22 | 19. | 20. | 30 |
| 27 | Mer. | 6. | 2, 5 | 0, 5 | 4. | 4. | 41. | 30 | 127. | 2. | 23 | 19. | 6. | 54 |
| 28 | Jov. | 6. | 1, 4 | 1, 1 | 4. | 5. | 38. | 53 | 128. | 1. | 16 | 18. | 52. | 58 |
| 29 | Ven. | 5. | 59, 8 | 1, 6 | 4. | 6. | 36. | 17 | 129. | 0. | 0 | 18. | 38. | 43 |
| 30 | Sat. | 5. | 57, 6 | 2, 2 | 4. | 7. | 33. | 43 | 129. | 58. | 36 | 18. | 24. | 10 |
| 31 | Dom | 5. | 54, 8 | 2, 8 | 4. | 8. | 31. | 10 | 130. | 57. | 3 | 18. | 9. | 19 |
| | | | | 3, 4 | | | | | | | | | | |

| Dies hebdomadae Dies mensis | Distantia señionis a Sole | Diffe- rentia | Ini- tium Crepu- sculi | Ortus Centri Solis | Occa- sus Centri Solis | Finis Crepu- sculi | Hora Italica Meri- diei |
|--------------------------------|---------------------------------|------------------|---------------------------------|--------------------------|---------------------------------|--------------------------|----------------------------------|
| | | | | | | | |
| 1 Ven. | 17. 16. 59,9 | 4. 8, 0 | 1. 36 | 4. 14 | 7. 46 | 10. 24 | 15. 14 |
| 2 Sat. | 17. 12. 51,9 | 4. 7, 0 | 1. 37 | 4. 14 | 7. 46 | 10. 23 | 15. 14 |
| 3 Dom. | 17. 8. 44,1 | 4. 7, 5 | 1. 38 | 4. 14 | 7. 46 | 10. 22 | 15. 15 |
| 4 Lun. | 17. 4. 36,6 | 4. 7, 1 | 1. 39 | 4. 14 | 7. 46 | 10. 21 | 15. 15 |
| 5 Mar. | 17. 0. 29,5 | 4. 6, 7 | 1. 40 | 4. 15 | 7. 47 | 10. 20 | 15. 16 |
| 6 Mer. | 16. 56. 22,8 | 4. 6, 4 | 1. 41 | 4. 15 | 7. 45 | 10. 19 | 15. 16 |
| 7 Jov. | 16. 52. 16,4 | 4. 6, 0 | 1. 42 | 4. 16 | 7. 44 | 10. 18 | 15. 17 |
| 8 Ven. | 16. 48. 10,4 | 4. 5, 6 | 1. 43 | 4. 16 | 7. 44 | 10. 17 | 15. 18 |
| 9 Sat. | 16. 44. 4,8 | 4. 5, 2 | 1. 45 | 4. 17 | 7. 43 | 10. 15 | 15. 19 |
| 10 Dom. | 16. 39. 59,6 | 4. 4, 7 | 1. 46 | 4. 18 | 7. 42 | 10. 14 | 15. 20 |
| 11 Lun. | 16. 35. 54,9 | 4. 4, 3 | 1. 48 | 4. 18 | 7. 42 | 10. 12 | 15. 21 |
| 12 Mar. | 16. 31. 50,6 | 4. 3, 8 | 1. 50 | 4. 19 | 7. 41 | 10. 10 | 15. 22 |
| 13 Mer. | 16. 27. 46,8 | 4. 3, 3 | 1. 52 | 4. 20 | 7. 40 | 10. 8 | 15. 23 |
| 14 Jov. | 16. 23. 43,5 | 4. 2, 8 | 1. 54 | 4. 21 | 7. 39 | 10. 6 | 15. 24 |
| 15 Ven. | 16. 19. 40,8 | 4. 2, 2 | 1. 56 | 4. 22 | 7. 38 | 10. 4 | 15. 25 |
| 16 Sat. | 16. 15. 38,5 | 4. 1, 7 | 1. 58 | 4. 23 | 7. 37 | 10. 2 | 15. 26 |
| 17 Dom. | 16. 11. 36,8 | 4. 1, 1 | 2. 0 | 4. 24 | 7. 36 | 10. 0 | 15. 28 |
| 18 Lun. | 16. 7. 35,7 | 4. 0, 6 | 2. 2 | 4. 25 | 7. 35 | 9. 58 | 15. 29 |
| 19 Mar. | 16. 3. 35,1 | 4. 0, 1 | 2. 4 | 4. 26 | 7. 34 | 9. 56 | 15. 30 |
| 20 Mer. | 15. 59. 35,0 | 3. 59, 5 | 2. 6 | 4. 27 | 7. 33 | 9. 54 | 15. 31 |
| 21 Jov. | 15. 55. 35,5 | 3. 58, 9 | 2. 8 | 4. 28 | 7. 32 | 9. 52 | 15. 32 |
| 22 Ven. | 15. 51. 36,6 | 3. 58, 4 | 2. 10 | 4. 29 | 7. 31 | 9. 50 | 15. 34 |
| 23 Sat. | 15. 47. 38,2 | 3. 57, 8 | 2. 12 | 4. 30 | 7. 30 | 9. 48 | 15. 35 |
| 24 Dom. | 15. 43. 40,4 | 3. 57, 2 | 2. 14 | 4. 31 | 7. 29 | 9. 46 | 15. 36 |
| 25 Lun. | 15. 39. 43,2 | 3. 56, 7 | 2. 16 | 4. 32 | 7. 28 | 9. 44 | 15. 37 |
| 26 Mar. | 15. 35. 46,5 | 3. 56, 1 | 2. 18 | 4. 33 | 7. 27 | 9. 42 | 15. 39 |
| 27 Mer. | 15. 31. 50,8 | 3. 55, 5 | 2. 20 | 4. 34 | 7. 26 | 9. 40 | 15. 40 |
| 28 Jov. | 15. 27. 54,9 | 3. 54, 9 | 2. 22 | 4. 35 | 7. 25 | 9. 38 | 15. 41 |
| 29 Ven. | 15. 24. 0,0 | 3. 55, 4 | 2. 24 | 4. 36 | 7. 24 | 9. 36 | 15. 43 |
| 30 Sat. | 15. 20. 4,6 | 3. 52, 8 | 2. 26 | 4. 37 | 7. 23 | 9. 34 | 15. 44 |
| 31 Dom. | 15. 16. 11,8 | 3. 53, 2 | 2. 28 | 4. 38 | 7. 22 | 9. 32 | 15. 45 |

| Dies mensis | Dies hebdomadae | Longitudo Lunae Meridie | Longitudo Lunae media nocte | Latitudo Lunae Meridie | Latitudo Lunae med. nocte. | Paral- laxis Lunae Meri- die | Paral- laxis Lunae media nocte |
|-------------|-----------------|-------------------------------|-----------------------------------|------------------------------|----------------------------------|--|--|
| | | S. G. M. S. | S. G. M. S. | G. M. S. | G. M. S. | M. S. | M. S. |
| 1 | Ven. | 1. 6. 59 22 | 1. 13. 37. 32 | 5. 10. 39 B | 5. 12. 13 | 58. 44 | 58. 34 |
| 2 | Sat. | 1. 20. 33. 24 | 1. 27. 26. 40 | 5. 9. 12 | 5. 1. 44 | 58. 23 | 58. 10 |
| 3 | Dom | 2. 4. 17. 7 | 2. 11. 4. 27 | 4. 50. 0 | 4. 34. 17 | 57. 57 | 57. 43 |
| 4 | Lun. | 2. 17. 48. 30 | 2. 24. 29. 1 | 4. 14. 49 | 3. 52. 1 | 57. 28 | 57. 13 |
| 5 | Mar. | 3. 1. 5. 43 | 3. 7. 38. 30 | 3. 26. 18 | 2. 58. 9 | 56. 57 | 56. 41 |
| 6 | Mer. | 3. 14. 7. 23 | 3. 20. 32. 21 | 2. 27. 51 | 1. 55. 58 | 56. 24 | 56. 8 |
| 7 | Jov. | 3. 26. 53. 14 | 4. 3. 10. 11 | 1. 22. 57 | 0. 49. 16 | 55. 52 | 55. 36 |
| 8 | Ven. | 4. 9. 23. 28 | 4. 15. 33. 15 | 0. 15. 15 B | 0. 18. 40 A | 55. 21 | 55. 7 |
| 9 | Sat. | 4. 21. 39. 42 | 4. 27. 43. 10 | 0. 52. 3 | 1. 24. 34 | 54. 54 | 54. 43 |
| 10 | Dom | 5. 3. 44. 2 | 5. 9. 42. 45 | 1. 55. 59 | 2. 25. 58 | 54. 33 | 54. 25 |
| 11 | Lun. | 5. 15. 39. 47 | 5. 21. 35. 40 | 2. 54. 13 | 3. 20. 29 | 54. 19 | 54. 15 |
| 12 | Mar | 5. 27. 30. 52 | 6. 3. 26. 0 | 3. 44. 34 | 4. 6. 17 | 54. 13 | 54. 14 |
| 13 | Mer. | 6. 9. 21. 36 | 6. 15. 18. 20 | 4. 25. 19 | 4. 41. 36 | 54. 17 | 54. 23 |
| 14 | Jov. | 6. 21. 16. 44 | 6. 27. 17. 27 | 4. 54. 56 | 5. 5. 7 | 54. 31 | 54. 42 |
| 15 | Ven. | 7. 3. 21. 2 | 7. 9. 28. 7 | 5. 11. 57 | 5. 15. 22 | 54. 55 | 55. 10 |
| 16 | Sat | 7. 15. 39. 4 | 7. 21. 54. 28 | 5. 15. 13 | 5. 11. 19 | 55. 28 | 55. 48 |
| 17 | Dom | 7. 28. 14. 46 | 8. 4. 40. 20 | 5. 3. 36 | 4. 51. 58 | 56. 10 | 56. 34 |
| 18 | Lun | 8. 11. 11. 23 | 8. 17. 48. 9 | 3. 36. 27 | 4. 17. 2 | 57. 0 | 57. 24 |
| 19 | Mar. | 8. 24. 30. 37 | 9. 1. 18. 47 | 3. 53. 49 | 3. 26. 58 | 57. 48 | 58. 12 |
| 20 | Mer. | 9. 8. 12. 37 | 9. 15. 11. 45 | 2. 56. 45 | 2. 23. 31 | 58. 35 | 58. 57 |
| 21 | Jov. | 9. 22. 15. 34 | 9. 29. 23. 50 | 1. 47. 40 | 1. 9. 48 | 59. 17 | 59. 35 |
| 22 | Ven. | 10. 6. 35. 54 | 10. 13. 51. 0 | 0. 30. 23 A | 0. 9. 46 B | 59. 50 | 60. 2 |
| 23 | Sat. | 10. 21. 8. 26 | 10. 28. 27. 20 | 0. 50. 0 | 1. 29. 29 | 60. 10 | 60. 15 |
| 24 | Dom | 11. 5. 47. 3 | 11. 13. 6. 45 | 2. 7. 39 | 2. 43. 43 | 60. 17 | 60. 15 |
| 25 | Lun. | 11. 20. 25. 30 | 11. 27. 43. 9 | 3. 16. 59 | 3. 46. 55 | 60. 10 | 60. 2 |
| 26 | Mar | 0. 4. 58. 41 | 0. 12. 11. 44 | 4. 13. 6 | 4. 35. 9 | 59. 52 | 59. 41 |
| 27 | Mer. | 0. 19. 21. 50 | 0. 26. 28. 40 | 4. 52. 41 | 5. 5. 35 | 59. 28 | 59. 14 |
| 28 | Jov. | 1. 3. 31. 59 | 1. 10. 31. 35 | 5. 13. 43 | 5. 17. 9 | 58. 58 | 58. 42 |
| 29 | Ven. | 1. 17. 27. 18 | 1. 24. 19. 5 | 5. 15. 54 | 5. 10. 9 | 58. 25 | 58. 8 |
| 30 | Sat. | 2. 1. 6. 55 | 2. 7. 50. 50 | 5. 0. 5 | 4. 46. 0 | 57. 51 | 57. 34 |
| 31 | Dom | 2. 14. 30. 49 | 2. 21. 6. 57 | 4. 28. 7 | 4. 6. 49 | 57. 17 | 57. 1 |

| Dies mensis | Dies hebdomadae | Diameter horiz. Lunae Meridie | | Diameter horiz. Lunae media nocte | | Declinatio Lunae in Meridiano | | Ortus Lunae | | Transitus Lunae per Meridianum | | Occasus Lunae | |
|-------------|-----------------|-------------------------------|----|-----------------------------------|----|-------------------------------|------|-------------|------|--------------------------------|------|---------------|------|
| | | M. | S. | M. | S. | G. | M. | H. | M. | H. | M. | H. | M. |
| 1 | Ven. | 32. | 4 | 31. | 59 | 17. | 40 B | * | * | 7. | 18M | 2. | 51 V |
| 2 | Sat. | 31. | 53 | 31. | 46 | 22. | 22 | 0. | 26M | 8. | 12 | 4. | 11 |
| 3 | Dom | 31. | 39 | 31. | 31 | 25. | 30 | 1. | 3 | 9. | 8 | 5. | 25 |
| 4 | Lun. | 31. | 23 | 31. | 14 | 27. | 5 | 1. | 49 | 10. | 6 | 6. | 27 |
| 5 | Mar. | 31. | 6 | 30. | 57 | 26. | 56 | 2. | 42 | 11. | 3 | 7. | 20 |
| 6 | Mer. | 30. | 43 | 30. | 39 | 25. | 10 | 3. | 44 | 11. | 58 | 8. | 3 |
| 7 | Jov. | 30. | 30 | 30. | 21 | 22. | 3 | 4. | 51 | 0. | 50 V | 8. | 34 |
| 8 | Ven. | 30. | 13 | 30. | 5 | 17. | 51 | 6. | 4 | 1. | 39 | 9. | 0 |
| 9 | Sat. | 29. | 58 | 29. | 52 | 12. | 59 | 7. | 13 | 2. | 24 | 9. | 21 |
| 10 | Dom | 29. | 47 | 29. | 43 | 7. | 41 | 8. | 20 | 3. | 5 | 9. | 28 |
| 11 | Lun. | 29 | 39 | 29. | 37 | 2 | 10 B | 9. | 23 | 3. | 45 | 9. | 55 |
| 12 | Mar. | 29. | 36 | 29. | 37 | 3. | 27 A | 10. | 26 | 4. | 24 | 10. | 12 |
| 13 | Mer. | 29. | 38 | 29. | 41 | 8. | 50 | 11. | 29 | 5. | 4 | 10. | 29 |
| 14 | Jov. | 29. | 46 | 29. | 52 | 13. | 59 | 0. | 33 V | 5. | 45 | 10. | 47 |
| 15 | Ven. | 29. | 59 | 30. | 7 | 18. | 39 | 1. | 40 | 6. | 29 | 11. | 10 |
| 16 | Sat. | 30. | 17 | 30. | 28 | 22. | 37 | 2. | 49 | 7. | 17. | 11. | 39 |
| 17 | Dom | 30. | 40 | 30. | 53 | 25. | 30 | 3. | 56 | 8. | 9 | * | * |
| 18 | Lun. | 31. | 7 | 31. | 20 | 27. | 4 | 5. | 1 | 9. | 5 | 0. | 18M |
| 19 | Mar. | 31. | 34 | 31. | 47 | 27. | 0 | 6. | 1 | 10. | 4 | 1. | 8 |
| 20 | Mer. | 31. | 59 | 32. | 11 | 25. | 6 | 6. | 50 | 11. | 3 | 2. | 9 |
| 21 | Jov. | 32. | 22 | 32. | 32 | * | * | 7. | 31 | * | * | 3. | 21 |
| 22 | Ven. | 32. | 40 | 32. | 47 | 21. | 25 | 8. | 4 | 0. | 1M | 4. | 38 |
| 23 | Sat. | 32. | 51 | 32. | 54 | 16. | 30 | 8. | 30 | 0. | 57 | 5. | 59 |
| 24 | Dom | 32. | 55 | 32. | 54 | 10. | 25 | 8. | 51 | 1. | 50 | 7. | 21 |
| 25 | Lun. | 32. | 51 | 32. | 47 | 3. | 21 A | 9. | 14 | 2. | 41 | 8. | 43 |
| 26 | Mar. | 32. | 42 | 32. | 36 | 3. | 33 B | 9. | 37 | 3. | 31 | 10. | 1 |
| 27 | Mer. | 32. | 28 | 32. | 21 | 10. | 11 | 10. | 1 | 4. | 21 | 11. | 19 |
| 28 | Jov. | 32. | 12 | 32. | 3 | 16. | 4 | 10. | 28 | 5. | 12 | 0. | 17 V |
| 29 | Ven. | 31. | 54 | 31. | 44 | 21. | 4 | 11. | 2 | 6. | 5 | 1. | 56 |
| 30 | Sat. | 31. | 35 | 31. | 26 | 24. | 45 | 11. | 42 | 7. | 1 | 3. | 14 |
| 31 | Dom | 31. | 17 | 31. | 8 | 26. | 49 | * | * | 7. | 58 | 4. | 18 |

| <i>Dies mensis</i> | <i>Longitudo Planetarum</i> | <i>Latitudo Planetarum</i> | <i>Declinatio Planetarum</i> | <i>Ortus Planetarum</i> | <i>Transitus Planetarum per Meridianum</i> | <i>Occasus Planetarum</i> |
|--------------------|-----------------------------|----------------------------|------------------------------|-------------------------|--|---------------------------|
| | <i>S. G. M.</i> | <i>G. M.</i> | <i>G. M.</i> | <i>H. M.</i> | <i>H. M.</i> | <i>H. M.</i> |

SATURNUS.

| | | | | | | |
|----|-----------|---------|----------|--------|----------|---------|
| 1 | 10. 2. 54 | 0. 28 A | 19. 43 A | 9. 4 V | 1. 42 M | 6. 20 M |
| 7 | 10. 2. 30 | 0. 29 | 19. 50 | 8. 37 | 1. 15 | 5. 53 |
| 13 | 10. 3. 4 | 0. 29 | 19. 57 | 8. 12 | 0. 49 | 5. 26 |
| 19 | 10. 3. 38 | 0. 30 | 20. 4 | 7. 46 | 0. 23 | 4. 59 |
| 25 | 10. 3. 11 | 0. 30 | 20. 11 | 7. 20 | 11. 56 V | 4. 32 |

JUPITER.

| | | | | | | |
|----|-----------|---------|---------|----------|--------|----------|
| 1 | 0. 12. 56 | 1. 19 A | 3. 53 B | 11. 47 V | 6. 6 M | 0. 25 V |
| 7 | 0. 13. 30 | 1. 21 | 4. 4 | 11. 25 | 5. 44 | 0. 3 |
| 13 | 0. 13. 57 | 1. 23 | 4. 13 | 11. 1 | 5. 21 | 11. 41 M |
| 19 | 0. 14. 18 | 1. 24 | 4. 20 | 10. 38 | 4. 58 | 11. 18 |
| 25 | 0. 14. 32 | 1. 26 | 4. 24 | 10. 14 | 4. 35 | 10. 56 |

MARS.

| | | | | | | |
|----|-----------|---------|---------|----------|---------|---------|
| 1 | 0. 23. 44 | 1. 59 A | 7. 21 B | 0. 15 M | 6. 47 M | 1. 19 V |
| 7 | 0. 27. 52 | 1. 59 | 8. 51 | 11. 58 V | 6. 37 | 1. 16 |
| 13 | 1. 1. 55 | 1. 58 | 10. 17 | 11. 43 | 6. 28 | 1. 13 |
| 19 | 1. 5. 54 | 1. 57 | 11. 38 | 11. 27 | 6. 19 | 1. 11 |
| 25 | 1. 9. 48 | 1. 56 | 12. 54 | 11. 13 | 6. 11 | 1. 9 |

VENUS.

| | | | | | | |
|----|-----------|---------|----------|--------|---------|---------|
| 1 | 2. 2. 55 | 4. 11 A | 16. 39 B | 2. 9 M | 9. 23 M | 4. 37 V |
| 7 | 2. 5. 35 | 4. 23 | 16. 56 | 1. 55 | 9. 10 | 4. 25 |
| 13 | 2. 9. 6 | 4. 25 | 17. 28 | 1. 43 | 9. 0 | 4. 17 |
| 19 | 2. 13. 16 | 4. 18 | 18. 9 | 1. 34 | 8. 54 | 4. 14 |
| 25 | 2. 17. 58 | 4. 7 | 18. 49 | 1. 26 | 8. 50 | 4. 14 |

MERCURIUS.

| | | | | | | |
|----|-----------|---------|----------|--------|----------|---------|
| 1 | 2. 22. 29 | 1. 0 A | 22. 15 B | 3. 6 M | 10. 48 M | 6. 30 V |
| 7 | 3. 3. 43 | 0. 11 B | 23. 36 | 2. 24 | 11. 13 | 7. 2 |
| 13 | 3. 16. 13 | 1. 8 | 23. 36 | 2. 55 | 11. 44 | 7. 33 |
| 19 | 3. 29. 0 | 1. 41 | 22. 1 | 4. 29 | 0. 10 V | 7. 51 |
| 25 | 4. 11. 13 | 1. 46 | 20. 7 | 5. 7 | 0. 37 | 8. 7 |

ECLIPSES SATELLITUM JOVIS.

| Dies mensis | I. Satelles. | | | Dies | II. Satelles. | | | Dies | III. Satelles. | | |
|-------------|--------------|-----|----|------|---------------|-----|----|------|----------------|--------|------|
| | Immerfiones | | | | Immerfiones | | | | Imers. Emerf. | | |
| | H. | M. | S. | | H. | M. | S. | | H. | M. | S. |
| 1 | 10 | 23. | 22 | 1 | 7. | 54. | 18 | 6 | 12.* | 15. | 13 I |
| 3 | 5. | 1. | 26 | 4 | 21. | 12. | 22 | 6 | 14.* | 51. | 5 E |
| 4 | 23. | 29. | 31 | 8 | 10. | 30. | 32 | 13 | 16. | 15. | 5 I |
| 6 | 17. | 47. | 38 | 11 | 23. | 48. | 48 | 13 | 18. | 49. | 35 E |
| 8 | 12.* | 25. | 47 | 15 | 15.* | 7. | 9 | 20 | 20. | 15. | 24 I |
| 10 | 6. | 53. | 57 | 19 | 2. | 25. | 39 | 20 | 22. | 48. | 34 E |
| 12 | 1. | 22. | 8 | 22 | 15. | 44. | 18 | 28 | 0. | 16. | 18 I |
| 13 | 19. | 50. | 20 | 26 | 5. | 3. | 3 | 28 | 2. | 49. | 6 E |
| 15 | 14.* | 18. | 34 | 29 | 18. | 21. | 54 | | | | |
| 17 | 8. | 46. | 50 | | | | | | | | |
| 19 | 3. | 15. | 8 | | | | | | | | |
| 20 | 21. | 43. | 28 | | | | | | | | |
| 22 | 16. | 11. | 50 | | | | | Dies | IV. Satelles. | | |
| 24 | 10. | 40. | 12 | | | | | | Imers. | Emerf. | |
| 26 | 5. | 8. | 36 | | | | | 4 | 6. | 23. | 36 I |
| 27 | 23. | 37. | 4 | | | | | 4 | 9. | 2. | 30 E |
| 29 | 18. | 5. | 33 | | | | | 21 | 0. | 40. | 6 I |
| 31 | 12.* | 34. | 4 | | | | | 21 | 3. | 9. | 20 E |

| Dies | Diameter Solis | Mora transitus Solis per Meridian. | Motus horarius Solis | Logarithmus distantiae Solis a terra posita media. | Longitudo Nodi Luge |
|------|----------------|------------------------------------|----------------------|--|---------------------|
| | M. S. | M. S. | M. S. | 100000 | S. G. M |
| 1 | 31. 31, 0 | 2. 17, 0 | 2. 23, 0 | 5. 007235 | 10. 13. 42 |
| 4 | 31. 31, 1 | 2. 16, 8 | 2. 23, 0 | 5. 007223 | 10. 13. 32 |
| 7 | 31. 31, 2 | 2. 16, 6 | 2. 23, 0 | 5. 007190 | 10. 13. 23 |
| 10 | 31. 31, 4 | 2. 16, 2 | 2. 23, 1 | 5. 007140 | 10. 13. 13 |
| 13 | 31. 31, 7 | 2. 15, 8 | 2. 23, 1 | 5. 007072 | 10. 13. 4 |
| 16 | 31. 32, 0 | 2. 15, 4 | 2. 23, 1 | 5. 006985 | 10. 12. 54 |
| 19 | 31. 32, 4 | 2. 15, 0 | 2. 23, 2 | 5. 006880 | 10. 12. 45 |
| 22 | 31. 33, 0 | 2. 14, 5 | 2. 23, 3 | 5. 006760 | 10. 12. 35 |
| 25 | 31. 33, 6 | 2. 14, 0 | 2. 23, 4 | 5. 006619 | 10. 12. 26 |
| 28 | 31. 34, 3 | 2. 13, 5 | 2. 23, 5 | 5. 006415 | 10. 12. 16 |

POSITIONES SATELLITUM JOVIS

Oriens

1^h Mane

Occidens

| | Oriens | 1 ^h Mane | Occidens |
|----|--------|---------------------|----------|
| 1 | | 3. 1. 1. 0 | .2 .4 |
| 2 | 10 | .3 2. 0 | .4 |
| 3 | | 2 0 3 | .1 .4 |
| 4 | | 1. 2 0 1 | .4 |
| 5 | | 4. 1. 2. 0 | .3 |
| 6 | | 4 0 1. 1 | 1. |
| 7 | 30 4. | .2 0 1. | |
| 8 | 4. | 3. 1. 0 | .2 |
| 9 | 4. .7 | 2. 0 | 10 |
| 10 | .4 | 2 0 1 | 0 .1 |
| 11 | .4 | 1. 0 .3 .2 | |
| 12 | | .4 0 .1 2. | .7 |
| 13 | | 2 0 4 1. | 3. |
| 14 | | .2 0 3 0 1.4 | |
| 15 | | 3. .1 0 2. | .4 |
| 16 | 20 3. | 0 1. | .4 |
| 17 | 10 | .3 .2 0 | .4 |
| 18 | 30 | 1. 0 .2 | .4 |
| 19 | | 0 .1 2. .1 | .4 |
| 20 | | 2. 1. 0 | 3. 4. |
| 21 | | .2 0 .3 3. 4. | |
| 22 | | 3. .1 4. 0 | .2 |
| 23 | | 3. 4. 0 1. 2. | |
| 24 | 4. | .3 2. .1 0 | |
| 25 | .4 | 1 0 1 0 | 207 |
| 26 | .4 | 0 .1 2. .3 | |
| 27 | .4 | 2. 1. 0 | 1. |
| 28 | .4 | .2 0 .1 3. | |
| 29 | | .4 3. 1. 0 .2 | |
| 30 | | 3. .4 0 2 0 1 | |
| 31 | | .3 2. .1 0 .4 | |
| | | 0 | |

| Die | Phaenomena & Observationes Solis | Die | Phaenomena & Observationes Lunae |
|---|--|--|--|
| | Sol in parallelo | | Luna |
| | <i>Ecliptis Solis. Vide supra.</i> | | |
| 4 | Leonis, γ Geminor. & γ Serp. culm. 1 ^h 54', 21 ^h 14' & 6 ^h 37' | 1 | ad α Geminorum 17 ^h 24' |
| 7 | Serp. & α Tauri culm. 6 ^h 19' & 19 ^h 8' | 4 | Novilunium 14 ^h 8' |
| 8 | Leonis culm. 3 ^h 22' | 7 | ad ν Leonis 22 ^h 12' |
| 10 | Delphini culm. 11 ^h 11' | 8 | Apogea |
| 11 | Delphini & γ Tauri culm. 11 ^h 0' & 18 ^h 37' | 9 | ad κ Virginis 7 ^h 0' |
| 12 | Aquilae, ζ Bootis & α Herc. culm. 9 ^h 17', 4 ^h 58' & 7 ^h 32' | 10 | ad α Virginis 6 ^h 48' |
| 13 | Delphini culm. 10 ^h 57' | 12 | Primus Quadrans 18 ^h 6' |
| 14 | α & γ Pegasi, ζ & β Delphini culm. 11 ^h 14', 14 ^h 22', 10 ^h 45' & 10 ^h 47' | 13 | ad A & τ Scorp. 9 ^h 16' & 11 ^h 56' |
| 17 | Leonis culm. 0 ^h 7' | 14 | ad α Scorpii 0 ^h 45' |
| 18 | Ophiuci culm. 7 ^h 31' | 16 | ad ϕ Sagit. (Imm. 7 ^h 26') tarii... (Emerf. 8 ^h 43') diff. 3' |
| 20 | Virginis culm. 2 ^h 51' | 17 | ad σ Sagittarii 12 ^h 5' |
| 22 | in signo Virginis 8 ^h 30' | 19 | Plenilunium 20 ^h 23' |
| 23 | Serpentis culm. 5 ^h 12' | ad 1. 2. 3. d Capri 9 ^h | |
| 25 | Delphini culm. 10 ^h 1' | 20 | ad κ Aquarii 10 ^h 40' |
| 26 | Aquilae, β Cancri, ζ Pegasi 9 ^h 13', 21 ^h 39' & 12 ^h 6' | 22 | Perigea ad δ Piscium 19 ^h 0' |
| 30 | Pegasi & β Canis 10 ^h 54', & 20 ^h 35' | ad γ Pisc. 15 ^h 0' | |
| 31 | Aquilae culm. 8 ^h 55' | 24 | ad 1. 2. δ Arietis 10 ^h 30' & 10 ^h 45' |
| <i>Phaenomena & Observ. Planet.</i> | | 26 | Ultimus Quadrans 10 ^h 45' |
| 1 | Saturnus ad τ Capri d. l. 1. 0 27' | ad ϕ Tauri 12 ^h 24' | |
| | Mercur. ad ν Leonis d. l. 1. 0 24' | 27 | ad β Tauri 14 ^h 40' |
| 2 | Venus in elong. max. matutina Mercurius ad α Leonis d. l. 58' | 30 | ad 2 μ Geminor. 12 ^h 15' |
| 6 | Mercurius ad 1. 2. β Leonis d. l. 51' & 48' | <i>Planetae in parallelis fixarum</i> | |
| | Venus ad 4. in ped. Gem. d. l. 20' | Saturnus σ & α Capr., δ & γ Leporis, μ , τ , ξ Sagitt. | |
| 11 | Venus ad γ Geminor. diff. lat. 5' | Jupiter β Oph., δ Virg., θ Serp. | |
| 16 | Mercurius ad γ Leonis d. l. 12' | Mars 1 α Peg., δ Delp., α Herc., ζ Boot., σ Aqu., γ Tauri, σ & γ Delph., 10 β Leo. Aldeb., β & γ Serp., 20 α Sagittae, γ Leon., 25 γ Arietis, γ Tauri, δ Cancri | |
| 20 | Venus ad ζ Geminor. diff. lat. 11' | Ven. 1 δ Boot., γ Herc., β Ariet., 20 Arcturi, iterumq. β Ariet., γ Herc., δ Bootis | |
| 21 | Jupiter ad e praeced. Pisc. d. l. 22' | Mercur. 1 α Aquilae, ζ Bootis, α Herc., α & γ Pegasi, δ & ζ Delph., 3 α Leo., α Ophiuci, 5 α Virg., δ Serp., 7 α Delph., 10 β Canis min., α Aquilae, 12 α Orion., α Serp., 14 β Aqu., Proc., 16 α Equ., θ Serp., 1 δ Virg., γ Oph., δ Aqu., 22 γ & ζ Virg., 25 α Orion., γ Antin., 27 μ & γ Serp., δ Ophiuci. | |
| 24 | Venus ad q Geminor. diff. lat. 29' | | |
| 25 | Venus ad r Geminor. diff. lat. 33' | | |
| 27 | Mercur. in elong. max. vespert. | | |
| 29 | Venus ad g Geminor. diff. lat. 50' | | |
| 31 | Venus ad l Geminor. diff. lat. 48' | | |
| | Mars ad 1. α Tauri diff. lat. 10' | | |

| Dies mensis | Dies hebdomadae | Aequatio addenda tempori vero ut habeatur medium | Differrentia | Longitudo Solis | | | | Ascensio recta Solis | | | Declinatio Solis Borealis | |
|-------------|-----------------|--|--------------|-----------------|-------------|------------|----|----------------------|----|----|---------------------------|----|
| | | | | M. | S. | S. | G. | M. | S. | G. | M. | S. |
| 1 | Lun. | 5. 51, 4 | 3, 4 | 4. 9. 28. 38 | 131. 55. 21 | 17. 54. 20 | | | | | | |
| 2 | Mar. | 5. 47, 5 | 3, 9 | 4. 10. 26. 7 | 132. 53. 30 | 17. 38. 44 | | | | | | |
| 3 | Mer. | 5. 43, 0 | 4, 5 | 4. 11. 23. 37 | 133. 51. 30 | 17. 23. 0 | | | | | | |
| 4 | Jov. | 5. 37, 9 | 5, 1 | 4. 12. 21. 9 | 134. 49. 21 | 17. 6. 59 | | | | | | |
| 5 | Ven. | 5. 32, 2 | 5, 7 | 4. 13. 18. 42 | 135. 47. 3 | 16. 50. 42 | | | | | | |
| 6 | Sat. | 5. 25, 9 | 6, 3 | 4. 14. 16. 16 | 136. 44. 37 | 16. 34. 8 | | | | | | |
| 7 | Dom. | 5. 19, 0 | 6, 9 | 4. 15. 13. 51 | 137. 42. 8 | 16. 17. 18 | | | | | | |
| 8 | Lun. | 5. 11, 4 | 7, 6 | 4. 16. 11. 26 | 138. 39. 17 | 16. 0. 12 | | | | | | |
| 9 | Mar. | 5. 3, 3 | 8, 1 | 4. 17. 9. 2 | 139. 36. 23 | 15. 42. 51 | | | | | | |
| 10 | Mer. | 4. 54, 6 | 8, 7 | 4. 18. 6. 39 | 140. 33. 20 | 15. 25. 15 | | | | | | |
| | | | 9, 3 | | | | | | | | | |
| 11 | Jov. | 4. 45, 3 | | 4. 19. 4. 17 | 141. 30. 8 | 15. 7. 25 | | | | | | |
| 12 | Ven. | 4. 35, 4 | 9, 9 | 4. 20. 1. 56 | 142. 26. 48 | 14. 49. 20 | | | | | | |
| 13 | Sat. | 4. 25, 0 | 10, 4 | 4. 20. 59. 36 | 143. 23. 19 | 14. 31. 1 | | | | | | |
| 14 | Dom. | 4. 14, 0 | 11, 0 | 4. 21. 57. 17 | 144. 19. 42 | 14. 12. 28 | | | | | | |
| 15 | Lun. | 4. 2, 5 | 11, 5 | 4. 22. 54. 58 | 145. 15. 56 | 13. 53. 42 | | | | | | |
| | | | 12, 1 | | | | | | | | | |
| 16 | Mar. | 3. 50, 4 | | 4. 23. 52. 41 | 146. 12. 2 | 13. 34. 42 | | | | | | |
| 17 | Mer. | 3. 37, 7 | 12, 7 | 4. 24. 50. 25 | 147. 8. 0 | 13. 15. 29 | | | | | | |
| 18 | Jov. | 3. 24, 5 | 13, 2 | 4. 25. 48. 10 | 148. 3. 51 | 12. 56. 4 | | | | | | |
| 19 | Ven. | 3. 10, 8 | 13, 7 | 4. 26. 45. 57 | 148. 59. 35 | 12. 36. 25 | | | | | | |
| 20 | Sat. | 2. 56, 6 | 14, 2 | 4. 27. 43. 45 | 149. 55. 11 | 12. 16. 36 | | | | | | |
| | | | 14, 6 | | | | | | | | | |
| 21 | Dom. | 2. 42, 0 | | 4. 28. 41. 35 | 150. 50. 40 | 11. 56. 34 | | | | | | |
| 22 | Lun. | 2. 27, 1 | 14, 9 | 4. 29. 39. 27 | 151. 46. 3 | 11. 36. 21 | | | | | | |
| 23 | Mar. | 2. 11, 8 | 15, 3 | 5. 0. 37. 21 | 152. 41. 20 | 11. 15. 58 | | | | | | |
| 24 | Mer. | 1. 56, 0 | 15, 8 | 5. 1. 35. 16 | 153. 36. 30 | 10. 55. 24 | | | | | | |
| 25 | Jov. | 1. 39, 8 | 16, 2 | 5. 2. 33. 13 | 154. 31. 34 | 10. 34. 39 | | | | | | |
| | | | 16, 5 | | | | | | | | | |
| 26 | Ven. | 1. 23, 3 | | 5. 3. 31. 12 | 155. 26. 33 | 10. 13. 43 | | | | | | |
| 27 | Sat. | 1. 6, 3 | 17, 0 | 5. 4. 29. 13 | 156. 21. 26 | 9. 53. 37 | | | | | | |
| 28 | Dom. | 0. 49, 0 | 17, 3 | 5. 5. 27. 15 | 157. 16. 14 | 9. 31. 22 | | | | | | |
| 29 | Lun. | 0. 31, 4 | 17, 6 | 5. 6. 25. 20 | 158. 10. 57 | 9. 9. 58 | | | | | | |
| 30 | Mar. | 0. 13, 4 | 18, 0 | 5. 7. 23. 27 | 159. 5. 36 | 8. 48. 25 | | | | | | |
| 31 | Mer. | 0. 4, 9 | 18, 3 | 5. 8. 21. 36 | 160. 0. 10 | 8. 26. 43 | | | | | | |
| | | | 18, 5 | | | | | | | | | |

| Dies mensis | Dies hebdomadae | Distantia sc̄ionis Y a Sole | | | Diffe- rentia | | Ini- tium Crepu- sculi | | Ortus Centri Solis | | Occa- sus Centri Solis | | Finis Crepu- sculi | | Hora Italica Meri- diei | |
|-------------|-----------------|-----------------------------------|-----|------|------------------|-------|---------------------------------|----|--------------------------|----|---------------------------------|----|--------------------------|----|----------------------------------|----|
| | | H. | M. | S. | M. | S. | H. | M. | H. | M. | H. | M. | H. | M. | H. | M. |
| 1 | Lun. | 15. | 12. | 18,6 | 3. | 52, 6 | 2. | 30 | 4. | 40 | 7. | 20 | 9. | 30 | 15. | 47 |
| 2 | Mar. | 15. | 8. | 26,0 | 3. | 52, 0 | 2. | 32 | 4. | 42 | 7. | 18 | 9. | 28 | 15. | 49 |
| 3 | Mer. | 15. | 4. | 34,0 | 3. | 51, 4 | 2. | 34 | 4. | 43 | 7. | 17 | 9. | 26 | 15. | 50 |
| 4 | Jov. | 15. | 0. | 42,6 | 3. | 50, 8 | 2. | 36 | 4. | 44 | 7. | 16 | 9. | 24 | 15. | 51 |
| 5 | Ven. | 14. | 56. | 51,8 | 3. | 50, 2 | 2. | 38 | 4. | 45 | 7. | 15 | 9. | 22 | 15. | 53 |
| 6 | Sat. | 14. | 53. | 1,6 | 3. | 49, 6 | 2. | 41 | 4. | 46 | 7. | 14 | 9. | 19 | 15. | 54 |
| 7 | Dom. | 14. | 49. | 12,0 | 3. | 49, 0 | 2. | 43 | 4. | 48 | 7. | 12 | 9. | 17 | 15. | 56 |
| 8 | Lun. | 14. | 45. | 23,0 | 3. | 48, 4 | 2. | 45 | 4. | 49 | 7. | 11 | 9. | 15 | 15. | 57 |
| 9 | Mar. | 14. | 41. | 34,6 | 2. | 47, 8 | 2. | 47 | 4. | 50 | 7. | 10 | 9. | 13 | 15. | 59 |
| 10 | Mer. | 14. | 37. | 46,8 | 3. | 47, 3 | 2. | 49 | 4. | 52 | 7. | 8 | 9. | 11 | 15. | 1 |
| 11 | Jov. | 14. | 33. | 59,5 | 8. | 46, 7 | 2. | 42 | 4. | 53 | 7. | 7 | 9. | 8 | 16. | 3 |
| 12 | Ven. | 14. | 30. | 12,8 | 3. | 46, 1 | 2. | 54 | 4. | 55 | 7. | 5 | 9. | 6 | 16. | 5 |
| 13 | Sat. | 14. | 26. | 26,7 | 3. | 45, 5 | 2. | 56 | 4. | 56 | 7. | 4 | 9. | 4 | 16. | 7 |
| 14 | Dom. | 14. | 22. | 41,2 | 3. | 44, 9 | 2. | 58 | 4. | 58 | 7. | 2 | 9. | 2 | 16. | 9 |
| 15 | Lun. | 14. | 18. | 56,3 | 3. | 44, 4 | 2. | 0 | 4. | 59 | 7. | 1 | 9. | 0 | 16. | 61 |
| 16 | Mar. | 14. | 15. | 11,9 | 3. | 43, 9 | 3. | 2 | 5. | 0 | 7. | 0 | 7. | 58 | 16. | 12 |
| 17 | Mer. | 14. | 11. | 28,0 | 3. | 43, 4 | 3. | 4 | 5. | 1 | 6. | 59 | 8. | 56 | 16. | 14 |
| 18 | Jov. | 14. | 7. | 44,6 | 3. | 42, 9 | 3. | 6 | 5. | 3 | 6. | 57 | 8. | 54 | 16. | 16 |
| 19 | Ven. | 14. | 4. | 1,7 | 3. | 42, 4 | 3. | 8 | 5. | 4 | 6. | 56 | 8. | 52 | 16. | 18 |
| 20 | Sat. | 14. | 0. | 19,3 | 3. | 42, 0 | 3. | 10 | 5. | 5 | 6. | 55 | 8. | 50 | 16. | 20 |
| 21 | Dom. | 13. | 56. | 37,3 | 3. | 41, 5 | 3. | 13 | 5. | 7 | 6. | 53 | 8. | 47 | 16. | 22 |
| 22 | Lun. | 13. | 52. | 55,8 | 3. | 41, 1 | 3. | 15 | 5. | 8 | 6. | 52 | 8. | 45 | 16. | 24 |
| 23 | Mar. | 13. | 49. | 14,7 | 3. | 40, 7 | 3. | 17 | 5. | 10 | 6. | 50 | 8. | 43 | 16. | 26 |
| 24 | Mer. | 13. | 45. | 34,0 | 3. | 40, 3 | 3. | 19 | 5. | 11 | 6. | 49 | 8. | 41 | 16. | 28 |
| 25 | Jov. | 13. | 41. | 53,7 | 3. | 39, 9 | 4. | 21 | 5. | 13 | 6. | 47 | 8. | 39 | 16. | 30 |
| 26 | Ven. | 13. | 38. | 13,8 | 3. | 39, 5 | 3. | 23 | 5. | 14 | 6. | 46 | 8. | 37 | 16. | 32 |
| 27 | Sat. | 13. | 34. | 34,3 | 3. | 39, 2 | 3. | 25 | 5. | 16 | 6. | 44 | 8. | 35 | 16. | 34 |
| 28 | Dom. | 13. | 30. | 55,1 | 3. | 38, 9 | 3. | 27 | 5. | 17 | 6. | 43 | 8. | 33 | 16. | 35 |
| 29 | Lun. | 13. | 27. | 16,2 | 3. | 38, 6 | 3. | 29 | 5. | 19 | 6. | 41 | 8. | 31 | 16. | 37 |
| 30 | Mar. | 13. | 23. | 57,6 | 3. | 38, 3 | 3. | 31 | 5. | 21 | 6. | 39 | 8. | 29 | 16. | 39 |
| 31 | Mer. | 13. | 19. | 59,3 | 3. | 38, 0 | 3. | 33 | 5. | 22 | 6. | 38 | 8. | 27 | 16. | 41 |

| Dies mensis | Dies hebdomadae | Longitudo Lunae Meridie | | | Longitudo Lunae media nocte | | | Latitudo Lunae Meridie | | | Latitudo Lunae med. nocte | | | Paral- laxis Lunae Meri- die | | Paral- laxis Lunae media nocte | |
|-------------|-----------------|-------------------------|-----|--------|-----------------------------|-----|--------|------------------------|-------|------|---------------------------|-----|-------|--|----|--|----|
| | | S. | G. | M. S. | S. | G. | M. S. | G. | M. S. | G. | M. S. | G. | M. S. | M. | S. | M. | S. |
| 1 | Lun. | 2. | 27. | 39. 18 | 3. | 4. | 7. 51 | 3. | 42. | 31 B | 3. | 15. | 36 | 56. | 45 | 56. | 29 |
| 2 | Mar. | 3. | 10. | 32. 57 | 3. | 16. | 54. 41 | 2. | 46. | 25 | 2. | 15. | 25 | 56. | 13 | 55. | 58 |
| 3 | Mer. | 3. | 23. | 13. 7 | 3. | 29. | 28. 23 | 1. | 42. | 59 | 1. | 9. | 34 | 55. | 43 | 55. | 29 |
| 4 | Jov. | 4. | 5. | 40. 42 | 4. | 11. | 50. 9 | 0. | 35. | 37 | 0. | 1. | 31 B | 55. | 17 | 55. | 5 |
| 5 | Ven. | 4. | 17. | 56. 52 | 4. | 24. | 1. 6 | 0. | 32. | 22 A | 1. | 5. | 42 | 54. | 53 | 54. | 42 |
| 6 | Sat. | 5. | 0. | 3. 12 | 5. | 6. | 3. 21 | 1. | 37. | 59 | 2. | 9. | 4 | 54. | 32 | 54. | 24 |
| 7 | Dom | 5. | 12. | 1. 44 | 5. | 17. | 58. 40 | 2. | 38. | 34 | 3. | 6. | 13 | 54. | 17 | 54. | 11 |
| 8 | Lun. | 5. | 23. | 54. 30 | 5. | 29. | 49. 36 | 3. | 31. | 45 | 3. | 54. | 57 | 54. | 7 | 54. | 5 |
| 9 | Mar. | 6. | 5. | 44. 23 | 6. | 11. | 39. 18 | 4. | 15. | 39 | 4. | 33. | 39 | 54. | 5 | 54. | 7 |
| 10 | Mer | 6. | 17. | 34. 39 | 6. | 23. | 31. 1 | 4. | 48. | 42 | 5. | 0. | 41 | 54. | 11 | 54. | 18 |
| 11 | Jov. | 6. | 29. | 28. 58 | 7. | 5. | 29. 3 | 5. | 9. | 30 | 5. | 15. | 0 | 54. | 27 | 54. | 38 |
| 12 | Ven. | 7. | 11. | 31. 50 | 7. | 17. | 37. 50 | 5. | 17. | 4 | 5. | 15. | 32 | 54. | 51 | 55. | 7 |
| 13 | Sat. | 7. | 23. | 47. 32 | 8. | 0. | 1. 32 | 5. | 10. | 29 | 5. | 1. | 42 | 55. | 26 | 55. | 47 |
| 14 | Dom | 8. | 6. | 20. 8 | 8. | 12. | 43. 59 | 4. | 49. | 12 | 4. | 32. | 56 | 56. | 10 | 56. | 34 |
| 15 | Lun. | 8. | 19. | 13. 34 | 8. | 25. | 49. 16 | 4. | 12. | 55 | 3. | 49. | 19 | 57. | 0 | 57. | 27 |
| 16 | Mar | 9. | 2. | 31. 23 | 9. | 9. | 20. 6 | 3. | 22. | 14 | 2. | 51. | 52 | 57. | 55 | 58. | 23 |
| 17 | Mer. | 9. | 16. | 15. 13 | 9. | 23. | 16. 44 | 2. | 18. | 30 | 1. | 42. | 33 | 58. | 51 | 59. | 18 |
| 18 | Jov. | 10. | 0. | 24. 46 | 10. | 7. | 38. 42 | 1. | 4. | 25 | 0. | 24. | 47 A | 59. | 42 | 60. | 4 |
| 19 | Ven. | 10. | 14. | 57. 54 | 10. | 22. | 21. 27 | 0. | 15. | 44 B | 0. | 56. | 19 | 60. | 24 | 60. | 40 |
| 20 | Sat | 10. | 29. | 48. 50 | 11. | 7. | 18. 48 | 1. | 36. | 20 | 2. | 14. | 52 | 60. | 51 | 60. | 58 |
| 21 | Dom | 11. | 14. | 50. 19 | 11. | 22. | 22. 7 | 2. | 51. | 11 | 3. | 24. | 31 | 61. | 1 | 61. | 0 |
| 22 | Lun. | 11. | 29. | 53. 14 | 0. | 7. | 22. 30 | 3. | 54. | 13 | 4. | 19. | 46 | 60. | 54 | 60. | 44 |
| 23 | Mar. | 0. | 14. | 48. 55 | 0. | 22. | 11. 35 | 4. | 40. | 44 | 4. | 56. | 52 | 60. | 31 | 60. | 15 |
| 24 | Mer. | 0. | 29. | 29. 49 | 1. | 6. | 43. 35 | 5. | 7. | 58 | 5. | 14. | 4 | 59. | 56 | 59. | 35 |
| 25 | Jov. | 1. | 13. | 50. 49 | 1. | 20. | 52. 54 | 5. | 15. | 12 | 5. | 11. | 33 | 59. | 14 | 58. | 51 |
| 26 | Ven. | 1. | 27. | 49. 12 | 2. | 4. | 39. 43 | 5. | 3. | 24 | 4. | 51. | 2 | 58. | 27 | 58. | 4 |
| 27 | Sat. | 2. | 11. | 24. 32 | 2. | 18. | 3. 51 | 4. | 34. | 45 | 4. | 14. | 58 | 57. | 41 | 57. | 19 |
| 28 | Dom | 2. | 24. | 37. 58 | 3. | 1. | 7. 12 | 3. | 52. | 5 | 3. | 26. | 30 | 56. | 57 | 56. | 36 |
| 29 | Lun. | 3. | 7. | 31. 48 | 3. | 13. | 52. 12 | 2. | 58. | 37 | 2. | 28. | 50 | 56. | 17 | 55. | 59 |
| 30 | Mar. | 3. | 20. | 8. 46 | 3. | 26. | 21. 53 | 1. | 57. | 32 | 1. | 25. | 7 | 55. | 42 | 55. | 26 |
| 31 | Mer. | 4. | 2. | 31. 54 | 4. | 8. | 39. 80 | 0. | 52. | 0 | 0. | 18. | 34 | 55. | 12 | 55. | 0 |

| Dies mensis | Diameter horiz. Lunae Meridie | | Diameter horiz. Lunae media nocte | | Declinatio Lunae in Meridiano | | Ortus Lunae | Transitus Lunae per Meridianum | Occasus Lunae | | | |
|-------------|-------------------------------|----|-----------------------------------|----|-------------------------------|------|-------------|--------------------------------|---------------|------|-----|------|
| | M. | S. | M. | S. | G. | M. | | | H. | M. | H. | M. |
| 1 Lun. | 30. | 59 | 30. | 50 | 27. | 10 B | 0. | 32 M | 8. | 55 M | 5. | 17 V |
| 2 Mar. | 30. | 41 | 30. | 33 | 25. | 58 | 1. | 35 | 9. | 50 | 5. | 58 |
| 3 Mer. | 30. | 25 | 30. | 18 | 23. | 21 | 2. | 43 | 10. | 43 | 6. | 33 |
| 4 Jov. | 30. | 11 | 30. | 4 | 19. | 36 | 3. | 51 | 11. | 32 | 7. | 2 |
| 5 Ven. | 29. | 58 | 29. | 52 | 14. | 53 | 4. | 59 | 0. | 18 V | 7. | 23 |
| 6 Sat. | 29. | 46 | 29. | 41 | 9. | 44 | 6. | 6 | 1. | 1 | 7. | 44 |
| 7 Dom. | 29. | 38 | 29. | 35 | 4. | 14 B | 7. | 11 | 1. | 42 | 8. | 1 |
| 8 Lun. | 29. | 33 | 29. | 32 | 1. | 20 A | 8. | 14 | 2. | 21 | 8. | 17 |
| 9 Mar. | 29. | 32 | 29. | 33 | 6. | 5 C | 9. | 17 | 3. | 0 | 8. | 34 |
| 10 Mer. | 29. | 35 | 29. | 39 | 12. | 6 | 10. | 20 | 3. | 41 | 8. | 52 |
| 11 Jov. | 29. | 44 | 29. | 50 | 16. | 53 | 11. | 26 | 4. | 24 | 9. | 14 |
| 12 Ven. | 29. | 57 | 30. | 6 | 21. | 7 | 0. | 32 V | 5. | 10 | 9. | 41 |
| 13 Sat. | 30. | 16 | 30. | 27 | 14. | 26 | 1. | 40 | 5. | 59 | 10. | 12 |
| 14 Dom. | 30. | 39 | 30. | 51 | 26. | 33 | 2. | 45 | 6. | 52 | 10. | 57 |
| 15 Lun. | 31. | 7 | 31. | 22 | 27. | 14 | 3. | 47 | 7. | 49 | 11. | 41 |
| 16 Mar. | 31. | 37 | 31. | 53 | 26. | 13 | 4. | 39 | 8. | 47 | * | * |
| 17 Mer. | 32. | 8 | 32. | 23 | 23. | 30 | 5. | 26 | 9. | 46 | 0. | 37 M |
| 18 Jov. | 32. | 36 | 32. | 48 | 19. | 5 | 6. | 0 | 10. | 43 | 2. | 11 |
| 19 Ven. | 32. | 59 | 33. | 8 | 13. | 10 | 6. | 30 | 11. | 39 | 3. | 34 |
| 20 Sat. | 33. | 14 | 33. | 18 | * | * | 6. | 59 | * | * | 4. | 58 |
| 21 Dom. | 33. | 19 | 33. | 19 | 6. | 33 A | 7. | 18 | 0. | 33 | 6. | 23 |
| 22 Lun. | 33. | 16 | 33. | 10 | 0. | 30 B | 7. | 42 | 1. | 25 | 7. | 44 |
| 23 Mar. | 33. | 3 | 33. | 54 | 7. | 33 | 8. | 4 | 2. | 17 | 9. | 6 |
| 24 Mer. | 32. | 44 | 32. | 23 | 14. | 1 | 8. | 31 | 3. | 9 | 10. | 28 |
| 25 Jov. | 32. | 21 | 32. | 8 | 19. | 31 | 9. | 5 | 4. | 3 | 11. | 49 |
| 26 Ven. | 31. | 55 | 31. | 42 | 23. | 42 | 9. | 44 | 4. | 59 | 1. | 7 V |
| 27 Sat. | 31. | 30 | 31. | 18 | 26. | 19 | 10. | 54 | 5. | 57 | 2. | 18 |
| 28 Dom. | 31. | 6 | 30. | 54 | 27. | 10 | 11. | 35 | 6. | 55 | 3. | 16 |
| 29 Lun. | 30. | 44 | 30. | 34 | 26. | 27 | * | * | 7. | 51 | 4. | 3 |
| 30 Mar. | 30. | 25 | 30. | 16 | 24. | 16 | 0. | 37 M | 8. | 44 | 4. | 44 |
| 31 Mer. | 30. | 8 | 30. | 1 | 20. | 56 | 1. | 46 | 9. | 34 | 5. | 18 |

| <i>Dies mensis</i> | <i>Longitudo Planetarum</i> | <i>Latitudo Planetarum</i> | <i>Declinatio Planetarum</i> | <i>Ortus Planetarum</i> | <i>Transitus Planetarum per Meridianum</i> | <i>Occasus Planetarum</i> |
|--------------------|-----------------------------|----------------------------|------------------------------|-------------------------|--|---------------------------|
| | <i>S. G. M.</i> | <i>G. M.</i> | <i>G. M.</i> | <i>H. M.</i> | <i>H. M.</i> | <i>H. M.</i> |

SATURNUS.

| | | | | | | |
|----|-----------|---------|----------|---------|----------|--------|
| 1 | 10. 1. 40 | 0. 31 A | 20. 19 A | 6. 51 V | 11. 26 V | 4. 1 M |
| 7 | 10. 1. 13 | 0. 31 | 20. 25 | 6. 26 | 11. 1 | 4. 36 |
| 13 | 10. 0. 49 | 0. 32 | 20. 31 | 6. 3 | 10. 37 | 4. 11 |
| 19 | 10. 0. 25 | 0. 32 | 20. 36 | 5. 39 | 10. 13 | 4. 47 |
| 25 | 10. 0. 4 | 0. 32 | 20. 41 | 5. 17 | 9. 50 | 3. 23 |

JUPITER.

| | | | | | | |
|----|-----------|---------|---------|---------|--------|----------|
| 1 | 0. 14. 42 | 1. 28 A | 4. 27 B | 9. 45 V | 4. 6 M | 10. 27 M |
| 7 | 0. 14. 41 | 1. 30 | 4. 25 | 9. 22 | 3. 43 | 10. 4 |
| 13 | 0. 14. 33 | 1. 31 | 4. 20 | 9. 0 | 3. 20 | 9. 40 |
| 19 | 0. 14. 17 | 1. 33 | 4. 13 | 8. 37 | 2. 56 | 9. 16 |
| 25 | 0. 13. 55 | 1. 34 | 4. 3 | 8. 14 | 2. 33 | 8. 52 |

MARS.

| | | | | | | |
|----|-----------|---------|----------|----------|--------|--------|
| 1 | 1. 14. 12 | 1. 54 A | 14. 17 B | 10. 57 V | 6. 0 M | 1. 3 V |
| 7 | 1. 17. 53 | 1. 51 | 15. 23 | 10. 43 | 5. 51 | 0. 59 |
| 13 | 1. 21. 24 | 1. 48 | 16. 22 | 10. 31 | 5. 43 | 0. 55 |
| 19 | 1. 24. 48 | 1. 44 | 17. 16 | 10. 18 | 5. 24 | 0. 50 |
| 25 | 1. 28. 2 | 1. 40 | 18. 6 | 10. 5 | 5. 25 | 0. 45 |

VENUS.

| | | | | | | |
|----|-----------|---------|----------|---------|---------|---------|
| 1 | 2. 24. 0 | 2. 46 A | 19. 32 B | 1. 19 M | 8. 47 M | 4. 15 V |
| 7 | 2. 29. 32 | 2. 25 | 20. 1 | 1. 19 | 8. 48 | 4. 18 |
| 13 | 3. 5. 20 | 2. 2 | 20. 18 | 1. 19 | 8. 50 | 4. 21 |
| 19 | 3. 11. 23 | 2. 36 | 20. 28 | 1. 22 | 8. 53 | 4. 24 |
| 25 | 3. 17. 37 | 2. 9 | 20. 10 | 1. 26 | 8. 57 | 4. 28 |

MERCURIUS.

| | | | | | | |
|----|-----------|---------|----------|---------|--------|--------|
| 1 | 4. 24. 22 | 1. 25 B | 14. 45 B | 5. 56 M | 1. 1 V | 8. 6 V |
| 7 | 5. 4. 34 | 0. 50 | 10. 37 | 6. 29 | 1. 16 | 8. 3 |
| 13 | 5. 13. 50 | 0. 4 | 6. 25 | 6. 58 | 1. 27 | 7. 56 |
| 19 | 5. 28. 9 | 0. 49 A | 2. 21 | 7. 21 | 1. 34 | 7. 47 |
| 25 | 5. 29. 24 | 1. 45 | 1. 23 A | 7. 29 | 1. 37 | 7. 25 |

ECLIPSES SATELLITUM JOVIS.

| Dies mensis | I. Satelles. | | | Dies | II. Satelles. | | | Dies | III. Satelles. | | |
|----------------|--------------|-----|----|------|---------------|-----|----|------|----------------|-----|------|
| | Immerfiones | | | | Immerfiones | | | | Imers. Emerf. | | |
| | H. | M. | S. | | H. | M. | S. | | H. | M. | S. |
| 2 | 7. | 2. | 50 | 2 | 7. | 40. | 58 | 4 | 4. | 17. | 42 I |
| 4 | 1. | 31. | 10 | 5 | 21. | 0. | 6 | 4 | 6. | 48. | 8 E |
| 5 | 19. | 59. | 50 | 9 | 10.* | 19. | 20 | 11 | 8. | 19. | 40 I |
| 7 | 14.* | 28. | 30 | 12 | 23. | 38. | 42 | 11 | 10.* | 48. | 44 E |
| 9 | 8. | 57. | 10 | 16 | 12.* | 58. | 12 | 18 | 12.* | 22. | 10 I |
| 11 | 3. | 25. | 50 | 20 | 2 | 17. | 50 | 18 | 14.* | 49. | 52 E |
| 12 | 21. | 54. | 36 | 23 | 15 * | 37. | 30 | 25 | 16.* | 25. | 15 I |
| 14 | 16.* | 23. | 24 | 27 | 4. | 57. | 14 | 25 | 18. | 51. | 35 E |
| 16 | 10.* | 52. | 10 | 30 | 18. | 17. | 4 | | | | |
| 18 | 5. | 21. | 0 | | | | | | | | |
| 19 | 23. | 49. | 54 | | | | | | | | |
| 21 | 18. | 18. | 48 | | | | | | | | |
| 23 | 12.* | 47. | 45 | | | | | | | | |
| 25 | 7. | 16. | 42 | | | | | | | | |
| 27 | 1. | 45. | 2 | | | | | 6 | 19. | 0. | 40 |
| 28 | 2. | 14. | 45 | | | | | 6 | 21. | 18. | 50 |
| 30 | 14.* | 43. | 48 | | | | | 23 | 13.* | 24. | 48 |
| | | | | | | | | 23 | 14.* | 30. | 28 |

| Dies | IV. Satelles. | | |
|------|---------------|--------|----|
| | Imers. | Emerf. | |
| 6 | 19. | 0. | 40 |
| 6 | 21. | 18. | 50 |
| 23 | 13.* | 24. | 48 |
| 23 | 14.* | 30. | 28 |

| Dies | Diameter Solis | Mora transitus Solis per Meridian. | Motus horarius Solis | Logarithmus distantiae Solis a terra posita media 100000 | Longitudo Nodi Lunae |
|------|----------------|------------------------------------|----------------------|--|----------------------|
| | M. S. | M. S. | M. S. | | S. G. M. |
| 1 | 31. 35. 3 | 2. 12. 8 | 2. 23. 6 | 5. 006227 | 10. 12. 4 |
| 4 | 31. 36. 2 | 2. 12. 3 | 2. 23. 7 | 5. 006033 | 10. 11. 54 |
| 7 | 31. 37. 1 | 2. 11. 8 | 2. 23. 9 | 5. 005823 | 10. 11. 46 |
| 10 | 31. 38. 2 | 2. 11. 3 | 2. 24. 1 | 5. 005598 | 10. 11. 39 |
| 13 | 31. 39. 4 | 2. 10. 8 | 2. 24. 3 | 5. 005357 | 10. 11. 26 |
| 16 | 31. 40. 6 | 2. 10. 4 | 2. 24. 4 | 5. 005102 | 10. 11. 16 |
| 19 | 31. 41. 7 | 2. 10. 0 | 2. 24. 6 | 5. 004835 | 10. 11. 2 |
| 22 | 31. 42. 9 | 2. 9. 6 | 2. 24. 8 | 5. 004553 | 10. 10. 52 |
| 25 | 31. 44. 1 | 2. 9. 2 | 2. 25. 0 | 5. 004260 | 10. 10. 47 |
| 28 | 31. 45. 4 | 2. 8. 8 | 2. 25. 2 | 5. 003956 | 10. 10. 28 |

| POSITIONES SATELLITUM JOVIS | | <i>Oriens</i> | 11 ^h <i>Vespere</i> | <i>Occidens</i> |
|-----------------------------|----|----------------------------------|--|------------------|
| 1 | | | 1 ^o ○ | 2 ^o 1 |
| 2 | | | 2 ^o 1 ○ | 3 |
| 3 | | .2 | ○ | .1 1. |
| 4 | | 1. 3. | ○ | .2 |
| 5 | | 1. | ○ | .12. 4. |
| 6 | | .3 2. 1 | ○ | 4. |
| 7 | | | 2 ^o 3 ^o 4 ^o ○ | 1. |
| 8 | | 4. | .1 ○ | .1. 2 |
| 9 | | 4. | ○ | .3 10 10 |
| 10 | 4. | 2. | ○ | .1 3. |
| 11 | .4 | | 1. ○ | .2 10 |
| 12 | .4 | 1. | ○ | .1 2. |
| 13 | .4 | .3 2. 1. | ○ | |
| 14 | | .4 2 ^o 3 ^o | ○ | 1. |
| 15 | | .1 .4 | ○ | 3 ^o 2 |
| 16 | | | ○ | 1. 2. .4 .3 |
| 17 | 10 | 2. | ○ | 3. .4 |
| 18 | 20 | | 1. ○ | 3. .4 |
| 19 | | 3. | ○ | .3 2. .4 |
| 20 | | .3 2 ^o 3 ^o | ○ | 4. |
| 21 | | .1. 2 | ○ | 2. 4. |
| 22 | | .1 | ○ | .3 .2 4. |
| 23 | | | ○ | 1. 4. 2. .3 |
| 24 | 10 | 2. 4. | ○ | 1. |
| 25 | | 4. | 1 ^o 2 ^o ○ | 1. |
| 26 | 4. | 3. | ○ | .1 .2 |
| 27 | 4. | 3. | 1. 2. ○ | |
| 28 | .4 | .1. 2 | ○ | .1 |
| 29 | .4 | .1 | ○ | .2 10 |
| 30 | | .4 | ○ | 1. 2. .3 |
| 31 | | 2 ^o 4 | .1 ○ | 1. |
| | | | ○ | |

| Phaenomena & Observationes Solis | | Phaenomena & Observationes Lunae | |
|---------------------------------------|---|---|--|
| Sol in parallelo | | Luna | |
| 3 | Orion. & α Serp. culm. 18h 48' & 4h 40' | 2 | ad α Leonis 6h 6' |
| 6 | Orion., β Aquilae, & Procyon culm. 18h 8', 8h 40' & 20h 21' | 3 | Novilunium 5h 33' |
| 8 | Serpentis culm. 4h 29' | 4 | Apogea ad β Virginis 7h 0' |
| 10 | β Oph. & δ Virg. 6h 14' & 1h 27' | 6 | ad α Virginis 13h 20' |
| 14 | α Ceti & β Virg. culm. 15h 16' & 0h 8' | 9 | ad π Scorpii 19h 24' |
| 15 | γ Ophiuci & δ Aquil. culm. 6h 1' & 7h 38' | 10 | ad α Scorpii 8h 30' |
| 16 | γ Ceti culm. 14h 54' | 11 | Primus Quadrans ad 43 Oph. (Imm. 7h 39') 7h 39' (Emerf. 8h 54') dist. 3' |
| 18 | α Piscium culm. 14h 2' | 13 | ad ♀ Sagittarii 5h 47' |
| 20 | α & ζ Virg. & Antin. culm. 0h 15' 1h 30' 7h 47' | 15 | ad θ Aquarii 4h 0' |
| 22 | in signo Librae 4h 56' | 17 | Plenilunium 16h 39' |
| 23 | δ Orion. & δ Ceti 17h 15' & 14h 22' | 18 | Perigea ad μ & ε Arietis 4h 40' & 11h 12' |
| 25 | α Orionis, α Aquarii, γ Antinoi culm. 17h 11' 9h 42' & 7h 48' | 22 | ad η Tauri 6h 15' |
| 26 | Antinoi culm. 7h 9' | 23 | ad β Tauri 22h 0' |
| 27 | ζ Orionis culm. 17h 8' | 24 | Ultimus Quadrans ad 1. α Geminorum 12h 27' |
| 28 | γ Aquar. & γ Orion. culm. 9h 47' 16h 49' | 25 | ad μ Cancrī 18h 18' |
| 29 | α & β Serp. culm. 3h 12' & 5h 43' | 28 | ad ♀ Leonis 17h 24' |
| 30 | δ Ophiuci culm. 3h 34' | 29 | ad α Leonis 6h 9' |
| Phaenomena & Observationes Planetarum | | Planetae in parallelis fixarum | |
| 1 | Saturnus ad σ Capri diff. l. 1. 0 2' | Saturnus α Capri, β Canis, δ & β Leporis, μ, π, 2 ζ Sagittarii | |
| 4 | Venus ad ζ Cancrī diff. lat. 54' | Jupiter 1 θ Serp., 15 α Ceti, 19 β Virg., 22 γ Ophiuci, 25 δ Aquilae, 30 γ Ceti. | |
| 4 | Mars ad 2 ω Tauri diff. lat. 44' | Mars 1 δ Cancrī, 7 η Bootis, γ Herc., β Arietis, 16 Arcturi, 22 ζ Gemin., & ζ Tauri, 25 γ Leonis, 28 ε Tauri | |
| 6 | Venus ad 1. 2. d Cancrī diff. lat. 16' & 58' | Venus 1 γ Herc., η Bootis, 7 ε Pegasi, ε Tauri, 13 β Leonis, α Sagittae, 18 γ & β Serp. Aldebaran, 22 α Delphini, γ Tauri, 24 ε Aquilae, ζ Boot., α Herc., 29 α Leonis & α Oph. | |
| 7 | Mercurius ad π Virg. diff. lat. 9' | Mercurius 1 δ Ophiuci & ζ Serpentis, 0 Ceti, ε Ophiuci, φ Sagittarii, 0 Erid., α Hydr. | |
| 9 | Mars ad ε Tauri diff. lat. 1. 0 10' | | |
| 10 | Venus ad δ Cancrī diff. lat. 1. 0 | | |
| 14 | Venus ad 1. 2. 0 Cancrī diff. lat. 1. 0 12' & 55' | | |
| 17 | Venus ad π Cancrī diff. lat. 38' | | |
| 23 | Venus ad ♀ Leonis diff. lat. 21' | | |
| 24 | Mercurius in conjunct. infer. | | |
| 27 | Venus ad η Leonis diff. lat. 13' | | |
| 28 | Venus ad α Leonis diff. lat. 7' | | |

| Dies mensis | Dies hebdomadae | Aequatio | Diffe- | Longitudo | Ascensio recta | Declinatio |
|-------------|-----------------|---|--------|---------------|----------------|-------------------|
| | | subtrahenda tempori vero ut habeatur medium | rentia | Solis | Solis | Solis Borealis |
| | | M. S. | S. | S. G. M. S. | G. M. S. | G. M. S. |
| 1 | Jov. | 0. 23, 4 | 18, 5 | 5. 9. 19. 47 | 160. 54. 39 | 8. 4. 53 |
| 2 | Ven. | 0. 42, 3 | 18, 9 | 5. 10. 18. 0 | 161. 49. 4 | 7. 42. 55 |
| 3 | Sat. | 1. 1, 4 | 19, 1 | 5. 11. 16. 14 | 162. 43. 26 | 7. 20. 49 |
| 4 | Dom | 1. 20, 7 | 19, 3 | 5. 12. 14. 30 | 163. 37. 44 | 6. 58. 36 |
| 5 | Lun. | 1. 40, 3 | 19, 6 | 5. 13. 12. 48 | 164. 31. 58 | 6. 26. 17 |
| 6 | Mar | 2. 0. 1 | 19, 8 | 5. 14. 11. 7 | 165. 26. 8 | 6. 13. 51 |
| 7 | Mer. | 2. 20, 1 | 20, 0 | 5. 15. 9. 27 | 166. 20. 14 | 5. 51. 19 |
| 8 | Jov | 2. 40, 3 | 20, 2 | 5. 16. 7. 49 | 167. 14. 19 | 5. 28. 41 |
| 9 | Ven. | 3. 0, 8 | 20, 5 | 5. 17. 6. 13 | 168. 8. 21 | 5. 5. 58 |
| 10 | Sat. | 3 21, 4 | 20, 6 | 5. 18. 4. 38 | 169. 2. 20 | 4. 43. 10 |
| | | | 20, 6 | | | |
| 11 | Dom | 3. 42, 0 | | 5. 19. 3. 4 | 169. 56. 16 | 4. 20. 17 |
| 12 | Lun. | 4. 2, 8 | 20, 8 | 5. 20. 1. 32 | 170. 50. 10 | 3. 57. 19 |
| 13 | Mar. | 4. 23, 8 | 21, 0 | 5. 21. 0. 2 | 171. 44. 3 | 3. 34. 17 |
| 14 | Mer. | 4. 44, 8 | 21, 0 | 5. 21. 58. 33 | 172. 37. 55 | 3. 11. 12 |
| 15 | Jov. | 5. 5, 9 | 21, 1 | 5. 22. 57. 6 | 173. 31. 46 | 2. 48. 4 |
| | | | 21, 2 | | | |
| 16 | Ven. | 5. 27, 1 | | 5. 23. 55. 41 | 174. 25. 37 | 2. 24. 52 |
| 17 | Sat. | 5. 48, 2 | 21, 1 | 5. 24. 54. 18 | 175. 19. 28 | 2. 1. 37 |
| 18 | Dom | 6. 9, 8 | 21, 0 | 5. 25. 52. 57 | 176. 13. 19 | 1. 38. 19 |
| 19 | Lun. | 6. 30, 2 | 21, 0 | 5. 26. 51. 38 | 177. 7. 11 | 1. 14. 59 |
| 20 | Mar | 6. 51, 1 | 20, 9 | 5. 27. 50. 21 | 178. 1. 4 | 0. 51. 37 |
| | | | 20, 9 | | | |
| 21 | Mer. | 7. 12, 0 | | 5. 28. 49. 6 | 178. 54. 58 | 0. 28. 13 |
| 22 | Jov. | 7. 22, 7 | 20, 7 | 5. 29. 47. 54 | 179. 48. 54 | 0. 4. 48 |
| 23 | Ven. | 7. 53, 3 | 20, 6 | 6. 0. 46. 44 | 180. 42. 52 | 0. 18. 37 |
| 24 | Sat. | 8. 13, 8 | 20, 5 | 6. 1. 45. 37 | 181. 36. 52 | 0. 42. 3 |
| 25 | Dom | 8 24, 2 | 20, 4 | 6. 2. 44. 32 | 182. 30. 55 | 1. 5. 20 |
| | | | 20, 2 | | | |
| 26 | Lun. | 8. 54, 4 | | 6. 3. 43. 29 | 183. 25. 1 | 1. 28. 57 |
| 27 | Mar. | 9. 14, 3 | 19, 9 | 6. 4. 42. 29 | 184. 19. 11 | 1. 52. 23 |
| 28 | Mer. | 9. 23, 9 | 19, 6 | 6. 5. 41. 31 | 185. 13. 24 | 2. 15. 49 |
| 29 | Jov | 9. 53, 2 | 19, 4 | 6. 6. 40. 35 | 186. 7. 41 | 2. 39. 14 |
| 30 | Ven. | 10. 12, 4 | 19, 1 | 6. 7. 39. 41 | 187. 2. 3 | 3. 2. 37 |
| | | | 18, 8 | | | |

| Dies hebdomadae Dies mensis | Distantia sectionis Y a Sole | Distantia | Diffe- | Ini- | Ortus | Occa- | Finis | Horu |
|--------------------------------|------------------------------|-----------|--------|-------|--------|-------|--------|--------|
| | | M. S. | rentia | tium | Centri | sus | Crepu- | italia |
| | H. M. S. | M. S. | H. M. | Solis | Centri | sculi | Afri- | dici |
| | | | | H. M. | H. M. | H. M. | H. M. | H. M. |
| 1 Jov. | 13. 16. 21,3 | 3. 37, 7 | 3. 37 | 5. 23 | 6. 37 | 8. 25 | 16. 43 | |
| 2 Ven. | 13. 12. 43,6 | 3. 37, 4 | 3. 35 | 5. 25 | 6. 35 | 8. 23 | 16. 45 | |
| 3 Sat. | 13. 9. 6,2 | 3. 37, 1 | 3. 39 | 5. 27 | 6. 33 | 8. 21 | 16. 57 | |
| 4 Dom. | 13. 5. 29,1 | 3. 36, 9 | 3. 42 | 5. 29 | 6. 31 | 8. 18 | 16. 49 | |
| 5 Lun. | 13. 1. 52,2 | 3. 36, 7 | 3. 44 | 5. 30 | 6. 30 | 8. 16 | 16. 51 | |
| 6 Mar. | 12. 58. 15,5 | 3. 36, 5 | 3. 46 | 5. 31 | 6. 29 | 8. 14 | 16. 53 | |
| 7 Mer. | 12. 54. 39,0 | 3. 36, 3 | 3. 48 | 5. 33 | 6. 27 | 8. 12 | 16. 55 | |
| 8 Jov. | 12. 51. 2,7 | 3. 36, 1 | 3. 50 | 5. 35 | 6. 25 | 8. 10 | 16. 57 | |
| 9 Ven. | 12. 47. 26,6 | 3. 35, 9 | 3. 52 | 5. 36 | 6. 24 | 8. 8 | 16. 59 | |
| 10 Sat. | 12. 43. 50,7 | 3. 35, 8 | 3. 54 | 5. 38 | 6. 22 | 8. 6 | 17. 1 | |
| 11 Dom. | 12. 40. 14,9 | 3. 35, 6 | 3. 56 | 5. 41 | 6. 11 | 8. 4 | 17. 3 | |
| 12 Lun. | 12. 36. 39,3 | 3. 35, 5 | 3. 58 | 5. 42 | 6. 19 | 8. 2 | 17. 5 | |
| 13 Mar. | 12. 33. 3,8 | 3. 35, 5 | 3. 0 | 5. 44 | 6. 18 | 8. 0 | 17. 7 | |
| 14 Mer. | 12. 29. 28,3 | 3. 35, 4 | 3. 2 | 5. 45 | 6. 16 | 7. 58 | 17. 9 | |
| 15 Jov. | 12. 25. 52,9 | 3. 35, 4 | 3. 4 | 5. 47 | 6. 15 | 7. 56 | 17. 11 | |
| 16 Ven. | 12. 22. 17,5 | 3. 35, 4 | 3. 6 | 5. 48 | 6. 13 | 7. 54 | 17. 13 | |
| 17 Sat. | 12. 18. 42,1 | 3. 35, 4 | 3. 8 | 5. 50 | 6. 12 | 7. 52 | 17. 15 | |
| 18 Dom. | 12. 15. 6,7 | 3. 35, 4 | 4. 10 | 5. 51 | 6. 10 | 7. 50 | 17. 17 | |
| 19 Lun. | 12. 11. 31,3 | 3. 35, 5 | 4. 12 | 5. 53 | 6. 6 | 7. 48 | 17. 18 | |
| 20 Mar. | 12. 7. 55,8 | 3. 35, 6 | 4. 14 | 5. 55 | 6. 7 | 7. 46 | 17. 20 | |
| 21 Mer. | 12. 4. 20,2 | 3. 35, 8 | 4. 16 | 5. 57 | 6. 5 | 7. 44 | 17. 22 | |
| 22 Jov. | 12. 0. 44,4 | 3. 35, 9 | 4. 17 | 5. 58 | 6. 3 | 7. 42 | 17. 24 | |
| 23 Ven. | 11. 57. 8,5 | 3. 35, 0 | 4. 18 | 5. 59 | 6. 2 | 7. 40 | 17. 26 | |
| 24 Sat. | 11. 53. 32,5 | 3. 36, 2 | 4. 19 | 6. 0 | 6. 0 | 7. 41 | 17. 28 | |
| 25 Dom. | 11. 49. 56,3 | 3. 36, 4 | 4. 21 | 6. 1 | 5. 59 | 7. 39 | 17. 29 | |
| 26 Lun. | 11. 46. 19,9 | 3. 36, 6 | 4. 22 | 6. 3 | 5. 57 | 7. 38 | 17. 31 | |
| 27 Mar. | 11. 42. 43,3 | 3. 36, 9 | 4. 24 | 6. 5 | 5. 55 | 7. 36 | 17. 33 | |
| 28 Mer. | 11. 39. 6,4 | 3. 37, 2 | 4. 25 | 6. 6 | 5. 54 | 7. 35 | 17. 35 | |
| 29 Jov. | 11. 35. 29,2 | 3. 37, 4 | 4. 27 | 6. 8 | 5. 52 | 7. 33 | 17. 37 | |
| 30 Ven. | 11. 31. 52,8 | 3. 37, 7 | 4. 29 | 6. 9 | 5. 51 | 7. 32 | 17. 38 | |

| Dies mensis | Dies hebdomadae | Longitudo Lunae | | | Latitudo Lunae | | | Paral- laxis Lunae | |
|-------------|-----------------|-----------------|----------------|-------------|----------------|---------|-------------|-----------------------|--|
| | | Meridie | media nocte | Meridie | med. nocte | Meridie | media nocte | | |
| | | S. G. M. S. | S. G. M. S. | G. M. S. | G. M. S. | M. S. | M. S. | | |
| 1 | Jov. | 4. 14. 43. 57 | 4. 20. 46. 38 | 0. 14. 50 A | 0. 47. 51 | 54. 48 | 54. 37 | | |
| 2 | Ven. | 4. 26. 47. 29 | 5. 2. 46. 43 | 1. 20. 7 | 1. 51. 19 | 54. 28 | 54. 20 | | |
| 3 | Sat. | 5. 8. 44. 41 | 5. 14. 41. 33 | 2. 21. 11 | 2. 49. 24 | 54. 13 | 54. 7 | | |
| 4 | Dom | 5. 20. 37. 35 | 5. 26. 32. 57 | 3. 15. 39 | 3. 39. 42 | 54. 3 | 54. 0 | | |
| 5 | Lun. | 6. 2. 27. 56 | 6. 8. 22. 47 | 4. 1. 21 | 4. 20. 24 | 53. 58 | 53. 58 | | |
| 6 | Mar. | 6. 14. 17. 43 | 6. 20. 13. 3 | 4. 36. 38 | 4. 49. 55 | 54. 0 | 54. 3 | | |
| 7 | Mer. | 6. 26. 9. 5 | 7. 2. 6. 11 | 5. 0. 4 | 5. 7. 0 | 54. 8 | 54. 15 | | |
| 8 | Jov. | 7. 8. 4. 41 | 7. 14. 5. 6 | 5. 10. 39 | 5. 10. 55 | 54. 23 | 54. 34 | | |
| 9 | Ven. | 7. 20. 7. 40 | 7. 26. 18. 58 | 5. 7. 44 | 5. 1. 4 | 54. 48 | 55. 3 | | |
| 10 | Sat. | 8. 2. 21. 28 | 8. 8. 33. 44 | 4. 50. 53 | 4. 37. 11 | 55. 20 | 55. 40 | | |
| 11 | Dom | 8. 14. 50. 13 | 8. 21. 11. 28 | 4. 20. 3 | 3. 59. 30 | 56. 2 | 56. 25 | | |
| 12 | Lun. | 8. 27. 37. 53 | 9. 4. 10. 23 | 3. 35. 42 | 3. 8. 45 | 56. 50 | 57. 17 | | |
| 13 | Mar. | 9. 10. 48. 15 | 9. 17. 33. 0 | 2. 38. 50 | 2. 6. 10 | 57. 46 | 58. 15 | | |
| 14 | Mer. | 9. 24. 24. 33 | 10. 1. 23. 8 | 1. 31. 16 | 0. 54. 28 | 58. 44 | 59. 12 | | |
| 15 | Jov. | 10. 8. 28. 36 | 10. 15. 40. 53 | 0. 16. 11 A | 0. 22. 53 B | 59. 40 | 60. 6 | | |
| 16 | Ven. | 10. 22. 59. 43 | 11. 0. 24. 27 | 1. 2. 12 | 1. 40. 52 | 60. 29 | 60. 49 | | |
| 17 | Sat. | 11. 7. 54. 23 | 11. 15. 28. 21 | 2. 18. 16 | 2. 53. 31 | 61. 5 | 61. 17 | | |
| 18 | Dom | 11. 23. 5. 31 | 0. 0. 44. 19 | 2. 25. 54 | 3. 54. 41 | 61. 24 | 61. 26 | | |
| 19 | Lun. | 0. 8. 23. 31 | 0. 16. 1. 32 | 4. 19. 13 | 4. 39. 3 | 61. 23 | 61. 16 | | |
| 20 | Mar. | 0. 23. 37. 8 | 1. 1. 9. 1 | 4. 53. 48 | 5. 3. 21 | 61. 4 | 60. 47 | | |
| 21 | Mer. | 1. 8. 35. 59 | 1. 15. 57. 13 | 5. 7. 36 | 5. 6. 44 | 60. 27 | 60. 4 | | |
| 22 | Jov. | 1. 23. 12. 0 | 2. 0. 19. 59 | 5. 0. 53 | 4. 50. 26 | 59. 39 | 59. 12 | | |
| 23 | Ven. | 2. 7. 20. 47 | 2. 14. 14. 26 | 4. 35. 46 | 4. 17. 20 | 58. 44 | 58. 16 | | |
| 24 | Sat. | 2. 21. 0. 57 | 2. 27. 40. 40 | 3. 55. 33 | 3. 30. 54 | 57. 48 | 57. 21 | | |
| 25 | Dom | 3. 4. 13. 54 | 3. 10. 41. 7 | 3. 3. 51 | 2. 34. 51 | 56. 55 | 56. 31 | | |
| 26 | Lun. | 3. 17. 2. 51 | 3. 23. 19. 38 | 2. 4. 20 | 1. 32. 41 | 56. 8 | 55. 47 | | |
| 27 | Mar. | 3. 29. 31. 58 | 4. 5. 40. 23 | 1. 0. 20 | 0. 27. 39 B | 55. 28 | 55. 11 | | |
| 28 | Mer. | 4. 11. 45. 35 | 4. 17. 48. 1 | 0. 5. 4 A | 0. 37. 27 | 54. 56 | 54. 43 | | |
| 29 | Jov. | 4. 23. 48. 7 | 4. 29. 46. 25 | 1. 9. 9 | 1. 39. 52 | 54. 31 | 54. 21 | | |
| 30 | Ven. | 5. 5. 43. 19 | 5. 11. 39. 15 | 2. 9. 22 | 2. 37. 20 | 54. 13 | 54. 7 | | |

| Dies hebdomadae Dies mensis | Diameter horiz. Lunae Meridie | | Diameter horiz. Lunae media nocte | | Declinatio Lunae in Meri- diano | Ortus Lunae | Transitus Lunae per Meri- dianam | Occasus Lunae |
|--------------------------------|--|----|---|----|--|----------------|---|------------------|
| | M. | S. | M. | S. | G. M. | H. M. | H. M. | H. M. |
| 1. Jov. | 29. | 56 | 29. | 49 | 16. 31 B | 2. 55 M | 10. 22 M | 5. 37 V |
| 2. Ven. | 29. | 44 | 29. | 40 | 11. 33 | 4. 2 | 11. 6 | 5. 58 |
| 3. Sat. | 29. | 36 | 29. | 33 | 6. 6 | 5. 8 | 11. 47 | 6. 14 |
| 4. Dom. | 29. | 31 | 29. | 29 | 0. 36 B | 6. 11 | 0. 27 V | 6. 33 |
| 5. Lun. | 29. | 28 | 29. | 28 | 4. 59 A | 7. 15 | 1. 7 | 6. 49 |
| 6. Mar. | 29. | 29 | 29. | 31 | 10. 16 | 8. 18 | 1. 47 | 7. 6 |
| 7. Mer. | 29. | 33 | 29. | 37 | 15. 17 | 9. 23 | 2. 29 | 7. 27 |
| 8. Jov. | 29. | 42 | 29. | 48 | 19. 38 | 10. 28 | 3. 13 | 7. 51 |
| 9. Ven. | 29. | 55 | 30. | 3 | 23. 14 | 11. 34 | 4. 0 | 8. 21 |
| 10. Sat. | 30. | 13 | 30. | 24 | 25. 48 | 0. 40 V | 4. 51 | 8. 52 |
| 11. Dom. | 30. | 36 | 30. | 48 | 27. 3 | 1. 41 | 5. 44 | 9. 46 |
| 12. Lun. | 31. | 2 | 31. | 17 | 26. 49 | 2. 27 | 6. 40 | 10. 45 |
| 13. Mar. | 31. | 32 | 31. | 48 | 24. 53 | 3. 24 | 7. 38 | 11. 57 |
| 14. Mer. | 32. | 4 | 32. | 19 | 21. 13 | 4. 3 | 8. 35 | 1. 4 |
| 15. Jov. | 32. | 34 | 32. | 49 | 16. 8 | 4. 35 | 9. 31 | 1. 4 M |
| 16. Ven. | 33. | 2 | 33. | 13 | 10. 12 | 5. 4 | 10. 25 | 2. 37 |
| 17. Sat. | 33. | 22 | 33. | 28 | 3. 3 A | 5. 27 | 11. 18 | 3. 56 |
| 18. Dom. | 33. | 32 | 33. | 33 | 7. 7 | 5. 51 | 1. 4 | 5. 22 |
| 19. Lun. | 33. | 22 | 33. | 27 | 3. 58 B | 6. 13 | 0. 11 M | 6. 45 |
| 20. Mar. | 33. | 21 | 33. | 18 | 10. 48 | 6. 42 | 1. 5 | 8. 9 |
| 21. Mer. | 33. | 1 | 32. | 48 | 17. 5 | 7. 14 | 2. 0 | 9. 38 |
| 22. Jov. | 32. | 35 | 32. | 20 | 22. 2 | 7. 51 | 2. 57 | 10. 55 |
| 23. Ven. | 32. | 4 | 31. | 49 | 25. 25 | 8. 29 | 3. 56 | 0. 13 V |
| 24. Sat. | 31. | 34 | 31. | 19 | 26. 58 | 9. 25 | 4. 56 | 1. 17 |
| 25. Dom. | 31. | 5 | 30. | 52 | 26. 45 | 10. 38 | 5. 55 | 2. 14 |
| 26. Lun. | 30. | 39 | 30. | 27 | 24. 22 | 11. 45 | 6. 51 | 2. 56 |
| 27. Mar. | 30. | 27 | 30. | 8 | 21. 54 | 1. 7 | 7. 43 | 3. 25 |
| 28. Mer. | 30. | 0 | 29. | 52 | 17. 50 | 0. 56 M | 8. 29 | 3. 59 |
| 29. Jov. | 29. | 46 | 29. | 41 | 13. 5 | 1. 3 | 9. 13 | 4. 18 |
| 30. Ven. | 29. | 36 | 29. | 33 | 7. 59 | 2. 9 | 9. 55 | 4. 29 |

| Dies mensis | Longitudo Planetarum | Latitudo Planetarum | Declinatio Planetarum | Ortus Planetarum | Transitus Planetarum per Meridianum | Occasus Planetarum |
|-------------|----------------------|---------------------|-----------------------|------------------|-------------------------------------|--------------------|
| | S. G. M. | G. M. | G. M. | H. M. | H. M. | H. M. |

SATURNUS.

| | | | | | | |
|----|-----------|---------|----------|---------|---------|---------|
| 1 | 9. 29. 42 | 0. 33 A | 20. 46 A | 4. 50 V | 9. 23 V | 1. 56 M |
| 7 | 9. 29. 26 | 0. 33 | 20. 50 | 4. 27 | 9. 0 | 1. 33 |
| 13 | 9. 29. 14 | 0. 33 | 20. 53 | 4. 5 | 8. 38 | 1. 11 |
| 19 | 9. 29. 4 | 0. 33 | 20. 55 | 3. 44 | 8. 16 | 0. 48 |
| 25 | 9. 28. 58 | 0. 34 | 20. 56 | 3. 22 | 7. 54 | 0. 26 |

JUPITER.

| | | | | | | |
|----|-----------|---------|---------|---------|--------|---------|
| 1 | 0. 13. 23 | 1. 36 A | 3. 48 B | 7. 50 V | 2. 8 M | 8. 26 M |
| 7 | 0. 12. 48 | 1. 37 | 3. 34 | 7. 27 | 1. 44 | 8. 1 |
| 13 | 0. 12. 8 | 1. 38 | 3. 17 | 7. 4 | 1. 20 | 7. 36 |
| 19 | 0. 11. 24 | 1. 39 | 2. 59 | 6. 41 | 0. 56 | 7. 11 |
| 25 | 0. 10. 38 | 1. 39 | 2. 41 | 6. 17 | 0. 31 | 6. 45 |

MARS.

| | | | | | | |
|----|-----------|---------|----------|---------|---------|---------|
| 1 | 2. 1. 35 | 1. 34 A | 18. 58 B | 9. 49 V | 5. 14 M | 0. 39 V |
| 7 | 2. 4. 24 | 1. 28 | 19. 34 | 9. 36 | 5. 4 | 0. 32 |
| 13 | 2. 6. 58 | 1. 22 | 20. 10 | 9. 22 | 4. 53 | 0. 21 |
| 19 | 2. 9. 16 | 1. 13 | 20. 38 | 9. 8 | 4. 41 | 0. 14 |
| 25 | 2. 11. 17 | 1. 4 | 21. 4 | 8. 53 | 4. 28 | 0. 3 |

VENUS.

| | | | | | | |
|----|----------|---------|----------|---------|--------|---------|
| 1 | 3. 25. 4 | 1. 37 A | 19. 34 B | 1. 36 M | 9. 4 M | 4. 32 V |
| 7 | 4. 1. 39 | 1. 10 | 18. 42 | 1. 47 | 9. 10 | 4. 33 |
| 13 | 4. 8. 21 | 0. 44 | 17. 30 | 1. 59 | 9. 16 | 4. 33 |
| 19 | 4. 15. 9 | 0. 18 | 16. 2 | 2. 12 | 9. 22 | 4. 33 |
| 25 | 4. 22. 3 | 0. 6 B | 14. 16 | 2. 25 | 9. 28 | 4. 31 |

MERCURIUS.

| | | | | | | |
|----|-----------|---------|--------|---------|----------|---------|
| 1 | 6. 6. 7 | 2. 50 A | 5. 3 A | 7. 51 M | 1. 34 V | 7. 17 V |
| 7 | 6. 9. 45 | 3. 36 | 7. 11 | 7. 50 | 1. 25 | 7. 0 |
| 13 | 6. 10. 22 | 4. 1 | 7. 49 | 7. 33 | 1. 5 | 6. 37 |
| 19 | 6. 7. 3 | 3. 42 | 6. 13 | 6. 53 | 0. 31 | 6. 9 |
| 25 | 6. 0. 47 | 2. 19 | 2. 25 | 5. 49 | 11. 42 M | 5. 35 |

ECLIPSES SATELLITUM JOVIS.

| Dies mensis | I. Satelles. | | | Dies | II. Satelles. | | | Dies | III. Satelles. | | |
|----------------|--------------|-----|----|------|---------------|-----|----|------|----------------|-----|------|
| | Immerfiones | | | | Immerfiones | | | | Imers. Emerf. | | |
| | H. | M. | S. | | H. | M. | S. | | H. | M. | S. |
| 1 | 9* | 12. | 50 | 3 | 7. | 37. | 4 | 1 | 20. | 28. | 24 I |
| 3 | 3. | 41. | 55 | 6 | 20. | 57. | 4 | 1 | 22. | 53. | 24 E |
| 4 | 22. | 11. | 0 | 10 | 10.* | 17. | 6 | 9 | 0. | 32. | 15 I |
| 6 | 16.* | 40. | 9 | 13 | 23. | 37. | 11 | 9 | 2. | 55. | 54 E |
| 8 | 11.* | 9. | 20 | 17 | 12.* | 57. | 16 | 16 | 4. | 36. | 20 I |
| 10 | 5. | 38. | 30 | 21 | 2. | 17. | 21 | 16 | 6. | 58. | 36 E |
| 12 | 0. | 7. | 41 | 24 | 15.* | 37. | 26 | 23 | 8.* | 40. | 30 I |
| 13 | 18. | 36. | 52 | 28 | 4. | 57. | 30 | 23 | 11.* | 1. | 24 E |
| 15 | 13.* | 6. | 4 | | | | | 30 | 12.* | 44. | 35 I |
| 17 | 7. | 35. | 15 | | | | | 30 | 15.* | 4. | 10 E |
| 19 | 2. | 4. | 28 | | | | | | | | |
| 20 | 20. | 33. | 40 | | | | | | | | |
| 22 | 15.* | 2. | 56 | | | | | | IV. Satelles. | | |
| 24 | 9.* | 32. | 10 | | | | | | Imers. Emerf. | | |
| 26 | 4. | 1. | 24 | | | | | 9 | 7. | 52. | 0 I |
| 27 | 22. | 30. | 38 | | | | | 9 | 9.* | 44. | 0 E |
| 29 | 16.* | 59. | 48 | | | | | 26 | 1. | 21. | 15 I |
| | | | | | | | | 26 | 3. | 57. | 50 E |

| Dies | Diameter Solis | Mora transitus Solis per Meridian. | Motus horarius Solis | Logarithmus distantiae Solis a terra posita media 100000 | Longitudo Nodi Lunae |
|------|-------------------|---|----------------------------|--|-------------------------|
| | M. S. | M. S. | M. S. | | S. G. M. |
| | 1 | 31. 47. 4 | 2. 8. 4 | 2. 25. 4 | 5. 003536 | 10. 10. 28 |
| 4 | 31. 48. 8 | 2. 8. 2 | 2. 25. 6 | 5. 003208 | 10. 10. 18 |
| 7 | 31. 50. 3 | 2. 8. 1 | 2. 25. 8 | 5. 002857 | 10. 10. 6 |
| 10 | 31. 51. 9 | 2. 8. 0 | 2. 26. 1 | 5. 002522 | 10. 9. 56 |
| 13 | 31. 53. 4 | 2. 8. 0 | 2. 26. 4 | 5. 002169 | 10. 9. 47 |
| 16 | 31. 54. 9 | 2. 8. 0 | 2. 26. 6 | 5. 001821 | 10. 9. 37 |
| 19 | 31. 56. 3 | 2. 7. 9 | 2. 26. 8 | 5. 001446 | 10. 9. 28 |
| 22 | 31. 57. 8 | 2. 7. 9 | 2. 27. 1 | 5. 001057 | 10. 9. 18 |
| 25 | 31. 59. 4 | 2. 8. 0 | 2. 27. 4 | 5. 000707 | 10. 9. 9 |
| 28 | 31. 1. 1 | 2. 8. 0 | 2. 27. 6 | 5. 000330 | 10. 9. 0 |

POSITIONES SATELLITUM JOVIS

Oriens 9^h Vespere Occidens

| | | | | | |
|----|----|-----------|---|----------|-------|
| 1 | 10 | .2 | ○ | 3. | |
| 2 | | 1. | ○ | | 4. |
| 3 | | 1.2. | ○ | | .4 |
| 4 | | .1 .2 | ○ | .1 | .4 |
| 5 | | 1. .3 | ○ | .2 | .4 |
| 6 | | | ○ | 1.2. .1 | 4. |
| 7 | | 2. .1 | ○ | | 1. 4. |
| 8 | | .2 | ○ | 1. 3. 4. | |
| 9 | | 1. .1 | ○ | .2 | 40 |
| 10 | | 1. 4. | ○ | 1. | 20 |
| 11 | | 4. .2 .2 | ○ | .1 | |
| 12 | 4. | 1. .1 | ○ | .2 | |
| 13 | 4. | | ○ | .1 2 3 | |
| 14 | .4 | 2 3 1 | ○ | | .1 |
| 15 | .4 | .2 | ○ | 1. 3. | |
| 16 | | .4 | ○ | 1.1. | .2 |
| 17 | | 1. .4 1. | ○ | 2. | |
| 18 | | .1 2. | ○ | .1 .4 | |
| 19 | | .1 | ○ | | .4 20 |
| 20 | | | ○ | .1 .1 2. | .4 |
| 21 | | 2 3 1 | ○ | | .1 .4 |
| 22 | | 2. | ○ | 1. 3. | 4. |
| 23 | | .1 | ○ | 1. .2 | 4. |
| 24 | 10 | 1. | ○ | 2. 4. | |
| 25 | | .1 2. | ○ | .1 4. | |
| 26 | | .1 1 3 4. | ○ | | |
| 27 | | 4. | ○ | .1 .1 2. | |
| 28 | 4. | 1. 2. | ○ | | .1 |
| 29 | 4. | .2 | ○ | 1. 1. | |
| 30 | 4. | .1 | ○ | .2 | 10 |
| | | | ○ | | |
| | | | ○ | | |

| Dies | Phaenomena & Observationes Solis | Dies | Phaenomena & Observationes Lunae |
|---------------------------------------|--|---|--|
| Sol in parallelo | | Luna | |
| 1 | Serpentis culm. 5h 16' | 1 | Apogea ad Mercurii 17h 12' |
| | in media distantia a terra | 2 | Novilunium 2h 36' |
| 2 | Ophiuci culm. 3h 26' | 7 | ad γ , σ & α Scor. 1h 30' 11h & 15h |
| 3 | Antin. & β Erid. culm. 6h 6' | 8 | ad Λ Ophiuci 10h 40' |
| 7 | Orionis culm. 16h 27' | 9 | ad λ Sagittarii 18h 0' |
| 9 | Aquarii culm. 8h 17' | 10 | Primus Quadrans 21h 28' |
| 12 | Hydrae culm. 20h 0' | | ad ϕ & κ Sagitt. 0h 48' & 18h |
| 14 | Rigel & β Librae culm. 15h 42' | 12 | ad θ Capri 13h 15' |
| | & 1h 45' | 13 | ad λ Capri 8h 0' |
| 17 | Erid. & κ Orion. culm. 13h 30' | 15 | Perigea ad λ Pisc. 11h 54' d. l. 6' |
| | & 16h 3' | 17 | Plenin. 13h 28' ... γ Pisc. 11h 30' |
| 18 | Virginis, ζ Ophiuci, & ϵ Erid. culm. 1h 38', 2h 50' & 13h 45' | 18 | ad 1. 2. θ & μ Ariet. 7h 12', 15h 24' |
| 20 | Eridani culm. 13h 48' | 19 | ad γ Tauri 4h 30' |
| 22 | Ceti culm. 11h 5' | 20 | ad 1. κ Tauri 6h 0' |
| | in signo Scorpii 12h 47' | 22 | ad ϵ Geminor. } Imm. 11h 0' |
| 24 | Ceti culm. 12h 21' | | Emerf. 12h 0' |
| 25 | Capri culm. 5h 55' | 24 | Ult. Qu. 11h 28' ... 2. μ Cancr. 1h 20h 0' |
| 30 | Libr. & γ Erid. culm. 1h 12' & 13h 25' | 25 | ad ξ Leonis 20h 0' |
| | | 26 | ad τ & α Leon. 11h 20' & 22h 23' |
| | | 27 | ad χ Leonis 18h 0' |
| | | 28 | ad ν Leonis 15h 30' |
| | | 29 | Apogea ... 31 ad α Virg. 1h 42' |
| Phaenomena & Observationes Planetarum | | Planetae in parallelis fixarum | |
| 2 | Oppositio Jovis | Saturnus b Canis, β & δ Leporis, 1. 2. ξ Sagittar., μ & τ Sagitt. | |
| 3 | Venus ad 1. ρ Leonis diff. lat. 32' | Jupiter initio γ Oph. & δ Aqu., γ Ceti & γ Pisc., tum α Pisc., γ Virginis | |
| 4 | Mars ad t Tauri diff. lat. 26' | Mars 1 Tauri, δ Leon., β Herc., γ Canori, α Arietis, δ , γ & μ Geminorum | |
| 5 | Venus ad 2. ρ Leonis diff. lat. 30' | Venus 1 ϵ Virg., 4 δ Serpent., 7 γ Aquil., 10 ϵ Peg., β Canis, α Aquil., 13 α Orion., α Serp., 16 γ Orion., 17 β Aquil. Proc., 19 ϵ Serp., β Oph., 22 θ Serp., 24 γ Ophiuci, δ Aquil., 29 ζ Virg., γ Antin., 30 δ Orionis | |
| 9 | Mercur. in elongat. max. matut. | Mercur. 1. 11. ϵ Orion., α Aquar. γ Antin., 13 δ Orion., 15 γ Antin., ζ & γ Virg., 19 δ Aquil., γ Ophiuci, β Virg., 23 ϵ Serp. Broc., β Aquil., 25 α Serp., α Orion., α Aquil., 31 δ Serp. | |
| 11 | Venus ad χ Leonis diff. lat. 21' | | |
| 12 | Mercur. ad γ Virg. diff. lat. 25' | | |
| 15 | Venus ad ϵ Leonis diff. lat. 30' | | |
| 16 | Mercurius ad γ Virginis d. l. 46' | | |
| 17 | Mercurius ad θ Virginis d. l. 15' | | |
| 18 | Venus ad β Virginis diff. lat. 44' | | |
| 19 | Mercurius ad m Virg. diff. lat. 6' | | |
| 20 | Venus ad γ Virginis diff. lat. 13' | | |
| 21 | Mercurius ad κ Virg. d. l. 1. 52' | | |

| Dies mensis | Dies hebdomadae | Æquatio subtrahenda a tempore vero ut habeatur medium | Diffe- rentia | Longitudo Solis | | | Ascensio recta Solis | | | Declinatio Solis Australis | | |
|-------------|-----------------|--|------------------|--------------------|-----|--------|-------------------------|-----|----|----------------------------------|--------|----|
| | | | | M. | S. | S. | G. | M. | S. | G. | M. | S. |
| 1 | Sat. | 10. 31, 2 | 18, 8 | 6. | 8. | 38. 50 | 187. | 56. | 29 | 3. | 25. 58 | |
| 2 | Dom | 10. 49, 6 | 18, 4 | 6. | 9. | 38. 1 | 188. | 50. | 59 | 3. | 49. 17 | |
| 3 | Lun. | 11. 7, 7 | 18, 1 | 6. | 10. | 37. 14 | 189. | 45. | 34 | 4. | 12. 33 | |
| 4 | Mar. | 11. 25, 6 | 17, 9 | 6. | 11. | 36. 29 | 190. | 40. | 14 | 4. | 35. 46 | |
| 5 | Mer. | 11. 43, 1 | 17, 5 | 6. | 12. | 35. 45 | 191. | 34. | 59 | 4. | 58. 56 | |
| 6 | Jov. | 12. 0, 2 | 17, 1 | 6. | 13. | 35. 3 | 192. | 29. | 50 | 5. | 21. 2 | |
| 7 | Ven. | 12. 17, 0 | 16, 8 | 6. | 14. | 34. 23 | 193. | 24. | 47 | 5. | 45. 4 | |
| 8 | Sat. | 12. 33, 3 | 16, 3 | 6. | 15. | 33. 45 | 194. | 19. | 50 | 6. | 8. 1 | |
| 9 | Dom | 12. 49, 2 | 15, 9 | 6. | 16. | 33. 9 | 195. | 14. | 59 | 6. | 30. 53 | |
| 10 | Lun. | 13. 4, 7 | 15, 5 | 6. | 17. | 32. 34 | 196. | 10. | 14 | 6. | 53. 40 | |
| 11 | Mar. | 13. 19, 8 | 15, 1 | 6. | 18. | 32. 1 | 197. | 5. | 26 | 7. | 16. 21 | |
| 12 | Mer. | 13. 34, 3 | 14, 5 | 6. | 19. | 31. 30 | 198. | 1. | 6 | 7. | 38. 56 | |
| 13 | Jov. | 13. 48, 3 | 14, 0 | 6. | 20. | 31. 0 | 198. | 56. | 43 | 8. | 1. 25 | |
| 14 | Ven. | 14. 1, 8 | 13, 5 | 6. | 21. | 30. 32 | 199. | 52. | 28 | 8. | 23. 47 | |
| 15 | Sat. | 14. 14, 8 | 13, 0 | 6. | 22. | 30. 6 | 200. | 48. | 21 | 8. | 46. 2 | |
| 16 | Dom | 14. 27, 3 | 12, 5 | 6. | 23. | 29. 42 | 201. | 44. | 22 | 9. | 8. 9 | |
| 17 | Lun. | 14. 39, 2 | 11, 9 | 6. | 24. | 29. 20 | 202. | 40. | 32 | 9. | 30. 8 | |
| 18 | Mar. | 14. 50, 5 | 11, 3 | 6. | 25. | 29. 0 | 203. | 36. | 52 | 9. | 51. 59 | |
| 19 | Mer. | 15. 1, 0 | 10, 5 | 6. | 26. | 28. 43 | 204. | 33. | 22 | 10. | 13. 42 | |
| 20 | Jov. | 15. 10, 8 | 9, 8 | 6. | 27. | 28. 28 | 205. | 30. | 2 | 10. | 35. 16 | |
| 21 | Ven. | 15. 19, 9 | 9, 1 | 6. | 28. | 28. 15 | 206. | 26. | 51 | 10. | 56. 40 | |
| 22 | Sat. | 15. 28, 5 | 8, 6 | 6. | 29. | 28. 4 | 207. | 23. | 50 | 11. | 17. 54 | |
| 23 | Dom | 15. 36, 4 | 7, 9 | 7. | 0. | 27. 55 | 208. | 21. | 0 | 11. | 38. 58 | |
| 24 | Lun. | 15. 43, 5 | 7, 1 | 7. | 1. | 27. 49 | 209. | 18. | 21 | 11. | 59. 52 | |
| 25 | Mar. | 15. 49, 8 | 6, 3 | 7. | 2. | 27. 45 | 210. | 15. | 53 | 12. | 20. 35 | |
| 26 | Mer. | 15. 55, 4 | 5, 6 | 7. | 3. | 27. 44 | 211. | 13. | 37 | 12. | 41. 7 | |
| 27 | Jov. | 16. 0, 4 | 5, 0 | 7. | 4. | 27. 45 | 212. | 11. | 32 | 13. | 1. 27 | |
| 28 | Ven. | 16. 4, 6 | 4, 2 | 7. | 5. | 27. 48 | 213. | 9. | 38 | 13. | 21. 34 | |
| 29 | Sat. | 16. 7, 9 | 3, 3 | 7. | 6. | 27. 53 | 214. | 7. | 56 | 13. | 41. 29 | |
| 30 | Dom | 16. 10, 1 | 2, 3 | 7. | 7. | 28. 0 | 215. | 6. | 26 | 14. | 1. 11 | |
| 31 | Lun. | 16. 12, 1 | 2, 0 | 7. | 8. | 28. 9 | 216. | 5. | 8 | 14. | 20. 40 | |
| | | | 1, 0 | | | | | | | | | |

| Dies mensis | Dies hebdomadae | Distantia señionis Y a Solo | | | Diff- rentia | | Ini- tium Crepu- sculi | | Ortus Centri Solis | | Occa- sus Centri Solis | | Finis Crepu- sculi | | Hora Italica Meri- diei | |
|-------------|-----------------|-----------------------------------|-----|------|-----------------|------|---------------------------------|----|--------------------------|----|---------------------------------|----|--------------------------|----|----------------------------------|----|
| | | H. | M. | S. | M. | S. | H. | M. | H. | M. | H. | M. | H. | M. | H. | M. |
| 1 | Sat. | 11. | 28. | 14,1 | 3. | 38,0 | 4. | 31 | 6. | 11 | 5. | 49 | 7. | 29 | 17. | 40 |
| 2 | Dom. | 11. | 24. | 36,1 | 3. | 38,3 | 4. | 33 | 6. | 13 | 5. | 47 | 7. | 27 | 17. | 42 |
| 3 | Lon. | 11. | 20. | 57,8 | 3. | 38,7 | 4. | 35 | 6. | 15 | 5. | 46 | 7. | 25 | 17. | 44 |
| 4 | Mar. | 11. | 17. | 19,1 | 3. | 39,0 | 4. | 36 | 6. | 16 | 5. | 44 | 7. | 24 | 17. | 46 |
| 5 | Mer. | 11. | 13. | 40,1 | 3. | 39,4 | 4. | 38 | 6. | 17 | 5. | 43 | 7. | 22 | 17. | 47 |
| 6 | Jov. | 11. | 10. | 0,7 | 3. | 39,8 | 4. | 39 | 6. | 18 | 5. | 42 | 7. | 21 | 17. | 48 |
| 7 | Ven. | 11. | 6. | 20,9 | 3. | 40,2 | 4. | 41 | 6. | 20 | 5. | 40 | 7. | 19 | 17. | 50 |
| 8 | Sat. | 11. | 2. | 40,7 | 3. | 40,6 | 4. | 43 | 6. | 22 | 5. | 39 | 7. | 18 | 17. | 51 |
| 9 | Dom. | 10. | 59. | 0,1 | 2. | 41,0 | 4. | 44 | 6. | 23 | 5. | 37 | 7. | 16 | 17. | 53 |
| 10 | Lon. | 10. | 55. | 19,1 | 2. | 41,5 | 4. | 45 | 6. | 24 | 5. | 36 | 7. | 15 | 17. | 54 |
| 11 | Mar. | 10. | 51. | 27,6 | 2. | 42,0 | 4. | 46 | 6. | 25 | 5. | 35 | 7. | 14 | 17. | 55 |
| 12 | Mer. | 10. | 47. | 55,6 | 3. | 42,5 | 4. | 48 | 6. | 27 | 5. | 33 | 7. | 12 | 17. | 57 |
| 13 | Jov. | 10. | 44. | 13,1 | 3. | 43,0 | 4. | 49 | 6. | 28 | 5. | 32 | 7. | 11 | 17. | 58 |
| 14 | Ven. | 10. | 40. | 30,1 | 3. | 43,5 | 4. | 50 | 6. | 30 | 5. | 30 | 7. | 10 | 18. | 0 |
| 15 | Sat. | 10. | 36. | 46,6 | 3. | 44,1 | 4. | 51 | 6. | 31 | 5. | 29 | 7. | 9 | 18. | 1 |
| 16 | Dom. | 10. | 33. | 2,5 | 3. | 44,7 | 4. | 53 | 6. | 32 | 5. | 28 | 7. | 7 | 18. | 2 |
| 17 | Lon. | 10. | 29. | 17,8 | 3. | 45,3 | 4. | 54 | 6. | 33 | 5. | 26 | 7. | 6 | 18. | 4 |
| 18 | Mar. | 10. | 25. | 32,5 | 3. | 46,0 | 4. | 56 | 6. | 36 | 5. | 24 | 7. | 4 | 18. | 6 |
| 19 | Mer. | 10. | 21. | 46,5 | 3. | 46,6 | 4. | 57 | 6. | 38 | 5. | 22 | 7. | 3 | 18. | 8 |
| 20 | Jov. | 10. | 17. | 59,9 | 3. | 47,3 | 4. | 59 | 6. | 40 | 5. | 20 | 7. | 1 | 18. | 10 |
| 21 | Ven. | 10. | 14. | 12,6 | 3. | 47,9 | 5. | 1 | 6. | 42 | 5. | 18 | 6. | 59 | 18. | 12 |
| 22 | Sat. | 10. | 10. | 24,7 | 3. | 48,7 | 5. | 2 | 6. | 43 | 5. | 17 | 6. | 58 | 18. | 13 |
| 23 | Dom. | 10. | 6. | 36,0 | 3. | 49,4 | 5. | 4 | 6. | 45 | 5. | 15 | 6. | 56 | 18. | 15 |
| 24 | Lon. | 10. | 3. | 46,6 | 3. | 50,2 | 5. | 5 | 6. | 47 | 5. | 13 | 6. | 55 | 18. | 17 |
| 25 | Mar. | 9. | 58. | 56,4 | 3. | 50,9 | 5. | 7 | 6. | 48 | 5. | 12 | 6. | 53 | 18. | 18 |
| 26 | Mer. | 9. | 55. | 5,5 | 3. | 51,6 | 5. | 8 | 6. | 49 | 5. | 11 | 6. | 52 | 18. | 19 |
| 27 | Jov. | 9. | 51. | 13,9 | 3. | 52,4 | 5. | 9 | 6. | 51 | 5. | 9 | 6. | 51 | 18. | 21 |
| 28 | Ven. | 9. | 47. | 21,5 | 3. | 53,2 | 5. | 10 | 6. | 52 | 5. | 8 | 6. | 50 | 18. | 22 |
| 29 | Sat. | 9. | 43. | 26,3 | 3. | 54,0 | 5. | 12 | 6. | 54 | 5. | 6 | 6. | 48 | 18. | 24 |
| 30 | Dom. | 9. | 39. | 34,3 | 3. | 54,8 | 5. | 13 | 6. | 56 | 5. | 4 | 6. | 47 | 18. | 26 |
| 31 | Lon. | 9. | 35. | 39,5 | 3. | 55,6 | 5. | 15 | 6. | 57 | 5. | 3 | 6. | 45 | 18. | 27 |

| Dies mensis | Dies hebdomadae | Longitudo Lunae Meridie | Longitudo Lunae media nocte | Latitudo Lunae Meridie | Latitudo Lunae med. noct. | Paral- laxis Lunae Meri- die | Paral- laxis Lunae media noctē |
|-------------|-----------------|-------------------------------|-----------------------------------|------------------------------|---------------------------------|--|--|
| | | S. G. M. S. | S. G. M. S. | G. M. S. | G. M. S. | M. S. | M. S. |
| 1 | Sat. | 5. 17. 34. 33 | 5. 23. 29. 30 | 3. 3. 30 A | 3. 27. 36 A | 54. 2 | 53. 59 |
| 2 | Dom | 5. 29. 24. 23 | 6. 5. 19. 23 | 3. 49. 25 | 4. 8. 44 | 53. 57 | 53. 57 |
| 3 | Lun. | 6. 11. 14. 44 | 6. 17. 10. 38 | 4. 25. 22 | 4. 39. 8 | 53. 57 | 53. 59 |
| 4 | Mar. | 6. 23. 7. 14 | 6. 29. 4. 47 | 4. 49. 52 | 4. 57. 26 | 54. 3 | 54. 8 |
| 5 | Mer. | 7. 5. 3. 20 | 7. 11. 3. 10 | 5. 1. 46 | 5. 2. 47 | 54. 13 | 54. 20 |
| 6 | Jov. | 7. 17. 4. 33 | 7. 23. 7. 36 | 5. 0. 26 | 4. 54. 42 | 54. 29 | 54. 40 |
| 7 | Ven. | 7. 29. 12. 36 | 8. 5. 19. 56 | 4. 45. 36 | 4. 33. 10 | 54. 52 | 55. 6 |
| 8 | Sat. | 8. 11. 30. 2 | 8. 17. 43. 7 | 4. 17. 26 | 3. 58. 30 | 55. 21 | 55. 38 |
| 9 | Dom | 8. 23. 59. 35 | 9. 0. 19. 57 | 3. 36. 32 | 3. 11. 42 | 55. 57 | 56. 18 |
| 10 | Lun. | 9. 6. 44. 38 | 9. 13. 14. 9 | 2. 44. 9 | 2. 14. 5 | 56. 41 | 57. 5 |
| 11 | Mar. | 9. 19. 48. 50 | 9. 26. 29. 11 | 1. 41. 53 | 1. 7. 49 | 57. 31 | 57. 59 |
| 12 | Mer. | 10. 3. 15. 30 | 10. 10. 8. 9 | 0. 32. 19 A | 0. 4. 10 B | 58. 26 | 58. 52 |
| 13 | Jov. | 10. 17. 7. 19 | 10. 24. 13. 9 | 0. 41. 11 | 1. 18. 3 | 59. 17 | 59. 42 |
| 14 | Ven. | 11. 1. 25. 32 | 11. 8. 44. 8 | 1. 54. 19 | 2. 29. 8 | 60. 5 | 60. 27 |
| 15 | Sat. | 11. 16. 8. 39 | 11. 23. 38. 8 | 3. 1. 53 | 3. 31. 46 | 60. 46 | 61. 1 |
| 16 | Dom | 0. 1. 12. 2 | 0. 8. 48. 56 | 3. 58. 17 | 4. 20. 43 | 61. 12 | 61. 19 |
| 17 | Lun. | 0. 17. 27. 23 | 0. 24. 6. 16 | 4. 38. 30 | 4. 51. 16 | 61. 21 | 61. 18 |
| 18 | Mar. | 1. 1. 44. 3 | 1. 9. 19. 10 | 4. 58. 49 | 5. 4 | 61. 11 | 60. 58 |
| 19 | Mer. | 1. 16. 50. 25 | 1. 24. 16. 34 | 4. 58. 2 | 4. 49. 57 | 60. 41 | 60. 20 |
| 20 | Jov. | 2. 1. 36. 39 | 2. 8. 49. 56 | 4. 37. 10 | 4. 20. 10 | 59. 57 | 59. 31 |
| 21 | Ven. | 2. 15. 55. 48 | 2. 22. 54. 4 | 3. 59. 17 | 3. 35. 9 | 59. 3 | 58. 34 |
| 22 | Sat. | 2. 29. 44. 40 | 3. 6. 27. 52 | 3. 8. 18 | 2. 39. 19 | 58. 5 | 57. 36 |
| 23 | Dom | 3. 13. 3. 48 | 3. 19. 33. 0 | 2. 8. 39 | 1. 36. 47 | 57. 8 | 56. 41 |
| 24 | Lun. | 3. 25. 55. 51 | 4. 2. 13. 10 | 1. 4. 16 | 0. 31. 22 B | 56. 15 | 55. 51 |
| 25 | Mar. | 4. 8. 25. 22 | 4. 14. 33. 12 | 0. 1. 26 A | 0. 33. 51 | 55. 30 | 55. 11 |
| 26 | Mer. | 4. 20. 37. 15 | 4. 26. 38. 16 | 1. 5. 31 | 1. 36. 10 | 54. 54 | 54. 39 |
| 27 | Jov. | 5. 2. 36. 50 | 5. 8. 33. 36 | 2. 5. 31 | 2. 23. 20 | 54. 27 | 54. 17 |
| 28 | Ven. | 5. 14. 29. 5 | 5. 20. 23. 46 | 2. 59. 21 | 3. 23. 21 | 54. 10 | 54. 5 |
| 29 | Sat. | 5. 26. 18. 16 | 6. 2. 12. 49 | 3. 45. 6 | 4. 4. 24 | 54. 2 | 54. 0 |
| 30 | Dom | 6. 8. 7. 56 | 6. 14. 3. 53 | 4. 21. 4 | 4. 34. 55 | 54. 0 | 54. 2 |
| 31 | Lun. | 6. 20. 0. 54 | 6. 25. 59. 13 | 4. 45. 48 | 4. 53. 35 | 54. 5 | 54. 10 |

| Dies mensis | Dies hebdomadae | Diameter horiz. Lunae Meridie | | Diameter horiz. Lunae media nocte | | Declinatio Lunae in Meridiano | | Ortus Lunae | | Transitus Lunae per Meridianum | | Occasus Lunae | |
|-------------|-----------------|-------------------------------|----|-----------------------------------|----|-------------------------------|------|-------------|------|--------------------------------|------|---------------|------|
| | | M. | S. | M. | S. | G. | M. | H. | M. | H. | M. | H. | M. |
| 1 | Sat. | 29. | 30 | 29. | 29 | 2. | 25 B | 4. | 11M | 10. | 35M | 4. | 47 V |
| 2 | Dom | 29. | 28 | 29. | 28 | 3. | 18 A | 5. | 13 | 11. | 15 | 5. | 6 |
| 3 | Lun. | 29. | 28 | 29. | 29 | 8. | 32 | 6. | 16 | 11. | 55 | 5. | 24 |
| 4 | Mar. | 29. | 31 | 29. | 33 | 13. | 34 | 7. | 19 | 0. | 37 V | 5. | 45 |
| 5 | Mer. | 29. | 36 | 29. | 40 | 18. | 11 | 8. | 24 | 1. | 21 | 6. | 11 |
| 6 | Jov. | 29. | 45 | 29. | 51 | 22. | 1 | 9. | 29 | 2. | 7 | 6. | 39 |
| 7 | Ven. | 29. | 58 | 30. | 5 | 24. | 54 | 10. | 35 | 2. | 56 | 7. | 13 |
| 8 | Sat. | 30. | 13 | 30. | 22 | 26. | 39 | 11. | 38 | 3. | 48 | 7. | 57 |
| 9 | Dom | 30. | 33 | 30. | 45 | 26. | 51 | 0. | 37 V | 4. | 43 | 8. | 49 |
| 10 | Lun. | 30. | 57 | 31. | 10 | 25. | 40 | 1. | 29 | 5. | 38 | 9. | 50 |
| 11 | Mar. | 31. | 24 | 31. | 39 | 22. | 53 | 2. | 9 | 6. | 32 | 11. | 2 |
| 12 | Mer. | 31. | 54 | 32. | 9 | 18. | 31 | 2. | 44 | 7. | 28 | " | " |
| 13 | Jov. | 32. | 23 | 32. | 36 | 13. | 7 | 3. | 11 | 8. | 19 | 0. | 20M |
| 14 | Ven. | 32. | 48 | 33. | 0 | 6. | 45 A | 3. | 34 | 9. | 10 | 1. | 37 |
| 15 | Sat. | 33. | 11 | 33. | 19 | 0. | 15 B | 3. | 58 | 10. | 2 | 2. | 58 |
| 16 | Dom | 33. | 25 | 33. | 29 | 7. | 5 | 4. | 22 | 10. | 55 | 4. | 19 |
| 17 | Lun. | 33. | 30 | 33. | 29 | 13. | 51 | 4. | 55 | 11. | 50 | 5. | 40 |
| 18 | Mar. | 33. | 25 | 33. | 18 | " | " | 5. | 14 | " | " | 7. | 9 |
| 19 | Mer. | 33. | 0 | 32. | 57 | 19. | 28 | 5. | 52 | 0. | 47M | 8. | 34 |
| 20 | Jov. | 32. | 44 | 32. | 30 | 23. | 48 | 6. | 35 | 1. | 47 | 9. | 57 |
| 21 | Ven. | 32. | 15 | 31. | 59 | 16. | 19 | 7. | 29 | 2. | 49 | 11. | 10 |
| 22 | Sat. | 31. | 43 | 31. | 27 | 26. | 50 | 8. | 30 | 3. | 50 | 0. | 10 V |
| 23 | Dom | 31. | 12 | 30. | 57 | 25. | 32 | 9. | 41 | 4. | 48 | 0. | 54 |
| 24 | Lun. | 30. | 43 | 30. | 30 | 22. | 52 | 10. | 52 | 5. | 42 | 1. | 31 |
| 25 | Mar. | 30. | 18 | 30. | 8 | 19. | 8 | 11. | 59 | 6. | 38 | 1. | 59 |
| 26 | Mer. | 29. | 59 | 29. | 51 | 14. | 32 | " | " | 7. | 17 | 2. | 21 |
| 27 | Jov. | 29. | 44 | 29. | 38 | 9. | 27 | 1. | 5M | 7. | 59 | 2. | 41 |
| 28 | Ven. | 29. | 24 | 29. | 32 | 4. | 5 B | 2. | 10 | 8. | 40 | 2. | 58 |
| 29 | Sat. | 29. | 30 | 29. | 29 | 1. | 24 A | 3. | 13 | 9. | 20 | 3. | 15 |
| 30 | Dom | 29. | 29 | 29. | 30 | 6. | 50 | 4. | 16 | 9. | 59 | 3. | 33 |
| 31 | Lun. | 29. | 32 | 29. | 35 | 11. | 59 | 5. | 20 | 10. | 40 | 2. | 50 |

| Die mensis | Longitudo Planetarum | Latitudo Planetarum | Declinatio Planetarum | Ortus Planetarum | Transitus Planetarum per Meridianum | Occasus Planetarum |
|---------------------------|----------------------|---------------------|-----------------------|------------------|-------------------------------------|--------------------|
| | S. G. M. | G. M. | G. M. | H. M. | H. M. | H. M. |
| S A T U R N U S. | | | | | | |
| 1 | 28. 54 | 0. 34 A | 20. 57 A | 3. 1 V | 7. 33 V | 11. 55 V |
| 7 | 28. 56 | 0. 34 | 20. 56 | 2. 39 | 7. 11 | 11. 43 |
| 13 | 29. 0 | 0. 34 | 20. 55 | 2. 17 | 6. 49 | 11. 21 |
| 19 | 29. 8 | 0. 34 | 20. 54 | 1. 55 | 6. 37 | 10. 59 |
| 25 | 29. 19 | 0. 34 | 20. 52 | 1. 33 | 6. 5 | 10. 37 |
| J U P I T E R. | | | | | | |
| 1 | 9. 49 | 1. 39 A | 2. 22 B | 5. 53 V | 0. 5 M | 6. 17 M |
| 7 | 9. 1 | 1. 39 | 2. 3 | 5. 30 | 11. 41 V | 5. 52 |
| 13 | 8. 14 | 1. 39 | 1. 45 | 5. 6 | 11. 16 | 5. 26 |
| 19 | 7. 29 | 1. 38 | 1. 28 | 4. 42 | 10. 51 | 5. 0 |
| 25 | 6. 48 | 1. 37 | 1. 12 | 4. 17 | 10. 25 | 4. 33 |
| M A R S. | | | | | | |
| 1 | 12. 56 | 0. 54 B | 21. 30 B | 8. 37 V | 4. 15 M | 11. 53 M |
| 7 | 14. 12 | 0. 42 | 21. 50 | 8. 18 | 3. 58 | 11. 38 |
| 13 | 15. 1 | 0. 30 | 22. 8 | 7. 57 | 3. 39 | 11. 21 |
| 19 | 15. 21 | 0. 15 | 22. 25 | 7. 34 | 3. 18 | 11. 1 |
| 25 | 15. 11 | 0. 0 | 22. 39 | 7. 10 | 2. 54 | 10. 38 |
| V E N U S. | | | | | | |
| 1 | 29. 5 | 0. 28 B | 12. 16 B | 2. 41 M | 9. 35 M | 4. 29 V |
| 7 | 6. 9 | 0. 48 | 10. 1 | 2. 56 | 9. 40 | 4. 24 |
| 13 | 13. 18 | 1. 5 | 7. 35 | 3. 12 | 9. 45 | 4. 19 |
| 19 | 20. 29 | 1. 19 | 5. 0 | 3. 27 | 9. 50 | 4. 13 |
| 25 | 27. 45 | 1. 30 | 2. 18 | 3. 42 | 9. 54 | 4. 6 |
| M E R C U R I U S. | | | | | | |
| 1 | 26. 4 | 0. 19 A | 1. 15 B | 5. 2 M | 11. 10 M | 5. 18 V |
| 7 | 27. 0 | 1. 14 B | 2. 18 | 4. 44 | 10. 56 | 5. 8 |
| 13 | 3. 12 | 1. 57 | 0. 30 | 4. 55 | 11. 0 | 5. 5 |
| 19 | 12. 8 | 1. 59 | 2. 55 A | 5. 20 | 11. 11 | 5. 2 |
| 25 | 22. 0 | 1. 37 | 7. 2 | 5. 50 | 11. 25 | 5. 0 |

ECLIPSES SATELLITUM JOVIS.

| Dies mensis | I. Satelles. | | | Dies | II. Satelles. | | | Dies | III. Satelles. | | |
|----------------|--------------|-----|---------|------|---------------|-----|----------|------|----------------|-----|------|
| | Emerfiones | | | | Emerfiones | | | | Imerf. Emerf. | | |
| | H. | M. | S. | | H. | M. | S. | | H. | M. | S. |
| 1 | 11. | 29. | 3 Imms. | 2 | 6. | 17. | 30 Imms. | 7 | 16. | 48. | 15 I |
| 3 | 8. | 8. | 20 | 5 | 10. | 7. | 45 | 7 | 19. | 6. | 44 E |
| 5 | 2. | 37. | 33 | 8 | 23. | 27. | 30 | 14 | 20. | 52. | 4 I |
| 6 | 21. | 5. | 42 | 12 | 12. | 47. | 6 | 14 | 23. | 9. | 10 E |
| 8 | 25. | 55. | 54 | 16 | 2. | 6. | 36 | 22 | 0. | 55. | 26 I |
| 10 | 10. | 15. | 0 | 19 | 15. | 25. | 57 | 22 | 3. | 11. | 22 E |
| 12 | 4. | 34. | 8 | 23 | 4. | 45. | 10 | 29 | 4. | 78. | 34 I |
| 13 | 23. | 3. | 15 | 26 | 18. | 4. | 15 | 29 | 7. | 13. | 4 E |
| 15 | 17. | 32. | 20 | 30 | 7. | 23. | 10 | | | | |
| 17 | 12. | 1. | 25 | | | | | | | | |
| 19 | 6. | 30. | 28 | | | | | | | | |
| 21 | 0. | 59. | 30 | | | | | | | | |
| 22 | 19. | 28. | 20 | | | | | Dies | IV. Satelles. | | |
| 24 | 13. | 57. | 30 | | | | | | Imerf. Emerf. | | |
| 26 | 8. | 26. | 27 | | | | | 12 | 20. | 50. | 2 I |
| 28 | 2. | 55. | 21 | | | | | 12 | 22. | 9. | 46 E |
| 29 | 21. | 24. | 15 | | | | | 29 | 15. | 21. | 24 I |
| 31 | 15. | 53. | 5 | | | | | 29 | 16. | 17. | 24 E |

| Dies | Diameter Solis | Mora transitus Solis per Meridian. | Motus bararius Solis | Logarithmus distantiar Solis a terra perframedia 100000 | Longitudo Nodi Lunae |
|------|-------------------|---|----------------------------|---|-------------------------|
| | M. S. | M. S. | M. S. | | S. G. M. |
| | 1 | 32. 2, 8 | 2. 8, 4 | 2. 27, 8 | 4. 999954 | 10. 8. 14 |
| 4 | 32. 4, 5 | 2. 8, 7 | 2. 28, 1 | 4. 999578 | 10. 8. 14 |
| 7 | 32. 6, 2 | 2. 9, 0 | 2. 28, 4 | 4. 999202 | 10. 8. 14 |
| 10 | 32. 8, 0 | 2. 9, 4 | 2. 28, 6 | 4. 998827 | 10. 8. 14 |
| 13 | 32. 9, 7 | 2. 9, 8 | 2. 28, 9 | 4. 998454 | 10. 8. 14 |
| 16 | 32. 11, 3 | 2. 10, 3 | 2. 29, 1 | 4. 998083 | 10. 8. 14 |
| 19 | 32. 13, 9 | 2. 10, 8 | 2. 29, 3 | 4. 997721 | 10. 8. 14 |
| 22 | 32. 14, 5 | 2. 11, 4 | 2. 29, 5 | 4. 997363 | 10. 8. 14 |
| 25 | 32. 16, 2 | 2. 12, 0 | 2. 29, 8 | 4. 997011 | 10. 8. 14 |
| 28 | 32. 17, 7 | 2. 12, 5 | 2. 30, 0 | 4. 996669 | 10. 8. 14 |

POSITIONES SATELLITUM JOVIS

Oriens

9^h Vespere

Occidens

| | Oriens | 9 ^h Vespere | Occidens |
|----|--------|------------------------|---------------|
| 1 | .4 | 3. | ○ 1. 2. |
| 2 | | .4 .1 2. | .1 ○ |
| 3 | | .4 .3 .3 1. | ○ |
| 4 | | | .4 ○ .1 .1 .2 |
| 5 | 10 | | 1. ○ .4 .1 |
| 6 | | .2 | ○ .1 1. .4 |
| 7 | 10 | .1 | ○ .2 .4 |
| 8 | | 1. | ○ 1. 2. .4 |
| 9 | | 1. 2. .1 | ○ .4 |
| 10 | 10 | .1 .2 | ○ .4 |
| 11 | | | ○ .1 .1 .2 .4 |
| 12 | | 1. | ○ 2. 4 .1 |
| 13 | | .2 .4 | ○ .1 1. |
| 14 | | .4 1. | ○ .1 2 |
| 15 | .4 | 1. | ○ 1. 2. |
| 16 | .4 | 1. 2. .1 | ○ |
| 17 | .4 | .1 .2 | ○ .1 .2 10 |
| 18 | .4 | | ○ .1 .2 10 |
| 19 | | .4 1. | ○ 2. .1 |
| 20 | | 2. .4 | ○ .1 1. |
| 21 | | 1. | ○ .2 .4 1. |
| 22 | | 1. | ○ 1. 2. .4 |
| 23 | | 1. 2. 1. | ○ .4 |
| 24 | | .1 .2 | ○ 1. .4 |
| 25 | 10 | | .1 ○ .2 .4 |
| 26 | | 1. | ○ 2. .1 .4 |
| 27 | | 1. | ○ .1 1. .4 |
| 28 | 10 | 1. | ○ 1. .4 |
| 29 | | 1. 4. .1 2. | ○ .1 2. |
| 30 | | 1. 4. .1 2. | ○ |
| 31 | | .4 .1 .2 | ○ 1. 1. |

| Phaenomena & Observationes Solis | | Phaenomena & Observationes Lunae | |
|---------------------------------------|--|---|---|
| Sol in parallelo | | Luna | |
| 1 | 53 [*] Eridani culm. 13 ^h 57' | 1 | Apogea. Novilunium 16 ^h 15' |
| 2 | Librae culm. 0 ^h 5' | 3 | ad A, τ & α Scorpii 4 ^h 45', 7 ^h 24', 20 ^h 18' |
| 3 | Corvi & γ Canis culm. 21 ^h 38' & 16 ^h 15' | 4 | ad A & 43 Oph. 16 ^h 15' & 20 ^h 15' |
| 4 | Oph. & β Capri culm. 2 ^h 20' & 5 ^h 30' | 6 | ad ϕ & σ Sagitt. 6 ^h 30' & 10 ^h 44' |
| 6 | Corvi & Sirii culm. 21 ^h 12' & 15 ^h 42' | 8 | Primus Quadrans 20 ^h 35', ad θ Capri 16 ^h 30' |
| 7 | in nodo descend. Mercurii | 10 | ad θ & ρ Aquarii 6 ^h 24' & 6 ^h 54' |
| 9 | Crat. & δ Aquar. culm. 19 ^h 45' & 7 ^h 41' | 11 | ad λ Piscium 21 ^h 0' |
| 11 | Capri. & β Canis culm. 6 ^h 18' & 15 ^h 2' | 13 | ad δ Piscium 0 ^h 30', Perigea |
| 12 | Leporis culm. 14 ^h 8' | 14 | Plenilunium 23 ^h 26', ad μ , ν Arietis. 2 ^h 36', 10 ^h 54' |
| 17 | Scorp., β & θ Ceti culm. 0 ^h 18' 8 ^h 57', 9 ^h 38' | 16 | ad ν , ϕ & χ Tauri 4 ^h , 17 ^h & 17 ^h 24' |
| 21 | in signo Sagittarii 9 ^h 58' | 18 | ad ν Geminorum 22 ^h 30' |
| 25 | 54 [*] Eridani culm. 12 ^h 38' | 19 | ad A Geminorum 14 ^h 30', ad 2. μ Canceri 9 ^h 40' |
| 26 | & β Lep. culm. 13 ^h 32' & 13 ^h 9' | 20 | ad τ & α Leon. 18 ^h 45' & 19 ^h 48' |
| 27 | Corvi culm. 19 ^h 40' | 22 | Ultim. Quadrans 5 ^h 48', ad α Virginis 8 ^h 36' |
| | | 27 | Apogea |
| | | 29 | ad τ Scorpii 13 ^h 50' |
| | | 30 | |
| Phaenomena & Observationes Planetarum | | Planetae in parallelis fixarum | |
| 1 | Saturnus ad σ Capri diff. lat. 5' | Saturnus β & δ Leporis, 1. ξ Sagittarii, b Canis, e Capri, β Eridani | |
| 2 | Venus ad γ Virginis d. l. 1. 0 8' | Jupiter γ & α Piscium, ν & ζ Virginis, ν Antinoi | |
| 6 | Venus ad k Virginis diff. lat. 37' | Mars δ , ν , μ Gemin., α Arietis, ν Tauri | |
| 8 | Venus ad θ Virginis diff. lat. 1' | Venus ν & ξ Orion., α & γ Aquarii, γ & ν Antin., 8 μ , ν , ζ Serpent., δ , ν Oph., β Erid., 15 β , ϕ Aquarii, θ Eridani, α Hydrae, 18 Rigel, β Librae, 21 α , α Virginis; ν , δ Eridani, 25 ν , ν Ceti, λ Virg., 30 γ Librae, γ Eridani | |
| 10 | Mercurius in conjunct. super. | Mercurius 20 δ Scorp., γ Hydr., θ Sagittarii, β & α Corvi, ρ & ξ Navis, θ Ophiuci, γ & σ Scorpii | |
| 15 | Venus ad m Virginis diff. lat. 2' | | |
| 19 | Mars ad τ Tauri diff. lat. 35' | | |
| 23 | Venus ad λ Virg. diff. lat. 1. 0 12' | | |
| 27 | Oppositio Martis | | |
| 28 | Mars ad 2. 1. ν Tauri diff. lat. 28' & 36' | | |
| 29 | Mars ad 3. 2. χ Tauri diff. lat. 1. 0 5' & 10 11' | | |
| | Venus ad μ Librae diff. lat. 26' | | |
| | Mercurius ad θ Oph. diff. lat. 5' | | |

| Dies mensis | Dies hebdomadae | <i>Aequatio</i> | <i>Diffe-</i> | <i>Longitudo</i> | <i>Ascensio recta</i> | <i>Declinatio</i> |
|-------------|-----------------|---|---------------|--------------------|-----------------------|----------------------------------|
| | | <i>subtrahenda</i> <i>in tempore</i> <i>vero</i> <i>ut habeatur</i> <i>medium</i> | <i>rentia</i> | <i>Solis</i> | <i>Solis</i> | <i>Solis</i> <i>Australis</i> |
| | | <i>M. S.</i> | <i>S.</i> | <i>S. G. M. S.</i> | <i>G. M. S.</i> | <i>G. M. S.</i> |
| 1 | Mar. | 16. 13, 1 | 1, 0 | 7. 9. 28. 20 | 217. 4. 1 | 14. 39. 55 |
| 2 | Mer. | 16. 13, 2 | 0, 1 | 7. 10. 28. 33 | 218. 3. 8 | 14. 38. 56 |
| 3 | Jov. | 16. 12, 5 | 0, 7 | 7. 11. 28. 48 | 219. 2. 17 | 15. 17. 42 |
| 4 | Ven. | 16. 11, 0 | 1, 5 | 7. 12. 29. 4 | 220. 1. 57 | 15. 36. 12 |
| 5 | Sat. | 16. 8. 7 | 2, 3 | 7. 13. 29. 21 | 221. 1. 39 | 15. 54. 27 |
| 6 | Dom. | 16. 5. 7 | 3, 0 | 7. 14. 29. 40 | 222. 1. 34 | 16. 12. 26 |
| 7 | Lun. | 16. 1. 8 | 3, 9 | 7. 15. 30. 0 | 223. 1. 41 | 16. 30. 8 |
| 8 | Mar. | 15. 57, 0 | 4, 8 | 7. 16. 30. 22 | 224. 2. 0 | 16. 47. 33 |
| 9 | Mer. | 15. 51, 4 | 5, 6 | 7. 17. 30. 45 | 225. 2. 32 | 17. 4. 41 |
| 10 | Jov. | 15. 45, 1 | 6, 3 | 7. 18. 31. 10 | 226. 3. 16 | 17. 21. 32 |
| 11 | Ven. | 15. 38, 1 | 7, 0 | 7. 19. 31. 26 | 227. 4. 13 | 17. 38. 5 |
| 12 | Sat. | 15. 30, 2 | 7, 9 | 7. 20. 32. 3 | 228. 5. 22 | 17. 54. 20 |
| 13 | Dom. | 15. 21, 3 | 8, 9 | 7. 21. 32. 32 | 229. 6. 44 | 18. 10. 16 |
| 14 | Lun. | 15. 11, 5 | 9, 8 | 7. 22. 33. 2 | 230. 8. 18 | 18. 25. 53 |
| 15 | Mar. | 15. 0. 9 | 10, 6 | 7. 23. 33. 34 | 231. 10. 5 | 18. 41. 10 |
| 16 | Mer. | 14. 49. 5 | 11, 4 | 7. 24. 34. 7 | 232. 12. 4 | 18. 56. 7 |
| 17 | Jov. | 14. 37, 3 | 12, 2 | 7. 25. 34. 42 | 233. 14. 16 | 19. 10. 44 |
| 18 | Ven. | 14. 24, 3 | 13, 0 | 7. 26. 35. 18 | 234. 16. 40 | 19. 25. 0 |
| 19 | Sat. | 14. 10, 5 | 13, 8 | 7. 27. 35. 56 | 235. 19. 17 | 19. 38. 55 |
| 20 | Dom. | 13. 55, 8 | 14, 7 | 7. 28. 36. 36 | 236. 22. 7 | 19. 52. 29 |
| 21 | Lun. | 13. 40, 3 | 15, 5 | 7. 29. 37. 18 | 237. 25. 9 | 20. 5. 41 |
| 22 | Mar. | 13. 24, 0 | 16, 3 | 8. 0. 38. 1 | 238. 28. 23 | 20. 18. 31 |
| 23 | Mer. | 13. 6, 8 | 17, 2 | 8. 1. 38. 46 | 239. 31. 50 | 20. 30. 59 |
| 24 | Jov. | 12. 48, 7 | 18, 1 | 8. 2. 39. 33 | 240. 35. 29 | 20. 43. 4 |
| 25 | Ven. | 12. 29, 8 | 18, 9 | 8. 3. 40. 21 | 241. 39. 19 | 20. 54. 46 |
| 26 | Sat. | 12. 10, 3 | 19, 5 | 8. 4. 41. 10 | 242. 43. 20 | 21. 6. 4 |
| 27 | Dom. | 11. 50, 2 | 20, 1 | 8. 5. 42. 1 | 243. 47. 33 | 21. 16. 58 |
| 28 | Lun. | 11. 29, 4 | 20, 8 | 8. 6. 42. 54 | 244. 51. 57 | 21. 27. 28 |
| 29 | Mar. | 11. 7, 8 | 21, 6 | 8. 7. 43. 48 | 245. 56. 31 | 21. 37. 34 |
| 30 | Mer. | 10. 45, 4 | 22, 4 | 8. 8. 44. 44 | 247. 1. 15 | 21. 47. 15 |
| | | | 23, 0 | | | |

| Dies mensis | Dies hebdomadae | Distantia sectionis Y & Sole | | | Diffa-ventia | Ini-tium Crepus-culi | Ortus Centri Solis | Occa-sus Centri Solis | Finis Crepus-culi | Hora Italica Meri-diei | | | | | | |
|-------------|-----------------|------------------------------|-----|------|--------------|----------------------|--------------------|-----------------------|-------------------|------------------------|-------|----|----|----|-----|----|
| | | H. | M. | S. | M. S. | H. M. | H. M. | H. M. | H. M. | H. M. | H. M. | | | | | |
| 1 | Mar. | 9. | 31. | 43,9 | 3. | 46, 4 | 5. | 16 | 6. | 58 | 5. | 2 | 6. | 44 | 18. | 28 |
| 2 | Mer. | 9. | 27. | 47,5 | 3. | 57, 2 | 5. | 18 | 7. | 0 | 5. | 0 | 6. | 44 | 18. | 30 |
| 3 | Jov. | 9. | 23. | 50,3 | 3. | 58, 0 | 5. | 19 | 7. | 1 | 4. | 59 | 6. | 41 | 18. | 31 |
| 4 | Ven. | 9. | 19. | 52,3 | 3. | 58, 8 | 5. | 20 | 7. | 3 | 4. | 57 | 6. | 40 | 18. | 33 |
| 5 | Sat. | 9. | 15. | 53,5 | 3. | 59, 7 | 5. | 21 | 7. | 4 | 4. | 56 | 6. | 39 | 18. | 34 |
| 6 | Dom. | 9. | 11. | 53,8 | 4. | 0, 5 | 5. | 22 | 7. | 5 | 4. | 55 | 6. | 38 | 18. | 35 |
| 7 | Lun. | 9. | 7. | 53,3 | 4. | 1, 3 | 5. | 24 | 7. | 6 | 4. | 54 | 6. | 26 | 18. | 36 |
| 8 | Mar. | 9. | 3. | 52,0 | 4. | 2, 1 | 5. | 25 | 7. | 8 | 4. | 52 | 6. | 55 | 18. | 38 |
| 9 | Mer. | 8. | 59. | 49,9 | 4. | 3, 0 | 5. | 26 | 7. | 9 | 4. | 51 | 6. | 34 | 18. | 39 |
| 10 | Jov. | 8. | 55. | 46,9 | 4. | 3, 8 | 5. | 27 | 7. | 10 | 4. | 50 | 6. | 33 | 18. | 40 |
| 11 | Ven. | 8. | 51. | 43,1 | 4. | 4, 6 | 5. | 28 | 7. | 12 | 4. | 48 | 6. | 32 | 18. | 42 |
| 12 | Sat. | 8. | 47. | 38,5 | 4. | 5, 4 | 5. | 29 | 7. | 13 | 4. | 47 | 6. | 31 | 18. | 43 |
| 13 | Dom. | 8. | 43. | 33,1 | 4. | 6, 3 | 5. | 30 | 7. | 14 | 4. | 46 | 6. | 30 | 18. | 44 |
| 14 | Lun. | 8. | 39. | 26,8 | 4. | 7, 1 | 5. | 31 | 7. | 15 | 4. | 45 | 6. | 29 | 18. | 45 |
| 15 | Mar. | 8. | 35. | 19,7 | 4. | 8, 0 | 5. | 32 | 7. | 16 | 4. | 43 | 6. | 28 | 18. | 46 |
| 16 | Mer. | 8. | 31. | 11,7 | 4. | 8, 8 | 5. | 33 | 7. | 17 | 4. | 43 | 6. | 27 | 18. | 47 |
| 17 | Jov. | 8. | 27. | 2,9 | 4. | 9, 6 | 5. | 34 | 7. | 19 | 4. | 41 | 6. | 26 | 18. | 49 |
| 18 | Ven. | 8. | 22. | 53,3 | 4. | 10, 4 | 5. | 35 | 7. | 20 | 4. | 40 | 6. | 25 | 18. | 50 |
| 19 | Sat. | 8. | 18. | 42,9 | 4. | 11, 3 | 5. | 36 | 7. | 21 | 4. | 39 | 6. | 24 | 18. | 51 |
| 20 | Dom. | 8. | 14. | 31,6 | 4. | 12, 1 | 5. | 37 | 7. | 22 | 4. | 38 | 6. | 23 | 18. | 52 |
| 21 | Lun. | 8. | 10. | 19,5 | 4. | 13, 0 | 5. | 38 | 7. | 23 | 4. | 37 | 6. | 22 | 18. | 53 |
| 22 | Mar. | 8. | 6. | 6,5 | 4. | 13, 8 | 5. | 38 | 7. | 24 | 4. | 35 | 6. | 22 | 18. | 54 |
| 23 | Mer. | 8. | 1. | 52,7 | 4. | 13, 6 | 5. | 39 | 7. | 25 | 4. | 35 | 6. | 21 | 18. | 55 |
| 24 | Jov. | 7. | 57. | 38,1 | 4. | 15, 4 | 5. | 40 | 7. | 26 | 4. | 34 | 6. | 20 | 18. | 56 |
| 25 | Ven. | 7. | 53. | 22,7 | 4. | 16, 1 | 5. | 40 | 7. | 27 | 4. | 33 | 6. | 20 | 18. | 57 |
| 26 | Sat. | 7. | 49. | 6,6 | 4. | 16, 9 | 5. | 41 | 7. | 28 | 4. | 32 | 6. | 19 | 18. | 58 |
| 27 | Dom. | 7. | 44. | 49,7 | 4. | 17, 6 | 5. | 42 | 7. | 29 | 4. | 31 | 6. | 18 | 18. | 59 |
| 28 | Lun. | 7. | 40. | 32,1 | 4. | 18, 2 | 5. | 43 | 7. | 30 | 4. | 30 | 6. | 17 | 19. | 0 |
| 29 | Mar. | 7. | 36. | 13,9 | 4. | 18, 9 | 5. | 43 | 7. | 31 | 4. | 29 | 6. | 17 | 19. | 1 |
| 30 | Mer. | 7. | 31. | 55,0 | 4. | 19, 6 | 5. | 44 | 7. | 32 | 4. | 28 | 6. | 16 | 19. | 2 |

| Dies mensis | Dies hebdomadae | Longitudo Lunae | | | Latitudo Lunae | | | Paral- laxis Lunae | |
|-------------|-----------------|-----------------|---------------|-------------|----------------|---------|-------------|-----------------------|--|
| | | Meridie | media nocte | Meridie | med. noct. | Meridie | media nocte | | |
| | | S. G. M. S. | S. G. M. S. | G. M. S. | G. M. S. | M. S. | M. S. | | |
| 1 | Mar. | 7. 1. 58. 58 | 7. 8. 0. 19 | 4. 58. 7 A | 4. 59. 18 | 54. 16 | 54. 23 | | |
| 2 | Mer. | 7. 14. 3. 26 | 7. 20. 8. 24 | 4. 57. 12 | 4. 51. 39 | 54. 31 | 54. 40 | | |
| 3 | Jov. | 7. 26. 15. 16 | 8. 2. 24. 4 | 4. 42. 44 | 4. 30. 28 | 54. 51 | 55. 2 | | |
| 4 | Ven. | 8. 8. 35. 4 | 8. 14. 48. 22 | 4. 14. 55 | 3. 56. 13 | 55. 14 | 55. 27 | | |
| 5 | Sat. | 8. 21. 4. 4 | 8. 27. 22. 22 | 3. 34. 31 | 3. 10. 1 | 55. 42 | 55. 57 | | |
| 6 | Dom. | 9. 3. 43. 27 | 9. 10. 7. 37 | 2. 42. 58 | 2. 13. 35 | 56. 13 | 56. 30 | | |
| 7 | Lun. | 9. 16. 35. 6 | 9. 23. 6. 18 | 1. 42. 13 | 1. 9. 11 | 56. 48 | 57. 7 | | |
| 8 | Mar. | 9. 29. 41. 28 | 10. 6. 20. 56 | 0. 34. 52 A | 0. 0. 20 B | 57. 27 | 57. 47 | | |
| 9 | Mer. | 10. 13. 5. 3 | 10. 19. 54. 8 | 0. 35. 55 | 1. 11. 26 | 58. 8 | 58. 29 | | |
| 10 | Jov. | 10. 26. 48. 14 | 11. 3. 47. 30 | 1. 46. 22 | 2. 20. 6 | 58. 50 | 59. 11 | | |
| 11 | Ven. | 11. 10. 52. 12 | 11. 18. 2. 12 | 2. 52. 9 | 3. 21. 50 | 59. 31 | 59. 50 | | |
| 12 | Sat. | 11. 25. 17. 13 | 0. 2. 36. 42 | 3. 48. 38 | 4. 11. 55 | 60. 7 | 60. 21 | | |
| 13 | Dom. | 0. 10. 0. 19 | 0. 17. 27. 9 | 4. 31. 14 | 4. 46. 5 | 60. 32 | 60. 40 | | |
| 14 | Lun. | 0. 24. 56. 21 | 1. 2. 26. 42 | 4. 56. 5 | 5. 1. 1 | 60. 45 | 60. 46 | | |
| 15 | Mar. | 1. 9. 57. 6 | 1. 17. 26. 16 | 5. 0. 43 | 4. 55. 17 | 60. 42 | 60. 34 | | |
| 16 | Mer. | 1. 24. 52. 58 | 2. 2. 16. 5 | 4. 44. 49 | 4. 29. 42 | 60. 23 | 60. 8 | | |
| 17 | Jov. | 2. 9. 34. 27 | 2. 16. 47. 16 | 4. 10. 12 | 3. 46. 53 | 59. 50 | 59. 28 | | |
| 18 | Ven. | 2. 23. 53. 47 | 3. 0. 53. 38 | 3. 20. 22 | 2. 51. 14 | 59. 4 | 58. 38 | | |
| 19 | Sat. | 3. 7. 46. 27 | 3. 14. 32. 13 | 2. 19. 53 | 1. 47. 6 | 58. 11 | 57. 44 | | |
| 20 | Dom. | 3. 21. 11. 0 | 3. 27. 42. 56 | 1. 13. 23 | 0. 39. 14 | 57. 16 | 56. 49 | | |
| 21 | Lun. | 4. 4. 8. 34 | 4. 10. 28. 26 | 0. 5. 4 B | 0. 28. 42 A | 56. 24 | 56. 0 | | |
| 22 | Mar. | 4. 16. 42. 51 | 4. 22. 52. 32 | 1. 1. 37 | 1. 33. 24 | 55. 38 | 55. 18 | | |
| 23 | Mer. | 4. 28. 58. 7 | 5. 5. 0. 19 | 2. 3. 47 | 2. 32. 31 | 55. 0 | 54. 45 | | |
| 24 | Jov. | 5. 10. 59. 47 | 5. 16. 57. 13 | 2. 59. 20 | 3. 24. 1 | 54. 32 | 54. 22 | | |
| 25 | Ven. | 5. 22. 53. 8 | 5. 28. 48. 12 | 3. 46. 23 | 4. 6. 15 | 54. 15 | 54. 10 | | |
| 26 | Sat. | 6. 4. 43. 8 | 6. 10. 38. 26 | 4. 23. 27 | 4. 37. 49 | 54. 8 | 54. 8 | | |
| 27 | Dom. | 6. 16. 34. 32 | 6. 22. 31. 48 | 4. 49. 13 | 4. 57. 30 | 54. 9 | 54. 13 | | |
| 28 | Lun. | 6. 28. 30. 52 | 7. 4. 31. 58 | 5. 2. 34 | 5. 4. 19 | 54. 19 | 54. 27 | | |
| 29 | Mar. | 7. 10. 35. 16 | 7. 16. 41. 5 | 5. 2. 39 | 4. 57. 31 | 54. 37 | 54. 48 | | |
| 30 | Mer. | 7. 22. 49. 25 | 7. 29. 0. 23 | 4. 48. 57 | 4. 36. 56 | 54. 59 | 54. 11 | | |

| Dies mensis | Dies heptadecadar | Diameter horiz. Lunae Meridie | | Diameter horiz. Lunae in mediâ nocte | | Declinatio Lunae in Meri- diano | | Ortus Lunae | | Transitus Lunae per Meri- dianum | | Coda/ur Lunae | |
|----------------|----------------------|--|----|--|----|--|------|----------------|------|---|------|------------------|------|
| | | M. | S. | M. | S. | G. | M. | H. | M. | H. | M. | H. | M. |
| 1 | Mar. | 29. | 38 | 29. | 42 | 16. | 48 A | 6. | 25 M | 11. | 23 M | 4. | 13 V |
| 2 | Mer. | 29. | 46 | 29. | 51 | 20. | 48 | 7. | 30 | 0. | 8 V | 4. | 49 |
| 3 | Jov. | 29. | 57 | 30. | 3 | 24. | 1 | 8. | 37 | 0. | 57 | 5. | 13 |
| 4 | Ven. | 30. | 9 | 30. | 16 | 26. | 1 | 9. | 38 | 1. | 48 | 5. | 58 |
| 5 | Sat. | 30. | 24 | 30. | 33 | 26. | 41 | 10. | 37 | 2. | 42 | 6. | 47 |
| 6 | Dom. | 30. | 42 | 30. | 51 | 25. | 55 | 11. | 49 | 3. | 37 | 7. | 47 |
| 7 | Lun. | 31. | 1 | 31. | 11 | 23. | 39 | 0. | 13 V | 4. | 31 | 8. | 53 |
| 8 | Mar. | 31. | 22 | 31. | 33 | 19. | 54 | 0. | 45 | 5. | 23 | 10. | 7 |
| 9 | Mer. | 31. | 45 | 31. | 57 | 15. | 0 | 1. | 14 | 6. | 14 | 11. | 23 |
| 10 | Jov. | 32. | 8 | 32. | 19 | 9. | 12 | 1. | 39 | 7. | 4 | | |
| 11 | Ven. | 32. | 30 | 32. | 40 | 2. | 42 A | 1. | 59 | 7. | 51 | 0. | 29 M |
| 12 | Sat. | 32. | 49 | 32. | 57 | 4. | 18 B | 2. | 20 | 8. | 42 | 1. | 57 |
| 13 | Dom. | 33. | 3 | 33. | 8 | 10. | 41 | 2. | 45 | 9. | 34 | 3. | 16 |
| 14 | Lun. | 33. | 11 | 33. | 11 | 16. | 40 | 3. | 11 | 10. | 29 | 4. | 37 |
| 15 | Mar. | 33. | 9 | 33. | 14 | 21. | 46 | 3. | 43 | 11. | 27 | 6. | 1 |
| 16 | Mer. | 32. | 58 | 34. | 50 | * | * | 4. | 23 | * | * | 7. | 27 |
| 17 | Jov. | 32. | 40 | 34. | 28 | 25. | 4 | 5. | 13 | 0. | 28 M | 8. | 45 |
| 18 | Ven. | 32. | 15 | 32. | 1 | 26. | 33 | 6. | 13 | 1. | 30 | 9. | 50 |
| 19 | Sat. | 31. | 46 | 31. | 31 | 26. | 10 | 7. | 22 | 2. | 31 | 10. | 45 |
| 20 | Dom. | 31. | 16 | 31. | 1 | 24. | 5 | 8. | 34 | 3. | 28 | 11. | 25 |
| 21 | Lun. | 30. | 47 | 30. | 34 | 20. | 37 | 9. | 44 | 4. | 21 | 11. | 54 |
| 22 | Mar. | 30. | 22 | 30. | 17 | 16. | 14 | 10. | 51 | 5. | 9 | 0. | 22 V |
| 23 | Mer. | 30. | 2 | 29. | 54 | 11. | 11 | 11. | 56 | 5. | 53 | 0. | 48 |
| 24 | Jov. | 29. | 47 | 29. | 41 | 5. | 59 | * | * | 6. | 34 | 1. | 0 |
| 25 | Ven. | 29. | 37 | 29. | 34 | 0. | 27 B | 0. | 59 M | 7. | 14 | 1. | 17 |
| 26 | Sat. | 29. | 33 | 29. | 33 | 5. | 4 A | 2. | 1 | 7. | 43 | 1. | 35 |
| 27 | Dom. | 29. | 33 | 29. | 36 | 10. | 14 | 3. | 3 | 8. | 33 | 1. | 51 |
| 28 | Lun. | 29. | 39 | 29. | 43 | 15. | 10 | 4. | 7 | 9. | 15 | 2. | 17 |
| 29 | Mar. | 29. | 49 | 29. | 55 | 19. | 30 | 5. | 16 | 10. | 0 | 2. | 40 |
| 30 | Mar. | 30. | 1 | 30. | 8 | 23. | 2 | 6. | 18 | 10. | 47 | 3. | 11 |

| Dies mensis | Longitudo Planeta-rum | Latitudo Plano-tarum | Declina-tio Pla-netarum | Ortas Plano-tarum | Transi-tus Pla-netarum per Me-ridianum | Occasus Plan-tarum |
|-------------|-----------------------|----------------------|-------------------------|-------------------|--|--------------------|
|-------------|-----------------------|----------------------|-------------------------|-------------------|--|--------------------|

| S. G. M. | G. M. | G. M. | H. M. | H. M. | H. M.

SATURNUS.

| | | | | | | |
|----|-----------|---------|----------|----------|---------|----------|
| 1 | 9. 29. 37 | 0. 34 A | 20. 49 A | 1. 5 V | 5. 38 V | 10. 11 V |
| 7 | 9. 29. 56 | 0. 35 | 20. 45 | 0. 43 | 5. 16 | 9. 49 |
| 13 | 10. 0. 18 | 0. 35 | 20. 40 | 0. 20 | 4. 53 | 9. 26 |
| 19 | 10. 0. 44 | 0. 35 | 20. 35 | 11. 56 M | 4. 30 | 9. 4 |
| 25 | 10. 1. 12 | 0. 35 | 20. 29 | 11. 33 | 4. 7 | 8. 31 |

JUPITER.

| | | | | | | |
|----|----------|---------|---------|---------|---------|--------|
| 1 | 0. 4. 6 | 1. 36 A | 0. 57 B | 3. 48 V | 9. 55 V | 4. 2 M |
| 7 | 0. 5. 36 | 1. 34 | 0. 47 | 3. 23 | 9. 29 | 3. 35 |
| 13 | 0. 6. 13 | 1. 33 | 0. 39 | 3. 57 | 9. 3 | 3. 9 |
| 19 | 0. 6. 57 | 1. 31 | 0. 34 | 2. 32 | 8. 37 | 2. 43 |
| 25 | 0. 6. 49 | 1. 29 | 0. 32 | 2. 7 | 8. 12 | 2. 17 |

MARS.

| | | | | | | |
|----|-----------|---------|----------|---------|---------|---------|
| 1 | 2. 14. 23 | 0. 20 B | 22. 55 B | 6. 37 V | 2. 23 M | 10. 9 M |
| 7 | 2. 13. 4 | 0. 38 | 23. 3 | 6. 6 | 1. 53 | 9. 39 |
| 13 | 2. 11. 19 | 0. 57 | 23. 8 | 5. 34 | 1. 21 | 9. 8 |
| 19 | 2. 9. 13 | 1. 15 | 23. 7 | 5. 0 | 0. 47 | 8. 34 |
| 25 | 2. 6. 55 | 1. 32 | 23. 2 | 4. 16 | 0. 12 | 7. 58 |

VENUS.

| | | | | | | |
|----|-----------|---------|--------|---------|---------|---------|
| 1 | 6. 6. 47 | 1. 39 B | 1. 0 A | 9. 59 M | 9. 58 M | 2. 57 V |
| 7 | 6. 13. 38 | 1. 41 | 0. 46 | 4. 13 | 10. 1 | 3. 49 |
| 13 | 6. 21. 2 | 1. 46 | 0. 33 | 4. 27 | 10. 4 | 3. 41 |
| 19 | 6. 28. 27 | 1. 45 | 0. 17 | 4. 42 | 10. 7 | 3. 32 |
| 25 | 7. 5. 53 | 1. 41 | 11. 54 | 4. 57 | 10. 10 | 3. 23 |

MERCURIUS.

| | | | | | | |
|----|-----------|---------|----------|---------|----------|---------|
| 1 | 7. 3. 33 | 0. 56 B | 11. 49 A | 6. 27 M | 11. 41 M | 4. 55 V |
| 7 | 7. 13. 20 | 0. 16 | 15. 34 | 6. 57 | 11. 56 | 4. 51 |
| 13 | 7. 20. 56 | 0. 24 A | 18. 53 | 7. 24 | 0. 6 V | 4. 48 |
| 19 | 8. 1. 28 | 1. 1 | 21. 38 | 7. 51 | 0. 19 | 4. 47 |
| 25 | 8. 11. 42 | 1. 34 | 23. 44 | 8. 16 | 0. 33 | 4. 50 |

ECLIPSES SATELLITUM JOVIS.

| Dies mensis | I. Satelles. | | | Dies | II. Satelles. | | | Dies | III. Satelles. | | |
|----------------|--------------|-----|----|------|---------------|-----|----|------|----------------|-----|------|
| | Emerstones | | | | Emerstones | | | | Imersf. Emerf. | | |
| | H. | M. | S. | | H. | M. | S. | | H. | M. | S. |
| 2 | 10.* | 21. | 56 | 2 | 20. | 41. | 46 | 5 | 9.* | 1. | 9 I |
| 4 | 4. | 50. | 44 | 6 | 10.* | 0. | 18 | 5 | 11.* | 14. | 15 E |
| 5 | 23. | 9. | 30 | 9 | 23. | 18. | 36 | 12 | 13.* | 3. | 10 I |
| 7 | 17. | 48. | 14 | 13 | 12.* | 36. | 45 | 12 | 15. | 14. | 57 E |
| 9 | 12.* | 16. | 54 | 17 | 1. | 54. | 40 | 19 | 17. | 4. | 35 I |
| 11 | 6.* | 45. | 33 | 20 | 15. | 12. | 24 | 19 | 19. | 15. | 0 E |
| 13 | 1. | 14. | 9 | 24 | 4. | 29. | 54 | 26 | 21. | 5. | 18 I |
| 14 | 19. | 42. | 44 | 27 | 17. | 47. | 14 | 26 | 23. | 14. | 30 E |
| 16 | 14.* | 11. | 18 | | | | | | | | |
| 18 | 8.* | 39. | 48 | | | | | | | | |
| 20 | 3. | 8. | 16 | | | | | | | | |
| 21 | 21. | 36. | 42 | | | | | | | | |
| 23 | 16. | 5. | 4 | | | | | Dies | IV. Satelles. | | |
| 25 | 10.* | 33. | 24 | | | | | | Imersf. Emerf. | | |
| 27 | 5. | 1. | 43 | | | | | 15 | 10.* | 1. | 6 I |
| 28 | 23. | 30. | 3 | | | | | 15 | 10.* | 10. | 52 E |
| 30 | 17. | 58. | 18 | | | | | | | | |

| Dies | Diameter Solis | Mora transitus Solis per Meridian. | Motus horarius Solis | Logarithmus distantiae Solis a terra posita media 100000 | Longitudo Nodi Lunae |
|------|-------------------|---|----------------------------|--|-------------------------|
| | M. S. | M. S. | M. S. | | S. G. M. |
| 1 | 32. 19, 8 | 2. 13, 6 | 2. 30, 4 | 4. 996191 | 10. 17. 11 |
| 4 | 32. 20, 9 | 2. 14, 3 | 2. 30, 6 | 4. 995867 | 10. 7. 2 |
| 7 | 32. 22, 1 | 2. 15, 0 | 2. 30, 8 | 4. 995466 | 10. 6. 52 |
| 10 | 32. 23, 5 | 2. 15, 7 | 2. 31, 1 | 4. 995255 | 10. 6. 43 |
| 13 | 32. 24, 9 | 2. 16, 4 | 2. 31, 3 | 4. 994968 | 10. 6. 33 |
| 16 | 32. 26, 2 | 2. 17, 1 | 2. 31, 5 | 4. 994693 | 10. 6. 24 |
| 19 | 32. 27, 4 | 2. 17, 8 | 2. 31, 7 | 4. 994433 | 10. 6. 14 |
| 22 | 32. 28, 6 | 2. 18, 4 | 2. 31, 9 | 4. 994191 | 10. 6. 5 |
| 25 | 32. 29, 6 | 2. 19, 0 | 2. 32, 0 | 4. 993960 | 10. 5. 55 |
| 28 | 32. 30, 5 | 2. 19, 6 | 2. 32, 1 | 4. 993749 | 10. 5. 46 |

POSITIONES SATELLITUM JOVIS

Oriens

6^h Mane

Occidens

| | Oriens | 6 ^h Mane | Occidens |
|----|--------|---------------------|---------------|
| 1 | 4. | .1 | 0 |
| 2 | 4. | | 2. .1 10 |
| 3 | .4 | 2. | 0 3 10 |
| 4 | .4 | I. .2 | 0 3. 10 |
| 5 | | .4 | 0 3. .1 .2 |
| 6 | 20 | I. .4 | 0 |
| 7 | | .3 | 0 I. .4 |
| 8 | | .1 .1 | 0 2. .2 .4 |
| 9 | | | 0 I. .0 .1 .4 |
| 10 | | 2. .1 | 0 .1 10 |
| 11 | | .2 I. | 0 1. .1 .4 |
| 12 | | | 0 1. .1 .2 4. |
| 13 | | 3. 1. | 0 2. .1 .4 |
| 14 | | .3 .2 | 0 .1 .4 |
| 15 | | .3 .1 | 0 4. .2 .4 |
| 16 | | 4. | 0 I. .1 .2 |
| 17 | 4. | 2. .1 | 0 1. .1 .4 |
| 18 | 4. | .2 | 0 3. 10 |
| 19 | .4 | | 0 3. .1 .2 |
| 20 | .4 | 1. I. | 0 2. 10 |
| 21 | | .4 I. 2. | 0 .1 10 |
| 22 | | .3 .4 .1 | 0 10 |
| 23 | | | 0 .4 I. 2. |
| 24 | | 2. .2 | 0 .4 .1 |
| 25 | | .2 | 0 1. .1 .4 10 |
| 26 | | | 0 .1 3. .2 .4 |
| 27 | | 3. 1. | 0 2. 4. |
| 28 | | 3. 2. | 0 .1 4. |
| 29 | | .3 1. .2 | 0 .1 4. |
| 30 | 10 | | 0 I. 2. 4. |
| | | | 0 |
| | | | 0 |

| Dies | Phaenomena & Observationes Solis | Dies | Phaenomena & Observationes Lunae |
|---------------------------|--|------|--|
| | Sol in parallelo | | Luna |
| 1 | ♏ Scorp̄ii & ♎ Hydrae culm. 23 ^h 11' & 20 ^h 31' | 1 | Novilunium 9 ^h 24' |
| 2 | ♏ Corvi culm. 19 ^h 42' | 3 | ad ♀ & ♄ Sagitt. 12 ^h 10' & 16 ^h 34' |
| 5 | ♏ Leporis culm. 12 ^h 42' | 4 | ad 1. 2. 3. ♄ Sagitt. 5 ^h 30', 35' &c. cum occultat. alterius &c. |
| 6 | in nodo descendente Veneris | 5 | ad ♀ Capri 9 ^h 42' |
| 20 | ♏ Corvi culm. 17 ^h 57' | 7 | ad ♀ & ♃ Aquar. 11 ^h 30' & 13 ^h 0' |
| in signo Capri | 21 ^h 9' | 8 | Primus Quadrans 17 ^h 28' |
| in nodo descendente Jovis | | 9 | ad ♄ Piscium 4 ^h 10' |
| 30 | in Petigee | 10 | ad ♃ Piscium 9 ^h 10' |
| | | 12 | ad ♄ & ♀ Ariet. 11 ^h 12' & 19 ^h 30' |
| | | 13 | Perigee ad ♄ Tauri 13 ^h 9', cum occultat. plurimum int. Plejades |
| | | 15 | Plenil. 11 ^h 12'... ad Eri&. 7 ^h 30' |
| | | 16 | ad ♄ Geminor. 6 ^h 0' diff. lat. 23' |
| | | 20 | ad ♄ & ♀ Leonis 3 ^h 24' & 4 ^h 25' |
| | | 22 | ad ♀ Leonis 5 ^h 50' |
| | | 23 | Ult. Q. 2 ^h 43'... ad ♄ Virg. 4 ^h 36' |
| | | 24 | ad ♄ Virginis 16 ^h 20' |
| | | 27 | Apogee ad ♄ Scorp̄ii 8 ^h 6' |
| | | 28 | ad ♄ & ♄ Scorp̄ii 11 ^h & 14 ^h 15' |
| | | 29 | ad ♄ Ophiuci 10 ^h 0' |
| | | 31 | Novilunium 1 ^h 15' |
| | | | <i>Planetae in parallelis fixarum</i> |
| | | | Saturnus b' Canis, ♄ Capri, ♄ Eridani, ♄ Librae, ♄ & ♄ Ceti |
| | | | Jupiter ♄ Antinos, ♄ & ♄ Virg., ♄ & ♄ Piscium |
| | | | Mars ♄ Tauri, ♄ Antioch, ♄, ♄, ♄ Geminor., ♄ Canceri |
| | | | Venus ♄ & ♄ Eridani, ♄ ♄ & ♄ Librae, ♄ Corvi, ♄ Canis, ♄ ♄ Corvi, ♄ Sirii, ♄ Aquarii, ♄ Crateris, ♄ Canis, ♄ Leporis, ♄ ♄ Scorp̄ii, ♄ & ♄ Ceti, ♄ Librae, ♄ ♄ Erid., ♄ & ♄ Leporis, ♄ ♄, ♄, ♄ Sagittarii, ♄ Scorp̄ii, ♄ Hydr., ♄ & ♄ Corvi |
| | | | Mercurius ♄ ♄, ♄ ♄ Scorp̄ii, ♄ Eridani, ♄ ♄ Ophiuci, ♄ Scorp̄ii, ♄ & ♄ Navis, ♄ ♄, ♄ ♄ Corvi, ♄ ♄, ♄ ♄ Leporis, ♄, ♄, ♄ Sagittarii |
| Dies | Phaenomena & Observationes Plantarum | | |
| 1 | Saturnus ad ♄ Capri diff. lat. 21' | | |
| 2 | Venus ad ♄ ♄ Librae diff. lat. 19' & 31' | | |
| 6 | Saturnus ad ♄ Capri diff. lat. 39' | | |
| | Saturnus ad ♄ Capri diff. lat. 9' | | |
| 7 | Venus ad ♄ Librae diff. lat. 51' | | |
| 9 | Mercurius ad ♄ Sagitt. d. 1. 13' | | |
| 13 | Mercurius ad ♄ Sagitt. d. 1. 1. 8' | | |
| 15 | Mars ad ♄ Tauri diff. lat. 1. 0 1' | | |
| | Venus ad ♄ ♄. 2. ♄ Scorp̄ii d. 1. 3' 50' & 61'... ad ♄ Scorp̄ii diff. lat. 30' | | |
| 16 | Mercurius ad ♄ Sagitt. d. 1. 45' | | |
| 18 | Mercurius ad 1. 2. 3. ♄ Sagittarii diff. lat. 28', 25' & 4' | | |
| | Venus ad ♄ Ophiuci diff. lat. 32' | | |
| 19 | Venus ad ♄ Ophiuci diff. lat. 34' | | |
| 22 | Mercur. in elong. max. vespert. | | |
| 24 | Saturnus ad ♄ Capri d. 1. 20' | | |

| Dies mensis | Dies hebdomadae | Aequatio Subtrahenda a tempore vero ut habeatur medium | | Diffe- rentia | Longitudo Solis | | | | Ascensio recta Solis | | | Declinatio Solis Australis | | |
|-------------|-----------------|---|-------|------------------|--------------------|-----|-----|----|-------------------------|-----|----|----------------------------------|-----|----|
| | | M. | S. | | S. | G. | M. | S. | G. | M. | S. | G. | M. | S. |
| 1 | Jov. | 10. | 22, 4 | 23, 0 | 8. | 9. | 45. | 41 | 248. | 6. | 9 | 21. | 56. | 31 |
| 2 | Ven. | 9. | 58, 9 | 23, 5 | 8. | 10. | 46. | 38 | 249. | 11. | 14 | 22. | 5. | 21 |
| 3 | Sat. | 9. | 34, 7 | 24, 2 | 8. | 11. | 47. | 36 | 250. | 16. | 27 | 22. | 13. | 45 |
| 4 | Dom | 9. | 9, 9 | 24, 8 | 8. | 12. | 48. | 35 | 251. | 21. | 48 | 22. | 21. | 44 |
| 5 | Lun. | 8. | 44, 6 | 25, 3 | 8. | 13. | 49. | 35 | 252. | 27. | 16 | 22. | 29. | 17 |
| 6 | Mar. | 8. | 18, 8 | 25, 8 | 8. | 14. | 50. | 35 | 253. | 32. | 51 | 22. | 36. | 24 |
| 7 | Mer. | 7. | 52, 5 | 26, 3 | 8. | 15. | 51. | 36 | 254. | 38. | 34 | 22. | 43. | 4 |
| 8 | Jov. | 7. | 25, 7 | 26, 8 | 8. | 16. | 52. | 38 | 255. | 44. | 24 | 22. | 49. | 16 |
| 9 | Ven. | 6. | 58, 6 | 27, 1 | 8. | 17. | 53. | 40 | 256. | 50. | 21 | 22. | 55. | 1 |
| 10 | Sat. | 6. | 31, 1 | 27, 5 | 8. | 18. | 54. | 43 | 257. | 56. | 24 | 23. | 0. | 19 |
| 11 | Dom | 6. | 3, 1 | 28, 0 | 8. | 19. | 55. | 46 | 259. | 2. | 32 | 23. | 5. | 10 |
| 12 | Lun. | 5. | 34, 8 | 28, 3 | 8. | 20. | 56. | 49 | 260. | 8. | 45 | 23. | 9. | 34 |
| 13 | Mar. | 5. | 6, 3 | 28, 5 | 8. | 21. | 57. | 53 | 261. | 15. | 3 | 23. | 13. | 30 |
| 14 | Mer. | 4. | 37, 5 | 29, 8 | 8. | 22. | 58. | 58 | 262. | 21. | 25 | 23. | 16. | 58 |
| 15 | Jov. | 4. | 8, 5 | 29, 0 | 8. | 24. | 0. | 3 | 263. | 27. | 51 | 23. | 19. | 58 |
| 16 | Ven. | 3. | 39, 2 | 29, 3 | 8. | 25. | 1. | 9 | 264. | 34. | 21 | 23. | 22. | 30 |
| 17 | Sat. | 3. | 9, 7 | 29, 5 | 8. | 26. | 2. | 15 | 265. | 40. | 54 | 23. | 24. | 34 |
| 18 | Dom | 2. | 40, 1 | 29, 6 | 8. | 27. | 3. | 22 | 266. | 47. | 29 | 23. | 26. | 10 |
| 19 | Lun. | 2. | 10, 3 | 29, 8 | 8. | 28. | 4. | 29 | 267. | 54. | 6 | 23. | 27. | 18 |
| 20 | Mar. | 1. | 40, 3 | 30, 0 | 8. | 29. | 5. | 37 | 269. | 0. | 44 | 23. | 27. | 57 |
| 21 | Mer. | 1. | 10, 3 | 30, 0 | 9. | 0. | 6. | 46 | 270. | 7. | 23 | 23. | 28. | 8 |
| 22 | Jov. | 0. | 40, 2 | 30, 1 | 9. | 1. | 7. | 55 | 271. | 14. | 3 | 23. | 27. | 51 |
| 23 | Ven. | 0. | 10, 1 | 30, 1 | 9. | 2. | 9. | 5 | 272. | 20. | 43 | 23. | 27. | 5 |
| 24 | Sat. | +0. | 20, 0 | 30, 1 | 9. | 3. | 10. | 16 | 273. | 27. | 23 | 23. | 25. | 51 |
| 25 | Dom | 0. | 50, 0 | 30, 0 | 9. | 4. | 11. | 27 | 274. | 34. | 2 | 23. | 24. | 9 |
| 26 | Lun. | 1. | 19, 8 | 29, 8 | 9. | 5. | 12. | 39 | 275. | 40. | 40 | 23. | 21. | 58 |
| 27 | Mar. | 1. | 49, 5 | 29, 7 | 9. | 6. | 13. | 51 | 276. | 47. | 16 | 23. | 19. | 19 |
| 28 | Mer. | 2. | 19, 1 | 29, 6 | 9. | 7. | 15. | 3 | 277. | 53. | 49 | 23. | 16. | 12 |
| 29 | Jov. | 2. | 48, 4 | 29, 3 | 9. | 8. | 16. | 16 | 279. | 0. | 19 | 23. | 12. | 37 |
| 30 | Ven. | 3. | 17, 5 | 29, 1 | 9. | 9. | 17. | 29 | 280. | 6. | 45 | 23. | 8. | 34 |
| 31 | Sat. | 3. | 46, 3 | 28, 8 | 9. | 10. | 18. | 42 | 281. | 12. | 7 | 23. | 4. | 4 |
| | | | | 28, 5 | | | | | | | | | | |

| Dies mensis | Die hebdomadae | Distantia sectionis Y a Sole | Differentia | Initium Crepusculi | Ortus Centri Solis | Occasus Centri Solis | Finis Crepusculi | Hora Italica Meridiei |
|-------------|----------------|------------------------------|-------------|--------------------|--------------------|----------------------|------------------|-----------------------|
| | | H. M. S. | M. S. | H. M. | H. M. | H. M. | H. M. | H. M. |
| 1 | Jov. | 7. 27. 35.4 | 4. 20, 3 | 5. 45 | 7. 33 | 4. 27 | 6. 15 | 19. 3 |
| 2 | Ven. | 7. 23. 15.1 | 4. 20, 9 | 5. 45 | 7. 33 | 4. 27 | 6. 15 | 19. 3 |
| 3 | Sat. | 7. 18. 54.2 | 4. 21, 4 | 5. 46 | 7. 34 | 4. 26 | 6. 14 | 19. 4 |
| 4 | Dom. | 7. 14. 32.8 | 4. 21, 9 | 5. 46 | 7. 35 | 4. 25 | 6. 14 | 19. 5 |
| 5 | Lun. | 7. 10. 10.9 | 4. 22, 4 | 5. 47 | 7. 36 | 4. 24 | 6. 13 | 19. 6 |
| 6 | Mar. | 7. 5. 48.5 | 4. 22, 8 | 5. 47 | 7. 36 | 4. 24 | 6. 13 | 19. 6 |
| 7 | Mer. | 7. 1. 25.7 | 4. 23, 3 | 5. 48 | 7. 37 | 4. 23 | 6. 12 | 19. 7 |
| 8 | Jov. | 6. 57. 2.4 | 4. 23, 8 | 5. 49 | 7. 37 | 4. 23 | 6. 11 | 19. 7 |
| 9 | Ven. | 6. 52. 88.6 | 4. 24, 2 | 5. 49 | 7. 38 | 4. 22 | 6. 11 | 19. 8 |
| 10 | Sat. | 6. 48. 14.4 | 4. 24, 5 | 5. 50 | 7. 39 | 4. 21 | 6. 10 | 19. 9 |
| 11 | Dom. | 6. 43. 49.9 | 4. 24, 9 | 5. 50 | 7. 39 | 4. 21 | 6. 10 | 19. 9 |
| 12 | Lun. | 6. 39. 25.0 | 4. 25, 2 | 5. 50 | 7. 39 | 4. 21 | 6. 10 | 19. 9 |
| 13 | Mar. | 6. 34. 59.8 | 4. 25, 5 | 5. 50 | 7. 40 | 4. 20 | 6. 10 | 19. 10 |
| 14 | Mer. | 6. 30. 34.3 | 4. 25, 8 | 5. 51 | 7. 40 | 4. 20 | 6. 9 | 19. 10 |
| 15 | Jov. | 6. 26. 8.5 | 4. 26, 0 | 5. 51 | 7. 40 | 4. 20 | 6. 9 | 19. 10 |
| 16 | Ven. | 6. 21. 42.5 | 4. 26, 2 | 5. 51 | 7. 41 | 4. 19 | 6. 9 | 19. 11 |
| 17 | Sat. | 6. 17. 16.7 | 4. 26, 3 | 5. 52 | 7. 41 | 4. 19 | 6. 8 | 19. 11 |
| 18 | Dom. | 6. 12. 50.0 | 4. 26, 4 | 5. 52 | 7. 41 | 4. 19 | 6. 8 | 19. 11 |
| 19 | Lun. | 6. 8. 23.6 | 4. 26, 5 | 5. 52 | 7. 42 | 4. 18 | 6. 8 | 19. 12 |
| 20 | Mar. | 6. 3. 57.1 | 4. 26, 6 | 5. 52 | 7. 42 | 4. 18 | 6. 8 | 19. 12 |
| 21 | Mer. | 5. 59. 30.5 | 4. 26, 7 | 5. 52 | 7. 42 | 4. 18 | 6. 8 | 19. 12 |
| 22 | Jov. | 5. 55. 3.8 | 4. 26, 7 | 5. 52 | 7. 42 | 4. 18 | 6. 8 | 19. 12 |
| 23 | Ven. | 5. 50. 37.1 | 4. 26, 7 | 5. 52 | 7. 42 | 4. 18 | 6. 8 | 19. 12 |
| 24 | Sat. | 5. 46. 10.4 | 4. 26, 6 | 5. 52 | 7. 42 | 4. 18 | 6. 8 | 19. 12 |
| 25 | Dom. | 5. 41. 43.8 | 4. 26, 5 | 5. 51 | 7. 41 | 4. 19 | 6. 9 | 19. 11 |
| 26 | Lun. | 5. 37. 17.3 | 4. 26, 4 | 5. 51 | 7. 41 | 4. 19 | 6. 9 | 19. 11 |
| 27 | Mar. | 5. 32. 50.9 | 4. 26, 2 | 5. 51 | 7. 41 | 4. 19 | 6. 9 | 19. 11 |
| 28 | Mer. | 5. 28. 24.7 | 4. 26, 0 | 5. 50 | 7. 40 | 4. 20 | 6. 10 | 19. 10 |
| 29 | Jov. | 5. 23. 58.7 | 4. 25, 7 | 5. 50 | 7. 40 | 4. 20 | 6. 10 | 19. 10 |
| 30 | Ven. | 5. 19. 33.0 | 4. 25, 4 | 5. 50 | 7. 39 | 4. 21 | 6. 10 | 19. 9 |
| 31 | Sat. | 5. 15. 7.6 | | 5. 50 | 7. 39 | 4. 21 | 6. 10 | 19. 9 |

| Dies mensis | Dies hebdomadae | Longitudo Lunae Meridie | Longitudo Lunae media nocte | Latitudo Lunae Meridie | Latitudo Lunae med. noct. | Paral- laxis Lunae Meridie | Paral- laxis Lunae media nocte |
|-------------|-----------------|-------------------------|-----------------------------|------------------------|---------------------------|----------------------------|--------------------------------|
| | | S. G. M. S. | S. G. M. S. | G. M. S. | G. M. S. | M. S. | M. S. |
| 1 | Jov. | 8. 5. 14. 12 | 8. 11. 50. 53 | 4. 21. 29 A | 4. 2. 43 A | 55. 24 | 55. 38 |
| 2 | Ven. | 8. 17. 50. 23 | 8. 24. 12. 41 | 3. 40. 48 | 3. 15. 57 | 55. 52 | 56. 7 |
| 3 | Sat. | 9. 0. 37. 49 | 9. 7. 5. 48 | 2. 48. 24 | 2. 18. 27 | 56. 22 | 56. 37 |
| 4 | Dom. | 9. 13. 36. 26 | 9. 20. 9. 51 | 1. 46. 27 | 1. 12. 46 | 56. 51 | 57. 6 |
| 5 | Lun. | 9. 26. 46. 6 | 10. 3. 25. 16 | 0. 37. 48 | 0. 2. 1 A | 57. 20 | 57. 35 |
| 6 | Mar. | 10. 10. 7. 25 | 10. 16. 52. 25 | 0. 34. 5 B | 1. 9. 58 B | 57. 49 | 58. 3 |
| 7 | Mer. | 10. 23. 40. 32 | 11. 0. 31. 52 | 1. 45. 12 | 2. 19. 13 | 58. 16 | 58. 30 |
| 8 | Jov. | 11. 7. 26. 27 | 11. 14. 24. 18 | 2. 51. 28 | 3. 21. 25 | 58. 44 | 58. 55 |
| 9 | Ven. | 11. 21. 25. 22 | 11. 28. 29. 40 | 3. 48. 35 | 4. 12. 26 | 59. 7 | 59. 18 |
| 10 | Sat. | 0. 5. 36. 55 | 0. 12. 46. 51 | 4. 32. 37 | 4. 48. 40 | 59. 28 | 59. 36 |
| 11 | Dom. | 0. 19. 59. 22 | 0. 27. 13. 46 | 5. 0. 14 | 5. 7. 3 | 59. 43 | 59. 48 |
| 12 | Lun. | 1. 4. 29. 34 | 1. 11. 46. 0 | 5. 8. 58 | 5. 5. 57 | 59. 51 | 59. 51 |
| 13 | Mar. | 1. 19. 2. 29 | 1. 26. 18. 16 | 4. 57. 56 | 4. 45. 9 | 59. 49 | 59. 44 |
| 14 | Mer. | 2. 3. 32. 4 | 2. 10. 43. 28 | 4. 27. 50 | 4. 6. 24 | 59. 36 | 59. 25 |
| 15 | Jov. | 2. 17. 51. 41 | 2. 24. 55. 57 | 3. 41. 9 | 3. 12. 46 | 59. 11 | 58. 54 |
| 16 | Ven. | 3. 1. 55. 32 | 3. 8. 50. 1 | 2. 41. 42 | 2. 8. 35 | 58. 35 | 58. 15 |
| 17 | Sat. | 3. 15. 39. 2 | 3. 22. 22. 24 | 1. 34. 0 | 0. 58. 32 | 57. 53 | 57. 30 |
| 18 | Dom. | 3. 28. 59. 59 | 4. 5. 31. 50 | 0. 22. 46 B | 0. 12. 49 A | 57. 7 | 56. 44 |
| 19 | Lun. | 4. 11. 58. 9 | 4. 18. 19. 4 | 0. 47. 48 A | 1. 21. 47 | 56. 21 | 55. 59 |
| 20 | Mar. | 4. 24. 35. 2 | 5. 0. 46. 32 | 1. 54. 18 | 2. 25. 4 | 55. 39 | 55. 21 |
| 21 | Mer. | 5. 6. 53. 58 | 5. 12. 57. 56 | 2. 53. 50 | 3. 20. 22 | 55. 4 | 55. 49 |
| 22 | Jov. | 5. 18. 58. 58 | 5. 24. 57. 44 | 3. 44. 30 | 4. 6. 3 | 54. 37 | 54. 27 |
| 23 | Ven. | 6. 0. 54. 53 | 6. 6. 51. 4 | 4. 24. 48 | 4. 40. 38 | 54. 20 | 54. 16 |
| 24 | Sat. | 6. 12. 46. 47 | 6. 18. 42. 43 | 4. 53. 29 | 5. 3. 15 | 54. 14 | 54. 15 |
| 25 | Dom. | 6. 24. 39. 29 | 7. 0. 37. 38 | 5. 9. 42 | 5. 12. 49 | 54. 18 | 54. 24 |
| 26 | Lun. | 7. 6. 37. 46 | 7. 12. 40. 16 | 5. 12. 34 | 5. 8. 51 | 54. 32 | 57. 42 |
| 27 | Mar. | 7. 18. 45. 34 | 7. 24. 54. 4 | 5. 1. 39 | 4. 50. 55 | 54. 54 | 56. 8 |
| 28 | Mer. | 8. 1. 6. 4 | 8. 7. 21. 46 | 4. 36. 42 | 4. 19. 3 | 55. 24 | 56. 41 |
| 29 | Jov. | 8. 13. 41. 24 | 8. 20. 4. 59 | 3. 57. 59 | 3. 33. 43 | 55. 58 | 55. 16 |
| 30 | Ven. | 8. 26. 32. 46 | 9. 3. 4. 26 | 3. 6. 29 | 2. 36. 30 | 56. 35 | 55. 53 |
| 31 | Sat. | 9. 9. 39. 53 | 9. 16. 19. 0 | 2. 4. 10 | 1. 29. 45 | 57. 21 | 57. 28 |

| Dies mensis | Dies hebdomadae | Diameter horiz. Lunae Meridie | | Diameter horiz. Lunae media nocte | | Declinatio Lunae in Meridiano | | Ortus Lunae | | Transitus Lunae per Meridianum | | Occasus Lunae | |
|-------------|-----------------|-------------------------------|----|-----------------------------------|----|-------------------------------|------|-------------|------|--------------------------------|------|---------------|------|
| | | M. | S. | M. | S. | G. | M. | H. | M. | H. | M. | H. | M. |
| 1 | Jov. | 30. | 15 | 30. | 22 | 25. | 29 A | 7. | 24M | 11. | 37M | 3. | 47 V |
| 2 | Ven. | 30. | 30 | 30. | 38 | 26. | 34 | 8. | 25 | 0. | 31 V | 4. | 36 |
| 3 | Sat. | 30. | 47 | 30. | 55 | 26. | 12 | 9. | 22 | 1. | 26 | 5. | 22 |
| 4 | Dom. | 31. | 3 | 31. | 11 | 24. | 25 | 10. | 5 | 2. | 20 | 6. | 39 |
| 5 | Lun. | 31. | 19 | 31. | 26 | 26. | 55 | 10. | 41 | 3. | 13 | 7. | 51 |
| 6 | Mar. | 31. | 44 | 31. | 41 | 16. | 25 | 11. | 12 | 4. | 4 | 9. | 4 |
| 7 | Mer. | 31. | 49 | 31. | 56 | 10. | 48 | 11. | 25 | 4. | 58 | 10. | 21 |
| 8 | Jov. | 32. | 4 | 32. | 11 | 5. | 7 A | 11. | 58 | 5. | 41 | 11. | 36 |
| 9 | Ven. | 32. | 17 | 32. | 23 | 1. | 36 B | 0. | 18 V | 6. | 28 | * | * |
| 10 | Sat. | 32. | 28 | 32. | 32 | 8. | 19 | 0. | 39 | 7. | 16 | 0. | 51M |
| 11 | Dom. | 32. | 36 | 32. | 39 | 13. | 26 | 1. | 6 | 8. | 7 | 2. | 6 |
| 12 | Lun. | 32. | 41 | 32. | 41 | 18. | 29 | 1. | 37 | 9. | 2 | 3. | 22 |
| 13 | Mar. | 32. | 40 | 32. | 37 | 23. | 39 | 2. | 8 | 10. | 0 | 4. | 39 |
| 14 | Mer. | 32. | 33 | 32. | 27 | 25. | 59 | 2. | 48 | 11. | 0 | 6. | 8 |
| 15 | Jov. | 32. | 19 | 32. | 10 | * | * | 3. | 42 | * | * | 7. | 17 |
| 16 | Ven. | 31. | 59 | 31. | 48 | 25. | 33 | 4. | 49 | 0. | 2M | 8. | 21 |
| 17 | Sat. | 31. | 36 | 31. | 24 | 25. | 12 | 5. | 59 | 1. | 1 | 9. | 7 |
| 18 | Dom. | 31. | 11 | 30. | 59 | 22. | 15 | 7. | 12 | 1. | 57 | 9. | 42 |
| 19 | Lun. | 30. | 46 | 30. | 34 | 18. | 11 | 8. | 22 | 2. | 48 | 10. | 11 |
| 20 | Mar. | 30. | 23 | 30. | 13 | 13. | 11 | 9. | 30 | 3. | 24 | 10. | 24 |
| 21 | Mer. | 30. | 4 | 29. | 56 | 7. | 47 | 10. | 55 | 4. | 17 | 10. | 52 |
| 22 | Jov. | 29. | 49 | 29. | 44 | 2. | 29 | 11. | 37 | 4. | 58 | 11. | 10 |
| 23 | Ven. | 29. | 40 | 29. | 38 | 3. | 1 A | * | * | 5. | 37 | 11. | 27 |
| 24 | Sat. | 29. | 37 | 29. | 37 | 8. | 23 | 0. | 38M | 6. | 16 | 11. | 44 |
| 25 | Dom. | 29. | 39 | 29. | 42 | 13. | 24 | 1. | 43 | 6. | 57 | 0. | 1 V |
| 26 | Lun. | 29. | 46 | 29. | 52 | 17. | 56 | 2. | 47 | 7. | 40 | 0. | 25 |
| 27 | Mar. | 29. | 58 | 29. | 6 | 21. | 47 | 3. | 52 | 8. | 26 | 0. | 54 |
| 28 | Mer. | 30. | 15 | 30. | 24 | 24. | 29 | 4. | 57 | 9. | 15 | 1. | 29 |
| 29 | Jov. | 30. | 33 | 30. | 43 | 26. | 21 | 5. | 59 | 10. | 7 | 2. | 12 |
| 30 | Ven. | 30. | 54 | 31. | 4 | 26. | 32 | 6. | 57 | 11. | 2 | 3. | 8 |
| 31 | Sat. | 31. | 14 | 31. | 23 | 25. | 9 | 7. | 46 | 11. | 58 | 4. | 13 |

| <i>Dies mensis</i> | <i>Longitudo Planetarum</i> | <i>Latitudo Planetarum</i> | <i>Declinatio Planetarum</i> | <i>Ortus Planetarum</i> | <i>Transitus Planetarum per Meridianum</i> | <i>Orcasus Planetarum</i> |
|--------------------|-----------------------------|----------------------------|------------------------------|-------------------------|--|---------------------------|
| | <i>S. G. M.</i> | <i>G. M.</i> | <i>G. M.</i> | <i>H. M.</i> | <i>H. M.</i> | <i>H. M.</i> |

SATURNUS.

| | | | | | | |
|----|-----------|---------|----------|---------|---------|---------|
| 1 | 10. 1. 40 | 0. 35 A | 20. 22 A | 11. 8 M | 3. 43 V | 8. 18 V |
| 7 | 10. 2. 13 | 0. 35 | 20. 15 | 10. 43 | 3. 19 | 7. 54 |
| 13 | 10. 2. 48 | 0. 36 | 20. 7 | 10. 19 | 2. 55 | 7. 31 |
| 19 | 10. 3. 25 | 0. 36 | 19. 59 | 9. 54 | 2. 31 | 7. 8 |
| 25 | 10. 4. 3 | 0. 36 | 19. 50 | 9. 30 | 2. 8 | 6. 46 |

JUPITER.

| | | | | | | |
|----|----------|---------|---------|----------|---------|---------|
| 1 | 0. 4. 45 | 1. 27 A | 0. 34 B | 1. 41 V | 7. 46 V | 1. 51 M |
| 7 | 0. 4. 52 | 1. 25 | 0. 38 | 1. 15 | 7. 20 | 1. 26 |
| 13 | 0. 5. 5 | 1. 24 | 0. 44 | 0. 49 | 6. 55 | 1. 1 |
| 19 | 0. 5. 26 | 1. 22 | 0. 54 | 0. 23 | 6. 29 | 0. 36 |
| 25 | 0. 5. 54 | 1. 20 | 1. 7 | 11. 57 M | 6. 4 | 0. 11 |

MARS.

| | | | | | | |
|----|-----------|---------|----------|---------|----------|---------|
| 1 | 2. 4. 37 | 1. 47 B | 22. 50 B | 3. 49 M | 11. 34 V | 7. 19 M |
| 7 | 2. 2. 32 | 2. 0 | 22. 39 | 3. 15 | 10. 59 | 6. 43 |
| 13 | 2. 0. 47 | 2. 10 | 22. 27 | 2. 42 | 10. 25 | 6. 8 |
| 19 | 1. 59. 27 | 2. 17 | 22. 18 | 2. 11 | 9. 53 | 5. 35 |
| 25 | 1. 28. 35 | 2. 22 | 22. 12 | 1. 41 | 9. 23 | 5. 5 |

VENUS.

| | | | | | | |
|----|-----------|---------|----------|---------|----------|---------|
| 1 | 7. 13. 21 | 1. 23 B | 14. 23 A | 5. 12 M | 10. 14 M | 3. 16 V |
| 7 | 7. 20. 50 | 1. 25 | 16. 37 | 5. 25 | 10. 17 | 3. 9 |
| 13 | 7. 28. 20 | 1. 14 | 18. 36 | 5. 38 | 10. 21 | 3. 4 |
| 19 | 8. 5. 50 | 1. 2 | 20. 18 | 5. 50 | 10. 25 | 3. 1 |
| 25 | 8. 13. 21 | 0. 48 | 21. 39 | 6. 2 | 10. 30 | 2. 58 |

MERCURIUS.

| | | | | | | |
|----|-----------|--------|---------|---------|---------|---------|
| 1 | 8. 20. 58 | 2. 0 A | 25. 7 A | 8. 38 M | 0. 48 V | 4. 58 V |
| 7 | 9. 0. 10 | 2. 15 | 25. 42 | 8. 56 | 1. 2 | 5. 8 |
| 13 | 9. 9. 7 | 2. 15 | 25. 22 | 9. 7 | 1. 16 | 5. 25 |
| 19 | 9. 17. 22 | 1. 53 | 24. 10 | 9. 10 | 1. 25 | 5. 40 |
| 25 | 9. 23. 41 | 0. 58 | 22. 18 | 9. 0 | 1. 25 | 5. 50 |

ECLIPSES SATELLITUM JOVIS.

| Dies mensis | I. Satelles. | | | Dies | II. Satelles. | | | Dies | III. Satelles. | | |
|-------------|--------------|-----|----|------|---------------|-----|----|------|------------------------------|-----|------|
| | Emerfiones | | | | Emerfiones | | | | Imers. Emerf. | | |
| | H. | M. | S. | | H. | M. | S. | | H. | M. | S. |
| 2 | 12. | 26. | 30 | 1 | 7. | 4. | 20 | 4 | 1. | 5. | 20 I |
| 4 | 6. | 54. | 44 | 4 | 20. | 21. | 31 | 4 | 3. | 13. | 24 E |
| 6 | 1. | 22. | 54 | 8 | 9. | 38. | 12 | 11 | 5. | 5. | 10 I |
| 7 | 19. | 51. | 4 | 11 | 22. | 54. | 56 | 11 | 7. | 11. | 54 E |
| 9 | 14. | 19. | 14 | 15 | 12. | 11. | 35 | 18 | 9. | 4. | 48 I |
| 11 | 8. | 47. | 23 | 19 | 1. | 28. | 8 | 18 | 11. | 10. | 8 E |
| 13 | 3. | 15. | 30 | 22 | 14. | 44. | 36 | 25 | 13. | 4. | 18 I |
| 14 | 21. | 43. | 36 | 26 | 4. | 1. | 3 | 25 | 15. | 8. | 16 E |
| 16 | 16. | 11. | 42 | 29 | 17. | 17. | 30 | | | | |
| 18 | 10. | 39. | 48 | | | | | | | | |
| 20 | 5. | 7. | 54 | | | | | | | | |
| 21 | 25. | 35. | 59 | | | | | | | | |
| 23 | 18. | 4. | 4 | | | | | | | | |
| 25 | 12. | 32. | 9 | | | | | Dies | IV. Satelles. Conjunctiones. | | |
| 27 | 7. | 0. | 14 | | | | | 1 | 16. | 38. | Sup. |
| 29 | 1. | 28. | 19 | | | | | 10 | 1. | 9. | Inf. |
| 30 | 19. | 56. | 24 | | | | | 18 | 9. | 49. | Sup. |
| | | | | | | | | 26 | 18. | 49. | Inf. |

| Dies | Diameter Solis | Mora transitus Solis per Meridian. | Motus horarius Solis | Logarithmus distantias Solis a terra posita media 100000 | Longitudo Nodi Lunae |
|------|----------------|------------------------------------|----------------------|--|----------------------|
| | M. S. | M. S. | M. S. | | S. G. M. |
| 1 | 32. 31, 4 | 2. 20, 2 | 2. 32, 2 | 4. 993570 | 10. 5. 36 |
| 4 | 32. 32, 3 | 2. 20, 7 | 2. 32, 4 | 4. 993391 | 10. 5. 37 |
| 7 | 32. 33, 0 | 2. 21, 2 | 2. 32, 5 | 4. 992336 | 10. 5. 37 |
| 10 | 32. 33, 7 | 2. 21, 5 | 2. 32, 6 | 4. 993087 | 10. 5. 38 |
| 13 | 32. 34, 3 | 2. 21, 8 | 2. 32, 7 | 4. 992964 | 10. 4. 38 |
| 16 | 32. 34, 8 | 2. 21, 9 | 2. 32, 7 | 4. 992860 | 10. 4. 39 |
| 19 | 32. 35, 2 | 2. 22, 0 | 2. 32, 8 | 4. 992776 | 10. 4. 39 |
| 22 | 32. 35, 5 | 2. 22, 0 | 2. 32, 8 | 4. 992712 | 10. 4. 30 |
| 25 | 32. 35, 6 | 2. 22, 0 | 2. 32, 9 | 4. 992668 | 10. 4. 30 |
| 28 | 32. 35, 7 | 2. 22, 0 | 2. 32, 9 | 4. 992645 | 10. 3. 30 |

POSITIONES SATELLITUM JOVIS

Oriens

6^h Vespere

Occidens

| | Oriens | 6 ^h Vespere | Occidens |
|----|--------|----------------------------------|---------------------|
| 1 | | 1. ○ | 30 |
| 2 | | .24. ○ ^{1.} | 1. |
| 3 | 4. | .1 ○ | .27. |
| 4 | 4. | 1. ○ | 2. |
| 5 | 4. | 1. 2. ○ ^{1.} | |
| 6 | .4 | .1 .2 1. ○ | |
| 7 | .4 | .3 ○ | .1 .2 |
| 8 | .4 | .1 ○ | .1 |
| 9 | | 2 σ ⁴ ○ ^{1.} | 1. |
| 10 | | .1 ○ | .4 .2 3. |
| 11 | 10 10 | ○ | 3. .4 |
| 12 | | 1. 2. ○ | .1 .4 |
| 13 | | .1 1 σ ² ○ | |
| 14 | | .1 ○ | .1 .2 |
| 15 | | 1. ○ | 2. .1 4. |
| 16 | | 2. ○ | 1. .1 4. |
| 17 | | .1 ○ | .2 4 σ ³ |
| 18 | 10 | ○ | 4 σ ³ 2. |
| 19 | | 1. 4. 2. ○ | .1 |
| 20 | 4. 3 | .2 1. ○ | |
| 21 | 4. | .1 ○ | .1 .2 |
| 22 | 4. | 1. ○ | 2. .1 |
| 23 | .4 | 2. ○ | 1. .3 |
| 24 | .4 | .1 ○ | .2 1. |
| 25 | | .4 ○ | 1. .2 |
| 26 | | 1. 2 σ ⁴ .1 ○ | |
| 27 | | .1 ○ | .2 10 |
| 28 | | .1 ○ | .1 .2 .4 |
| 29 | | 1. ○ | 2 σ ³ .4 |
| 30 | | 2. ○ | 1. .7 |
| 31 | 10 | .1 ○ | 1. .4 |
| | | ○ | |

Positiones mediae 300 principalium stellarum fixarum pro 1. Jan. 1785, ex Catalogo D. *de la Caille* computatae secundum earum ascensionem rectam, declinationem, longitudinem, latitudinem & angulum positionis, quibus adjiciuntur variationes annuae, aberrationes maximae lucis, & argumenta aberrationis in ascensionem rectam, & declinationem.

Positiones mediae 300 principalium stellarum fixarum

| NOMEN SIDERIS | <i>Ascensio recta</i> | | | | <i>Va- Aber-</i> | | <i>Argum.</i> | | | | |
|---|-----------------------|-----------|-----------|-----------|--------------------|-----------|----------------|-----------|-----------|-----------|----|
| | | | | | <i>riatio max.</i> | | <i>aberra-</i> | | | | |
| | | | | | <i>annua</i> | | <i>tionis</i> | | | | |
| | <i>H.</i> | <i>M.</i> | <i>S.</i> | <i>G.</i> | <i>M.</i> | <i>S.</i> | <i>S.</i> | <i>S.</i> | <i>G.</i> | <i>M.</i> | |
| γ Pegasi <i>Algenib.</i> 2 | 0. | 2. | 11 | 0. | 32. | 48,4 | 46,2 | 18,7 | 3. | 0. | 32 |
| α Phoenicis 2. 3 | 0. | 15. | 37 | 3. | 54. | 15,0 | 44,9 | 25,3 | 3. | 4. | 12 |
| δ Andromedae 3 | 0. | 27. | 52 | 6. | 57. | 54,1 | 47,5 | 21,1 | 3. | 7. | 32 |
| α Cassiopeae 3 | 0. | 28. | 24 | 7. | 5. | 59,0 | 49,6 | 32,3 | 3. | 7. | 41 |
| ε Ceti 2 | 0. | 32. | 47 | 8. | 11. | 51,8 | 45,2 | 19,4 | 3. | 8. | 53 |
| γ Cassiopeae 3 | 0. | 43. | 51 | 10. | 57. | 52,1 | 52,5 | 36,2 | 3. | 11. | 52 |
| α Ursae min. <i>Poralis</i> 2 | 0. | 48. | 40 | 12. | 9. | 52,8 | 176,0 | 566,3 | 3. | 13. | 8 |
| ε Andromedae 3 | 0. | 57. | 32 | 14. | 22. | 53,4 | 49,5 | 22,3 | 3. | 15. | 37 |
| ε Ceti 3. 4 | 0. | 57. | 38 | 14. | 24. | 34,8 | 45,1 | 18,8 | 3. | 15. | 38 |
| δ Cassiopeae 3 | 1. | 11. | 52 | 17. | 57. | 59,6 | 56,3 | 36,0 | 3. | 19. | 24 |
| ε Ceti 3. 4 | 1. | 13. | 18 | 18. | 19. | 30,9 | 45,1 | 18,7 | 3. | 19. | 48 |
| ε Cassiopeae 3 | 1. | 39. | 7 | 24. | 46. | 38,0 | 62,7 | 40,1 | 3. | 26. | 38 |
| α Trianguli bor. 3. 4 | 1. | 40. | 52 | 25. | 13. | 1,0 | 50,7 | 21,2 | 3. | 27. | 7 |
| γ Arietis 4 | 1. | 41. | 45 | 25. | 26. | 16,8 | 49,0 | 19,6 | 3. | 27. | 22 |
| ε Arietis 3. 4 | 1. | 42. | 47 | 25. | 41. | 45,2 | 49,2 | 19,8 | 3. | 27. | 38 |
| γ Andromedae 2 | 1. | 50. | 46 | 27. | 41. | 30,8 | 54,2 | 24,9 | 3. | 29. | 44 |
| α Piscium 3 | 1. | 50. | 57 | 27. | 44. | 10,4 | 46,4 | 18,7 | 3. | 29. | 46 |
| α Arietis 3 | 1. | 55. | 5 | 28. | 46. | 16,5 | 50,1 | 20,2 | 4. | 0. | 40 |
| ε Trianguli bor. 4 | 1. | 56. | 48 | 29. | 11. | 56,3 | 52,7 | 22,6 | 4. | 1. | 18 |
| γ 4 | 2. | 4. | 35 | 31. | 8. | 45,4 | 52,8 | 22,4 | 4. | 3. | 19 |
| ε Ceti var. | 2. | 8. | 25 | 32. | 6. | 21,6 | 45,4 | 18,9 | 4. | 4. | 20 |
| δ 3 | 2. | 28. | 26 | 37. | 6. | 26,7 | 46,6 | 19,0 | 4. | 9. | 26 |
| ε 3 | 2. | 29. | 11 | 37. | 17. | 43,7 | 43,4 | 19,4 | 4. | 9. | 39 |
| γ 3 | 2. | 32. | 11 | 38. | 2. | 47,6 | 46,6 | 19,0 | 4. | 10. | 25 |
| Lilii Boreae 4 | 2. | 35. | 6 | 38. | 46. | 30,1 | 52,9 | 21,1 | 4. | 11. | 9 |
| Lilii Austrinae 4 | 2. | 37. | 21 | 39. | 20. | 19,1 | 52,4 | 23,0 | 4. | 11. | 44 |
| γ Persei 3 | 2. | 49. | 20 | 42. | 20. | 1,9 | 63,7 | 21,5 | 4. | 14. | 44 |
| θ Eridani 3 | 2. | 50. | 8 | 42. | 21. | 54,7 | 34,2 | 25,4 | 4. | 14. | 58 |
| α Ceti 2 | 2. | 51. | 4 | 42. | 45. | 55,9 | 46,9 | 19,2 | 4. | 15. | 11 |
| ε Persei <i>Algol</i> 2 | 2. | 54. | 15 | 43. | 33. | 40,0 | 57,8 | 25,0 | 4. | 15. | 58 |
| α Fornacis 2. 4 | 3. | 2. | 57 | 45. | 44. | 7,6 | 37,9 | 22,1 | 4. | 18. | 10 |
| ζ Eridani 3 | 3. | 5. | 25 | 46. | 21. | 10,9 | 43,6 | 19,5 | 4. | 18. | 46 |
| α Persei 2 | 3. | 9. | 5 | 47. | 16. | 10,5 | 63,0 | 29,2 | 4. | 19. | 40 |
| ε Eridani 3 | 3. | 22. | 51 | 50. | 42. | 51,0 | 43,3 | 19,7 | 4. | 23. | 5 |
| δ Persei 3 | 3. | 27. | 41 | 51. | 55. | 17,0 | 63,0 | 28,5 | 4. | 24. | 14 |

no 1. Jan. 1785. ex Catalogo D de la Caille computatae &c.

| Declinatio G. M. S. | Variatio annua S. | Aberr. max. S. | Argumenti aberrationis S. G. M. | Longitudo | | | Latitudo | | | Angulus positionis | | |
|------------------------|-------------------------|----------------------|---------------------------------------|----------------|-------------|------------|----------|-------|----|-----------------------|----|-------|
| | | | | S. | G. | M. S. | G. | M. S. | G. | M. S. | G. | M. S. |
| 13.59.19.6B | +20.0 | 9,1 | 4. 2. 6 | 0. 6. 9. 47 | 12. 35. 38B | 24. 5. 8 | | | | | | |
| 45.28.12.2A | -20.0 | 15,2 | 6. 25. 46 | 11. 12. 27. 15 | 40. 35. 48A | 31. 33. 26 | | | | | | |
| 29.40.59.8B | +19.9 | 11,4 | 4. 29. 19 | 0. 18. 49. 5 | 24. 20. 50B | 25. 43. 7 | | | | | | |
| 55.21.19.9B | +19.9 | 16,6 | 5. 20. 41 | 1. 4. 48. 14 | 46. 36. 18B | 35. 7. 15 | | | | | | |
| 14.10.12.3A | -19.8 | 10,6 | 7. 22. 10 | 11. 29. 33. 20 | 20. 47. 2A | 24. 56. 24 | | | | | | |
| 59.32.53.5B | +19.7 | 17,0 | 5. 26. 27 | 1. 10. 57. 3 | 48. 47. 33B | 36. 24. 35 | | | | | | |
| 83. 9.32.3B | +19.6 | 19,9 | 6. 10. 22 | 2. 25. 33. 34 | 66. 4. 21B | 73. 44. 23 | | | | | | |
| 24.28.38.5B | +19.4 | 11,6 | 5. 10. 0 | 0. 27. 34. 20 | 25. 56. 19B | 25. 24. 0 | | | | | | |
| 11.19.26.5A | -19.4 | 9,5 | 8. 6. 21 | 0. 8. 44. 53 | 16. 6. 44A | 23. 40. 15 | | | | | | |
| 59. 6.41.2B | +19.1 | 16,3 | 6. 2. 36 | 1. 14. 55. 32 | 46. 23. 33B | 33. 19. 15 | | | | | | |
| 9.17.51.0A | -19.0 | 9,3 | 8. 10. 44 | 0. 13. 13. 54 | 15. 46. 3A | 23. 8. 12 | | | | | | |
| 62.26. 4.9B | +18.2 | 16,4 | 6. 11. 1 | 1. 21. 46. 38 | 47. 31. 23B | 32. 22. 47 | | | | | | |
| 12.20.37.9B | +18.2 | 9,2 | 5. 9. 14 | 1. 3. 52. 20 | 16. 47. 46B | 22. 6. 40 | | | | | | |
| 12.14.12.4B | +18.1 | 7,6 | 4. 17. 52 | 1. 0. 10. 58 | 7. 9. 19B | 21. 15. 16 | | | | | | |
| 19.35. 8.0B | +18.1 | 7,8 | 4. 21. 39 | 1. 0. 58. 2 | 8. 28. 44B | 21. 16. 37 | | | | | | |
| 41.17.24.8B | +17.8 | 11,7 | 5. 28. 10 | 1. 11. 13. 0 | 27. 47. 15B | 23. 29. 38 | | | | | | |
| 1.43.11.5B | +17.8 | 7,7 | 3. 3. 53 | 0. 26. 22. 23 | 9. 4. 36A | 20. 54. 59 | | | | | | |
| 22.26.24.1B | +17.6 | 7,8 | 4. 29. 8 | 1. 4. 39. 26 | 9. 57. 31B | 20. 45. 20 | | | | | | |
| 33.57.45.4B | +17.5 | 9,9 | 5. 26. 30 | 1. 9. 20. 59 | 20. 33. 53B | 21. 47. 33 | | | | | | |
| 32.50.41.5B | +17.2 | 9,4 | 5. 20. 28 | 1. 10. 31. 21 | 18. 55. 49B | 21. 7. 24 | | | | | | |
| 3.57.31.5A | -17.0 | 8,7 | 8. 22. 15 | 0. 28. 31. 4 | 15. 56. 20A | 10. 32. 14 | | | | | | |
| 0.26.24.1A | -16.0 | 9,1 | 8. 28. 47 | 1. 4. 34. 2 | 14. 28. 57A | 19. 9. 7 | | | | | | |
| 12.47.29.8A | -16.0 | 10,8 | 8. 10. 57 | 1. 0. 19. 24 | 26. 0. 16A | 20. 38. 35 | | | | | | |
| 2.19.23.0B | +16.0 | 7,5 | 2. 4. 49 | 1. 6. 26. 25 | 12. 0. 38A | 18. 42. 15 | | | | | | |
| 13.20.42.6B | +15.7 | 7,6 | 5. 18. 2 | 1. 15. 21. 15 | 12. 28. 17B | 18. 32. 44 | | | | | | |
| 26.21.52.4B | +15.5 | 7,2 | 5. 13. 54 | 1. 15. 12. 4 | 10. 26. 5B | 18. 15. 15 | | | | | | |
| 52.39. 0.5B | +14.9 | 12,8 | 6. 22. 54 | 1. 27. 1. 48 | 34. 30. 7B | 20. 56. 0 | | | | | | |
| 21.20.25.7A | -14.8 | 17,2 | 7. 25. 32 | 0. 20. 14. 20 | 53. 45. 34A | 29. 46. 3 | | | | | | |
| 2.14. 4.1B | +14.8 | 7,3 | 3. 6. 30 | 1. 11. 19. 1 | 12. 36. 26A | 17. 26. 7 | | | | | | |
| 42. 6.51.4B | +14.5 | 9,6 | 6. 12. 18 | 1. 23. 10. 21 | 22. 24. 3B | 18. 11. 27 | | | | | | |
| 29.50.59.0A | -14.0 | 15,1 | 8. 2. 39 | 1. 1. 32. 5 | 44. 44. 37A | 23. 2. 32 | | | | | | |
| 9.37.43.7A | -13.8 | 19,3 | 8. 17. 4 | 1. 10. 49. 6 | 25. 56. 57A | 17. 48. 9 | | | | | | |
| 49. 4.51.5B | +13.6 | 11,4 | 6. 25. 45 | 1. 29. 5. 20 | 30. 5. 51B | 18. 11. 24 | | | | | | |
| 10.11.42.6A | -12.7 | 10,6 | 8. 17. 46 | 1. 15. 13. 51 | 17. 45. 37A | 16. 33. 33 | | | | | | |
| 47. 5. 0.2B | +12.4 | 10,4 | 6. 29. 37 | 2. 1. 48. 14 | 17. 16. 31B | 16. 2. 34 | | | | | | |

Positiones mediae 300 principalium Stellarum fixarum

| NOMEN SIDERIS | Ascensio recta | | | | | Variatio annua S. | Aber. max. S. | Argum. Aberrationis | | |
|-----------------------------------|----------------|----|-----|----|-----|-------------------|---------------|---------------------|------|-----------|
| | H. | M. | S. | G. | M. | | | S. | S. | G. | M. |
| b Plejadum <i>Electra</i> | 5 | 3. | 38. | 8 | 53. | 2. | 3,8 | 53,0 | 21,1 | 4. 25. 19 |
| δ Eridani | 3 | 3. | 32. | 59 | 53. | 14. | 42,8 | 43,2 | 19,7 | 4. 25. 32 |
| γ Plejadum <i>Alcyone</i> | 3 | 3. | 34. | 44 | 53. | 40. | 59,2 | 53,1 | 21,1 | 4. 25. 57 |
| F . . . <i>Atlas</i> | 5 | 3. | 36. | 25 | 54. | 6. | 7,6 | 53,1 | 21,1 | 4. 26. 22 |
| ζ Persei | 3 | 3. | 40. | 39 | 55. | 9. | 44,6 | 56,1 | 22,7 | 4. 27. 23 |
| f Eridani | 4 | 3. | 40. | 41 | 55. | 10. | 7,9 | 53,2 | 24,8 | 4. 27. 25 |
| δ Persei | 3 | 3. | 43. | 29 | 55. | 52. | 10,6 | 59,7 | 25,2 | 4. 28. 4 |
| l Eridani | 4. 5 | 3. | 44. | 34 | 56. | 8. | 32,7 | 38,3 | 21,5 | 4. 28. 20 |
| γ | 3 | 3. | 48. | 1 | 57. | 0. | 18,1 | 41,9 | 20,1 | 4. 29. 11 |
| o | 4 | 4. | 1. | 24 | 60. | 21. | 0,0 | 43,9 | 19,7 | 5. 2. 23 |
| γ Tauri | 3 | 4. | 3. | 34 | 60. | 53. | 35,4 | 50,9 | 20,3 | 5. 3. 51 |
| ε Eridani | 3. 4 | 4. | 9. | 47 | 62. | 26. | 42,6 | 34,0 | 23,8 | 5. 4. 23 |
| δ Tauri praeced. | 4 | 4. | 10. | 33 | 62. | 38. | 19,0 | 51,6 | 20,5 | 5. 4. 33 |
| δ . . . sequens | 4 | 4. | 11. | 44 | 62. | 55. | 56,0 | 51,1 | 20,6 | 5. 4. 50 |
| α Tauri | 4 | 4. | 16. | 5 | 64. | 1. | 7,9 | 52,2 | 20,8 | 5. 5. 52 |
| α <i>Aldebaran</i> | 1 | 4. | 23. | 36 | 65. | 54. | 1,7 | 51,4 | 20,5 | 5. 7. 29 |
| β Eridani | 3. 4 | 4. | 27. | 13 | 66. | 48. | 12,7 | 35,1 | 23,0 | 5. 8. 30 |
| 53 ^a Eridani | 3. 4 | 4. | 28. | 22 | 67. | 5. | 26,0 | 41,3 | 20,4 | 5. 8. 45 |
| 54 ^a Eridani | 5 | 4. | 31. | 5 | 67. | 46. | 8,9 | 39,4 | 21,0 | 5. 9. 25 |
| γ Tauri | 4. 5 | 4. | 50. | 16 | 72. | 33. | 59,3 | 53,6 | 21,3 | 5. 13. 52 |
| ε Eridani | 3 | 4. | 57. | 38 | 74. | 19. | 37,4 | 44,3 | 20,0 | 5. 15. 22 |
| α Aurigae <i>Capella</i> | 1 | 5. | 0. | 50 | 75. | 12. | 23,8 | 66,0 | 28,5 | 5. 16. 19 |
| ε Orionis <i>Rigel</i> . . . | 1 | 5. | 4. | 14 | 76. | 3. | 24,5 | 43,3 | 20,1 | 5. 17. 7 |
| ε Tauri | 2 | 5. | 12. | 42 | 78. | 10. | 32,6 | 56,7 | 22,7 | 5. 19. 4 |
| γ Orionis | 2 | 5. | 13. | 37 | 78. | 24. | 10,5 | 48,3 | 30,0 | 5. 19. 17 |
| β Orionis | 3 | 5. | 13. | 41 | 78. | 25. | 10,1 | 45,2 | 19,9 | 5. 19. 18 |
| ε Leporis | 3. 4 | 5. | 19. | 2 | 79. | 45. | 31,6 | 38,6 | 21,3 | 5. 20. 33 |
| δ Orionis | 2 | 5. | 21. | 3 | 80. | 15. | 41,2 | 46,0 | 20,0 | 5. 21. 1 |
| α Leporis | 3 | 5. | 23. | 16 | 80. | 49. | 1,5 | 39,7 | 21,0 | 5. 21. 32 |
| ζ Tauri | 8 | 5. | 24. | 48 | 81. | 12. | 1,7 | 53,7 | 21,3 | 5. 21. 52 |
| β Orionis | 3. 4 | 5. | 24. | 56 | 81. | 13. | 58,2 | 44,0 | 20,0 | 5. 21. 55 |
| γ | 2 | 5. | 25. | 19 | 81. | 19. | 49,7 | 45,7 | 19,8 | 5. 22. 0 |
| ζ | 2 | 5. | 29. | 56 | 82. | 29. | 4,7 | 45,4 | 20,0 | 5. 22. 4 |
| α Columbae γ | 2 | 5. | 31. | 53 | 82. | 58. | 14,2 | 32,6 | 24,2 | 5. 23. 31 |
| γ Leporis | 3. 4 | 5. | 35. | 31 | 83. | 52. | 51,6 | 37,9 | 21,6 | 5. 24. 20 |

no 1. Jan. 1785. ex Catalogo D. de la Caille computatae &c.

| Declinatio G. M. S. | Variatio annua S. | Ahert. max. S. | Angum. aberra- tionis S. G. M. | Longitudo S. G. M. S. | Latitudo G. M. S. | Angulus positionis G. M. S. |
|------------------------|-------------------------|----------------------|---|--------------------------|----------------------|-----------------------------------|
| 25.26. 1.1 B | + 12.1 | 5.0 | 5. 23. 44 | 1. 26. 24. 47 | 4. 10. 26 B | 13. 53. 43 |
| 10.30. 27.7 A | - 18.0 | 10.7 | 8. 18. 15 | 1. 17. 50. 50 | 28. 45. 13 A | 25. 47. 29 |
| 23.15. 38.4 B | + 11.9 | 4.9 | 5. 13. 0 | 1. 26. 59. 24 | 4. 1. 34 B | 13. 40. 44 |
| 23.22. 57.3 B | + 11.8 | 4.8 | 5. 13. 2 | 1. 27. 21. 18 | 3. 53. 31 B | 13. 32. 16 |
| 24. 13. 49.8 B | + 11.5 | 6.0 | 6. 9. 26 | 2. 0. 7. 23 | 11. 18. 19 B | 23. 25. 0 |
| 26.17. 14.3 A | - 11.5 | 17.1 | 8. 5. 34 | 1. 7. 30. 56 | 55. 35. 0 A | 23. 44. 3 |
| 28.22. 23.0 B | + 11.3 | 7.9 | 6. 5. 54 | 2. 2. 40. 46 | 19. 5. 13 B | 13. 40. 44 |
| 29.15. 34.5 A | - 11.3 | 14.5 | 8. 10. 50 | 1. 15. 50. 26 | 43. 40. 24 A | 17. 51. 59 |
| 14. 7. 54.2 A | - 10.9 | 11.7 | 8. 16. 57 | 1. 20. 51. 22 | 33. 13. 23 A | 15. 1. 38 |
| 7.25. 44.7 A | - 9.9 | 10.0 | 8. 22. 40 | 1. 26. 24. 38 | 27. 29. 13 A | 18. 49. 57 |
| 15. 5. 42.2 B | + 9.5 | 4.3 | 4. 5. 12 | 2. 2. 47. 44 | 5. 45. 31 A | 10. 52. 16 |
| 24.19. 17.5 A | - 9.3 | 16.6 | 8. 11. 38 | 1. 19. 28. 34 | 53. 59. 31 A | 18. 15. 52 |
| 17. 1. 30.3 B | + 9.2 | 3.9 | 4. 13. 22 | 2. 3. 51. 44 | 3. 59. 44 A | 10. 54. 26 |
| 16. 55. 17.1 B | + 9.1 | 3.9 | 4. 12. 46 | 2. 4. 7. 12 | 4. 8. 15 A | 10. 28. 13 |
| 18. 4. 24.2 B | + 8.8 | 3.6 | 4. 21. 9 | 2. 5. 27. 20 | 2. 35. 34 A | 10. 3. 32 |
| 16. 3. 53.7 B | + 8.2 | 3.9 | 4. 6. 47 | 2. 6. 47. 6 | 5. 29. 0 A | 9. 24. 21 |
| 31. 2. 44.3 A | - 7.9 | 16.0 | 8. 15. 17 | 1. 26. 52. 33 | 51. 50. 48 A | 14. 42. 42 |
| 14. 44. 5.8 A | - 7.8 | 12.1 | 8. 20. 36 | 2. 2. 15. 28 | 36. 1. 24 A | 11. 3. 9 |
| 20. 5. 38.2 A | - 7.6 | 11.0 | 8. 23. 2 | 2. 1. 43. 22 | 41. 24. 28 A | 11. 36. 28 |
| 21. 16. 2.4 B | + 6.0 | 2.4 | 5. 3. 39 | 2. 13. 47. 2 | 1. 13. 39 A | 6. 50. 42 |
| 5. 22. 35.0 A | - 5.4 | 9.6 | 8. 26. 59 | 2. 12. 17. 2 | 27. 53. 18 A | 6. 59. 22 |
| 45. 45. 44.9 B | + 5.1 | 8.0 | 8. 2. 46 | 2. 18. 51. 13 | 22. 51. 43 B | 6. 20. 41 |
| 4. 27. 45.0 A | - 4.9 | 10.6 | 8. 26. 8 | 2. 13. 49. 45 | 31. 9. 13 A | 6. 26. 21 |
| 22. 24. 27.6 B | + 4.1 | 2.5 | 7. 8. 2 | 2. 19. 34. 14 | 5. 21. 56 B | 4. 42. 4 |
| 6. 2. 21.9 B | + 4.1 | 6.0 | 3. 4. 6 | 2. 17. 56. 44 | 16. 50. 53 A | 4. 47. 57 |
| 2. 26. 32.0 A | - 4.0 | 8.8 | 8. 28. 47 | 2. 17. 9. 20 | 25. 23. 58 A | 5. 5. 7 |
| 20. 56. 32.4 A | - 3.6 | 13.9 | 8. 24. 45 | 2. 16. 40. 14 | 43. 56. 29 A | 5. 38. 1 |
| 2. 22. 16.6 A | - 3.4 | 8.1 | 8. 29. 48 | 2. 19. 21. 51 | 23. 35. 2 A | 4. 72. 51 |
| 17. 59. 21.7 A | - 4.2 | 13.1 | 8. 25. 43 | 2. 18. 22. 53 | 41. 5. 29 A | 4. 50. 17 |
| 20. 59. 45.0 B | + 2.1 | 1.5 | 4. 19. 21 | 2. 21. 46. 58 | 2. 13. 31 A | 3. 29. 21 |
| 4. 3. 51.6 A | - 2.1 | 9.8 | 8. 28. 8 | 2. 19. 59. 52 | 29. 13. 25 A | 8. 59. 21 |
| 2. 21. 11.6 A | - 2.0 | 8.4 | 8. 29. 31 | 2. 20. 27. 53 | 24. 32. 18 A | 3. 47. 1 |
| 4. 4. 28.2 A | - 2.6 | 8.6 | 8. 29. 22 | 2. 21. 41. 9 | 25. 19. 32 A | 3. 28. 11 |
| 24. 11. 52.9 A | - 2.5 | 16.9 | 8. 25. 18 | 2. 19. 10. 12 | 57. 24. 21 A | 5. 10. 51 |
| 22. 21. 27.9 A | - 2.2 | 14.3 | 8. 26. 43 | 2. 21. 52. 26 | 45. 49. 36 A | 3. 0. 3 |

Positiones mediae 300 principalium stellarum fixarum

| NOMEN SIDERIS | Ascensio recta | | | | Va- riati annu S. | Aber. max. S. | Argum. aberra- tionis S. G. M. |
|---|----------------|-----|----|---------------|----------------------------|---------------------|---|
| | H. | M. | S. | G. M. S. | | | |
| α Orionis 2. 3 | 5. | 37. | 35 | 84. 23. 45,6 | 42, 7 | 20, 2 | 5. 24. 49 |
| β Leporis 3. 4 | 5. | 42. | 5 | 85. 31. 15,5 | 38, 5 | 21, 4 | 5. 25. 51 |
| γ Columbae 3 | 5. | 43. | 24 | 85. 51. 1,5 | 31, 7 | 24, 8 | 5. 26. 19 |
| α Orionis 1 | 5. | 43. | 32 | 85. 53. 7,3 | 48, 7 | 20, 0 | 5. 26. 10 |
| ε Aurigae 2. 3 | 5. | 43. | 42 | 85. 55. 28,1 | 66, 0 | 28, 1 | 5. 26. 12 |
| δ 3 | 5. | 45. | 4 | 86. 15. 52,5 | 61, 3 | 25, 0 | 5. 26. 31 |
| γ Castoris 3. 4 | 6. | 1. | 54 | 90. 28. 27,2 | 54, 5 | 20, 0 | 6. 0. 23 |
| μ Pollucis 3. 4 | 6. | 9. | 57 | 92. 29. 9,7 | 54, 5 | 20, 0 | 6. 2. 13 |
| ζ Canis maj. 2. 3 | 6. | 12. | 5 | 95. 1. 11,0 | 34, 6 | 23, 0 | 6. 2. 44 |
| ε 2. 3 | 6. | 13. | 14 | 93. 18. 55,3 | 39, 7 | 21, 0 | 6. 2. 52 |
| δ Columbae 4 | 6. | 14. | 17 | 93. 34. 11,8 | 33, 0 | 23, 9 | 6. 3. 14 |
| γ Pollucis 2. 3 | 6. | 25. | 13 | 96. 18. 14,1 | 52, 1 | 20, 8 | 6. 5. 45 |
| α Castoris 3 | 6. | 30. | 42 | 97. 40. 30,2 | 55, 5 | 22, 1 | 6. 7. 0 |
| γ Navis 3 | 6. | 31. | 11 | 97. 47. 51,9 | 27, 6 | 27, 3 | 6. 7. 8 |
| α Canis maj. <i>Sirius</i> 1 | 6. | 35. | 42 | 98. 55. 23,7 | 40, 3 | 20, 8 | 6. 8. 9 |
| δ 3 | 6. | 50. | 11 | 102. 32. 49,2 | 35, 4 | 22, 7 | 6. 11. 31 |
| ζ Pollucis 3 | 6. | 51. | 20 | 102. 50. 3,4 | 53, 6 | 21, 3 | 6. 11. 45 |
| β Canis maj. 4 | 6. | 53. | 10 | 103. 17. 25,1 | 35, 9 | 22, 4 | 6. 12. 11 |
| γ 4 | 6. | 54. | 2 | 103. 30. 29,3 | 40, 8 | 20, 6 | 6. 12. 23 |
| δ 2 | 6. | 59. | 39 | 104. 54. 51,5 | 36, 7 | 22, 1 | 6. 13. 42 |
| δ Pollucis 3 | 7. | 7. | 16 | 106. 48. 56,0 | 54, 0 | 21, 5 | 6. 15. 28 |
| γ Navis 3 | 7. | 9. | 33 | 107. 23. 22,3 | 31, 9 | 24, 8 | 6. 16. 0 |
| ε Canis min. 3 | 7. | 15. | 30 | 108. 52. 22,5 | 49, 1 | 20, 1 | 6. 17. 22 |
| γ Canis maj. 2 | 7. | 15. | 36 | 108. 53. 53,9 | 55, 7 | 18, 0 | 6. 17. 23 |
| α Castoris 1. 2 | 7. | 20. | 52 | 110. 12. 58,0 | 58, 1 | 23, 5 | 6. 18. 37 |
| α Navis 3 | 7. | 22. | 26 | 110. 36. 28,1 | 28, 7 | 27, 0 | 6. 19. 0 |
| α Canis min. <i>Procyon</i> 1 | 7. | 28. | 4 | 112. 0. 59,3 | 43, 0 | 19, 9 | 6. 20. 18 |
| In ventre Monoc. 4 | 7. | 30. | 59 | 112. 44. 44,3 | 43, 1 | 20, 1 | 6. 20. 59 |
| ε Pollucis 2. 3 | 7. | 32. | 10 | 113. 2. 25,1 | 56, 1 | 22, 5 | 6. 21. 15 |
| ξ Navis 3. 4 | 7. | 40. | 16 | 115. 3. 55,8 | 37, 9 | 21, 3 | 6. 23. 11 |
| α 4 | 7. | 44. | 50 | 116. 12. 35,1 | 31, 1 | 25, 7 | 6. 24. 19 |
| ζ 2 | 7. | 56. | 2 | 119. 0. 36,6 | 31, 8 | 25, 4 | 6. 26. 56 |
| γ 3. 2 | 7. | 58. | 24 | 119. 35. 54,7 | 38, 5 | 21, 4 | 6. 27. 29 |
| ε Caneri 3. 4 | 8. | 4. | 51 | 121. 12. 44,7 | 49, 1 | 19, 9 | 6. 29. 0 |
| γ 4 | 8. | 30. | 50 | 127. 42. 23,2 | 52, 6 | 21, 0 | 7. 5. 7 |

1781. Jan. 1785. ex Catalogo D. de la Caille computatae &c.

| Declinatio G. M. S. | Variatio annua S. | Aberr. mixt. S. | Argum. aberra- tionis S. G. M. | Longitudo S. G. M. S. | Latitudo S. G. M. S. | Angulus positiois G. M. S. |
|------------------------|-------------------------|-----------------------|---|--------------------------|-------------------------|----------------------------------|
| 9 45. 27,7A | - 2,0 | 10, 9 | 8. 28. 15 | 2. 23. 24. 10 | 33. 6. 5A | 2. 39. 40 |
| 20 54 15,1A | - 1,6 | 14, 0 | 8. 27. 42 | 2. 24. 9. 2 | 44 17. 7A | 2. 29. 27 |
| 35 51. 46,0A | - 1,5 | 17, 2 | 8. 27. 8 | 2. 23. 24. 55 | 59. 14. 23A | 3. 13. 45 |
| 7. 21. 9,2B | + 1,5 | 5, 6 | 3. 1. 55 | 2. 25. 45. 12 | 16. 2. 32A | 1. 42. 16 |
| 44 54 13,6B | + 2,5 | 7, 3 | 8. 22. 11 | 2. 26. 54. 42 | 21. 28. 31B | 1. 44. 9 |
| 37. 10. 43,4B | + 1,3 | 4, 8 | 8. 20. 21 | 2. 26 56. 11 | 13. 44. 46B | 1. 31. 51 |
| 22 33. 19,6B | - 0,1 | 0, 3 | 2. 20. 12 | 3. 0. 26. 17 | 0. 55. 5A | 0. 11. 20 |
| 22 36. 31,5B | - 0,8 | 0, 4 | 1. 3. 22 | 3. 2. 17. 42 | 0. 50. 37A | 0. 59. 24 |
| 29 58. 43,1A | + 1,0 | 16, 0 | 9. 1. 55 | 3. 4. 23. 23 | 53. 24. 17A | 2. 1. 1 |
| 17 51. 46,1A | + 1,1 | 13, 2 | 9. 1. 30 | 3. 4. 11. 39 | 41. 17. 12A | 1. 45. 17 |
| 33 20 15,7A | + 1,2 | 16, 7 | 9. 2. 19 | 3. 5. 26. 40 | 56. 44. 32A | 2. 35. 30 |
| 16 34. 6,1B | - 2,2 | 2, 5 | 2. 15. 43 | 3. 6. 5. 59 | 6. 46. 13A | 2. 31. 27 |
| 15 19. 33,2B | - 2,6 | 1, 3 | 11. 2. 57 | 3. 6. 56. 18 | 2. 2. 19B | 3. 8. 5 |
| 45 0. 58,3A | + 2,7 | 18, 2 | 9. 5. 47 | 3. 14. 10. 53 | 66. 6. 16A | 7. 30. 0 |
| 16 25. 20,9A | + 3,1 | 12, 8 | 9. 3. 54 | 3. 11. 7. 43 | 39. 32. 58A | 4. 35. 49 |
| 24 41. 26,2A | + 4,3 | 15, 7 | 9. 7. 36 | 3. 17. 46. 53 | 51. 23. 24A | 7. 58. 14 |
| 20 52. 14,6B | - 4,4 | 1, 9 | 1. 4. 0 | 3. 11. 59. 14 | 2. 4. 6A | 5. 4. 44 |
| 27 38 20,8A | + 4,6 | 15, 4 | 9. 7. 53 | 3. 18. 34. 26 | 50. 15. 24A | 8. 14. 2 |
| 15 19. 36,1A | + 4,6 | 12, 4 | 9. 5. 40 | 3. 16. 36. 59 | 38. 1. 18 | 6. 46. 57 |
| 26 3. 50,2A | + 5,1 | 15, 1 | 9. 8. 36 | 3. 20. 24. 51 | 48. 29. 0A | 8. 53. 48 |
| 22 21. 48,6B | - 5,8 | 2, 3 | 0. 17. 13 | 3. 15. 31. 3 | 0. 12. 22A | 6. 37. 0 |
| 26 43. 11,2A | + 6,0 | 17, 2 | 9. 11. 57 | 3. 27. 19. 57 | 58. 33. 3A | 13. 11. 18 |
| 2 42 40,1B | - 6,5 | 5, 3 | 2. 19. 26 | 3. 19. 11. 54 | 13. 30. 37A | 7. 36. 52 |
| 28 53. 41,3A | + 6,5 | 15, 7 | 9. 11. 29 | 3. 26. 33. 28 | 50. 38. 11A | 11. 44. 9 |
| 22 20. 37,7B | - 6,9 | 4, 4 | 10. 26. 1 | 3. 17. 14. 53 | 10. 4. 33B | 8. 2. 8 |
| 22 52. 30,3A | + 7,0 | 18, 2 | 9. 15. 16 | 3. 5. 45. 31 | 63. 48. 26A | 18. 31. 5 |
| 5 46. 22,6B | - 7,5 | 6, 3 | 2. 23. 4 | 3. 22. 49. 35 | 15. 58. 9A | 8. 56. 4 |
| 9 3. 35,4A | + 7,7 | 10, 6 | 9. 6. 35 | 3. 26. 17. 49 | 20. 28. 34A | 10. 17. 24 |
| 22 31. 52,1B | - 7,8 | 3, 9 | 11. 13. 58 | 3. 20. 15. 17 | 6. 40. 0B | 9. 1. 47 |
| 24 19 55,0A | + 8,5 | 14, 5 | 9. 13. 52 | 4. 3. 2. 53 | 44. 57. 53A | 12. 42. 0 |
| 40 1. 42,5A | + 8,8 | 17, 6 | 9. 18. 46 | 4. 12. 7. 22 | 59. 43. 16A | 20. 25. 10 |
| 39 24 17,3A | + 7,9 | 17, 5 | 9. 20. 38 | 4. 15. 35. 52 | 58. 21. 57A | 21. 26. 24 |
| 22 41. 47,6A | + 9,9 | 14, 3 | 9. 16. 7 | 4. 8. 25. 8 | 42. 17. 46A | 15. 40. 55 |
| 9 50. 8,6B | - 10,4 | 5, 5 | 2. 11. 7 | 4. 1. 15. 48 | 10. 18. 32A | 18. 6. 27 |
| 22 13. 53,2B | - 12,2 | 5, 0 | 0. 22. 4 | 4. 4. 32. 24 | 3. 10. 21B | 14. 7. 12 |

Positiones mediae 300 principalium stellarum fixarum

| NOMEN SIDERIS | Ascensu recta | | | Variatio annua S. | Aber. Max. S. | Argum. aberrationis S. G. M. |
|-------------------------------------|---------------|---------------|------|-------------------|---------------|------------------------------|
| | H. M. S. | G. M. S. | S. | | | |
| ♄ Canceri 4 | 8. 32. 27 | 128. 6. 46,8 | 51,6 | 20,5 | 7. 5. 41 | |
| ♁ Hydrae 4. 5 | 8. 44. 1 | 131. 0. 14,5 | 47,9 | 19,4 | 7. 8. 32 | |
| ♁ Ursae maj. 3 | 8. 44. 25 | 131. 6. 11,8 | 63,5 | 29,4 | 7. 8. 36 | |
| ♄ Canceri 5 | 8. 46. 43 | 131. 40. 45,1 | 49,5 | 19,8 | 7. 9. 11 | |
| ♁ Ursae maj. 3. 4 | 8. 48. 51 | 132. 12. 43,7 | 62,7 | 28,8 | 7. 9. 11 | |
| ♁ Navis 2. 3 | 9. 0. 6 | 135. 1. 37,3 | 33,1 | 26,1 | 7. 12. 31 | |
| ♁ Hydrae 2 | 9. 17. 2 | 139. 15. 33,9 | 44,4 | 19,2 | 7. 16. 45 | |
| ♁ Ursae maj. 3 | 9. 18. 26 | 139. 36. 35,2 | 63,3 | 31,4 | 7. 17. 3 | |
| ♁ Leonis 4 | 9. 29. 40 | 142. 25. 8,3 | 48,5 | 19,3 | 7. 19. 47 | |
| ♁ 3 | 9. 33. 37 | 143. 24. 14,3 | 51,7 | 20,9 | 7. 20. 57 | |
| ♁ 3 | 9. 40. 31 | 145. 7. 40,5 | 52,0 | 21,1 | 7. 22. 52 | |
| ♁ 3 | 9. 55. 35 | 148. 53. 43,8 | 49,4 | 19,8 | 7. 26. 37 | |
| ♁ Leonis <i>Regulus</i> 1 | 9. 56. 55 | 149. 13. 42,9 | 48,5 | 19,3 | 7. 26. 57 | |
| ♁ 3 | 10. 4. 42 | 151. 10. 24,7 | 50,6 | 20,6 | 7. 28. 59 | |
| ♁ 3 | 10. 8. 5 | 152. 1. 19,8 | 49,8 | 20,0 | 7. 29. 52 | |
| ♁ Leonis 4 | 10. 21. 29 | 155. 22. 7,9 | 47,7 | 19,0 | 8. 3. 23 | |
| ♁ Ursae maj. 2 | 10. 48. 40 | 162. 10. 5,4 | 55,8 | 34,5 | 8. 10. 38 | |
| ♁ Crateris 4 | 10. 49. 20 | 162. 20. 4,1 | 44,3 | 19,4 | 8. 10. 48 | |
| ♁ Ursae maj. 2 | 10. 50. 19 | 162. 34. 39,0 | 57,9 | 41,0 | 8. 11. 3 | |
| ♁ Leonis 2. 3 | 11. 2. 50 | 165. 48. 30,6 | 48,1 | 19,9 | 8. 14. 22 | |
| ♁ 3 | 11. 2. 56 | 165. 44. 28,8 | 47,6 | 19,3 | 8. 14. 27 | |
| ♁ Hydrae 4. 5 | 11. 21. 39 | 170. 24. 49,4 | 44,3 | 20,8 | 8. 19. 31 | |
| ♁ 3. 4 | 11. 22. 29 | 170. 37. 11,9 | 44,2 | 21,4 | 8. 19. 44 | |
| ♁ Leonis 2 | 11. 38. 6 | 174. 31. 31,9 | 46,7 | 19,2 | 8. 23. 59 | |
| ♁ Virginis 3 | 11. 39. 29 | 174. 52. 17,7 | 46,3 | 18,4 | 8. 24. 21 | |
| ♁ Ursae maj. 2 | 11. 42. 26 | 175. 36. 23,1 | 48,4 | 31,9 | 8. 25. 9 | |
| ♁ Corvi 4 | 11. 57. 22 | 179. 20. 24,6 | 46,0 | 20,0 | 8. 29. 14 | |
| ♁ 3. 4 | 11. 57. 7 | 179. 46. 40,8 | 46,1 | 19,7 | 8. 29. 42 | |
| ♁ Ursae maj. 3 | 12. 4. 42 | 181. 10. 25,0 | 45,8 | 34,9 | 9. 1. 14 | |
| ♁ Corvi 3 | 12. 4. 47 | 181. 11. 45,3 | 46,3 | 19,1 | 9. 1. 15 | |
| ♁ Virginis 3. 4 | 12. 8. 55 | 182. 19. 42,7 | 46,1 | 18,4 | 9. 2. 23 | |
| ♁ Corvi 3. 4 | 12. 18. 47 | 182. 41. 42,5 | 46,6 | 19,0 | 9. 5. 4 | |
| ♁ 3 | 12. 23. 8 | 185. 46. 57,5 | 47,0 | 19,8 | 9. 6. 15 | |
| ♁ Virginis 3 | 12. 30. 49 | 187. 42. 17,0 | 46,2 | 18,4 | 9. 8. 26 | |
| ♁ Ursae maj. 2 | 12. 44. 29 | 191. 7. 14,2 | 40,3 | 33,9 | 9. 12. 4 | |

pro 1. Jan. 1785. ex Calalogo D. de la Caille computatae &c.

| Declinatio | Varia- tio annua | Aberr. max. S. | Argum. aberra- tionis | Longitudo | Latitudo | Angulus positiois |
|----------------|------------------------|----------------------|-----------------------------|---------------|--------------|----------------------|
| G. M. S. | S. | S. | S. G. M. | S. G. M. S. | G. M. S. | G. M. S. |
| 18 56. 13,0 B | - 12,3 | 4,9 | 1. 5. 23 | 4. 5. 43. 8 | 0. 4. 18 B | 12. 12. 52 |
| 6. 45. 26,6 B | - 13,1 | 6,4 | 2. 16. 10 | 4. 11. 34. 59 | 10. 58. 59 A | 15. 26. 19 |
| 48. 53. 24,8 B | - 13,2 | 11,2 | 11. 2. 19 | 3. 29. 48. 36 | 29. 34. 21 B | 17. 31. 19 |
| 12. 40. 53,3 B | - 13,3 | 5,6 | 1. 28. 28 | 4. 10. 28. 28 | 5. 5. 53 A | 15. 25. 15 |
| 47. 59. 49,1 B | - 13,4 | 11,1 | 11. 4. 23 | 4. 0. 55. 34 | 28. 57. 53 B | 17. 48. 41 |
| 42. 34. 17,7 A | + 14,2 | 17,5 | 10. 3. 9 | 5. 8. 14. 21 | 55. 52. 42 A | 30. 9. 17 |
| 7. 44. 1,5 A | + 15,2 | 9,7 | 9. 12. 5 | 4. 24. 17. 42 | 22. 23. 48 A | 19. 3. 2 |
| 52. 39. 3,8 B | - 15,2 | 13,0 | 11. 9. 3 | 4. 4. 18. 30 | 34. 55. 53 B | 21. 43. 25 |
| 10. 51. 50,2 B | - 15,8 | 6,4 | 2. 2. 21 | 4. 21. 15. 23 | 3. 46. 0 A | 18. 26. 56 |
| 24. 45. 18,6 B | - 16,1 | 7,2 | 0. 21. 28 | 4. 17. 42. 5 | 9. 41. 53 B | 15. 55. 49 |
| 77. 0. 41,8 B | - 16,4 | 7,8 | 11. 17. 29 | 4. 18. 26. 12 | 12. 20. 22 B | 19. 32. 31 |
| 17. 45. 23,0 B | - 17,1 | 7,0 | 1. 11. 46 | 4. 24. 53. 58 | 4. 51. 9 B | 20. 0. 53 |
| 13. 0. 50,9 B | - 17,2 | 6,8 | 1. 25. 33 | 4. 26. 50. 34 | 0. 27. 33 B | 0. 0. 47 |
| 24. 28. 55,8 B | - 17,5 | 8,1 | 0. 26. 13 | 4. 24. 33. 18 | 11. 50. 58 B | 20. 53. 16 |
| 20. 55. 32,8 B | - 17,7 | 7,7 | 1. 4. 38 | 4. 26. 35. 13 | 8. 48. 19 B | 20. 51. 5 |
| 10. 24. 37,5 B | - 18,2 | 7,2 | 2. 2. 58 | 5. 3. 23. 12 | 0. 8. 30 B | 21. 13. 36 |
| 57. 31. 50,3 B | - 19,1 | 16,1 | 11. 28. 18 | 4. 16. 24. 5 | 45. 6. 51 B | 22. 29. 46 |
| 17. 9. 33,7 A | + 19,1 | 10,8 | 10. 1. 14 | 5. 20. 44. 21 | 22. 42. 45 A | 24. 17. 40 |
| 62. 54. 33,7 B | - 19,1 | 17,0 | 11. 25. 41 | 4. 12. 10. 19 | 49. 40. 4 B | 35. 57. 24 |
| 21. 42. 5,8 B | - 19,4 | 9,2 | 1. 8. 33 | 5. 8. 17. 28 | 14. 19. 48 B | 23. 28. 15 |
| 15. 36. 17,2 B | - 19,4 | 8,4 | 1. 18. 48 | 5. 10. 24. 56 | 9. 40. 30 B | 23. 3. 12 |
| 28. 5. 13,8 A | + 19,8 | 17,6 | 10. 17. 36 | 6. 3. 28. 15 | 29. 21. 55 A | 26. 46. 5 |
| 30. 20. 4,8 A | + 19,8 | 13,1 | 10. 20. 11 | 6. 5. 1. 18 | 31. 34. 49 A | 27. 28. 13 |
| 14. 26. 32,1 B | - 19,9 | 9,0 | 1. 22. 58 | 5. 18. 38. 16 | 12. 17. 13 B | 23. 56. 24 |
| 2. 58. 47,4 B | - 19,9 | 7,9 | 2. 22. 27 | 5. 24. 6. 41 | 0. 41. 41 B | 23. 21. 45 |
| 54. 53. 27,4 B | - 20,0 | 16,7 | 0. 11. 48 | 4. 27. 26. 3 | 47. 7. 23 B | 35. 42. 33 |
| 23. 31. 43,9 A | + 20,0 | 10,9 | 10. 17. 11 | 6. 9. 14. 58 | 21. 44. 21 A | 25. 23. 22 |
| 21. 25. 22,9 A | + 20,0 | 10,4 | 10. 14. 25 | 6. 8. 41. 0 | 19. 39. 47 A | 25. 1. 17 |
| 58. 13. 43,7 B | - 20,0 | 17,6 | 0. 14. 50 | 4. 24. 0. 59 | 51. 38. 14 B | 39. 54. 48 |
| 16. 20. 51,5 A | + 20,0 | 5,4 | 10. 6. 42 | 6. 7. 24. 47 | 14. 29. 21 A | 24. 17. 10 |
| 0. 21. 55,0 B | - 20,0 | 8,0 | 2. 28. 37 | 6. 1. 49. 58 | 1. 22. 21 B | 23. 27. 38 |
| 15. 18. 55,3 A | + 20,0 | 9,0 | 10. 5. 48 | 6. 10. 28. 8 | 12. 10. 16 A | 23. 57. 35 |
| 22. 12. 14,9 A | + 19,9 | 10,1 | 10. 18. 20 | 6. 14. 22. 51 | 18. 1. 42 A | 24. 37. 45 |
| 0. 13. 55,3 A | + 19,8 | 8,0 | 9. 0. 26 | 6. 7. 10. 31 | 2. 48. 56 B | 23. 16. 40 |
| 57. 7. 52,3 B | - 19,7 | 18,0 | 0. 23. 50 | 5. 5. 52. 53 | 52. 18. 16 B | 42. 3. 10 |

Positiones mediae 300 principalium Stellarum fixarum

| NOMEN SIDERIS | | Ascensio recta | | | | | Va- riatio annua S. | Aber- max. S. | Argum. aberra- tionis S. G. M. | |
|--------------------|-----|----------------|-----|----|------|-------|------------------------------|---------------------|---|------------|
| | | H. | M. | S. | G. | M. S. | | | | |
| δ Virginis | 3 | 12. | 44. | 48 | 191. | 12. | 4,3 | 45,8 | 18,4 | 9. 12. 8 |
| Cor Caroli II. | 3 | 12. | 45. | 17 | 191. | 19. | 20,4 | 42,9 | 23,9 | 9. 12. 27 |
| α Virginis | 3 | 12. | 51. | 28 | 192. | 52. | 4,3 | 45,2 | 18,9 | 9. 13. 56 |
| θ | 3-4 | 12. | 58. | 51 | 194. | 42. | 37,6 | 46,5 | 18,5 | 9. 15. 55 |
| γ Hydrae | 3 | 13. | 7. | 16 | 196. | 49. | 5,2 | 48,5 | 19,8 | 9. 18. 11 |
| α Centauri | 3 | 13. | 8. | 35 | 197. | 8. | 50,6 | 50,4 | 23,2 | 9. 18. 32 |
| α Virg Spica | 1-2 | 13. | 13. | 54 | 198. | 28. | 28,7 | 47,3 | 18,8 | 9. 19. 57 |
| ζ Ursae maj. | 2 | 13. | 15. | 13 | 198. | 48. | 12,2 | 36,6 | 33,2 | 9. 20. 19 |
| ζ Virginis | 3 | 13. | 23. | 46 | 200. | 56. | 26,4 | 46,1 | 18,4 | 9. 22. 36 |
| ν Centauri | 3-4 | 13. | 36. | 42 | 204. | 10. | 27,0 | 53,2 | 24,5 | 9. 26. 1 |
| μ Centauri | 3-4 | 13. | 36. | 45 | 204. | 11. | 15,1 | 53,4 | 24,8 | 9. 26. 2 |
| ξ | 4 | 13. | 37. | 4 | 204. | 16. | 1,7 | 53,6 | 21,8 | 9. 26. 7 |
| η Ursae maj. | 3 | 13. | 39. | 4 | 204. | 46. | 2,0 | 56,0 | 29,3 | 9. 26. 40 |
| κ Centauri | 4-5 | 13. | 39. | 20 | 204. | 52. | 23,6 | 51,4 | 21,5 | 9. 26. 45 |
| ι Bootis | 3 | 13. | 44. | 27 | 206. | 6. | 39,1 | 43,0 | 19,8 | 9. 28. 3 |
| α Centauri | 3 | 13. | 54. | 8 | 208. | 31. | 54,1 | 52,9 | 22,9 | 10. 0. 26 |
| α Draconis | 3 | 13. | 58. | 35 | 209. | 28. | 39,5 | 24,5 | 45,1 | 10. 1. 47 |
| ν Virginis | 4 | 14. | 1. | 28 | 210. | 21. | 52,7 | 47,8 | 19,0 | 10. 2. 30 |
| α Bootis Arcturus | 1 | 14. | 5. | 55 | 211. | 28. | 39,7 | 42,3 | 20,0 | 10. 2. 39 |
| λ Virginis | 4 | 14. | 7. | 30 | 211. | 52. | 37,1 | 48,5 | 19,2 | 10. 4. 5 |
| γ Centauri | 2-3 | 14. | 21. | 56 | 215. | 29. | 0,0 | 56,2 | 25,1 | 10. 7. 47 |
| γ Bootis | 3 | 14. | 23. | 25 | 215. | 51. | 13,9 | 36,6 | 24,4 | 10. 8. 11 |
| ζ | 3 | 14. | 30. | 52 | 217. | 43. | 15,6 | 42,9 | 19,6 | 10. 10. 6 |
| η | 3 | 14. | 35. | 26 | 218. | 54. | 4,6 | 39,5 | 21,5 | 10. 11. 18 |
| α Librae | 2-2 | 14. | 39. | 1 | 219. | 45. | 12,8 | 49,6 | 19,7 | 10. 12. 9 |
| ε Lupi | 3 | 14. | 44. | 32 | 221. | 8. | 3,1 | 58,1 | 25,8 | 10. 13. 22 |
| α Centauri | 3 | 14. | 45. | 15 | 221. | 18. | 49,9 | 57,7 | 25,4 | 10. 13. 43 |
| γ Scorpionis | 3-4 | 14. | 51. | 32 | 222. | 53. | 1,4 | 52,3 | 21,0 | 10. 15. 18 |
| ε Ursae min. | 3 | 14. | 51. | 28 | 222. | 52. | 4,1 | 5,0 | 74,2 | 10. 15. 21 |
| ε Bootis | 3 | 14. | 53. | 52 | 223. | 27. | 48,1 | 34,1 | 25,5 | 10. 15. 53 |
| ε Librae | 3-3 | 15. | 5. | 28 | 226. | 21. | 57,1 | 48,3 | 19,4 | 10. 18. 47 |
| δ Bootis | 3-4 | 15. | 6. | 50 | 226. | 42. | 33,0 | 36,2 | 23,2 | 10. 19. 7 |
| δ Lupi | 3-4 | 15. | 7. | 20 | 226. | 50. | 1,0 | 52,3 | 25,1 | 10. 19. 13 |
| η | 3-4 | 15. | 8. | 10 | 227. | 2. | 21,0 | 60,2 | 26,7 | 10. 19. 25 |
| 1-γ Ursae min. pr. | 4 | 15. | 17. | 23 | 229. | 20. | 52,1 | 2,4 | 64,7 | 10. 21. 47 |

pro 1. Jan. 1785. ex Catalogo D. de la Caille computatae &c.

| Declinatio G. M. S. | Variatio annua S. | Aberr. sex. S. | Argum. aberra- tionis S. G. M. S. | Longitudo | | Latitudo | | Angulus positionis G. M. S. |
|------------------------|-------------------------|----------------------|--|---------------|--------------|-------------|-------------|-----------------------------------|
| | | | | S. G. M. S. | S. G. M. S. | S. G. M. S. | S. G. M. S. | |
| 4 34 20.5 B | - 19.7 | 8, 4 | 2. 19. 11 | 6. 8. 29. 3 | 8. 38. 29 B | 23. 16. 42 | | |
| 28 24 5.1 B | - 19.6 | 15, 1 | 1. 4. 10 | 5. 21. 33. 28 | 40. 7. 33 B | 30. 42. 13 | | |
| 12. 7. 12.6 B | - 19.5 | 9, 6 | 2. 4. 37 | 6. 6. 56. 49 | 16. 18. 13 B | 23. 51. 12 | | |
| 4 23. 4.5 A | + 19.4 | 7, 7 | 9. 10. 59 | 6. 15. 14. 14 | 1. 45. 38 B | 21. 46. 13 | | |
| 22. 1. 13.1 A | + 19.2 | 9, 0 | 10. 23. 2 | 6. 24. 1. 9 | 13. 45. 26 A | 23. 6. 29 | | |
| 24 24 15.9 A | + 19.2 | 9, 6 | 10. 27. 40 | 7. 0. 9. 42 | 15. 58. 48 A | 25. 2. 52 | | |
| 10. 1. 56.9 A | + 19.0 | 7, 6 | 9. 25. 45 | 6. 20. 50. 39 | 2. 2. 3 A | 22. 12. 38 | | |
| 24. 3. 11.7 B | - 19.0 | 18, 3 | 1. 0. 44 | 5. 12. 37. 34 | 56. 22. 4 B | 42. 54. 10 | | |
| 6 20 33.2 B | - 18.7 | 8, 0 | 2. 28. 46 | 6. 19. 8. 53 | 3. 39. 21 B | 21. 6. 12 | | |
| 24 24 29.7 A | + 18.3 | 11, 9 | 11. 24. 22 | 7. 8. 10. 9 | 28. 14. 21 A | 24. 21. 28 | | |
| 41. 23 28.7 A | + 18.3 | 12, 1 | 11. 25. 20 | 7. 8. 33. 0 | 28. 57. 13 A | 24. 32. 8 | | |
| 32. 21. 7.2 A | + 18.3 | 10, 3 | 11. 15. 54 | 7. 5. 2. 18 | 21. 54. 50 A | 21. 59. 5 | | |
| 20. 23. 24.9 B | - 18.2 | 17, 8 | 8. 8. 8 | 5. 23. 53. 55 | 54. 23. 45 B | 28. 24. 18 | | |
| 31. 15. 9.7 A | + 18.2 | 10, 0 | 1. 14. 19 | 7. 4. 56. 35 | 20. 2. 45 A | 21. 37. 27 | | |
| 19 29 16.2 B | - 18.0 | 11, 8 | 1. 29. 29 | 6. 16. 18. 34 | 28. 6. 57 B | 23. 55. 20 | | |
| 25. 17. 51.5 A | + 17.6 | 19, 6 | 11. 21. 51 | 7. 9. 20. 25 | 22. 0. 30 A | 22. 10. 29 | | |
| 65. 24 29.0 B | - 17.4 | 19, 6 | 1. 6. 10 | 5. 4. 23. 22 | 66. 21. 14 B | 59. 39. 39 | | |
| 9. 15. 28.7 A | + 17.3 | 6, 9 | 9. 23. 30 | 7. 1. 29. 42 | 2. 55. 37 B | 16. 7. 39 | | |
| 20. 14 39.5 B | - 17.1 | 12, 3 | 2. 1. 15 | 6. 21. 14. 7 | 30. 54. 31 B | 23. 19. 24 | | |
| 12. 27. 21.0 A | + 17.0 | 6, 2 | 10. 2. 28 | 7. 3. 57. 11 | 0. 30. 40 B | 19. 46. 11 | | |
| 41. 14 2.7 A | + 16.3 | 10, 8 | 0. 5. 22 | 7. 17. 15. 28 | 25. 28. 57 A | 21. 2. 24 | | |
| 26. 14 20.4 B | - 16.2 | 16, 3 | 1. 21. 37 | 6. 14. 38. 33 | 49. 33. 20 B | 29. 50. 44 | | |
| 14 24 41.2 B | - 15.9 | 11, 3 | 2. 9. 11 | 7. 0. 1. 0 | 27. 53. 57 B | 20. 53. 5 | | |
| 27. 15 23.9 B | - 15.6 | 14, 4 | 1. 29. 33 | 6. 25. 5. 41 | 40. 28. 38 B | 24. 6. 41 | | |
| 14. 8. 10.0 A | + 15.4 | 6, 1 | 10. 10. 54 | 7. 12. 5. 13 | 0. 21. 55 B | 17. 49. 52 | | |
| 44. 18 47.1 A | + 15.1 | 10, 4 | 0. 12. 17 | 7. 22. 4. 3 | 25. 0. 43 A | 19. 19. 47 | | |
| 44. 13 29.3 A | + 15.1 | 6, 1 | 0. 11. 17 | 7. 21. 48. 9 | 23. 59. 59 A | 19. 6. 54 | | |
| 34 24 24.4 A | + 14.7 | 6, 4 | 0. 10. 54 | 7. 17. 45. 36 | 7. 36. 46 A | 17. 7. 19 | | |
| 28. 2. 17.8 B | - 14.7 | 20, 0 | 1. 14. 54 | 4. 10. 13. 39 | 72. 58. 0 B | 95. 0. 18 | | |
| 26. 14 47.9 B | - 14.5 | 17, 2 | 1. 26. 11 | 6. 21. 12. 47 | 54. 10. 11 B | 29. 25. 27 | | |
| 4 24 36.3 A | + 13.8 | 6, 3 | 9. 19. 11 | 7. 16. 22. 29 | 8. 31. 26 B | 16. 2. 8 | | |
| 24. 7. 40.2 B | - 13.8 | 16, 1 | 2. 1. 19 | 7. 0. 6. 47 | 48. 59. 24 B | 24. 35. 48 | | |
| 24 25 12.5 A | + 13.7 | 9, 1 | 0. 15. 25 | 7. 25. 32. 68 | 21. 23. 38 A | 17. 0. 59 | | |
| 12 23 18.9 A | + 13.7 | 10, 1 | 0. 20. 5 | 7. 27. 7. 47 | 25. 12. 43 A | 17. 27. 43 | | |
| 24 28 19.8 B | - 13.1 | 20, 0 | 1. 21. 23 | 4. 18. 32. 33 | 74. 56. 17 A | 98. 13. 51 | | |

Positiones mediae 300 principalium Stellarum fixarum

| NOMEN SIDERIS | Ascensio recta | | | | | Variatio annua S. | Aber. max. S. | Argum. Aberrationis S. G. M. |
|------------------------------|----------------|-----|----|------|----------|-------------------|---------------|------------------------------|
| | H. | M. | S. | G. | M. S. | | | |
| ♁ Draconis 3. 4 | 15. | 20. | 10 | 230. | 2. 30,9 | 19,8 | 38,4 | 10. 22. 26 |
| ♃ Lupi 3 | 15. | 20 | 53 | 230. | 13. 13,6 | 59,3 | 25,4 | 10. 22. 34 |
| ♂ Ursae min. sequ. 3 | 15. | 21. | 12 | 230. | 17. 59,6 | -3,1 | 64,7 | 10. 22. 43 |
| ♃ Librae 5 | 15. | 23. | 32 | 230. | 52. 55,9 | 50,0 | 20,0 | 10. 23. 14 |
| ♁ Serpentis 3 | 15. | 24. | 33 | 231. | 8. 15,0 | 43,0 | 19,7 | 10. 23. 29 |
| ♁ Coronae 2. 2 | 15. | 25. | 35 | 231. | 23. 48,3 | 38,0 | 21,8 | 10. 23. 44 |
| ♁ Librae 4 | 15. | 29. | 36 | 232. | 24. 4,0 | 51,6 | 20,5 | 10. 24. 43 |
| ♁ Serpentis 2. 5 | 15. | 33. | 41 | 233. | 25. 21,2 | 44,1 | 19,6 | 10. 25. 43 |
| ♁ 3 | 15. | 36. | 12 | 234. | 4. 2,5 | 41,5 | 20,3 | 10. 26. 20 |
| ♁ 4 | 15. | 38. | 25 | 234. | 36. 21,4 | 46,9 | 19,5 | 10. 26. 51 |
| ♁ 3. 4 | 15. | 40. | 6 | 235. | 1. 24,3 | 44,7 | 19,6 | 10. 27. 16 |
| ♁ Librae 4 | 15. | 40. | 53 | 235. | 13. 18,2 | 51,9 | 20,6 | 10. 27. 27 |
| ♁ 4 | 15. | 41. | 37 | 235. | 24. 13,1 | 51,0 | 20,3 | 10. 27. 38 |
| ♁ Scorpionis 4 | 15. | 43. | 40 | 235. | 54. 52,5 | 55,2 | 22,2 | 10. 28. 7 |
| ♁ 3. 4 | 15. | 45. | 53 | 236. | 28. 18,1 | 54,1 | 21,6 | 10. 28. 39 |
| ♁ Librae 4 | 15. | 46. | 11 | 236. | 32. 47,1 | 50,2 | 20,1 | 10. 28. 43 |
| ♁ Serpentis 3 | 15. | 46. | 32 | 236. | 37. 56,6 | 41,2 | 20,3 | 10. 28. 49 |
| ♁ Scorpionis 2 | 15. | 49. | 31 | 236. | 54. 50,2 | 52,9 | 21,1 | 10. 29. 5 |
| ♁ 2 | 15. | 52. | 58 | 238. | 14. 33,5 | 52,1 | 20,7 | 11. 0. 21 |
| ♁ Draconis 3. 4 | 15. | 57. | 53 | 239. | 28. 34,9 | 17,2 | 38,2 | 11. 1. 34 |
| ♁ Scorpionis 4 | 15. | 59. | 32 | 239. | 52. 56,4 | 52,1 | 20,7 | 11. 1. 55 |
| ♁ Ophiuci 5 | 16. | 3. | 1 | 240. | 46. 29,0 | 47,1 | 19,6 | 11. 2. 47 |
| ♁ 5 | 16. | 6. | 52 | 241. | 44. 30,4 | 47,4 | 19,7 | 11. 2. 42 |
| ♁ Scorpionis 3. 4 | 16. | 8. | 5 | 242. | 2. 23,1 | 54,4 | 21,7 | 11. 3. 57 |
| ♁ Herculis 2 | 16. | 12. | 27 | 243. | 6. 38,7 | 39,8 | 20,9 | 11. 5. 1 |
| ♁ Scorp. Antares 1 | 16. | 16. | 17 | 244. | 3. 56,1 | 54,9 | 21,9 | 11. 5. 54 |
| ♁ Ophiuci 4 | 16. | 18. | 51 | 244. | 42. 48,9 | 51,4 | 20,5 | 11. 6. 31 |
| ♁ Herculis 3 | 16. | 20. | 0 | 245. | 15. 3,0 | 38,8 | 21,3 | 11. 7. 8 |
| ♁ Draconis 3. 4 | 16. | 21. | 7 | 245. | 16. 37,6 | 11,9 | 42,0 | 11. 7. 5 |
| ♁ Scorpionis 3. 4 | 16. | 22. | 32 | 245. | 38. 2,0 | 55,8 | 22,7 | 11. 7. 23 |
| ♁ Ophiuci 3 | 16. | 25. | 21 | 246. | 20. 8,3 | 49,4 | 20,1 | 11. 8. 3 |
| ♁ Herculis 3 | 16. | 33. | 12 | 248. | 18. 11,9 | 34,5 | 23,2 | 11. 9. 5 |
| ♁ 3. 4 | 16. | 35. | 32 | 248. | 52. 56,0 | 30,8 | 25,6 | 11. 10. 28 |
| ♁ Scorpionis 3 | 16. | 36. | 18 | 249. | 4. 33,5 | 58,7 | 23,5 | 11. 10. 36 |
| ♁ 3 | 16. | 37. | 21 | 249. | 20. 16,9 | 60,6 | 25,0 | 11. 10. 51 |

1785. Jan. 1785 ex Catalogo D. de la Caille computatae &c.

| Declinatio | Varia- tio anua | MOV. S. | Aberr. S. | Argum. aberra- tionis | Longitudo | Latitudo | Angulus positiois |
|---------------|-----------------------|------------|--------------|-----------------------------|-------------|-------------|----------------------|
| M. S. | S. | S. | S. G. M. | S. G. M. S. | S. G. M. S. | S. G. M. S. | S. G. M. S. |
| 39.43.28.9B | - 12,9 | 19,6 | 1. 25. 31 | 6. 1. 51. 19 | 71. 5. 52B | 52. 8. 58 | |
| 40.35.35.2A | + 12,8 | 8,9 | 0. 20. 16 | 7. 28. 30. 9 | 21. 12. 40A | 15. 51. 57 | |
| 72.35.58.9B | - 12,8 | 20,0 | 1. 22. 26 | 4. 18. 29. 41 | 75. 13. 21B | 94. 11. 18 | |
| 44. 1 35.3A | + 12,6 | 55,3 | 10. 5. 34 | 7. 22. 7. 57 | 4. 24. 47B | 14. 35. 53 | |
| 31.16. 8.5B | - 12,6 | 10,9 | 2. 16. 57 | 7. 15. 20. 10 | 28. 54. 30B | 16. 35. 16 | |
| 37. 7. 1.6B | - 12,5 | 14,8 | 2. 7. 9 | 7. 9. 15. 28 | 44. 21. 4B | 20. 20. 13 | |
| 32.57.58.2A | + 12,2 | 4,9 | 10. 24. 38 | 7. 24. 43. 42 | 0. 0. 52B | 14. 3. 58 | |
| 7. 6. 53.5B | + 22,0 | 9,8 | 2. 21. 21 | 7. 19. 3. 30 | 25. 21. 54B | 15. 15. 10 | |
| 14. 6. 25.6B | - 11,8 | 12,2 | 2. 14. 31 | 7. 16. 55. 34 | 34. 21. 20B | 16. 26. 45 | |
| 2. 45. 28.3A | + 11,6 | 7,3 | 9. 4. 23 | 7. 22. 56. 21 | 16. 16. 15B | 13. 54. 19 | |
| 5. 8. 15.4B | - 11,5 | 4,3 | 2. 23. 40 | 7. 21. 18. 46 | 24. 1. 45B | 14. 28. 32 | |
| 19. 21. 35.0A | + 11,5 | 4,6 | 10. 26. 55 | 7. 27. 26. 29 | 0. 15. 54B | 13. 7. 54 | |
| 16. 5. 5.1A | + 11,4 | 3,7 | 10. 12. 12 | 7. 26. 52. 2 | 3. 29. 28B | 13. 4. 43 | |
| 2. 34. 9.5A | + 11,3 | 5,4 | 0. 2. 48 | 8. 0. 8. 57 | 9. 33. 56A | 13. 2. 47 | |
| 25. 25. 44.8A | + 11,1 | 4,8 | 11. 22. 36 | 7. 29. 56. 28 | 5. 26. 35A | 12. 46. 3 | |
| 13. 35. 40.1A | + 11,1 | 4,4 | 10. 2. 15 | 7. 27. 23. 56 | 6. 7. 1B | 12. 45. 27 | |
| 16. 23. 15.5B | - 11,0 | 12,4 | 2. 15. 26 | 7. 19. 42. 59 | 35. 18. 15B | 15. 34. 16 | |
| 21. 59. 40.7A | + 11,0 | 4,4 | 11. 8. 11 | 7. 29. 34. 18 | 1. 57. 15A | 12. 33. 57 | |
| 19. 12. 5.7A | + 10,6 | 4,2 | 10. 25. 20 | 8. 0. 11. 24 | 1. 2. 24B | 12. 6. 16 | |
| 19. 2. 26.3B | - 10,2 | 19,7 | 2. 3. 41 | 6. 13. 40. 25 | 74. 26. 53B | 48. 58. 57 | |
| 18. 53. 13.8A | + 10,1 | 4,0 | 10. 23. 20 | 8. 1. 39. 37 | 1. 39. 54B | 11. 32. 0 | |
| 2. 7. 30.2A | + 9,8 | 7,1 | 9. 4. 17 | 7. 29. 17. 52 | 17. 16. 56B | 15. 45. 2 | |
| 4. 9. 12.0A | + 9,5 | 6,8 | 9. 5. 48 | 8. 0. 30. 5 | 16. 28. 5B | 11. 20. 25 | |
| 25. 3. 31.6A | + 9,4 | 4,0 | 11. 25. 34 | 8. 4. 48. 3 | 4. 0. 10A | 10. 47. 37 | |
| 19. 40. 12.2B | - 9,1 | 13,4 | 2. 16. 49 | 7. 26. 12. 16 | 40. 2. 7B | 13. 36. 30 | |
| 15. 56. 17.1A | + 8,8 | 3,8 | 0. 0. 40 | 8. 6. 45. 50 | 4. 32. 12A | 10. 3. 49 | |
| 16. 7. 39.2A | + 8,7 | 3,9 | 10. 7. 54 | 8. 5. 39. 57 | 5. 11. 48B | 9. 50. 13 | |
| 21. 52. 12.8B | - 8,4 | 14,0 | 2. 17. 2 | 7. 28. 5. 24 | 42. 44. 9B | 13. 7. 19 | |
| 62. 0. 12.2B | - 8,4 | 19,8 | 2. 8. 10 | 6. 11. 21. 18 | 78. 26. 56B | 56. 17. 40 | |
| 97. 45. 4.4A | + 8,3 | 3,9 | 0. 10. 39 | 8. 8. 27. 29 | 6. 5. 7A | 9. 30. 44 | |
| 20. 6. 59.2A | + 8,1 | 5,1 | 9. 16. 4 | 8. 6. 13. 36 | 11. 25. 17B | 9. 23. 13 | |
| 24. 59. 58.5B | - 7,4 | 16,3 | 2. 16. 3 | 7. 28. 30. 15 | 53. 7. 19B | 14. 18. 13 | |
| 39. 20. 34.2B | - 7,3 | 7,6 | 2. 14. 57 | 7. 25. 44. 59 | 60. 19. 30B | 16. 58. 97 | |
| 55. 52. 52.9A | + 7,1 | 4,1 | 1. 6. 16 | 8. 12. 22. 35 | 11. 40. 56A | 8. 21. 20 | |
| 37. 39. 29.7A | + 7,1 | 6,0 | 1. 14. 0 | 8. 13. 9. 29 | 15. 23. 17A | 8. 28. 54 | |

Positiones mediae 300 principalium Stellarum fixarum

| NOMEN SIDERIS | Ascensio recta | | Variatio annua | Aberr. max. | Argum. aberrationis S. G. M. | |
|----------------------------|----------------|------------|----------------|-------------|------------------------------|------------|
| | H. M. S. G. | M. S. | | | | |
| ♏ Scorpiotis | 3 | 16. 39. 30 | 149. 52. 35,4 | 63, 2 | 26, 6 | 11. 11. 21 |
| ♌ Herculis | 3 | 16. 52. 4 | 153. 6. 57,9 | 34, 8 | 23, 2 | 11. 14. 20 |
| ♏ Scorpiotis | 3. 4 | 16. 56. 48 | 154. 11. 54,6 | 64, 2 | 27, 2 | 11. 15. 23 |
| ♎ Ophiuci | 2. 3 | 16. 58. 4 | 154. 30. 56,9 | 51, 9 | 20, 6 | 11. 15. 42 |
| ♌ Herculis | 2. 3 | 17. 4. 51 | 156. 12. 44,7 | 41, 1 | 20, 6 | 11. 17. 16 |
| ♎ Ophiuci | 3 | 17. 7. 13 | 156. 48. 8,1 | 27, 0 | 22, 0 | 11. 17. 50 |
| ♎ Ophiuci | 3 | 17. 8. 50 | 157. 12. 24,6 | 55, 2 | 21, 9 | 11. 18. 10 |
| ♏ Scorpiotis | 3. 4 | 17. 16. 11 | 159. 2. 37,7 | 61, 0 | 24, 0 | 11. 19. 52 |
| ♎ Ophiuci | 2. 3 | 17. 19. 2 | 159. 45. 33,3 | 61, 0 | 25, 0 | 11. 20. 32 |
| ♎ Ophiuci | 2. 3 | 17. 21. 54 | 160. 28. 27,9 | 64, 5 | 27, 2 | 11. 21. 11 |
| ♎ Ophiuci | 2. 3 | 17. 24. 57 | 161. 14. 21,3 | 41, 7 | 20, 4 | 11. 21. 56 |
| ♏ Draconis | 3 | 17. 29. 36 | 161. 23. 54,6 | 30, 3 | 32, 8 | 11. 22. 4 |
| ♏ Scorpiotis | 2. 3 | 17. 27. 54 | 161. 58. 33,6 | 62, 2 | 25, 7 | 11. 22. 31 |
| ♎ Ophiuci | 3 | 17. 32. 31 | 162. 8. 27,4 | 62, 9 | 26, 1 | 11. 23. 29 |
| ♎ Ophiuci | 3 | 17. 32. 54 | 163. 12. 53,6 | 44, 5 | 20, 0 | 11. 23. 44 |
| ♎ Ophiuci | 3 | 17. 37. 8 | 164. 16. 59,2 | 45, 2 | 20, 6 | 11. 24. 42 |
| ♌ Herculis | 3. 4 | 17. 38. 4 | 164. 30. 53,4 | 35, 6 | 22, 6 | 11. 24. 56 |
| ♎ Ophiuci | 3 | 17. 48. 53 | 167. 13. 13,0 | 30, 9 | 25, 1 | 11. 27. 21 |
| ♏ Serpentis | 4 | 17. 49. 8 | 167. 17. 3,5 | 47, 4 | 20, 0 | 11. 27. 28 |
| ♏ Sagittar. praec. | 4 | 17. 51. 18 | 167. 49. 29,0 | 57, 5 | 22, 1 | 11. 27. 56 |
| ♎ Ophiuci | 3. 4 | 17. 52. 1 | 167. 0. 9,3 | 57, 9 | 23, 2 | 11. 28. 7 |
| ♏ Draconis | 3 | 17. 51. 37 | 167. 54. 13,9 | 20, 9 | 32, 1 | 11. 28. 3 |
| ♏ Sagittarii | 4 | 18. 0. 59 | 170. 13. 44,9 | 53, 9 | 21, 4 | 0. 0. 9 |
| ♎ Ophiuci | 4 | 18. 3. 6 | 170. 46. 27,1 | 61, 2 | 25, 0 | 0. 0. 28 |
| ♎ Ophiuci | 3 | 18. 7. 13 | 171. 48. 14,9 | 57, 7 | 23, 1 | 0. 1. 37 |
| ♎ Ophiuci | 3 | 18. 9. 55 | 172. 22. 43,7 | 59, 9 | 24, 3 | 0. 2. 13 |
| ♏ Serpentis | 3. 4 | 18. 10. 13 | 172. 23. 20,2 | 47, 2 | 20, 0 | 0. 2. 18 |
| ♏ Sagittarii | 3 | 18. 14. 43 | 173. 40. 41,9 | 54, 7 | 22, 2 | 0. 3. 19 |
| ♎ Lirae Lucida | 1 | 18. 29. 29 | 177. 24. 45,0 | 30, 3 | 25, 6 | 0. 6. 47 |
| ♏ Sagittarii | 3. 4 | 18. 32. 14 | 178. 3. 26,4 | 56, 4 | 22, 5 | 0. 7. 20 |
| ♏ Sagittarii | 2. 3 | 18. 41. 56 | 180. 29. 0,2 | 56, 0 | 23, 2 | 0. 9. 35 |
| ♏ Lirae | 2. 3 | 18. 42. 9 | 180. 32. 10,6 | 33, 3 | 23, 8 | 0. 9. 40 |
| ♏ Serpentis | 4 | 18. 45. 38 | 181. 22. 1,6 | 44, 8 | 20, 0 | 0. 10. 25 |
| ♎ Lirae | 2 | 18. 47. 0 | 181. 44. 59,2 | 31, 6 | 24, 8 | 0. 10. 46 |
| ♏ Sagittarii | 9 | 18. 48. 55 | 182. 12. 50,9 | 57, 6 | 23, 1 | 0. 11. 11 |

m. 1. Jan. 1785. ex Catalogo D. de la Caille computatae &c

| Declinatio R. M. S. | Variatio annua S. | Aberr. max. S. | Argum. aberra- tionis S. G. M. | Longitudo | | Latitudo | | Angulus positiōnis G. M. S. |
|------------------------|-------------------------|----------------------|---|---------------|-------------|------------|----------|-----------------------------------|
| | | | | S. G. M. | S. G. M. S. | G. M. S. | G. M. S. | |
| 11. 58. 6,5A | + 6,9 | 7,2 | 1. 20. 26 | 8. 14. 24. 42 | 19. 35. 33A | 8. 31. 48 | | |
| 12. 15. 17,9B | - 5,9 | 16,2 | 2. 19. 12 | 8. 5. 18. 53 | 53. 16. 45B | 21. 13. 13 | | |
| 12. 55. 54,7A | + 5,5 | 7,2 | 1. 28. 56 | 8. 17. 44. 24 | 10. 7. 50A | 6. 37. 59 | | |
| 15. 26. 35,0A | + 5,4 | 3,3 | 9. 25. 42 | 8. 14. 57. 59 | 7. 13. 23B | 6. 9. 31 | | |
| 14. 28. 56,1B | - 4,8 | 12,3 | 2. 24. 21 | 8. 13. 8. 47 | 37. 19. 0B | 6. 51. 19 | | |
| 14. 6. 05,2B | - 4,6 | 14,9 | 2. 22. 31 | 8. 18. 5. 19 | 47. 45. 39B | 7. 46. 29 | | |
| 14. 45. 56,2A | + 4,5 | 1,9 | 0. 7. 47 | 8. 18. 23. 41 | 1. 48. 29A | 5. 3. 45 | | |
| 17. 6. 13,2A | + 3,8 | 4,9 | 2. 2. 53 | 8. 21. 0. 48 | 13. 58. 23A | 4. 28. 27 | | |
| 16. 55. 43,3A | + 3,6 | 5,0 | 2. 4. 22 | 8. 24. 33. 10 | 13. 45. 14A | 4. 10. 41 | | |
| 12. 50. 23,9A | + 3,3 | 6,2 | 2. 10. 38 | 8. 22. 35. 55 | 19. 36. 14A | 4. 0. 46 | | |
| 12. 43. 59,3B | - 3,1 | 11,8 | 2. 26. 45 | 8. 29. 26. 3 | 35. 53. 1B | 4. 18. 14 | | |
| 12. 28. 2,3B | - 3,0 | 19,4 | 2. 22. 56 | 8. 8. 56. 23 | 75. 18. 43B | 42. 35. 16 | | |
| 10. 53. 57,6A | + 2,8 | 5,5 | 2. 11. 5 | 8. 23. 23. 10 | 15. 36. 38A | 3. 00. 52 | | |
| 10. 1. 17,2A | + 2,4 | 5,8 | 2. 14. 34 | 8. 24. 31. 24 | 16. 40. 47A | 2. 50. 43 | | |
| 4. 40. 16,0B | - 2,2 | 9,4 | 2. 22. 50 | 8. 22. 10. 18 | 27. 57. 55B | 2. 2. 14 | | |
| 2. 42. 17,0B | - 2,0 | 11,2 | 2. 29. 21 | 8. 23. 38. 9 | 26. 9. 2B | 2. 28. 0 | | |
| 27. 51. 57,7B | - 1,9 | 15,0 | 2. 26. 41 | 8. 22. 15. 5 | 51. 11. 28B | 2. 28. 58 | | |
| 27. 17. 20,9B | - 1,8 | 17,5 | 3. 16. 2 | 8. 25. 28. 36 | 60. 42. 3B | 2. 15. 49 | | |
| 3. 39. 20,7A | + 1,8 | 6,8 | 9. 0. 31 | 8. 27. 7. 9 | 19. 47. 11B | 1. 8. 52 | | |
| 25. 23. 19,7A | + 0,8 | 2,1 | 2. 19. 39 | 8. 28. 5. 50 | 6. 6. 25A | 0. 52. 14 | | |
| 20. 24. 19,5A | + 0,7 | 2,4 | 2. 22. 22 | 8. 28. 15. 53 | 6. 56. 47A | 0. 48. 5 | | |
| 51. 31. 14,1B | - 0,7 | 19,3 | 2. 28. 17 | 8. 24. 58. 11 | 74. 57. 23B | 2. 52. 4 | | |
| 21. 5. 55,0A | - 0,1 | 0,8 | 8. 28. 31 | 9. 0. 12. 50 | 2. 22. 24B | 0. 5. 02 | | |
| 26. 48. 17,1A | - 0,2 | 4,7 | 3. 1. 49 | 9. 0. 38. 12 | 13. 20. 3A | 0. 19. 1 | | |
| 29. 52. 57,7A | - 0,6 | 2,2 | 3. 7. 42 | 9. 1. 34. 26 | 6. 26. 23A | 0. 42. 24 | | |
| 24. 27. 50,3A | - 0,8 | 3,8 | 3. 7. 10 | 9. 2. 4. 54 | 11. 0. 26A | 1. 0. 00 | | |
| 2. 56. 0,9A | - 0,9 | 7,0 | 8. 29. 38 | 9. 8. 47. 30 | 20. 30. 51B | 1. 5. 14 | | |
| 24. 21. 12,9A | - 1,3 | 0,9 | 4. 7. 48 | 9. 3. 19. 16 | 2. 5. 27A | 1. 24. 55 | | |
| 22. 35. 24,1B | + 2,6 | 17,7 | 3. 5. 13 | 9. 12. 17. 58 | 61. 44. 50B | 6. 12. 55 | | |
| 27. 11. 22,5A | - 2,8 | 1,8 | 4. 16. 16 | 9. 7. 10. 43 | 3. 55. 19A | 2. 15. 34 | | |
| 16. 32. 41,9A | - 3,6 | 1,9 | 4. 29. 49 | 9. 9. 23. 4 | 3. 24. 54A | 4. 9. 06 | | |
| 22. 7. 22,2B | + 3,6 | 16,6 | 3. 5. 53 | 9. 15. 54. 4 | 56. 1. 1B | 2. 28. 25 | | |
| 2. 54. 21,2B | + 3,9 | 9,2 | 3. 1. 40 | 9. 12. 45. 26 | 26. 54. 29B | 5. 2. 27 | | |
| 16. 22. 12,3B | + 4,1 | 17,3 | 3. 8. 2 | 9. 18. 41. 27 | 59. 20. 51B | 9. 0. 24 | | |
| 20. 10. 8,9A | - 4,2 | 2,0 | 4. 14. 52 | 9. 10. 22. 12 | 4. 2. 53A | 6. 52. 48 | | |

Positiones mediae 300 principalium Stellarum fixarum

| NOMEN SIDERIS. | Ascensio recta | | | | | Variatio minima S. | Abbr. max. S. | Argum. obser- vationis S. G. M. | | | |
|------------------------|----------------|-----|-----|-----|-------|--------------------------|---------------------|--|------|------|-----------|
| | H. | M. | S. | G. | M. S. | | | | | | |
| ♈ Aquilae | 3 | 4 | 18. | 49. | 49 | 282. | 27. | 10,3 | 41,0 | 20,6 | 0. 11. 25 |
| ♈ Lirae | 3 | 4 | 18. | 50. | 54 | 282. | 43. | 32,8 | 33,7 | 23,6 | 0. 11. 40 |
| ♈ Sagittari | 4 | 18. | 51. | 48 | 282. | 56. | 55,1 | 54,1 | 54,1 | 21,4 | 0. 11. 51 |
| ♈ | 4 | 18. | 53. | 31 | 283. | 22. | 35,0 | 56,5 | 56,5 | 22,6 | 0. 12. 15 |
| ♈ Antinoi | 3 | 4 | 18. | 54. | 51 | 283. | 42. | 38,0 | 47,9 | 20,0 | 0. 12. 39 |
| ♈ Aquilae | 3 | 4 | 18. | 55. | 32 | 283. | 53. | 0,1 | 41,5 | 21,0 | 0. 12. 44 |
| ♈ Sagittarii | 3 | 4 | 18. | 56. | 59 | 284. | 14. | 38,4 | 57,8 | 21,4 | 0. 13. 3 |
| ♈ | 4 | 19. | 8. | 58 | 287. | 14. | 23,9 | 62,8 | 62,8 | 26,3 | 0. 15. 49 |
| ♈ Draconis | 3 | 19. | 12. | 27 | 288. | 6. | 45,4 | 0,7 | 0,7 | 51,2 | 0. 16. 43 |
| ♈ Aquilae | 3 | 19. | 14. | 39 | 288. | 39. | 50,0 | 45,3 | 45,3 | 19,9 | 0. 17. 10 |
| ♈ Cygni | 3 | 19. | 22. | 2 | 290. | 30. | 45,5 | 36,4 | 36,4 | 22,3 | 0. 18. 55 |
| ♈ Antinoi | 3 | 4 | 19. | 25. | 36 | 291. | 24. | 1,2 | 46,7 | 20,0 | 0. 19. 20 |
| ♈ Sagittae | 4 | 19. | 30. | 30 | 292. | 37. | 29,6 | 40,3 | 40,3 | 20,7 | 0. 21. 2 |
| ♈ Aquilae | 3 | 19. | 36. | 2 | 294. | 0. | 29,7 | 47,9 | 47,9 | 20,0 | 0. 22. 7 |
| ♈ Cygni | 3 | 19. | 38. | 16 | 294. | 33. | 53,0 | 28,2 | 28,2 | 27,7 | 0. 22. 43 |
| ♈ Aquilae | 1 | 2 | 19. | 40. | 17 | 295. | 4. | 10,3 | 43,5 | 19,9 | 0. 23. 11 |
| ♈ Antinoi | 3 | 19. | 41. | 31 | 295. | 22. | 50,1 | 46,0 | 46,0 | 19,7 | 0. 23. 28 |
| ♈ Aquilae | 3 | 19. | 44. | 45 | 296. | 11. | 21,7 | 44,7 | 44,7 | 19,8 | 0. 34. 14 |
| ♈ Antinoi | 3 | 4 | 20. | 0. | 13 | 300. | 3. | 9,4 | 46,6 | 19,6 | 0. 27. 55 |
| ♈ Capricorni sequ. | 3 | 20. | 6. | 7 | 301. | 31. | 41,7 | 50,2 | 50,2 | 20,1 | 0. 29. 19 |
| ♈ | 3 | 20. | 8. | 55 | 302. | 13. | 44,4 | 50,9 | 50,9 | 20,3 | 0. 29. 59 |
| ♈ Cygni | 3 | 20. | 14. | 31 | 303. | 37. | 40,5 | 32,4 | 32,4 | 25,3 | 1. 1. 22 |
| ♈ Delphini | 3 | 4 | 20. | 22. | 56 | 305. | 44. | 3,7 | 43,1 | 19,8 | 1. 3. 23 |
| ♈ | 4 | 20. | 25. | 15 | 306. | 18. | 51,0 | 42,2 | 42,2 | 20,0 | 1. 5. 50 |
| ♈ | 3 | 20. | 27. | 29 | 306. | 52. | 8,7 | 42,2 | 42,2 | 20,0 | 1. 4. 29 |
| ♈ Delphini | 3 | 20. | 29. | 39 | 307. | 24. | 45,5 | 41,9 | 41,9 | 20,1 | 1. 5. 0 |
| ♈ | 3 | 4 | 20. | 33. | 25 | 303. | 21. | 17,7 | 42,1 | 20,0 | 1. 5. 56 |
| ♈ Cygni | 2 | 20. | 34. | 6 | 308. | 31. | 32,0 | 30,7 | 30,7 | 27,2 | 1. 6. 6 |
| ♈ Delphini | 3 | 4 | 20. | 36. | 42 | 309. | 10. | 26,8 | 41,9 | 20,1 | 1. 6. 44 |
| ♈ Cygni | 2 | 20. | 37. | 29 | 309. | 22. | 18,9 | 36,0 | 36,0 | 23,1 | 1. 6. 56 |
| ♈ | 3 | 4 | 21. | 3. | 47 | 315. | 56. | 45,1 | 38,3 | 22,0 | 1. 13. 16 |
| ♈ Equlei | 4 | 21. | 5. | 3 | 316. | 15. | 51,7 | 45,1 | 45,1 | 19,2 | 1. 13. 45 |
| ♈ Pegasi | 4 | 21. | 12. | 7 | 318. | 1. | 42,1 | 41,6 | 41,6 | 19,3 | 1. 15. 31 |
| ♈ Cephei | 2 | 21. | 13. | 25 | 318. | 21. | 10,1 | 21,4 | 21,4 | 40,2 | 1. 15. 52 |
| ♈ Aquarii | 3 | 21. | 20. | 15 | 320. | 3. | 38,3 | 47,6 | 47,6 | 19,2 | 1. 17. 34 |

pro 1. Jan. 1785. ex Calalogo D. de la Caille computatae &c.

| Declinatio G. M. S. | Varia- tio annua S. | Aberr. max. S. | Argum. aberra- tionis S. G. M. S. | Longitudo S. G. M. S. | Latitudo G. M. S. | Argument positionis G. M. S. |
|------------------------|------------------------------|----------------------|--|--------------------------|----------------------|------------------------------------|
| 14 47. 26. 4 B | + 4.3 | 12, 3 | 3. 5. 7 | 9. 15. 16. 42 | 27. 36. 11 B | 6. 13. 25 |
| 32. 24. 24. 5 B | + 4.4 | 16, 5 | 3. 8. 12 | 9. 18. 56. 29 | 55. 2. 38 B | 8. 48. 29 |
| 22. 2. 24. 3 A | - 4.5 | 1, 8 | 6. 21. 55 | 9. 11. 59. 21 | 0. 53. 38 B | 5. 7. 14 |
| 57. 57. 53. 4 A | - 4.6 | 2, 6 | 4. 28. 17 | 9. 11. 50. 16 | 5. 2. 29 A | 5. 18. 27 |
| 5. 11. 21. 1 A | - 4.7 | 6, 3 | 8. 26. 55 | 9. 14. 20. 17 | 17. 36. 7 B | 5. 25. 41 |
| 13. 33. 31. 1 B | + 4.8 | 11, 9 | 3. 5. 22 | 9. 16. 48. 23 | 36. 13. 23 B | 6. 48. 13 |
| 21. 20. 57. 0 A | - 4.9 | 2, 0 | 6. 27. 50 | 9. 13. 15. 9 | 1. 28. 7 B | 5. 37. 53 |
| 41. 59. 58. 2 A | - 5.9 | 6, 7 | 4. 5. 13 | 9. 13. 37. 47 | 18. 20. 26 A | 7. 8. 39 |
| 67. 16. 59. 7 B | + 6.2 | 20, 0 | 3. 16. 41 | 0. 14. 21. 32 | 82. 52. 52 B | 87. 39. 38 |
| 2. 42. 1. 5 B | + 6.4 | 8, 8 | 3. 1. 58 | 9. 20. 37. 32 | 24. 50. 39 B | 8. 4. 28 |
| 27. 31. 10. 1 B | + 7.0 | 15, 4 | 3. 12. 10 | 9. 28. 16. 17 | 48. 59. 43 B | 12. 16. 53 |
| 1. 44. 56. 0 A | - 7.3 | 6, 8 | 8. 28. 15 | 9. 22. 50. 36 | 20. 2. 24 B | 8. 53. 57 |
| 17. 31. 56. 9 B | + 7.7 | 12, 9 | 3. 10. 32 | 9. 28. 5. 17 | 38. 49. 16 B | 11. 4. 53 |
| 10. 6. 6. 1 B | + 8.1 | 10, 9 | 3. 7. 50 | 9. 27. 56. 47 | 21. 16. 16 B | 10. 55. 47 |
| 24. 26. 52. 1 B | + 8.3 | 18, 3 | 3. 18. 32 | 9. 13. 17. 46 | 64. 26. 7 B | 22. 33. 50 |
| 8. 18. 39. 5 B | + 8.5 | 10, 6 | 3. 6. 47 | 9. 28. 44. 21 | 29. 18. 46 B | 11. 9. 36 |
| 0. 28. 5. 9 B | + 8.6 | 8, 1 | 3. 0. 29 | 9. 27. 26. 28 | 21. 33. 11 B | 10. 33. 28 |
| 5. 53. 16. 8 B | + 8.8 | 9, 6 | 3. 5. 21 | 9. 29. 26. 18 | 26. 43. 10 B | 11. 20. 56 |
| 1. 26. 45. 5 A | - 10.0 | 7, 6 | 8. 28. 5 | 10. 1. 55. 5 | 18. 45. 13 B | 12. 9. 28 |
| 13. 11. 39. 2 A | - 10.4 | 4, 8 | 8. 0. 15 | 10. 0. 51. 20 | 6. 57. 18 B | 12. 6. 43 |
| 15. 26. 49. 1 A | - 10.7 | 4, 5 | 7. 21. 16 | 10. 1. 2. 4 | 4. 36. 53 B | 12. 18. 15 |
| 39. 34. 42. 4 B | + 11.1 | 17, 4 | 3. 23. 58 | 10. 21. 52. 59 | 57. 8. 36 B | 23. 58. 41 |
| 12. 35. 7. 9 B | + 11.7 | 10, 8 | 3. 11. 28 | 10. 11. 4. 21 | 29. 5. 55 B | 15. 26. 22 |
| 15. 56. 40. 1 B | + 11.8 | 11, 6 | 3. 14. 9 | 10. 12. 46. 12 | 32. 10. 40 B | 16. 10. 53 |
| 13. 51. 31. 5 B | + 12.0 | 11, 6 | 3. 14. 19 | 10. 13. 21. 6 | 31. 56. 35 B | 16. 21. 17 |
| 45. 9. 55. 2 B | + 12.2 | 11, 9 | 3. 15. 25 | 10. 14. 28. 28 | 33. 2. 43 B | 16. 46. 45 |
| 14. 18. 50. 2 B | + 12.4 | 11, 7 | 3. 15. 12 | 10. 15. 7. 57 | 31. 58. 0 B | 16. 56. 16 |
| 44. 21. 10. 4 B | + 12.5 | 18, 0 | 3. 28. 59 | 11. 2. 22. 43 | 59. 55. 6 B | 89. 40. 0 |
| 15. 21. 43. 9 B | + 12.6 | 11, 9 | 3. 16. 16 | 10. 16. 23. 40 | 32. 44. 3 B | 17. 24. 13 |
| 53. 10. 16. 5 B | + 12.7 | 16, 0 | 3. 25. 40 | 10. 24. 43. 53 | 49. 25. 43 B | 22. 51. 35 |
| 29. 21. 5. 7 B | + 14.4 | 15, 0 | 3. 28. 4 | 11. 0. 4. 6 | 43. 42. 46 B | 23. 19. 46 |
| 4. 22. 13. 5 B | + 14.5 | 9, 0 | 3. 7. 1 | 10. 20. 7. 15 | 20. 8. 55 B | 17. 51. 5 |
| 28. 53. 34. 6 B | + 14.9 | 18, 5 | 3. 22. 40 | 10. 27. 18. 37 | 33. 18. 1 B | 20. 45. 2 |
| 51. 40. 44. 8 B | + 15.0 | 19, 6 | 4. 12. 11 | 0. 9. 50. 3 | 68. 54. 46 B | 55. 48. 57 |
| 16. 30. 27. 1 A | - 15.4 | 6, 8 | 8. 15. 10 | 10. 20. 24. 0 | 8. 37. 58 B | 17. 59. 32 |

Positiones mediae 300 principalium Stellarum fixarum

| NOMEN SIDERIS | <i>Ascensio recta</i> | | | | | <i>Variatio annua</i> | <i>Aber. max.</i> | <i>Argum. aberrationis</i> | |
|--------------------------|-----------------------|-----------|-----------|-----------|-----------|-----------------------|-------------------|----------------------------|-----------|
| | <i>H.</i> | <i>M.</i> | <i>S.</i> | <i>G.</i> | <i>M.</i> | <i>S.</i> | <i>S.</i> | <i>S. G. M.</i> | |
| ε Cephei 3. 4 | 21. | 25. | 52 | 321. | 27. | 52,9 | 12,6 | 54,6 | 1. 19. 1 |
| γ Capricorni 3 | 21. | 28. | 9 | 322. | 2. | 12,8 | 50,1 | 19,9 | 1. 19. 33 |
| ε Pegasi 3 | 21. | 33. | 37 | 323. | 24. | 8,0 | 44,3 | 19,2 | 1. 20. 57 |
| α Cygni 3. 4 | 21. | 34. | 22 | 323. | 37. | 54,4 | 39,9 | 21,4 | 1. 21. 12 |
| δ Capricorni 3 | 21. | 35. | 9 | 323. | 47. | 13,1 | 49,8 | 19,8 | 1. 21. 20 |
| γ Gruis 3 | 21. | 40. | 51 | 325. | 12. | 50,7 | 55,2 | 24,1 | 1. 22. 38 |
| α Aquarii 3 | 21. | 54. | 44 | 328. | 41. | 7,0 | 46,4 | 18,8 | 1. 26. 23 |
| γ 3 | 22. | 10. | 33 | 332. | 38. | 15,7 | 46,6 | 18,7 | 2. 0. 26 |
| γ Pegasi 3 | 22. | 30. | 43 | 337. | 40. | 47,8 | 44,9 | 18,9 | 2. 5. 50 |
| δ 3 | 22. | 38. | 56 | 338. | 14. | 3,2 | 42,0 | 21,8 | 2. 6. 26 |
| α Aquarii 4 | 22. | 41. | 20 | 340. | 20. | 2,1 | 47,2 | 18,3 | 2. 8. 40 |
| β 3 | 22. | 43. | 15 | 340. | 48. | 23,3 | 48,2 | 19,4 | 2. 9. 10 |
| γ Comahant 1 | 22. | 45. | 43 | 341. | 25. | 43,7 | 50,0 | 21,5 | 2. 9. 50 |
| ο Andromedae 4 | 22. | 52. | 3 | 343. | 0. | 44,2 | 41,0 | 24,6 | 2. 11. 32 |
| ε Pegasi 2 | 22. | 53. | 22 | 343. | 20. | 24,2 | 43,2 | 20,7 | 2. 11. 53 |
| δ 2 | 22. | 54. | 4 | 343. | 30. | 53,0 | 44,7 | 19,1 | 2. 12. 4 |
| φ Aquarii 4 | 23. | 3. | 11 | 345. | 47. | 48,5 | 46,8 | 18,6 | 2. 14. 31 |
| α Cephei 3. 4 | 23. | 30. | 40 | 352. | 39. | 57,5 | 35,5 | 78,2 | 2. 21. 59 |
| γ Andromedae 2 | 23. | 57. | 18 | 359. | 19. | 30,0 | 46,0 | 20,7 | 2. 29. 13 |
| α Cassiopeae 2 | 23. | 57. | 45 | 359. | 26. | 19,9 | 45,8 | 34,6 | 2. 29. 20 |



pro 1. Jan. 1785. ex Catalogo D. de la Caille computatae &c.

| Declinatio G. M. S. | Variatio annua S. | Abstr. max. S. | Argum. aberra- tionis S. G. M. | Longitudo S. G. M. S. | Latitudo G. M. S. | Angulus positionis G. M. S. |
|------------------------|-------------------------|----------------------|---|--------------------------|----------------------|-----------------------------------|
| 69. 37. 7,9 B | + 15. 7 | 19. 9 | 4. 17. 23 | 1. 2. 37. 16 | 71. 8. 0 B | 74. 25. 17 |
| 17. 37. 19. 2 A | - 15. 8 | 6. 3 | 7. 11. 7 | 10. 18. 46. 22 | 2. 32. 2 A | 18. 19. 14 |
| 2. 57. 52,7 B | + 16. 1 | 9. 9 | 3. 14. 31 | 10. 28. 53. 22 | 22. 6. 58 B | 20. 11. 28 |
| 17. 46. 51,1 B | + 16. 1 | 4. 3 | 4. 1. 45 | 11. 7. 28. 1 | 39. 31. 49 B | 24. 34. 17 |
| 17. 5. 29,7 A | - 16. 2 | 6. 5 | 7. 12. 58 | 10. 20. 31. 58 | 2. 35. 35 A | 18. 45. 52 |
| 32. 21. 34,7 A | - 16. 2 | 10. 2 | 5. 28. 20 | 10. 14. 14. 7 | 23. 1. 32 A | 20. 49. 13 |
| 1. 22. 24,9 A | - 17. 1 | 7. 7 | 8. 26. 57 | 11. 0. 21. 26 | 10. 10. 29 B | 20. 15. 34 |
| 2. 27. 49,6 A | - 17. 8 | 7. 6 | 8. 24. 13 | 11. 3. 42. 39 | 8. 14. 54 B | 20. 56. 34 |
| 9. 42. 56,0 B | + 18. 9 | 9. 6 | 3. 19. 2 | 11. 13. 9. 3 | 17. 41. 31 B | 22. 45. 8 |
| 29. 6. 7,9 B | + 18. 6 | 13. 7 | 3. 11. 19 | 11. 27. 44. 6 | 35. 6. 43 B | 26. 53. 7 |
| 8. 43. 6,7 A | - 18. 9 | 7. 5 | 8. 7. 35 | 11. 8. 34. 35 | 0. 22. 52 A | 22. 1. 53 |
| 16. 57. 34,0 A | - 18. 9 | 8. 0 | 7. 16. 42 | 11. 5. 52. 17 | 8. 10. 52 A | 22. 20. 8 |
| 10. 45. 17,8 A | - 19. 0 | 10. 4 | 6. 21. 38 | 11. 0. 49. 54 | 21. 6. 13 A | 23. 52. 32 |
| 41. 10. 25,9 B | + 19. 2 | 15. 8 | 4. 22. 51 | 0. 4. 48. 15 | 43. 44. 46 B | 31. 49. 21 |
| 26. 55. 6,9 B | + 19. 2 | 12. 8 | 4. 12. 22 | 11. 26. 22. 20 | 31. 8. 12 B | 26. 28. 4 |
| 14. 3. 10,8 B | + 19. 2 | 10. 1 | 3. 27. 20 | 11. 20. 29. 34 | 19. 24. 46 B | 23. 53. 17 |
| 7. 12. 10,4 A | - 19. 4 | 7. 7 | 8. 11. 37 | 11. 14. 8. 27 | 1. 2. 34 A | 22. 43. 3 |
| 76. 25. 46,6 B | + 19. 9 | 19. 7 | 5. 17. 50 | 1. 27. 5. 54 | 64. 37. 57 B | 67. 13. 56 |
| 27. 43. 16,7 B | + 20. 0 | 11. 8 | 4. 22. 36 | 0. 11. 19. 5 | 25. 41. 6 B | 26. 13. 42 |
| 57. 57. 53,7 B | + 20. 0 | 17. 5 | 5. 15. 23 | 1. 2. 6. 44 | 51. 12. 42 B | 39. 29. 42 |



DIFFERENTIAE MERIDIANORUM

Inter Observatorium Mediolanense, & praecipua loca terrarum
cum eorumdem longitudine & latitudine.

Ex tabulis Berolinensibus & D. LA LANDE.

| NOMINA LOCORUM. | Differentia Meridianorum | Longitudo. | Latitudo. |
|----------------------|-----------------------------|------------|------------|
| | H. M. S. | G. M. | G. M. S. |
| Aboa Finniae | 0. 52. 9. or. | 39. 52 | 0. 27. 0 B |
| Agra Mogolis | 3. 30. 11. or. | 94. 24 | 26. 43. 0 |
| Agria Erlau | 0. 44. 5. or. | 37. 52 | 47. 42. 0 |
| Aleppum Syriae | 1. 52. 35. or. | 55. 0 | 35. 45. 23 |
| Alexandria Egypti | 1. 24. 21. or. | 47. 57 | 31. 11. 20 |
| Alexandria Liguriae | 0. 2. 52. or. | 27. 34 | 53. 35. 0 |
| Amstelodamum | 0. 17. 13. oc. | 22. 39 | 52. 22. 45 |
| Ancona | 0. 17. 17. or. | 31. 11 | 43. 37. 54 |
| Antiflodorum Auxerre | 0. 22. 28. oc. | 21. 14 | 47. 47. 54 |
| Antuerpia | 0. 19. 12. oc. | 22. 4 | 51. 13. 35 |
| Aquae Sextiae Aix | 0. 15. 0. oc. | 23. 7 | 43. 31. 35 |
| Archangelus | 1. 58. 55. or. | 56. 35 | 64. 34. 0 |
| Ariminum | 0. 13. 56. or. | 30. 20 | 44. 3. 43 |
| Athenae Graeciae | 1. 5. 20. or. | 43. 11 | 37. 40. 0 |
| Avenio Avignon | 0. 19. 31. oc. | 22. 29 | 43. 57. 25 |
| Augusta Vindel. | 0. 7. 0. or. | 28. 36 | 48. 24. 0 |
| Aurelianum Orleans | 0. 29. 8. oc. | 19. 34 | 47. 54. 4 |
| Basilea | 0. 6. 25. oc. | 25. 15 | 47. 55. 0 |
| Bajocae Bajoux | 0. 39. 36. oc. | 16. 57 | 49. 16. 30 |
| Bajonna | 0. 42. 45. oc. | 16. 10 | 43. 29. 21 |
| Belgradum | 0. 49. 5. or. | 39. 7 | 45. 3. 0 |
| Bergomum | 0. 0. 48. or. | 27. 3 | 45. 41. 0 |
| Berolinum | 0. 17. 0. or. | 31. 6 | 52. 31. 30 |
| Biterae Beziers | 0. 23. 55. oc. | 20. 53 | 43. 20. 20 |
| Bononia Italicae | 0. 8. 40. or. | 29. 1 | 44. 29. 36 |
| Brandeburgum | 0. 13. 52. or. | 30. 19 | 52. 27. 0 |
| Brixia | 0. 3. 0. or. | 27. 36 | 45. 51. 0 |
| Burdigala Bourdeaux | 0. 39. 4. oc. | 17. 5 | 44. 50. 18 |
| Burgum in Bressia | 0. 29. 1. oc. | 22. 54 | 46. 12. 30 |
| Bressia Bressi | 0. 54. 48. oc. | 13. 9 | 48. 23. 0 |

| NOMINA LOCORUM. | Differentia Meridianorum. | | | Longitudo. | | Latitudo. | | |
|--------------------------|------------------------------|-----|---------|------------|----|-----------|-----|------|
| | H. | M. | S. | G. | M. | G. | M. | S. |
| Buenos-aires | 4. | 30. | 50. oc. | 319. | 9 | 34. | 35. | 26 A |
| Cadomum Carn | 0. | 38. | 12. oc. | 17. | 18 | 49. | 11. | 10 B |
| Cajaneburgum | 1. | 14. | 17. or' | 45. | 25 | 64. | 13. | 30 |
| Cajrus Egypti | 1. | 29. | 15. or. | 29. | 10 | 30. | 3. | 12 |
| Calerum Calais | 0. | 39. | 21. oc. | 19. | 31 | 50. | 57. | 31 |
| Canton | 6. | 55. | 28. oc. | 130. | 43 | 23. | 8. | 0 |
| Capna | 0. | 19. | 0. or. | 31. | 56 | 41. | 7. | 0 |
| Caput bonae Spei | 0. | 36. | 50. or. | 26. | 4 | 33. | 35. | 15 A |
| Caput Gallienm | 5. | 26. | 5. ac. | 305. | 1 | 19. | 46. | 40 B |
| Caput Viride | 1. | 45. | 25. oc. | 0. | 30 | 14. | 43. | 0 |
| Carthago Americae | 5. | 38. | 30. oc. | 302. | 14 | 10. | 26. | 35 |
| Cayana | 4. | 5. | 5. oc. | 325. | 25 | 4. | 56. | 0 |
| Colonia | 0. | 8. | 25. oc. | 24. | 45 | 50. | 55. | 0 |
| Conceptio Chilli | 5. | 27. | 25. oc. | 305. | 0 | 36. | 42. | 53 A |
| Constantinopolis | 1. | 19. | 0. or. | 46. | 36 | 41. | 1. | 0 B |
| Cracovia | 0. | 42. | 35. or. | 37. | 30 | 50. | 10. | 0 |
| Cremifanium Cremsmunster | 0. | 19. | 45. or. | 31. | 48 | 48. | 3. | 36 |
| Cremona | 0. | 3. | 28. or. | 27. | 43 | 45. | 7. | 49 |
| Curia Coira | 0. | 1. | 0. or. | 27. | 6 | 46. | 30. | 0 |
| Dresda | 0. | 17. | 0. or. | 31. | 6 | 51. | 6. | 0 |
| Duquerque | 0. | 27. | 15. oc. | 20. | 2 | 51. | 2. | 4 |
| Edeburgum | 0. | 49. | 6. oc. | 14. | 35 | 55. | 58. | 0 |
| Ferraria | 0. | 9. | 32. or. | 29. | 14 | 44. | 54. | 0 |
| Florentia | 0. | 7. | 23. or. | 28. | 42 | 43. | 46. | 30 |
| Frankfurtum | 0. | 2. | 25. oc. | 26. | 15 | 50. | 6. | 0 |
| Gades Cadice | 1. | 1. | 41. oc. | 11. | 26 | 36. | 31. | 7 |
| Gedanaum Danzica | 0. | 37. | 19. or. | 36. | 11 | 54. | 22. | 23 |
| Geneva | 0. | 12. | 35. oc. | 23. | 49 | 46. | 12. | 0 |
| Genoa | 0. | 2. | 23. oc. | 26. | 16 | 44. | 25. | 0 |
| Gta | 4. | 18. | 16. or. | 91. | 25 | 15. | 31. | 0 A |
| Goritia | 0. | 17. | 34. or. | 31. | 15 | 45. | 57. | 30 B |
| Gothenburgum | 0. | 9. | 50. or. | 20. | 19 | 57. | 42. | 0 |
| Gottinga | 0. | 2. | 51. or. | 27. | 24 | 51. | 32. | 0 |
| Gracium Gratz | 0. | 24. | 50. or. | 33. | 4 | 47. | 4. | 18 |
| Greenovicum | 0. | 26. | 41. oc. | 17. | 41 | 5. | 28. | 40 |

| NOMINA LOCORUM. | Differentia Meridianorum. | Longitudo | Latitude. |
|--------------------------------|------------------------------|-----------|--------------|
| | H. M. S. | G. M. | G. M. S. |
| Gripfswald | 0. 17. 43. or. | 31. 17 | 5. 16. 0 B |
| Haphnia <i>Copenbague.</i> | 0. 14. 16. or. | 30. 25 | 55. 40. 45 |
| Havana | 6. 3. 56. cc. | 295. 52 | 23. 14. 50 |
| Herbipolis <i>Wurzburg.</i> | 0. 4. 10. oc. | 27. 54 | 49. 46. 6 |
| Hierogolima | 1. 44. 35. or. | 53. 0 | 31. 50. 0 |
| Imola | 0. 10. 31. or. | 29. 29 | 44. 21. 32 |
| Ingolstadtum | 0. 8. 45. or. | 29. 2 | 48. 46. 0 |
| Insula Bothonica ad S. Dionif. | 3. 5. 15. or. | 73. 10 | 20. 51. 43 A |
| Insula Ferri ad Opp. | 1. 47. 0 oc. | 0. 6 | 27. 47. 20 B |
| Insula Galliae ad port. Ludov. | 3. 13. 7. or. | 75. 8 | 20. 9. 45 A |
| S. Joseph in California | 7. 55. 24. oc. | 268. 0 | 23. 3. 36 B |
| Ipanhan | 2. 54. 35. or. | 70. 30 | 32. 25. 0 |
| Julia Caesarea <i>Algeri.</i> | 0. 27. 54. oc. | 19. 53 | 36. 49. 30 |
| Kebecum | 5. 16. 17. oc. | 307. 47 | 46. 55. 0 |
| Leodium <i>Liegi.</i> | 0. 14. 28. oc. | 23. 14 | 50. 38. 0 |
| Leopolis | 0. 57. 15. or. | 41. 42 | 49. 51. 30 |
| Leyda | 0. 19. 0. oc. | 22. 6 | 52. 8. 40 |
| Ligurus | 0. 4. 0. or. | 27. 51 | 43. 32. 0 |
| Lima Peruviae. | 5. 44. 3. oc. | 300. 50 | 12. 1. 15 A |
| Lipfia | 0. 12. 35. or. | 30. 0 | 51. 19. 14 B |
| Londinum | 0. 37. 6. oc. | 17. 35 | 51. 31. 0 |
| Luca | 0. 4. 24. or. | 27. 57 | 43. 49. 3 |
| Lugdunum | 0. 17. 6. oc. | 22. 20 | 45. 45. 51 |
| Lugdun | 0. 16. 40. or. | 31. 1 | 55. 41. 36 |
| Lutetiae Parisiorum | 0. 27. 25. oc. | 20. 0 | 48. 50. 12 |
| Macau | 6. 58. 20. or. | 131. 26 | 22. 12. 44 |
| Madras | 4. 43. 30. or. | 97. 43 | 13. 8. 0 |
| Macerata | 0. 17. 29. or. | 31. 13 | 43. 18. 36 |
| Malaca | 6. 11. 35. or. | 19. 45 | 2. 12. 0 |
| Manilla | 7. 24. 35. or. | 138. 0 | 14. 30. 0 |
| Mantua | 0. 3. 56. or. | 27. 50 | 45. 2. 0 |
| Martimica | 4. 40. 40. oc. | 316. 41 | 14. 43. 9 |
| Massiliae | 0. 15. 16. oc. | 23. 2 | 43. 17. 45 |
| Matritum | 0. 50. 28. oc. | 14. 14 | 40. 25. 0 |
| Mediolanum | 0. 0. 0. | 26. 51 | 45. 27. 57. |

| NOMINA LOCORUM. | <i>Differentia Meridianorum.</i> | | | <i>Longitudo.</i> | <i>Latitudo.</i> |
|-----------------------------------|--------------------------------------|------|----|-------------------|------------------|
| | <i>H. M. S.</i> | | | <i>G. M.</i> | <i>G. M. S.</i> |
| India | 0. 21. 9. <i>or.</i> | 32. | 9 | 35. 54. 0 B | |
| Medana | 0. 24. 29. <i>or.</i> | 32. | 58 | 38. 21. 0 | |
| Mexicum | 7. 21. 25. <i>oc.</i> | 274. | 0 | 20. 0. 0 | |
| Moguntia | 0. 3. 25. <i>oc.</i> | 25. | 59 | 49. 54. 0 | |
| Mouuchiam Bav. | 0. 9. 15. <i>or.</i> | 29. | 15 | 48. 9. 55 | |
| Montepellianum <i>Montpellier</i> | 0. 21. 14. <i>oc.</i> | 21. | 33 | 43. 36. 33 | |
| Naples | 1. 54. 20. <i>or.</i> | 55. | 26 | 55. 45. 20 | |
| Norimberg | 0. 8. 4. <i>or.</i> | 28. | 53 | 44. 34. 0 | |
| Naples | 0. 20. 5. <i>or.</i> | 31. | 53 | 40. 50. 15 | |
| Nova Prova | 0. 7. 36. <i>oc.</i> | 24. | 57 | 42. 41. 54 | |
| Norimberga | 0. 7. 31. <i>or.</i> | 28. | 44 | 49. 27. 0 | |
| Oxford | 0. 41. 45. <i>oc.</i> | 16. | 25 | 51. 44. 57 | |
| Palma | 0. 10. 57. <i>or.</i> | 29. | 36 | 45. 23. 26 | |
| Panormum | 0. 16. 16. <i>or.</i> | 30. | 55 | 38. 9. 0 | |
| Parma | 0. 2. 58. <i>or.</i> | 27. | 35 | 44. 44. 50 | |
| Peking | 7. 9. 10. <i>or.</i> | 134. | 9 | 39. 54. 13 | |
| Petrobrum | 0. 14. 57. <i>or.</i> | 30. | 35 | 43. 33. 54 | |
| Pompeii | 1. 24. 33. <i>or.</i> | 48. | 0 | 59. 56. 0 | |
| Philadelphia | 5. 37. 28. <i>oc.</i> | 302. | 29 | 39. 56. 55 | |
| Praga | 0. 5. 4. <i>or.</i> | 28. | 7 | 43. 43. 7 | |
| Ratisbona | 0. 6. 8. <i>or.</i> | 28. | 23 | 43. 36. 0 | |
| Ravenna | 0. 0. 52. <i>or.</i> | 27. | 4 | 45. 3. 0 | |
| Randerny | 4. 43. 5. <i>or.</i> | 97. | 37 | 11. 56. 30 | |
| Ratisbona | 5. 56. 5. <i>oc.</i> | 297. | 50 | 9. 33. 5 | |
| Riga | 0. 22. 15. <i>or.</i> | 32. | 25 | 50. 4. 30 | |
| Romae | 6. 55. 28. <i>or.</i> | 130. | 43 | 23. 8. 0 | |
| Rosario | 5. 48. 25. <i>oc.</i> | 299. | 45 | 0. 13. 17 A | |
| Rovena | 0. 11. 8. <i>or.</i> | 29. | 38 | 44. 25. 5 B | |
| Regium Lepidi | 0. 6. 20. <i>or.</i> | 28. | 26 | 44. 39. 0 | |
| Rio-Janeiro | 3. 27. 45. <i>oc.</i> | 334. | 55 | 22. 54. 10 A | |
| Roma | 0. 13. 12. <i>or.</i> | 30. | 9 | 41. 53. 54 B | |
| Rothomagus <i>Rouen</i> | 0. 52. 24. <i>oc.</i> | 18. | 45 | 49. 26. 43 | |
| Rovena | 0. 3. 40. <i>oc.</i> | 25. | 56 | 44. 18. 0 | |
| Schwetzingen | 0. 2. 10. <i>oc.</i> | 26. | 19 | 49. 23. 4 | |
| Senae | 0. 7. 44. <i>or.</i> | 28. | 47 | 43. 20. 0 | |

| NOMINA LOCORUM. | Differentia Meridianorum. | Longitudo. | Latitudo. |
|--------------------|------------------------------|------------|--------------|
| | H. M. S. | G. M. | G. M. S. |
| Senogæ Sens | 0. 23. 37. <i>oc.</i> | 20. 57 | 48. 11. 56 B |
| Siam | 6. 6. 35. <i>or.</i> | 118. 50 | 14. 14. 0 |
| Smirna | 1. 18. 32. <i>or.</i> | 44. 59 | 38. 28. 7 |
| Stokolmia | 0. 35. 25. <i>or.</i> | 35. 43 | 59. 20. 30 |
| Taurinum | 0. 6. 5. <i>oc.</i> | 25. 20 | 45. 4. 14 |
| Telo-Martius Tolon | 0. 12. 59. <i>oc.</i> | 23. 37 | 43. 7. 24 |
| Tergeste | 0. 18. 40. <i>or.</i> | 31. 31 | 45. 33. 0 |
| Ticinum | 0. 0. 1. <i>oc.</i> | 26. 51 | 45. 10. 59 |
| Tobolk | 3. 56. 55. <i>or.</i> | 186. 5 | 58. 12. 22 |
| Tolofa | 0. 30. 40. <i>oc.</i> | 19. 6 | 43. 35. 54 |
| Tornea | 1. 0. 3. <i>or.</i> | 41. 53 | 65. 50. 50 |
| Trajectum superius | 0. 13. 48. <i>oc.</i> | 23. 27 | 50. 49. 0 |
| Tridentum | 0. 6. 24. <i>or.</i> | 28. 27 | 46. 1. 0 |
| Tyrnavia | 0. 35. 30. <i>or.</i> | 35. 14 | 48. 23. 30 |
| Varfavia | 0. 47. 35. <i>or.</i> | 38. 45 | 52. 14. 0 |
| Venetia | 0. 11. 33. <i>or.</i> | 29. 45 | 45. 25. 0 |
| Vercellia | 0. 3. 48. <i>oc.</i> | 25. 54 | 45. 13. 0 |
| Verona | 0. 8. 29. <i>or.</i> | 28. 58 | 45. 26. 26 |
| Verfailles | 0. 28. 16. <i>oc.</i> | 19. 47 | 48. 48. 18 |
| Vienna Austriae | 0. 28. 45. <i>or.</i> | 34. 2 | 48. 12. 32 |
| Viterbum | 0. 12. 7. <i>or.</i> | 29. 53 | 42. 24. 54 |
| Ultrajectum | 0. 16. 16. <i>oc.</i> | 22. 47 | 52. 6. 0 |
| Ulyffippo | 1. 13. 20. <i>oc.</i> | 8. 31 | 38. 42. 20 |
| Urbium | 0. 14. 4. <i>or.</i> | 30. 22 | 43. 43. 36 |
| Upsala | 0. 33. 45. <i>or.</i> | 35. 25 | 59. 51. 50 |
| Uraniburgum | 0. 14. 45. <i>or.</i> | 30. 33 | 55. 54. 15 |
| Wardus | 1. 27. 39. <i>or.</i> | 45. 46 | 70. 22. 35 |
| Wilna | 1. 5. 5. <i>or.</i> | 43. 7 | 54. 41. 0 |
| Wirtemberga | 0. 13. 29. <i>or.</i> | 30. 14 | 51. 43. 10 |



A P P E N D I X
A D E P H E M E R I D E S

1785.

SUPPUTATIO OBLIQUITATIS ECLIPTICAE
 ex observationibus habitis in Specula astronomica
 Mediolanensi

ab anno 1772 ad an. 1783.

OPUSCULUM

FRANCISCI REGGIO.

DE actuali decremento obliquitatis Eclipticæ nemo jam est qui dubitet; quæ sit decrementi quantitas sæcularis, nondum satis constat. Supputationes ex sola theoria institutæ a Geometris magnæ notæ pro suppositis diversis massis planetarum diversam item exhibent decrementi quantitatem. Collatio antiquissimarum observationum cum habitis postrema hac ætate sola posset litem dirimere: verum illæ non ea pollent accuracionis fide, ut ex earundem collatione cum nostris certi aliquid erui possit. Quod deest theoriæ fulcimen ex observationibus anteaetæ ætatis, & nostris, dabunt observationes præsentis, & futuræ. Nostrum solum est, qui hoc tempore instrumentis astronomicis exquisitissimis instruimur diligentia ac solertia eam parere accuracionem recentibus observationibus, quam eorundem defectus negavit antiquis.

Observationes solstitiales, quæ ab anno 1772 ad initium an. 1783 in hac Specula astronomica peractæ sunt hic exponam. Quo instrumento institutæ sint, quam methodum nos persecuti; pro eruenda ex iisdem obliquitate eclipticæ præstat innuere.

Distanciae a vertice vel altitudines limbi Solis in tropicorum viciniis observabantur, prout res ferebat, alterutro tubo sextantis nostri sex pedum; in cuius constructionem, positionem tuborum, & divisiones limbi rite inquisitum est*.

Differentia inter declinationem Solis supputatam pro dato tempore in tropicorum viciniis, & declinationem maximam, seu obliquitatem eclipticae eadem sensibilibiter est, quavis facta obliquitatis hypothesi. Si itaque a distantia observata puta prope solstitium aestivum subducatur ea differentia tempori observationis respondens, prodit distantia a vertice solstitialis ex observatione. Methodus huiusmodi simplex, & usitata apud Astronomos, quam ipse persequar, in usum vocat plures observationes factas ante & post solstitium ad scopum determinandae obliquitatis eclipticae. Totidem enim ea methodo assequimur distantias solstiales a vertice, vel altitudines, quot observationes factae in tropicorum viciniis, inter quas distantiam arithmetice mediam liceat sumere.

Obliquitatem eclipticae a Cl. *de la Caille* datam suppono in supputandis distantiis a solstitio.

Distancia solstitialis a vertice ita comparata corrigenda dein ab effectu parallaxeos, & refractionis habita ratione pro hac altitudinis Mercurii in barometro & thermometro mediae inter observatas. Tabula refractionum D. *de la Caille* utor.

* *Vide* Commentarium in vol. Ephem. ad an. 1782.

Distantia a vertice limbi superioris Solis in solstitio aestivo
anni 1772, deducta ex observationibus Clar. la Grange.

| Bar. | Ther. | Dist. observ. L. S. ☉ | Dist. solstitialis L. S. ☉ |
|---------------------|--|------------------------------|-------------------------------|
| 15. Jun. 27. 10,0 | + 16,0 | 21. 50. | 5,6 . . . 21. 43. 50,8 |
| 16. 9,6 | . . 18,5 | 48. | 6,6 43. 55,3 |
| 17. 10,5 | . . 20,0 | 46. | 22,9 44. 0,1 |
| 19. 10,0 | . . 21,3 | 44. | 23,7 43. 53,8 |
| 20. 10,0 | . . 21,0 | 43. | 48,6 43. 45,1 |
| 22. 10,5 | . . 21,3 | 44. | 24,3 43. 55,8 |
| 23. 11,0 | . . 21,3 | 45. | 9,1 43. 50,0 |
| 24. 11,0 | . . 23,3 | 46. | 22,3 43. 48,7 |
| 26. 28. 0,0 | . . 23,6 | 50. | 2,2 43. 46,5 |
| 27. 10,3 | . . 20,6 | Mediū arithmet. 21. 43. 51,8 | |
| | Corr. ex refr. | + 25,5 | |
| | ex parall. | — 3,3 | |
| | Semidiameter ☉ | + 15. 45,7 | |
| | Dist. ^a solst. centri ☉ | 21. 59. 59,7 | |
| | Latitudo Speculae | 45. 27. 57,0 | |
| | Obliquitas ap. Eclipticae . . | 23. 27. 57,3 | |

Distantia a vertice limbi superioris Solis in solstitio aestivo
anni 1774, deducta ex observationibus D. de Cesaris.

| Bar. | Ther. | Dist. observ. L. S. ☉ | Dist. solstitialis L. S. ☉ |
|------------------|----------|--------------------------|-------------------------------|
| 10. Jun. 27. 9,0 | + 19,0 | 22. 8. | 43,1 . . . 21. 43. 47,6 |
| 11. 9,0 | . . 19,0 | 4. | 31,9 43. 54,4 |
| 12. 9,0 | . . 18,5 | 0. | 35,0 43. 52,5 |

| Bar. | Ther. | Dist. observ. L. S. ☉ | Dist. solstitialis L. S. ☉ |
|------------------|----------|---|-------------------------------|
| 16. 10,0 | . . 19,0 | . . 21. 49. 43 | 43. 53,6 |
| 17. 10,0 | . . 20,5 | 47. 17,3 | . . 21. 43. 57,8 |
| 19. 10,0 | . . 23,0 | 44. 53,3 | 44. 1,1 |
| 24. 8,0 | . . 17,3 | 45. 50,2 | 43. 56,7 |
| 25. 9,0 | . . 13,3 | 47. 14,3 | 43. 51,1 |
| 29. 9,0 | . . 21,0 | 57. 4,7 | 43. 53,7 |
| 30. 9,0 | . . 21,0 | . . 22. 0. 41,7 | 43. 54,4 |
| 27. 9,2 . . 19,2 | | Mediū arithmet. 21. 43. 54,3 | |
| | | Corr. ex refr. + 25,5 | |
| | | ex parall. — 3,3 | |
| | | Semidiameter ☉ + . . 15. 45,7 | |
| | | Dist. ^a solst. centri ☉ 22. 0. 2,2 | |
| | | Latitudo Speculae 45. 27. 57,0 | |
| | | Obliquitas ap. Eclipticae . . 23. 27. 44,9 | |

Distantia a vertice limbi superioris Solis in solstitio aetivo anni 1775, deducta ex observationibus D. de Cesaris.

| Bar. | Ther. | Dist. observ. L. S. ☉ | Dist. solstitialis L. S. ☉ |
|-------------------|----------|--------------------------|-------------------------------|
| 14. Jun. 27. 10,0 | + 19,0 | . . 21. 54. 37,3 | . . 21. 43. 49,6 |
| 16. 9,0 | . . 19,0 | 49. 31,6 | 43. 53,5 |
| 18. 7,0 | . . 18,0 | 45. 56,6 | 43. 47,2 |
| 19. 9,0 | . . 19,0 | 54. 56,6 | 43. 54,8 |
| 24. 9,0 | . . 21,5 | 45. 24,6 | 43. 49,3 |
| 26. 9,5 | . . 21,3 | 48. 33,7 | 43. 51,4 |
| 30. 10,0 | . . 21,0 | 59. 49,9 | 43. 57,8 |

| | | |
|--|-----------------|--------------------|
| 27. 9,0 . . . 19,8 . . . | Mediū arithmet. | 21. 43. 51,5 |
| Corr. ex refr. , | + | 25,4 |
| ex parall. | - | 3,3 |
| Semidiameter ☉ | + | 15. 45,7 |
| Dist. ^a solst. centri ☉ | | 21. 59. 59,3 |
| Latitudo Speculae | | 45. 27. 57,7 |
| Obliquitas ap. Eclipticae | | 23. 27. 57,7 |

Distantia a vertice limbi superioris Solis in solstitio aestivo anni 1777, deducta ex meis observationibus.

| Bar. | Ther. | Dist. observ. L. S. ☉ | Dist. solstitialis L. S. ☉ |
|--------------------------|-----------------|--------------------------|-------------------------------|
| 24 Jun. 27. 6,3 | + 16,5 | . . 21. 52. 57,5 | . . 21. 43. 42,3 |
| 25 9,0 | . . 19,0 | 50. 29,2 | 43. 47,5 |
| 26 9,3 | . . 20,0 | 48. 22,0 | 43. 49,5 |
| 27 9,0 | . . 17,0 | 45. 12,0 | 43. 43,9 |
| 28 10,5 | . . 19,0 | 44. 18,0 | 43. 45,0 |
| 29 7,5 | . . 19,0 | 43. 47,0 | 43. 44,1 |
| 30 6,0 | . . 19,0 | 43. 47,0 | 43. 49,5 |
| 31 7,5 | . . 17,5 | 43. 59,0 | 43. 42,5 |
| 1 8,5 | . . 17,0 | 45. 52,0 | 43. 41,9 |
| 2 10,5 | . . 17,0 | 47. 27,5 | 43. 43,6 |
| 3 9,3 | . . 19,0 | 49. 30,0 | 43. 47,7 |
| 4 8,0 | . . 20,0 | 54. 39,6 | 43. 46,6 |
| 5 8,5 | . . 19,3 | 57. 52,0 | 43. 47,0 |
| 27. 8,5 . . . 18,4 . . . | Mediū arithmet. | 21. 43. 45,5 | |
| Corr. ex refr. | + | 26,0 | |
| ex parall. | - | 3,2 | |

| | | |
|--|---|--------------|
| Semidiameter ☉ | + | 15. 45. 5 |
| Dist. ^a solst. centri ☉ | | 21. 59. 54,6 |
| Latitudo Speculae | | 45. 27. 57,6 |
| Obliquitas ap. Eclipticae | | 22. 28. 3,6 |

Distantia a vertice limbi superioris Solis in solstitio aetivae anni 1778, deducta ex meis observationibus.

| Bar. | Ther. | Dist. observ. L. S. ☉ | Dist. solstitialis L. S. ☉ |
|------------------|--------|--|-------------------------------|
| 14. Jun. 27. 9,5 | + 20,0 | 21. 53. 47,6 | 21. 43. 46,2 |
| 15. 9,0 | 17,2 | 51. 3,0 | 43. 43,6 |
| 18. 9,5 | 16,0 | 45. 30,0 | 43. 41,7 |
| 19. 9,5 | 17,0 | 44. 32,8 | 43. 46,4 |
| 20. 9,5 | 17,0 | 43. 53,5 | 43. 42,1 |
| 21. 9,8 | 18,5 | 43. 42,6 | 43. 42,6 |
| 22. 10,0 | 19,0 | 43. 54,1 | 43. 40,6 |
| 23. 9,6 | 20,0 | 44. 33,9 | 43. 42,5 |
| 24. 9,0 | 20,5 | 45. 38,0 | 43. 43,6 |
| 25. 9,0 | 18,5 | 47. 4,3 | 43. 41,5 |
| 26. 10,0 | 20,0 | 48. 55,3 | 43. 40,6 |
| 27. 10,0 | 21,0 | 51. 13,8 | 43. 41,4 |
| 27. 9,5 | 18,6 | Media arithmet. | 21. 43. 42,8 |
| | | Corr. ex refr. | + 25,8 |
| | | ex parall. | — 3,2 |
| | | Semidiameter ☉ | + 15. 45. 5 |
| | | Dist. ^a solst. centri ☉ | 21. 59. 51,2 |
| | | Latitudo Speculae | 45. 27. 57,6 |
| | | Obliquitas ap. Eclipticae | 23. 28. 5,8 |

Distancia a vertice limbi inferioris Solis in solstitio aestivo
anni 1780, deducta ex meis observationibus.

| Bar. | Ther. | Dist. observ. L. S. ☼ | Dist. solstitialis L. S. ☼ |
|------------------|------------------------------|--------------------------|-------------------------------|
| 15. Jun. 27. 7,5 | + 19,8 | .. 22° 21' 19",4 | .. 22° 15' 12",2 |
| 16. 7,0 | .. 17,5 | .. 19. 20 ,4 | .. 15. 15 ,2 |
| 20. 11,0 | .. 21,0 | .. 15. 18 ,9 | .. 15. 15 ,7 |
| 21. 10,5 | .. 22,0 | .. 15. 24 ,2 | .. 15. 19 ,0 |
| 22. 9,5 | .. 20,5 | .. 15. 47 ,5 | .. 15. 16 ,3 |
| 23. 10,2 | .. 19,0 | .. 16. 38 ,0 | .. 15. 15 ,8 |
| 24. 10,3 | .. 21,3 | .. 17. 53 ,1 | .. 15. 14 ,8 |
| 25. 10,5 | .. 22,0 | .. 19. 30 ,3 | .. 15. 12 ,0 |
| 26. 8,5 | .. 22,5 | .. 21. 41 ,5 | .. 15. 18 ,3 |
| 28. 10,5 | .. 19,0 | .. 27. 0 ,6 | .. 15. 12 ,3 |
| 29. 11,5 | .. 20,0 | .. 30. 18 ,9 | .. 15. 11 ,2 |
| 30. 10,5 | .. 21,0 | .. 34. 3 ,7 | .. 15. 13 ,4 |
| 27. 9,8 | .. 20,5 | .. Mediū arithmet. | 22. 15. 14 ,7 |
| | Corr. ex refr. + | .. 26 ,1 | |
| | ex parall. — | .. 3 ,2 | |
| | Semidiameter ☼ — | .. 15. 45 ,7 | |
| | Dist.° solst. centri ☼ | 21. 59. 51 ,9 | |
| | Latitudo Speculae | 45. 27. 57 ,0 | |
| | Obliquitas ap. Eclipticae .. | 23. 28. 5 ,1 | |



Distantia a vertice limbi inferioris Solis in solstitio aestivo anni 1781, deducta ex meis observationibus.

| Bar. | Ther. | Dist. observ. L. S. ☉ | Dist. solstitialis L. S. ☉ |
|------------------|---------|---------------------------------|-------------------------------|
| 12. Jun. 27. 7,5 | + 18,5 | .. 22° 30' 43",1 | .. 22° 15' 9",2 |
| 15. 6,5 | .. 19,0 | .. 21. 47 ,9 | .. 15. 7 ,0 |
| 17. 8,3 | .. 18,0 | .. 17. 57 ,3 | .. 11. 9 ,4 |
| 18. 10,0 | .. 19,0 | .. 16. 31 ,9 | .. 15. 3 ,0 |
| 25. 5,5 | .. 18,0 | .. 18. 57 ,9 | .. 15. 8 ,1 |
| 29. 10,5 | .. 21,0 | .. 29. 25 ,7 | .. 15. 9 ,9 |
| 27. 9,2 | .. 19,2 | .. Mediū arithmet. | 22. 15. 7 ,8 |
| | | Corr. ex refr. | + 26 ,0 |
| | | ex parall. | — 3 ,2 |
| | | Semidiameter ☉ | — .. 15. 45 ,7 |
| | | Dist.° solst. centri ☉ | 21. 59. 44 ,9 |
| | | Latitudo Speculae | 45. 27. 57 ,0 |
| | | Obliquitas ap. Eclipticae | 23. 28. 12 ,1 |

Distantia a vertice limbi inferioris Solis in solstitio aestivo anni 1782, deducta ex meis observationibus.

| Bar. | Ther. | Dist. observ. L. S. ☉ | Dist. solstitialis L. S. ☉ |
|-------------------|---------|--------------------------|-------------------------------|
| 14. Jun. 28. 0,5 | + 20,6 | .. 22° 25' 1",2 | .. 22° 15' 6",7 |
| 16. 0,2 | .. 21,5 | .. 20. 11 ,8 | .. 15. 9 ,3 |
| 17. 27. 11,2 | .. 22,0 | .. 18. 20 ,0 | .. 15. 6 ,5 |
| 18. 9,5 | .. 23,0 | .. 16. 53 ,1 | .. 15. 4 ,6 |
| 20. 11,5 | .. 23,0 | .. 15. 20 ,8 | .. 15. 9 ,3 |

| Bar. | Ther. | Dist. observ. L. S. ☉ | Dist. solstitialis L. S. ☉ |
|------------------------------------|---------|--------------------------|-------------------------------|
| 21. Jun. 27. 11,7 | + 23,0 | .. 22° 15' 8",7 | .. 22° 15' 7",2 |
| 22. 11,0 | .. 23,6 | .. 15. 24 ,7 | .. 15. 10 ,2 |
| 23. 11,3 | .. 22,5 | .. 16. 3 ,2 | .. 15. 9 ,7 |
| 24. 9,6 | .. 23,0 | .. 17. 11 ,0 | .. 15. 13 ,5 |
| 25. 10,3 | .. 23,0 | .. 18. 39 ,5 | .. 15. 13 ,0 |
| 26. 9,5 | .. 23,6 | .. 20. 30 ,1 | .. 15. 9 ,6 |
| 27. 9,0 | .. 24,0 | .. 22. 51 ,7 | .. 15. 13 ,2 |
| 27. 10,8 | .. 22,7 | .. Mediū arithmet. | 22. 15. 9 ,4 |
| Corr. ex refr. | .. + | .. | 26 ,0 |
| ex parall. | .. - | .. | 3 ,2 |
| Semidiameter ☉ | .. + | .. | 15. 45 ,7 |
| Dist. ^a solst. centri ☉ | .. | .. | 21. 59. 46 ,5 |
| Latitudo Speculae | .. | .. | 45. 27. 57 ,0 |
| Obliquitas ap. Eclipticae | .. | .. | 23. 38. 10 ,5 |

Altitudo limbi superioris Solis in solstitio hyemali anni 1782, deducta ex meis observationibus.

| Bar. | Ther. | Dist. observ. L. S. ☉ | Dist. solstitialis L. S. ☉ |
|------------------|--------|--------------------------|-------------------------------|
| 17. Dec. 27. 8,8 | — 0,5 | .. 21° 26' 52",1 | .. 21° 22' 46",6 |
| 18. . . 28. 0,5 | .. 0,3 | .. 25. 7 ,9 | .. 22. 46 ,4 |
| 19. 0,5 | .. 2,3 | .. 23. 53 ,7 | .. 22. 47 ,0 |
| 20. 0,2 | .. 1,0 | .. 23. 5 ,3 | .. 22. 45 ,6 |
| 21. 0,5 | + 0,6 | .. 22. 46 ,5 | .. 22. 46 ,5 |
| 22. . . 27. 8,0 | .. 2,5 | .. 22. 50 ,7 | .. 22. 49 ,8 |

| Bar. | Ther. | Dist. observ. L. S. ☉ | Dist. solstitialis L. S. ☉ |
|------------------|-------|--|-------------------------------|
| 23. Dec. 27. 9,5 | + | 1,0 . . . 21° 23' 29",8 | . . . 21° 22' 42",3 |
| 25. 7,2 | . . . | 1,7 26. 14,8 | 22. 46,3 |
| 26. 11,5 | . . . | 1,0 28. 18,1 | 22. 46,6 |
| 28. 10,5 | . . . | 2,0 33. 51,7 | 22. 50,2 |
| 27. 10,5 | . . . | 0,5 Mediū arithmet. | 21. 22. 46,7 |
| | | Corr. ex refr. | — 2. 50,2 |
| | | ex parall. | + 8,2 |
| | | Semidiameter ☉ | — 16. 17,7 |
| | | Dist. ^a solst. centri ☉ | 21. 3. 47,0 |
| | | Altitudo Æquatoris | 44. 32. 3,0 |
| | | Obliquitas ap. Eclipticæ | 23. 28. 16,0 |

Cum hoc anno 1782 cœli serenitas allatas observationes prope solstitium hyemale instituere mihi dederit, obliquitas Eclipticæ definiri etiam potest ex sola semidifferentia altitudinum solstitialium æstivæ & hyemalis, seu semidistantia observatâ tropicorum. Itaque

| | |
|--|---------------|
| Altitudo centri Solis in solstitio æstivo superius deducta | 68.° 9' 13",5 |
| Altitudo centri Solis in solstitio hyemali | 21. 3. 47,0 |
| Distantia tropicorum | 46. 56. 26,5 |
| Semissis seu obliq. ap. Eclip. 23. 28. 13,3 | |
| Correctio ex nut. | — 9 |
| Obliquitas vera | 23. 28. 4,3 |

Ex præjactis observationibus in solstitio æstivo, & supputationibus eruitur sequens tabella obliquitatis Eclipticæ.

| Obliquitas appar. Eclipticae. | Correctio ex nutatione. | Obliquitas correcta. |
|----------------------------------|----------------------------|-------------------------|
| 1772. . . 23° 27' 57",3 . . . | + 8,2 . . . | 23° 28' 5",5 |
| 1774. . . 23. 27. 54 ,9 . . . | + 8,7 . . . | 23. 88. 3 ,6 |
| 1775. . . 23. 27. 57 ,7 . . . | + 7,5 . . . | 23. 28. 5 ,2 |
| 1777. . . 23. 28. 3 ,0 . . . | + 2,9 . . . | 23. 28. 5 ,9 |
| 1778. . . 23. 28. 5 ,8 . . . | — 0,1 . . . | 23. 28. 5 ,7 |
| 1780. . . 23. 28. 5 ,1 . . . | — 5,8 . . . | 23. 27. 59 ,3 |
| 1781. . . 23. 28. 12 ,2 . . . | — 7,7 . . . | 23. 28. 4 ,3 |
| 1782. . . 23. 28. 10 ,5 . . . | — 8,5 . . . | 23. 28. 1 ,7 |

Exigua annua obliquitatis imminutio, quae sensum superat, & longe minor est quantitate erroris, cui obnoxiae sunt singulae praefatae determinationes, docet nil aliud ex iisdem concludi posse, quod ad determinationem ducat saecularis imminutionis, praeter obliquitatem Eclipticae 23° 28' 3",9 mediam inter exhibitas anteaecto decennio.

OPPOSITIO SATURNI CUM SOLE

Anni 1783

determinata ex observationibus habitis

A BARNABA ORIANI.

AD determinandam Saturni oppositionem cum Sole observationes plures, ut moris est ante & post diem 1 Julii, pro qua illa in nostris Ephemeridibus annuntiabatur; suscipere volebam Quadrante Murali, sed nebulae

densissimae, & fere continuae, quae observationibus aliis hoc anno obtulerunt, nonnisi duabus vicibus Saturnum in meridiano visibilem per id tempus reliquerunt. Itaque per duas tantum observationes oppositionem ejus cum Sole determinare licuit. Cum autem posterior observatio eadem die 1 Julii instituta fuerit, scilicet aliquot horis post momentum oppositionis, cumque error tabularum in longitudine Saturni ex hac observatione prodians idem fere sit cum illo elicitio ex observatione praecedenti instituta die 26. Junii, illas exponere non dubitavi. Observationes ita se habent:

| 1783 | Meridies verus tempore Penduli. | Nomina Siderum. | Transitus per Meridianum tempore Penduli. | Transitus tempore vero. | Transitus tempore medio. | Distantia a zenith observata. |
|---------|--|--------------------|---|-------------------------------|--------------------------------|-------------------------------------|
| Dies | H. M. S. | | H. M. S. | H. M. S. | H. M. S. | G. M. S. |
| Jun. 26 | 0. 4. 0,6 | Saturnus | 12. 23. 15,6 | 12. 19. 9,3 | 12. 21. 32,3 | 67. 55. 50 |
| 26 | | o Sagitt. | 12. 33. 29,6 | 12. 29. 23,2 | 12. 31. 46,2 | 67. 27. 20 |
| 26 | | + Sagitt. | 12. 38. 39,7 | 12. 34. 33,2 | 12. 36. 56,2 | 66. 46. 2 |
| 27 | 0. 4. 11,7 | ..... | ..... | ..... | ..... | ..... |
| Jul. 1 | 0. 0. 0,0 | Saturnus | 11. 56. 57,8 | 11. 56. 55,7 | 12. 0. 18,9 | 67. 57. 35 |
| 1 | | o Sagitt. | 12. 8. 46,4 | 12. 8. 43,8 | 12. 12. 7,4 | 67. 27. 19 |
| 1 | | + Sagitt. | 12. 13. 56,3 | 12. 13. 53,7 | 12. 17. 17,3 | 66. 45. 59 |
| 2 | 0 0 5,7 | ..... | ..... | ..... | ..... | ..... |

Ascensionem rectam & declinationem fixarum desumpti ex mediâ inter determinaciones a *Tob. Mayer* & *de la Caille* exhibitas. Applicavi ipsis correctiones, quae oriuntur ex aberratione lucis, & ex variatione obliquitatis Eclipticae ab anno 1750 ad an. 1783, quae pro ascensione recta est — 7". Correctionem vero ex nutatione oriundam omisi

rum in planeta tum in stellis fixis, nam ob locorum planæ & fixarum viciniam in utrisque aequalis est.

Ascens. rect. $\circ \rightarrow$ ad diem 1. Jul. an. 1783 = $282^{\circ} 55' 49''$

Declinatio ipsius australis. = 22. 2. 24

Ascensio recta $\ast \rightarrow$ pro eodem tempore = 284. 13. 34

Declinatio ipsius australis = 21. 20. 57.

Ex hisce habentur pro loco Saturni determinationes sequentes.

Die 26 Junii temp. vero . $12^h 19' 9''$

temp. medio $12^h 21' 32''$

Ascensio recta Saturni = $280^{\circ} 21' 56''$

Declinatio Saturni austr. = 22. 30. 56

Die 1 Julii temp. vero . . $11^h 56' 55''$

temp. medio . $12^h 0' 19''$

Ascensio recta Saturni = $279^{\circ} 58' 16''$

Declinatio Saturni austr. = 22. 32. 49

Pro iisdem temporibus obtinentur sequentes comparationes cum tabulis *Halley*.

Longitudo vera $\frac{1}{2}$ ex observ. 26 Junii = $9^{\circ} 9' 33' 52''$

Longitudo vera geoc. ex tab. *Halley* = $9. 9. 25. 47$

Differ. in longit. = $\text{---} 8' 5''$

Latitudo vera $\frac{1}{2}$ ex observ. 26 Junii = $0^{\circ} 36' 39''$ Bor.

Latitudo vera geoc. ex tab. *Halley* = $0. 36. 12$

Differ. in latit. = $\text{---} 0' 27''$

Longitudo vera $\frac{1}{2}$ ex observ. 1 Julii = $9^{\circ} 9' 11' 56''$

Longitudo vera geoc. ex tab. *Halley* = $9. 9. 3. 42$

Differ. in longit. = $\text{---} 8' 14''$

| | |
|--|---------------------------|
| Latitudo vera \mathcal{E} . ex observ. 1 Julii = | $0^{\circ} 36' 18''$ Bor. |
| Latitudo vera geoc. ex tab. <i>Halley</i> = | 0. 35. 47 |
| Differ. in longit. = | — 0' 31'' |

Oppositio Saturni cum Sole juxta observationes fieri debuit die 30 Junii temp. vero . $20^h 21' 31''$

temp. medio $20^h 24' 47''$

pro quo instanti longitudo Solis $3' 9' 14' 47''$

Longitudo geocentrica Saturni . . $9. 9. 14. 47$

Latitudo geocentrica borealis . . . $0. 36. 19$

Latitudo heliocentrica $0. 32. 39$

Errores in locis Saturni tabularum *Halley*, ut patet, sunt valde sensibiles, atque idipsum alias a pluribus Astronomis (1) animadversum est. Sed haecenus nemo Astronomorum docuit, quomodo omnino de medio tolli possint per tabulas aliquas ex perturbationibus mutuis Saturni & Jovis deducendas. D. Lambert à posteriori & per constructiones plures (2) invenit formulas, quae errores tabularum *Halley* imminuunt quidem, sed penitus non auferunt. Etenim ut consistamus in tribus Saturni oppositionibus, quas haecenus ipse observavi, haec consecutus sum.

(1) Conferatur §. 1167. *Astronomias* Clar. D. de la Lande.

(2) Vid. *Nouveaux Mémoires de l'Acad. R. de Berlin pour l'année 1779.*

| | An. 1781. | An. 1782. | An. 1783. |
|--|-----------|-----------|-----------|
| Error tab. <i>Halley</i> in longit. geoc. Saturni . . . | — 4' 0'' | — 5' 58'' | — 8' 10'' |
| Error idem cum cor- rectione <i>Lambert</i> | — 5. 35 | — 4. 58 | — 4. 4 |
| Error tab. <i>Halley</i> in longit. helioc. Saturni . | — 3. 38 | — 5. 25 | — 7. 20 |
| Error idem cum cor- rectione <i>Lambert</i> | — 5. 4 | — 4. 30 | — 3. 39 |

OBSERVATIO OPPOSITIONIS JOVIS CUM SOLE

Anni 1783.

PERACTA A CAJETANO ALLODIO.

Observationibus ad quadrantem muralem antea & post oppositionem Jovis cum Sole institutis obtinui differentias ascensionis rectae, & declinationis inter centrum planetae & stellam μ Sagittarii, cujus ascensionem rectam, & declinationem ex catalogo *D. de la Caille* erutam, in apparentem atque ad epocham observationum reduxi, scilicet.

Ascensio recta apprens μ Sagittarii . . . $270^{\circ} 12' 58'', 6$

Declinatio australis apprens 21. 6. 4, 1

Caetera elementa ex observatione & calculo subducta sunt quae sequuntur.

17. Julii . . . $12^h 11' 53'', 5$ 2. v.

Revol. siderea ad pend. 23. 55. 59, 0

Dif. asc. r. μ & μ \rightarrow + . . . 1. 59. 1, 6 = $29^{\circ} 50' 23'', 7$

| | | |
|--|-----|-------------|
| Differentia declinationis | + | 0° 2' 39" |
| Ascensio recta apparens 24 | 10° | 0. 3. 22, |
| Declinatio australis apparens | 21. | 8. 43, |
| Longitudo geocentrica apparens | 9. | 27. 50. 48, |
| Latitudo geocentrica australis apparens | 0. | 32. 14, |
| Locus ☉ apparens | 3. | 25. 7. 42, |

18. Julii.

19. Julii.

| | | |
|--------------------------|--------------------------------------|-------------------------|
| 12 ^h 7' 19",8 | Tempus ver. observ. | 12 ^h 2' 47", |
| 23. 15. 59 ,3 | Revolutio siderea . . . | 23. 55. 58. , |
| + 1. 58. 29 ,4 | Diff. ^a asc. r. 24 & μ ↗ | + 1. 57. 56 , |
| 0° 29° 42' 19",0 | Eadem in part. aequat. | 0° 29° 34' 11", |
| + 0. 4. 25 ,0 | Diff. ^a declinationis . . | + 0. 6. 7 , |
| 9. 29. 55. 17 ,6 | Asc. recta apparens 24 | 9. 27. 47. 9 , |
| 21. 10. 29 ,1 | Decl. ^o australis appar. | 21. 12. 11 , |
| 9. 27. 43. 9 ,5 | Longit. geoc. apparens | 9. 27. 35. 24 , |
| 0. 32. 27 ,9 | Latit. geoc. austr. appar. | 0. 32. 39 , |
| 3. 26. 4. 47 ,9 | Locus ☉ apparens . . | 3. 27. 1. 52 , |

20. Julii.

21. Julii.

| | | |
|---------------------------|--------------------------------------|--------------------------|
| 11 ^h 58' 15",3 | Tempus ver. observ. | 11 ^h 53' 43", |
| 23. 55. 58 ,9 | Revolutio siderea . . . | 23. 55. 58 , |
| + 1. 57. 24 ,3 | Diff. ^a asc. r. 24 & μ ↗ | + 1. 56. 51 , |
| 0° 29° 26' 1",1 | Eadem in part. aequat. | 0° 29° 17' 51", |
| + 0. 7. 47 ,8 | Diff. ^a declinationis . . | + 0. 9. 23 , |
| 9. 29. 38. 59 ,7 | Asc. recta apparens 24 | 9. 29. 30. 49 , |
| 21. 13. 51 ,9 | Decl. ^o australis appar. | 21. 15. 28 , |
| 9. 27. 27. 38 ,4 | Longit. geoc. apparens | 9. 27. 19. 52 , |
| 0. 32. 46 ,9 | Locus ☉ apparens . . | 0. 32. 51 , |
| 3. 27. 58. 59 ,1 | Latit. geoc. austr. appar. | 3. 28. 56. 7 , |

| 24. Julii. | | | 25. Julii. | |
|-----------------------------|--|--------------------------------------|------------------------------|--|
| 11 ^h 40' 12",8 | | Tempus ver. observ. | 11 ^h 35' 41",1 | |
| 23. 56. 0,1 | | Revolutio siderea . . . | 23. 56. 1,7 | |
| 1. 55. 14,6 | | Diff. ^a asc. r. 24 & μ → | 1. 54. 42,3 | |
| 0 ^o 28° 53' 29,1 | | Eadem in part. aequat. | 0 ^o 28° 45' 23",4 | |
| + 0. 14. 28,0 | | Diff. ^a declinationis . . | + 0. 16. 7,3 | |
| 9. 29. 6, 27, 7 | | Asc. recta apparens 24 | 9. 28. 58. 22,0 | |
| 21. 20. 32, 2 | | Decl. ^o australis appar. | 21. 22. 11, 4 | |
| 9. 26. 56. 39,0 | | Longit. geoc. apparens | 9. 26. 49. 1,9 | |
| 0. 33. 25, 5 | | Latit. geoc. austr. appar. | 0. 33. 33, 1 | |
| + 1. 47. 36, 6 | | Locus ☉ apparens . . | 4. 2. 44. 48, 2 | |

Adhibitis correctionibus ex aberratione & nutatione loco apparenti 24 & ☉ pro instanti observationis diei 20 Julii prodit.

| | |
|--|--|
| Locus apparens 24 | 9 ^h 27 ^m 27 ^s 38",4 |
| Aberratio | — 11,3 |
| Nutatio | — 2,5 |
| Locus verus 24 | 9. 27. 27. 24,6 |
| Locus apparens ☉ | 3. 27. 58. 59,1 |
| Aberratio | + 20,0 |
| Nutatio | — 2,5 |
| Locus verus ☉ | 9. 27. 59. 16,6 |
| Locus verus planetae | 9. 27. 27. 24,6 |
| Arcus distantiae a vera oppositio- ne | 31. 52,0 |
| Intervallum inter observationes 24 die- rum 19 & 20 | 23 ^h 55 ^m 31",5 |

| | |
|--|---------------------------|
| Motus ☉ inter eadem momenta obser- vationis | 0° 57' 6",5 |
| Motus geocentricus planetae | 7. 45 ,7 |
| Motus relativus | 1. 4 52 ,2 |
| Arcus distantiae in tempus reductus . . . | 11 ^h 45' 11",0 |
| Tempus observationis diei 20 Julii . . . | 11. 58. 15 ,5 |
| Tempus verae oppositionis | 0. 13. 4 ,5 |
| Pro quo instanti longitudo vera elioc. 24 9° 27' 31" 13",4 | |
| Longitudo vera ☉ | 3. 27. 31. 13 ,4 |
| Latitudo australis geoc. | 32. 42 ,9 |
| Longitudo elioc. 24 ex tabulis <i>Halley</i> . . . | 9. 27. 34. 0 ,2 |
| Latitudo australis geoc. | 31. 53 ,0 |
| Differentia tabularum in longitudine . . + | 2. 46 ,8 |
| Differentia tabularum in latitudine . . — | 49 ,9 |



DE ALTITUDINE MEDIA BAROMETRI ET THERMOMETRI

OPUSCULUM

FRANCISCI REGGIO .

Observationes meteorologicae ab anno 1763 in hac Specula Astronomica susceptae complectuntur altitudines barometri bis quavis die ad aequa 12 horarum intervalla observatas, & altitudines thermometri bis item in die notatas dum nempe hae minimae, dum maximae esse solent. Ex hac observationum congerie spatio annorum viginti comparata, quas publici juris fecimus superioribus annis, admodum accuratè definiti posse videntur altitudo media barometri & thermometri, quod nosse maximè confert ad dignoscendam indolem climatis Mediolanensis, & Speculae altitudinem supra libellam maris.

Altitudines medias barometri & thermometri ad singulos viginti annorum menses ordine refero: inter has medium arithmeticum suppediat altitudinem mediam respondentem singulis mensibus, & deductam ex observationibus ab anno 1763 ad initium anni 1783 institutis.



Altitudines mediae Barometri.

| Anni | Januar. | Febr. | Mart. | Aprilis | Majus | Junius |
|-------|----------|----------|----------|----------|-----------|-----------|
| | P. l. d. | P. l. d. | P. l. d. | P. l. d. | P. l. d. | P. l. d. |
| 1763 | 27. 10,8 | 27. 6,1 | 27. 9,1 | 27. 8,6 | | 27. 8,1 |
| 1764 | 9,2 | 8,8 | 9,2 | 6,8 | 27. 9,2 | 8,9 |
| 1765 | 8,9 | 7,8 | 7,3 | 8,4 | 8,2 | 9,0 |
| 1766 | 11,0 | 8,8 | 8,1 | 7,4 | 8,1 | 8,7 |
| 1767 | 7,7 | 9,5 | 7,4 | 7,7 | 8,1 | 8,9 |
| 1768 | 8,9 | 10,7 | 9,6 | 8,9 | 8,2 | 8,8 |
| 1769 | 8,0 | 6,3 | 8,9 | 7,8 | 7,8 | 8,5 |
| 1770 | 10,9 | 7,0 | 5,4 | 5,8 | 7,2 | 8,9 |
| 1771 | 10,7 | 8,8 | 5,9 | 8,1 | 9,6 | 8,3 |
| 1772 | 6,6 | 7,2 | 6,0 | 7,1 | 7,6 | 10,1 |
| 1773 | 7,6 | 8,9 | 9,5 | 7,7 | 8,0 | |
| 1774 | 6,3 | 9,0 | 8,9 | 8,3 | 7,9 | 9,0 |
| 1775 | 10,1 | 10,1 | 8,6 | 9,6 | 8,8 | 9,1 |
| 1776 | 6,3 | 7,5 | 8,6 | 8,1 | 8,0 | 8,6 |
| 1777 | 10,8 | 6,3 | 7,6 | 8,3 | 7,4 | 8,3 |
| 1778 | 7,5 | 6,9 | 6,8 | 4,8 | 8,9 | 9,2 |
| 1779 | 11,8 | 13,3 | 11,3 | 11,1 | 9,3 | 7,7 |
| 1780 | 6,8 | 7,7 | 11,2 | 6,5 | 9,4 | 9,6 |
| 1781 | 9,6 | 7,9 | 10,0 | 8,3 | 7,9 | 7,8 |
| 1782 | 8,3 | 8,9 | 7,7 | 5,5 | 8,0 | 10,4 |
| Media | 8,9 | 8,4 | 8,4 | 7,7 | 8,3 | 8,8 |

—(—)—(—)—

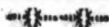
Altitudines mediae Barometri.

| Anni | Julius | August. | Sept. | Octob. | Nov. | Decem. |
|-------|----------|----------|----------|----------|----------|----------|
| | P. l. d. | P. l. d. | P. l. d. | P. l. d. | P. l. d. | P. l. d. |
| 1763 | 27. 8,6 | 27. 9,1 | 27. 7,0 | 27. 10,8 | 27. 9,1 | 27. 7,6 |
| 1764 | 8,3 | 8,1 | 9,4 | 8,2 | 7,6 | 7,1 |
| 1765 | 8,8 | 8,2 | 9,3 | 7,8 | 9,6 | 8,5 |
| 1766 | 8,2 | 8,5 | 10,5 | 8,9 | 10,2 | 8,5 |
| 1767 | 7,9 | 8,3 | ..... | ..... | ..... | 8,6 |
| 1768 | 8,1 | 8,4 | ..... | ..... | 9,8 | 10,5 |
| 1769 | 9,0 | ..... | ..... | 9,1 | 8,0 | 9,6 |
| 1770 | 9,1 | 8,3 | ..... | ..... | 7,1 | 8,6 |
| 1771 | 9,7 | 9,0 | 9,0 | 9,6 | 10,6 | 7,6 |
| 1772 | 9,0 | 9,1 | 9,0 | 10,9 | 8,8 | 9,4 |
| 1773 | 8,6 | 9,4 | 9,9 | 10,8 | 7,1 | 8,2 |
| 1774 | 9,6 | 9,5 | 7,9 | 11,2 | 6,4 | 11,1 |
| 1775 | 8,8 | 9,8 | 9,0 | 9,2 | 6,9 | 10,3 |
| 1776 | 8,8 | 9,3 | 8,3 | 10,0 | 8,7 | 9,4 |
| 1777 | 7,7 | 10,1 | 9,9 | 9,4 | 8,2 | 7,0 |
| 1778 | 9,2 | 10,1 | 8,8 | 7,4 | 9,5 | 9,8 |
| 1779 | 8,6 | 9,5 | 9,7 | 10,2 | 6,7 | 7,4 |
| 1780 | 9,3 | 9,0 | 9,1 | 8,1 | 7,4 | 5,6 |
| 1781 | 9,6 | 9,3 | 8,2 | 9,6 | 7,8 | 9,9 |
| 1782 | 9,0 | 8,2 | 9,8 | 7,4 | 7,2 | 9,0 |
| Media | 8,8 | 9,0 | 9,0 | 9,3 | 8,2 | 8,7 |



Altitudines mediae Thermometri Reomurii.

| Anni | Januar. | Febr. | Mart. | Aprilis | Majus | Junius |
|-------|---------|--------|--------|---------|---------|---------|
| | Gr. d. | Gr. d. | Gr. d. | Gr. d. | Gr. d. | Gr. d. |
| 1763 | — 0,7 | + 4,4 | + 5,8 | + 10,3 | + . . . | + 16,3 |
| 1764 | + 2,2 | 4,8 | 5,7 | 9,4 | 15,4 | 18,0 |
| 1765 | 4,4 | 1,9 | 7,0 | 10,5 | 13,0 | 17,2 |
| 1766 | — 1,9 | 1,3 | 6,6 | 10,6 | 14,1 | 18,4 |
| 1767 | 3,7 | 3,2 | 6,5 | 9,1 | 13,0 | 15,9 |
| 1768 | 0,3 | 1,6 | 4,9 | 10,4 | 13,5 | 14,9 |
| 1769 | + 2,0 | 2,4 | 5,9 | 8,4 | 13,6 | 18,1 |
| 1770 | 0,0 | 3,8 | 5,8 | 9,7 | 13,5 | 17,9 |
| 1771 | 2,3 | 2,3 | 5,8 | 8,6 | 15,1 | 16,9 |
| 1772 | 2,1 | 5,3 | 8,9 | 10,6 | 13,5 | 18,7 |
| 1773 | 2,1 | 2,4 | 5,6 | 10,0 | 13,6 | |
| 1774 | 1,0 | 2,9 | 7,1 | 10,8 | 13,6 | 17,6 |
| 1775 | 0,9 | 4,9 | 8,1 | 10,5 | 13,5 | 17,8 |
| 1776 | 0,2 | 2,8 | 7,7 | 11,0 | 12,8 | 17,2 |
| 1777 | — 1,9 | 1,4 | 7,7 | 9,8 | 16,2 | 16,3 |
| 1778 | + 0,9 | 2,9 | 4,5 | 11,5 | 14,7 | 16,8 |
| 1779 | — 3,0 | 4,8 | 6,4 | 11,1 | 15,8 | 15,7 |
| 1780 | 0,1 | 0,9 | 9,1 | 9,6 | 13,8 | 18,6 |
| 1781 | + 0,4 | 3,2 | 8,3 | 11,5 | 14,3 | 17,1 |
| 1782 | 2,7 | 0,4 | 5,7 | 9,0 | 13,0 | 12,0 |
| Media | + 0,5 | + 2,8 | + 6,8 | + 10,1 | + 14,0 | + 16,9 |



Altitudines mediae Thermometri Reaumurii.

| Anni | Julius | August. | Sept. | Octob. | Nov. | Decem. |
|-------|--------|---------|--------|--------|--------|--------|
| | Gr. d. | Gr. d. | Gr. d. | Gr. d. | Gr. d. | Gr. d. |
| 1763 | + 19,6 | + 19,3 | + 14,2 | + 9,1 | + 5,2 | + 3,1 |
| 1764 | 18,8 | 17,1 | 14,2 | 9,8 | 5,5 | 3,6 |
| 1765 | 16,3 | 16,7 | 15,2 | 10,9 | 6,0 | 1,1 |
| 1766 | 17,6 | 18,2 | 14,2 | 10,3 | 7,9 | 1,4 |
| 1767 | 19,7 | 17,7 | ..... | ..... | ..... | 1,2 |
| 1768 | 19,6 | 18,9 | ..... | ..... | 6,4 | 1,3 |
| 1769 | 18,4 | ..... | ..... | 4,6 | 7,0 | 2,7 |
| 1770 | 18,2 | 18,4 | 17,3 | ..... | ..... | 1,4 |
| 1771 | 19,6 | 18,9 | 15,8 | 10,1 | 4,7 | 4,4 |
| 1772 | 20,3 | 18,8 | 15,6 | 12,8 | 7,7 | 4,1 |
| 1773 | 17,2 | 17,1 | 16,0 | 12,4 | 6,1 | 3,9 |
| 1774 | 18,8 | 19,7 | 15,0 | 9,7 | 4,8 | — 0,6 |
| 1775 | 19,7 | 18,3 | 15,0 | 9,0 | 5,6 | + 1,2 |
| 1776 | 19,4 | 18,8 | 14,6 | 10,9 | 5,4 | 0,9 |
| 1777 | 17,7 | 18,9 | 15,5 | 11,2 | 7,0 | 0,1 |
| 1778 | 19,9 | 19,2 | 14,5 | 10,7 | 6,4 | 3,8 |
| 1779 | 19,1 | 18,2 | 16,9 | 12,6 | 5,6 | 3,9 |
| 1780 | 19,7 | 18,5 | 14,8 | 12,6 | 5,6 | 1,0 |
| 1781 | 20,7 | 18,8 | 15,7 | 9,9 | 3,8 | 3,5 |
| 1782 | 21,0 | 19,3 | 15,6 | 9,0 | 3,3 | 1,5 |
| Media | + 19,1 | + 18,4 | + 15,3 | + 10,3 | + 5,9 | + 2,2 |

—()—()—

Medium arithmeticum inter altitudines medias ad calcem columnae cujusque mensis notatas dabit altitudinem mediam barometri pollicum 27. lin. 8,625, & altitudinem mediam thermometri graduum \mp 10,2. Methodus haec, qua altitudinem mediam barometri definimus sese valde accuratam commendat. Etenim ex medio arithmetico inter observationes circiter 1200 ad aequa temporis intervalla institutas concluditur altitudo media cuique mensi respondens: ex medio demum inter altitudines medias singulis mensibus respondentes eruta tandem est altitudo media intra annum, quae complectitur vicissitudines omnes, & variationes prodeuntes ex diversis anni tempestatibus atque etiam ex diversa dilatatione * mercurii intra tubum ob variam aeris circumambientis temperiem.

* (*Nota*). Ut ex dato numero altitudinum barometri media altitudo erui rite possit vel etiam ut illae inter se conferri possint, supponendus est pro singulis constans quidam gradus caloris mercurii intra tubum: hunc *Clar. de Luc* (*) statuit ad gradus 10 thermometri *Reaumurii*, cui peculiarem apponit scalam diviso intervallo inter puncta ebullientis aquae, & punctum congelationis in partes 96, quarum 84 supra punctum assumptum pro constanti gradu caloris, & 12 infra. Variatio gradus unius in hac scala supra, vel infra id punctum denotat correctionem $\frac{1}{16}$ lineae subtractivam vel additivam faciendam altitudini barometri

(*) *Recherches sur les modifications de l'Atmosph.* T. II. Part. III. pag. 25.

*Ex media altitudine Barometri determinatur altitudo Speculae
Astronomicae Mediolanensis supra maris libellam.*

Data pressio columnae aeris supra stagnantem mercurium sustinet ad datam altitudinem intra tubum barometri mercurii columnam. Ea pressio est in ratione ponderis columnae aeris: & si eadem aeris densitas supponatur erit etiam ea pressio in ratione altitudinis ejusdem columnae. Hinc si in duobus terrae locis diversa sit caeteris paribus altitudo barometri, diversa item erit altitudo atmosphaerae singulis locis superincumbentis. Clar. *de Luc* (*) experimentis & observationibus barometricis edè devenit, ut regulam, quam Clar.ⁿⁱ *Scheuchzer & Bouguer* attigerant, simpliciore & generalem magis reddiderit pro assignando cuilibet differentiae altitudinis barometri duobus in locis

pollicum 27. Ubi major vel minor fuerit altitudo barometri correctio praedicta major vel minor est juxta con-
cinnam regulam ab eodem Clar. *de Luc* traditam loco citato. Hujusmodi correctio singulis observationibus barometri a me adhibita non est; id tamen accuracioni altitudini mediae deductae exposita methodo minimè officit. Etenim altitudo media thermometri a me item superius definita vix ab ea differt, quae indicat constantem assumptum gradum caloris: quare compensatio quaedam facta jure censenda est inter correctiones positivas & negativas, dum mediū arithmeticum inter altitudines barometri observatas eruimus.

(*) Recherches sur les modifications de l'atmosphera. T. II. Part. IV.

observatae respondentem differentiam altitudinis eorundem supra maris libellam : hanc admodum accuratè exhiberi statuit in partibus millesimis haexapedae Parisiensis per differentiam logarithmorum altitudinum barometri observatarum, & in lineas pollicis Parisiensis reductarum. Generalis haec regula supponit eam atmosphaerae densitatem, quam fert aeris temperies, thermometro sub dio constituto notante gradus $16 \frac{1}{4}$ in locis ubi observationes instituuntur : major vel minor aeris temperies inducit necessitatem correctionis adhibendae differentiae altitudinis locorum juxta praedictam regulam supputatae.

Laudatus *de Luc* invenit allatam correctionem respondentem aberrationi unius gradus ab assignata aeris temperie se habere ad altitudinem, vel differentiam altitudinis locorum supra maris libellam inventam ope logarithmorum ut 1 ad 215. Ut facilius vero evadat ea correctio, spatium in thermometro punctis extremis aquae ebullientis, & congelationis interjectum, quod juxta *Reaumurium* dividitur in partes 80, dividit ipse in ratione 215 ad 500 seu in partes 186, quarum 147 supra, & 39 infra punctum denotans constantem aeris temperiem, quam supponit allata regula, nuncupato zero hoc puncto. Quique gradus variationis altitudinis thermometri in nova hac scala supra vel infra zero valet $\frac{1}{500}$, seu $\frac{2}{2000}$ totius differentiae altitudinis duorum locorum.

His praemissis, ex definita altitudine media barometri & thermometri Mediolani concludi posse videtur saltem quadam approximatione altitudo Speculae nostrae astrono-

micae supra libellam maris. Ex observationibus Cl. *Toaldi* altitudo media barometri Patavii est pollicum 28^l 1,4. Locus quo observationes barometricae ibidem instituuntur extollitur supra maris Adriatici libellam pedes 55, quibus respondet differentia altitudinis mercurii in barometro 0,71 addenda altitudini observatae Patavii, ut concludatur altitudo media ad libellam maris Adriatici 28^l 2^l, 11, seu 338^l , 11.

Itraque log. altitudinis mediae barometri ad oram maris Veneti 2. 5290580.

Log. 332^l , 625 altitudinis mediae barom.

Mediolani 2. 5219484

Diff.^a logarithmorum . . . 71,096

seu differentia altitudinis locorum supra maris libellam in hexapedis expressa, supposita ea aeris temperie, de qua supra. Altitudo media thermometri Mediolani superius ex observationibus definita est + 10,2 juxta scalam *Reaumurii*, cui in ea *D. de Luc* respondent — 15,3. Venetiae eandem pene obtinent elevationem poli ac Mediolanum. Juxta regulam a Cl. *Mayero* (vol. I. opera inedita), traditam. Differentia altitudinis mediae thermometri in locis positis ad eandem latitudinem, sed ad diversam altitudinem supra maris libellam sequitur rationem differentiae hujus altitudinis, & aequat partem centesimam hujusmet differentiae in hexapedis expressae, qua parte centesima altitudo media thermometri major in locis humilioribus minor in sublimioribus, foret inde gradus calor medius Venetiis + 10,9 juxta scalam *Reaumurii*, qui valet in eā *D. de Luc* — 13,5. Correctio hinc ex aberratione altitudinis ther-

mometri a statuta aeris temperie adhibenda inventae differentiae altitudinis locorum supra maris libellam est — 2,047 hexap. ; atque adeo ea differentia reducitur ad hanc 69,049 hexap.

Summum Speculae fastigium extollitur supra locum , ubi habitae sunt observationes barometricae hexapedas 9,666 , quae si inventis hexapedis 69,049 addantur , asequimur altitudinem Speculae nostrae supra libellam maris Adriatici hexapedarum 78,715 , seu pedum Parisiensium 472,29 , & ulnarum Mediolanensium 257,61 .

OBSERVATIONES PLANETARUM

An. 1782 & 1783

HABITAE A FRANCISCO REGGIO .

Observationes Planetarum , quas expono , institui ad sectorem aequatorialem pedum quinque . Observatis per idem tempus stellis prope parallelum planetae versantibus obtinui usitata methodo differentias ascensionis rectae , & declinationis , quas referam correctas ab effectu differentiae refractionis , ubi res ferat .

OPPOSITIO SATURNI ANNI 1782.

Determinatae sunt differentiae ascensionis rectae & declinationis Saturnum inter & stellam θ Ophiuci die 19. Junii , diebus vero 20 , 21 , 22 ejusdem mensis planetam inter & stellam θ Sagittarii .

Positio apprens eorundem siderum est , quae sequitur .
Positio media deprompta est ex catalogis *Bradley* , *Mayeri* ,
& *Gaillii* .

Ascensio recta app. . . . Decl.° bor. app.

° Ophiuci . . . 257° 10' 31'',5 . . . 24° 45' 54'',0

° Sagittarii . . . 282. 54. 58 ,9 . . . 22. 2. 27 ,8

19. Jun. ° Ophiuci.

20. Jun. ° Sagitt.

| | | |
|---------------------------|------------------------------|---------------------------|
| 12 ^h 8' 15'',0 | Tempus ver. observ. | 9 ^h 55' 16'',0 |
| 23. 56. 4 ,9 | Revolutio siderea . . . | 23. 56. 5 ,3 |
| + 0. 42. 0 ,1 | Diff.° asc. rect. ♄ & stell. | — 1. 0. 57 ,1 |
| 10° 31' 46'',3 | Eadem in part. aequat. | 15° 16' 44'',5 |
| — 2. 26. 12 ,5 | Diff.° declinationis . . | + 0. 17. 8 ,6 |
| 267. 42. 17 ,8 | Asc. recta apprens ♄ | 267. 38. 14 ,4 |
| 22. 19. 17 ,7 | Decl.° australis appar. | 22. 19. 46 ,4 |
| 8° 27. 52. 36 ,3 | Longitudo apprens . . | 8° 27. 48. 52 ,0 |
| 1. 7. 29 ,6 | Latitudo bor. appar. | 1. 7. 23 ,5 |

21. Jun. ° Sagitt.

22. Jun. ° Sagitt.

| | | |
|---------------------------|------------------------------|---------------------------|
| 9 ^h 43' 40'',5 | Tempus ver. observ. | 9 ^h 50' 34'',5 |
| 23. 56. 5 ,0 | Revolutio siderea . . . | 23. 56. 5 ,0 |
| — 1. 1. 16 ,3 | Diff.° asc. rect. ♄ & stell. | — 1. 1. 35 ,5 |
| 15° 21' 33'',0 | Eadem in part. aequat. | 15° 26' 24'',3 |
| + 0. 17. 9 ,3 | Diff.° declinationis . . | + 0. 17. 13 ,8 |
| 267. 33. 25 ,9 | Asc. recta apprens ♄ | 267. 28. 34 ,5 |
| 22. 19. 47 ,1 | Decl.° australis appar. | 22. 19. 51 ,6 |
| 8° 27. 44. 26 ,0 | Longitudo apprens . . | 8° 27. 39. 55 ,4 |
| 1. 7. 19 ,1 | Latitudo bor. appar. | 1. 7. 14 ,4 |

Ex praemissis elementis observatione comparatis supputatur locus, & instans oppositionis cum Sole.

19. Jun. long. ap. ♄ 8° 27' 52" 36", 3 .. ☉ 2° 28' 29' 1", 0

Aberratio — 13 , 3 .. + 20 , 0

Nutatio . . + 3 , 8 .. + 3 , 8

Longit. vera . ♄ 8. 27. 52. 26 , 8 .. 2. 28. 39. 24 , 8

☉ 2. 28. 39. 24 , 8 ..

Distancia ♄ ab op. 46. 58 ad occidentem.

Motus diurnus ♄ 4' 22", 8

☉ 57. 14 , 3

Motus relativus 61. 37 , 1

Instituta analogia prodeunt 18^h 34' 8", 4 subducenda ab instanti dato observationis diei 19. Junii 12^h 8' 15" t. v. atque dein tempus oppositionis verae Planetæ cum Sole incidit in diem 18. Junii 17^h 34' 6", 6, pro quo instanti

locus verus elioc. & geoc. Saturni . . . 8° 27' 55" 27", 5

Locus verus elioc. ex tab. Halleij 8. 27. 49. 40 , 2

Diff.^a ab observ. — 5. 47 , 3

Latitudo geoc. bor. . . . — 1. 7. 30 , 5

Eadem ex tabulis . . . 1. 7. 4 , 6

Diff.^a ab observ. — 25 , 9

OPPOSITIO SATURNI ANNI 1783.

☉ Observatae a me sunt differentiae ascensionis rectae, & declinationis Saturni a stellis σ & τ Sagittarii, quarum positio apparens ad epocham observationum ea est, quam refero, deprompta vera ex catal. Clar. de la Caille.

Ascensio recta app. . . . Decl.° austr. app.

o Sagittarii . . 282° 55' 58",3 . . . 22° 2' 37",5
 r 284. 13. 41,8 . . . 21. 21. 10,8

Ascensionem rectam & declinationem planetae deduxi
 ex positione utriusque stellae.

30. Junii.

1. Julii.

| | | |
|---------------------------|--|---------------------------|
| 11 ^h 29' 51",0 | Tempus ver. observ. | 11 ^h 21' 46",0 |
| 23. 56. 4,0 | Revolutio sidera . . . | 23. 56. 4,5 |
| — 11. 29. 4,0 | Diff. ^a asc. r. \bar{r} & o \rightarrow | — 11. 48,0 |
| 2° 52' 49",3 | Eadem in part. aequat. | 2° 57' 29",9 |
| ..... | Diff. ^a \bar{r} \rightarrow | — 16. 57,6 |
| ..... | Eadem in part. aequat. | 4. 15. 5,7 |
| + 30. 9,0 | Diff. ^a declin. \bar{r} \bar{r} o \rightarrow | + 30. 27,0 |
| ..... | Diff. ^a | + 1. 11. 47,0 |
| 280. 3. 12,6 | Asc. recta apparens .. | 279. 58. 29,0 |
| 22. 32. 37,5 | Decl.° australis appar. | 22. 33. 1,0 |
| 279. 16. 43,0 | Longitudo apparens .. | 279. 12. 23,0 |
| 0. 36. 9,4 | Latitudo boreal. appar. | 0. 36. 5,6 |

3. Julii.

4. Julii.

| | | |
|---------------------------|--|--------------------------|
| 11 ^h 35' 39",0 | Tempus ver. observ. | 11 ^h 29. 56,4 |
| 23. 56. 5,9 | Revolutio sidera . . . | 23. 56. 5,0 |
| — 12. 26,31 | Diff. ^a asc. r. \bar{r} & o \rightarrow | — 12. 45,0 |
| 3° 7' 2",2 | Eadem in part. aequat. | 3° 11. 46,4 |
| — 17. 36,9 | Diff. ^a \bar{r} \rightarrow | — 17. 54,4 |
| 4. 24. 43,2 | Eadem in part. aequat. | 4. 29. 10,0 |
| + 31. 9,0 | Diff. ^a declin. \bar{r} \bar{r} o \rightarrow | + 0. 31. 9,0 |
| + 1. 12. 29,0 | Diff. ^a | + 1. 12. 50,0 |

| | | |
|----------------|-------------------------|----------------|
| 279° 48' 57",3 | Afc. recta apparens.. | 279° 44' 17",7 |
| 22. 33. 42 ,6 | Decl.° australis appar. | 22. 34. 3 ,5 |
| 279. 3. 30 ,2 | Longitudo apparens.. | 278. 59. 10 ,8 |
| o. 36. 0 ,0 | Latitudo boreal. appar. | o. 35. 57 ,0 |

Die 30 mensis Junii tempore exhibitae observationis
 loc. ap. Planetae 9° 9' 16" 43",0. Solis 3^h 8^m 53' 19",2
 Equat. ex aber. — 13 ,0 . . . + 20 ,0
 ex nut. . — 2 ,4 . . . — 2 ,4

Locus verus . 9. 9. 16. 27 ,6 3. 8. 53. 36 ,8
 Distantia Saturni ab oppositione 22' 50",8 ad orientem.
 Motus Solis intra diem solarem

verum 57. 14 ,0

Planetae retrogradi . . . 4. 22 ,0

Motus relativus 61. 36 ,0

Arcui 22' 50",8 distantiae ab oppositione emetiendo post observationem diei 30 Junii respondent 8^h 53' 56" addenda tempori vero observationis 11^h 29' 51", & assequimur instans verae oppositionis 30 Jun. 20^h 23' 47", quo tempore longitudo vera Solis 3^h 9^m 14' 50",2.

Longit. elioc. vera $\bar{\Gamma}$ 9° 9' 14' 52",2

Eadem ex tab. *Halley* . . . 9. 9. 6. 34 ,0

Diff.^a tab. ab observ. . . . — o. 8. 18 ,2


Latit. geoc. bor. ex observ. . . 0. 36. 8 ,0

Eadem ex tab. *Halley* . . . 0. 35. 54 ,8

Diff.^a tab. ab observ. . . . — 13 ,2



OPPOSITIO JOVIS ANNI 1783.

 Observaciones \mathcal{J} collatae cum respondentibus stellae γ Sagittarii, cujus positio ex catalogo D. de la Caille supputata pro epoca diei 20 Julii 1783, reducta est in apparentem.

γ \nearrow asc. r. ap. $284^{\circ} 13' 43'', 8$.. Decl. $^{\circ}$ austr. ap. $21^{\circ} 21' 10'', 7$

17. Julii.

| | |
|--------------------------|--|
| $11^h 42' 25'', 0$ | Tempus ver. observ. |
| 23. 56. 4, 0 | Revolutio siderea . . . |
| + 1. 3. 8, 0 | Diff. ^a asc. rect. \mathcal{J} .. |
| $15^{\circ} 49' 35'', 5$ | Eadem in part. aequat. |
| — 12. 25, 0 | Diff. ^a declinationis . . |
| 300. 3. 19, 3 | Asc. recta apparens \mathcal{J} |
| 21. 8. 45, 7 | Decl. ^o australis appar. |
| 297. 50. 53, 7 | Longit. geoc. apparens |
| 0. 32. 14, 0 | Latit. austr. geoc. appar. |

19. Julii.

| | |
|--------------------------|--|
| $11^h 33' 24'', 0$ | Tempus ver. observ. |
| 23. 56. 3, 0 | Revolutio siderea . . . |
| + 1. 2. 4, 0 | Diff. ^a asc. rect. \mathcal{J} .. |
| $15^{\circ} 33' 32'', 9$ | Eadem in part. aequat. |
| — 9. 0, 0 | Diff. ^a declinationis . . |
| 299. 47. 1, 7 | Asc. recta apparens \mathcal{J} |
| 21. 12. 10, 7 | Decl. ^o australis appar. |
| 297. 35. 33, 7 | Longit. geoc. apparens |
| 0. 32. 32, 7 | Latit. austr. geoc. appar. |

18. Julii.

| | |
|--------------------------|--|
| $11^h 37' 53'', 0$ | Tempus ver. observ. |
| 23. 56. 3, 0 | Revolutio siderea . . . |
| + 1. 2. 36, 0 | Diff. ^a asc. rect. \mathcal{J} .. |
| $15^{\circ} 41' 34'', 2$ | Eadem in part. aequat. |
| — 10. 39, 5 | Diff. ^a declinationis . . |
| 299. 55. 18, 2 | Asc. recta apparens \mathcal{J} |
| 21. 10. 31, 2 | Decl. ^o australis appar. |
| 297. 43. 13, 6 | Longit. geoc. apparens |
| 0. 32. 24, 1 | Latit. austr. geoc. appar. |

20. Julii.

| | |
|--------------------------|--|
| $11^h 28' 55'', 0$ | Tempus ver. observ. |
| 23. 56. 3, 0 | Revolutio siderea . . . |
| + 1. 1. 31, 7 | Diff. ^a asc. rect. \mathcal{J} .. |
| $15^{\circ} 25' 27'', 1$ | Eadem in part. aequat. |
| — 7. 19, 5 | Diff. ^a declinationis . . |
| 299. 39. 10, 9 | Asc. recta apparens \mathcal{J} |
| 21. 13. 51, 2 | Decl. ^o australis appar. |
| 297. 27. 50, 2 | Longit. geoc. apparens |
| 0. 32. 43, 4 | Latit. austr. geoc. appar. |

| | | | |
|--|---------------------------|--------------------|------|
| Die 20 Julii tempore exhibitio | | | |
| Long. ap. | 24 9° 27' 50",2 | ☉ 3° 27' 57" 51",4 | |
| Æquat. ex aber. — | 11,0 | + | 20,0 |
| ex nut. — | 2,4 | — | 2,4 |

Long. vera 9. 27. 27. 36,8 3. 27. 58. 9,0

Distantia 24 ab oppositione 30' 32",2 ad occidentem.

Motus Solis intra diem solarem verum 57' 17",0 planetæ retrogradi 7' 46",6, hinc motus relativus Solis & 24 65' 3",6.

Arcus distantiae 24 ab oppositione emenso ante observationem diei 20 Julii respondent 11^h 16', subducenda a tempore observationis 11^h 28' 55", ut prodeat tempus verum oppositionis 20. Jul. 0^h 12' 55". Locus verus Solis eodem instanti 9^h 27° 31' 13",2 . . . Jovis 3° 27° 31' 13",2

Idem ex tab. *Halley* 3. 27. 34. 0,6

Diff.^a tab. ab observ. + 2. 47,4

Latitudo austr. geoc. 0. 32. 38,0

Eadem ex tab. *Halley* 0. 31. 53,0

Diff.^a tab. ab observ. — 45,0

OBSERVATIONES MERCURII PROPE MAXIMAM EJUS DIGRESSIONEM A SOLE

mense Junio An. 1782.

Positiones Mercurii definiti ex differentiis ascensionis rectæ & declinationis inter planetam & stellas δ & μ Herculis, ϵ Bootis, Arcturum, & Aldebaran, quarum

ascensionem rectam, & declinationem apparentes subdo.

| | |
|---|----------------|
| ♄ Herculis. Ascens. r. app. 10 Jun. 1782. | 256° 48' 53",4 |
| Decl.° bor. app. | 25. 6. 26 ,9 |
| μ Herculis. Ascens. r. app. 6 Jun. . . . | 264. 29. 42 ,0 |
| Decl.° bor. app. | 27. 51. 51 ,1 |
| ε Bootis . . Ascens. r. app. 6 Jun. . . . | 218. 52. 41 ,4 |
| Decl.° bor. app. | 28. 0. 3 ,5 |
| Arcturi . . . Ascens. r. app. 29 Jun. . . . | 211. 26. 16 ,9 |
| Decl.° bor. app. | 20. 19. 13 ,3 |
| Aldebaran . Asc. r. app. 2. Jul. | 65. 51. 41 ,5 |
| Decl.° bor. app. | 16. 3. 38 ,8 |

Positiones mediae seu verae pro notatis epocis depromptae sunt ex catalogo *Clar. de la Caille*. Quod ad positionem Arcturi spectat, habita est ratio ejus peculiaris motus annui, qui collatis positionibus ejusdem stellae traditis a *Clar.^{ms} Monnier* ad init. an. 1742, *de la Caille* an. 1750, *Mayero* 1756 cum exhibitis a *Clar. Maskelinio* ad an. 1770 (1) prodit juxta declinationem — 2,22, juxta ascensionem rectam — 1,28. *Clar. Mayerus* (2) collatis observationibus *Roemerii* cum suis invenit eundem motum juxta declinationem — 2,3, juxta ascensionem rectam — 1,42. Ipse motu arithmetice medio inter utramque determinationem usus sum in superius tradita positione Arcturi.

Clar. de la Lande ex collatione observationum *Flamstedii* & *de la Caille* motum peculiarem annum Arcturi statuit juxta declinationem — 2,23.

(1) Tables for computing the apparent places of the fixed stars.

(2) *Tobiae Mayeri Opera inedita* Vol. I.

| 3. Jun. δ Herc. | | | 4. Jun. δ Herc. | |
|------------------------|------------|----------|---|----------------------|
| 0^h | $16' 54''$ | 0 | Tempus ver. observ. | $1^h 13' 33''$ |
| 23. | 56. | 10, 4 | Revolutio siderea . . . | 23. 56. 9, 6 |
| —11. | 18. | 27, 0 | Diff. ^a asc. r. φ & stell. | —11. 9. 34, 0 |
| 170° | $3' 51''$ | 8 | Eadem in part. aequat. | $167^\circ 50' 20''$ |
| + | 0. | 15. 1, 3 | Diff. ^a declinationis . . | + 0. 20. 21, 0 |
| 86. | 43. | 1, 3 | Asc. recta apparens φ | 88. 56. 32, 3 |
| 25. | 21. | 28, 1 | Decl. ^o bor. appar. . . | 25. 26. 47, 8 |

| 4. Jun. δ Herc. | | | 6. Jun. δ Herc. | |
|------------------------|------------|-----------|---|----------------------|
| 23^h | $52' 42''$ | 0 | Tempus ver. observ. | $0^h 1' 25''$ |
| 23. | 56. | 9, 6 | Revolutio siderea . . . | 23. 56. 9, 1 |
| —11. | 1. | 41, 4 | Diff. ^a asc. r. φ & stell. | —10. 53. 27, 9 |
| 165° | $51' 53''$ | 3 | Eadem in part. aequat. | $163^\circ 48' 14''$ |
| + | 0. | 22. 43, 0 | Diff. ^a declinationis . . | + 0. 23. 17, 0 |
| 90. | 54. | 59, 8 | Asc. recta apparens φ | 92. 58. 38, 8 |
| 25. | 29. | 11, 8 | Decl. ^o bor. appar. . . | 25. 29. 43, 8 |

| 6. Jun. μ Herc. | | | 8. Jun. ϵ Bootis. | |
|---------------------|------------|-----------|---|----------------------|
| 23^h | $12' 38''$ | 0 | Tempus ver. observ. | $2^h 46' 22''$ |
| 23. | 56. | 9, 1 | Revolutio siderea . . . | 23. 56. 9, 4 |
| —11. | 17. | 27, 6 | Diff. ^a asc. r. φ & stell. | — 8. 6. 32, 0 |
| 169° | $49' 7''$ | 7 | Eadem in part. aequat. | $121^\circ 57' 35''$ |
| — | 2. | 22. 47, 0 | Diff. ^a declinationis . . | — 2. 37. 5, 0 |
| 94. | 40. | 34, 2 | Asc. recta apparens φ | 96. 54. 45, 8 |
| 25. | 29. | 4, 1 | Decl. ^o bor. appar. . . | 25. 22. 58, 5 |

9. Jun. δ Herc.

| | |
|-------------------------|---|
| $0^h 9' 4'', 0$ | Tempus ver. observ. |
| 23. 56. 7 ,5 | Revolutio siderea . . . |
| —10. 29. 56 ,3 | Diff. ^a asc. r. φ & stell. |
| $157^\circ 54' 34'', 2$ | Eadem in part. aequat. |
| + 0. 11. 0 ,5 | Diff. ^a declinationis . . . |
| 98. 52. 19 ,1 | Asc. recta apparens φ |
| 25. 17. 27 ,4 | Decl. ^o bor. appar. . . |

10. Jun. δ Herc.

| | |
|-----------------------|--|
| $0^h 8' 58'', 5$ | |
| 23. 56. 6 ,9 | |
| —10. 22. 31 ,4 | |
| $156^\circ 3' 6'', 5$ | |
| + 0. 2. 59 ,2 | |
| 100. 43. 46 ,5 | |
| 25. 9. 26 ,0 | |

10. Jun. δ Herc.

| | |
|-------------------------|---|
| $23^h 47' 7'', 0$ | Tempus ver. observ. |
| 23. 56. 6 ,9 | Revolutio siderea . . . |
| —10. 15. 25 ,0 | Diff. ^a asc. r. φ & stell. |
| $154^\circ 16' 13'', 4$ | Eadem in part. aequat. |
| — 0. 6. 33 ,5 | Diff. ^a declinationis . . . |
| 102. 30. 40 ,0 | Asc. recta apparens φ |
| 24. 59. 53 ,4 | Decl. ^o bor. appar. . . |

14. Jun. δ Herc.

| | |
|------------------------|--|
| $0^h 37' 56'', 0$ | |
| 23. 56. 6 ,2 | |
| — 9. 54. 48 ,0 | |
| $149^\circ 6' 14'', 4$ | |
| — 0. 46. 4 ,0 | |
| 107. 40. 39 ,0 | |
| 24. 20. 22 ,8 | |

14. Jun. δ Herc.

| | |
|-------------------------|---|
| $23^h 35' 8'', 0$ | Tempus ver. observ. |
| 23. 56. 6 ,2 | Revolutio siderea . . . |
| — 9. 48. 43 ,6 | Diff. ^a asc. r. φ & stell. |
| $147^\circ 34' 52'', 0$ | Eadem in part. aequat. |
| — 1. 1. 10 ,5 | Diff. ^a declinationis . . . |
| 109. 12. 1 ,4 | Asc. recta apparens φ |
| 24. 5. 16 ,3 | Decl. ^o bor. appar. . . |

15. Jun. δ Herc.

| | |
|------------------------|--|
| $23^h 20' 36'', 0$ | |
| 23. 56. 5 ,6 | |
| — 9. 42. 39 ,0 | |
| $146^\circ 3' 33'', 1$ | |
| — 1. 18. 8 ,0 | |
| 110. 43. 20 ,3 | |
| 23. 48. 18 ,8 | |

16. Jun. δ Herc.

| | |
|---------------------------|---|
| 23 ^h 22' 59",0 | Tempus ver. observ. |
| 23. 56. 5,6 | Revolutio siderea . . . |
| — 9. 36. 43,5 | Diff. ^a asc. r. φ & stell. |
| 144° 34' 24",6 | Eadem in part. aequat. |
| — 1. 36. 4,0 | Diff. ^a declinationis . . . |
| 112. 12. 29,2 | Asc. recta apparens φ |
| 23. 30. 22,8 | Decl. ^o bor. appar. . . |

18. Jun. δ Herc.

| | |
|---------------------------|--|
| 23 ^h 26' 15",6 | |
| 23. 56. 4,6 | |
| — 9. 25. 33,0 | |
| 141° 46' 24",6 | |
| — 2. 15. 15,5 | |
| 115. 0. 29,4 | |
| 22. 51. 11,3 | |

19. Jun. δ Herc.

| | |
|--------------------------|---|
| 23 ^h 30' 49,5 | Tempus ver. observ. |
| 23. 56. 4,9 | Revolutio siderea . . . |
| — 9. 20. 19,9 | Diff. ^a asc. r. φ & stell. |
| 180° 27' 40",6 | Eadem in part. aequat. |
| — 2. 36. 3,0 | Diff. ^a declinationis . . . |
| 196. 19. 12,8 | Asc. recta apparens φ |
| 22. 30. 23,8 | Decl. ^o bor. appar. . . |

20. Jun. δ Herc.

| | |
|---------------------------|--|
| 23 ^h 33' 28",0 | |
| 23. 56. 5,3 | |
| — 9. 15. 19,0 | |
| 139° 12' 26",6 | |
| — 2. 57. 36,0 | |
| 117. 34. 27,6 | |
| 22. 8. 50,8 | |

23. Jun. Arctur.

| | |
|-------------------------|---|
| 0 ^h 31' 6",3 | Tempus ver. observ. |
| 23. 56. 4,8 | Revolutio siderea . . . |
| — 6. 6. 0,6 | Diff. ^a asc. r. φ & stell. |
| 91° 45' 7",9 | Eadem in part. aequat. |
| + 1. 4. 9,0 | Diff. ^a declinationis . . . |
| 119. 41. 9,0 | Asc. recta apparens φ |
| 31. 23. 22,3 | Decl. ^o bor. appar. . . |

24. Jun. Arctur.

| | |
|-------------------------|--|
| 0 ^h 31' 6",9 | |
| 23. 56. 4,6 | |
| — 6. 11. 44,8 | |
| 90° 41' 0",6 | |
| + 0. 41. 20,5 | |
| 120. 45. 16,5 | |
| 21. 0. 23,8 | |

| | | |
|------------------------------|------------------------|------------------------------|
| 3 ^s 27° 27' 45",0 | Longitudo apparens .. | 3 ^s 28° 30' 53",7 |
| 0. 42. 29 ,8 | Latitudo bor. apparens | 0. 32. 8 ,0 |
| 3. 27. 28. 0 ,5 | Longitudo vera | 3. 28. 31. 9 ,2 |
| 0. 42. 30 ,0 | Latitudo bor. vera . . | 0. 32. 8 ,3 |
| 3. 2. 0. 52 ,3 | Longit. vera ☉ . . . | 3. 2. 58. 3 ,9 |
| 25. 28. 8 ,2 | Elongatio vera ☿ a ☉ | 25. 33. 5 ,3 |

25. Jun. Arctur.

| | |
|------------------------------|--|
| 0 ^h 31' 6",0 | Tempus ver. observ. |
| 23. 56. 4 ,6 | Revolutio fiderea . . . |
| — 5. 57. 44 ,6 | Diff. ^a asc. r. ☿ & stell. |
| 89° 40' 48",9 | Eadem in part. aequat. |
| + 0. 18. 25 ,0 | Diff. ^a declinationis . . . |
| 121. 45. 28 ,2 | Asc. recta apparens ☿ |
| 20. 37. 38 ,3 | Decl. ^o bor. appar. . . |
| 3 ^s 29. 30. 41 ,2 | Longitudo apparens .. |
| 0. 21. 20 ,0 | Latitudo bor. apparens |
| 3. 29. 30. 56 ,7 | Longitudo vera |
| 0. 21. 20 ,2 | Latitudo bor. vera . . |
| 3. 3. 55. 15 ,2 | Longitudo vera ☉ . . . |
| 25. 35. 42 ,5 | Elongatio vera ☿ a ☉ |

26. Jun. Arctur.

| | |
|-----------------------------|--|
| 0 ^h 30' 43",0 | Tempus ver. observ. |
| 23. 56. 3 ,4 | Revolutio fiderea . . . |
| — 5. 53. 59 ,0 | Diff. ^a asc. r. ☿ & stell. |
| 88° 44' 20",0 | Eadem in part. aequat. |
| — 0. 4. 52 ,5 | Diff. ^a declinationis . . . |
| 122. 41. 56 ,9 | Asc. recta apparens ☿ |
| 20. 14. 20 ,4 | Decl. ^o bor. appar. . . |
| 4 ^s 0. 27. 21 ,1 | Longitudo apparens .. |
| 0. 9. 48 ,8 | Latitudo bor. apparens |
| 4. 0. 27. 36 ,6 | Longitudo vera |
| 0. 9. 49 ,2 | Latitudo bor. vera . . |
| 3. 4. 52. 24 ,7 | Longitudo vera ☉ . . . |
| 25. 35. 11 ,9 | Elongatio vera ☿ a ☉ |



| 29. Jun. Arct. | | | 30. Jun. | |
|--------------------|--------|--|--------------------|--------|
| 0 ^h 53' | 0'',0 | Tempus ver. observ. | 1 ^h 15' | 53'',0 |
| 23. 56. | 4 ,1 | Revolutio fiderea . . . | 23. 56. | 4 ,0 |
| — 5. 44. | 14 ,0 | Diff. ^a asc. r. ☿ & stell. | — 3. 41. | 29 ,0 |
| 86° 17' | 38'',0 | Eadem in part. aequat. | 85° 36' | 16'',6 |
| — 1. 14. | 16 ,5 | Diff. ^a declinationis . . . | — 1. 37. | 21 ,0 |
| 125. 8. | 38 ,9 | Asc. recta apparens ☿ | 125. 50. | 0 ,3 |
| 19. 4. | 56 ,8 | Decl. ^o bor. appar. . . | 18. 41. | 52 ,3 |

| 1. Jul. Arct. | | | 2. Jul. Aldebar. | |
|--------------------|-------|---------------------------------------|--------------------|--------|
| 1 ^h 14' | 13 ,3 | Tempus ver. observ. | 4 ^h 12' | 10'',6 |
| 23. 56. | 4 ,6 | Revolutio fiderea . . . | 23. 56. | 5 ,2 |
| — 5. 39. | 4 ,8 | Diff. ^a asc. r. ☿ & stell. | — 19. 52. | 17 ,8 |
| 85° 0' | 5'',8 | Eadem in part. aequat. | 298° 53' | 11'',0 |
| — 2. 0. | 38 ,3 | Diff. ^a declinationis . . | + 1. 54. | 59 ,0 |
| 126. 26. | 11 ,1 | Asc. recta apparens ☿ | 126. 58. | 30 ,5 |
| 18. 18. | 35 ,0 | Decl. ^o bor. appar. . . | 17. 58. | 37 ,8 |

Interpolatis elongationibus veris Mercurii a Sole dierum 23, 24, 25, 26 supputavi instans maximae elongationis, quod incidit in diem 25 Junii 8^h 40' 43'',0 temporis medii pro pro instanti elongatio maxima

. 25° 35' 53'',2. latit. bor. geoc. 0° 18' 5'',8

Eadem supput.

ex tab. D. de

la Lande . . 25. 35. 18 ,1. 0. 17. 52 ,8

Diff.^a tabular. — 35 ,1. — 13 ,0

OBSERVATIONES NOVI PLANETAE
a D. HERSCHEL reperti .

ET

TABULAE ASTRONOMICAE

ad ejus locum heliocentricum & geocentricum
pro quolibet dato tempore supputandum

EX BARNABA ORIANI.

Planeta *D. Herschel*, quem *Cometam* diximus in exponendis observationibus anno 1781 institutis, ex quo a nobis observari coepit usque ad hanc diem angulum circiter undecim graduum circa Solem descripsit; quare elementa ejus orbitae feliciori successu investigari poterunt, quam a nobis factum sit in Ephemeridibus ad ann. 1783, ubi angulus circa Solem descriptus ex observationibus tunc habitis nonnisi ad duos gradus cum dimidio pertingebat. Ibi enim rudiori calculo & uno calami ductu conjunctionem Planetæ cum Sole ad diem 19 Junii ann. 1781 horâ 12.^a erui, neque locum Planetæ a deviatione ex lucis aberratione ortâ correxi, cum institutum meum non esset veram Planetæ orbitam exhibere ex dato ejus arcu duorum graduum, sed tantum hypothese[m] circularis orbitæ adsignare, quæ ad sensum repræsentaret observationes tunc habitas. Modo verò elementa ejus orbitæ ad veritatem proximius accedentia omni quo potui studio ex observationibus numero pluribus collegi, quæ infra sum expositurus. Ut autem ordine progrediamur, primo describam

observationes omnes, quas haecenus institui; deinde elementa orbitae exhibebo; postremo tradam tabulas inde constructas, & illarum usum, aliquo allato exemplo, ostendam.

1. Observationes Planetae, quas habui a die 12 Maji ann. 1781 usque ad diem 22 Octobris ejusdem anni, recensentur in nostris Ephemeridibus ad an. 1783 pag. 242 & 243; ceterae vero usque ad hanc diem hic reperientur. Observandi methodus in omnibus fuit eadem; ascensionem rectam, & declinationem Planetae obtinui per ipsius comparisonem cum eadem stellula sextae magnitudinis, quae in Catalogo fixarum Tob. *Mayeri* invenitur, & cujus ascensio recta ad diem 20 Augusti ann. 1781 assignata a nobis fuit (pag. 240 citat. Ephemer.) $91^{\circ} 24' 4''$, & declinatio borealis $23^{\circ} 40' 10''$.

2. Ex observata ascensione recta & declinatione Planetae supputavi ejus longitudinem & latitudinem geocentricam posita obliquitate eclipticae medià ad an. 1781 = $23^{\circ} 28' 3''$, & ad an. 1783 = $23^{\circ} 28' 2''$, hoc enim modo omittuntur correctiones a nutatione ortae sive in loco fixae sive in loco Planetae, cum ob utriusque vicinitatem differentiae nutationis in ascensione recta & declinatione nullae sint.

3. Quod vero spectat ad lucis aberrationem; haec in loco fixae computata non fuit; quare oportebit ut longitudinibus omnibus geocentricis Planetae applicetur quantitas ex aberratione lucis in longitudinem fixae orta, per quam reducentur loca data Planetae ad apparentia. Ipsa vero quantitas applicanda cum debitis signis additionis vel

subtractionis, pro data Solis longitudine reperitur in sequenti Tabula (§. 4.).

4. Ut vero longitudes Planetæ apparentes reducantur ad veras, sumi debet in sequenti Tabula, pro datâ elongatione Planetæ a Sole, quantitas aberrationis. Haec autem Tabula ex inventis distantis Planetæ a Tellure, & illius motu diurno geocentrico supputata est. Latitudo Planetæ nulla correctione indiget, cum ipsius motus in latitudinem lentissimus sit, & aberratio lucis in latitudine datæ fixæ nulla sit.

*Tabula ad corrigendam aberrationem lucis
in longitudinibus Planetæ.*

| Argum. Longit. Solis. | | | Aberr. lucis in longit. fixæ. | Argum. Elongatio Planetæ a Sole. | | Aberr. lucis in longit. Planetæ. |
|--------------------------|----|------|--|---|-----|---|
| S. | G. | S. | S. | S. | Gr. | S. |
| 0 | 0 | VI | 0 | 0 | 0 | + 24 |
| — | 10 | + | 2,8 | 0 | 10 | + 23 |
| | 20 | | 6,2 | 0 | 20 | + 21 |
| I | 0 | VII | 9,4 | I | 0 | + 19 |
| — | 10 | + | 12,4 | | 10 | + 17 |
| | 20 | | 14,9 | | 20 | + 15 |
| II | 0 | VIII | 17,0 | II | 0 | + 13 |
| — | 10 | + | 18,6 | | 10 | + 10 |
| | 20 | | 19,6 | | 20 | + 7 |
| III | 0 | IX | 20,0 | III | 0 | + 3 |
| — | 10 | + | 19,9 | | 10 | 0 |
| | 20 | | 19,0 | | 20 | — 3 |

| Argum. Longit. Solis. | | | Aberr. lucis in longit. fixae. | Argum. Elongatio Planetae a Sole. | Aberr. lucis in longit. Planetae. |
|--------------------------|----|----|---|--|--|
| S. | G. | S. | S. | S. Gr. | S. |
| IV | 0 | X | 17,6 | IV 0 | — 6 |
| — | 10 | + | 15,6 | 10 | — 9 |
| | 29 | | 13,2 | 20 | — 11 |
| V | 0 | XI | 10,4 | V 0 | — 12 |
| — | 10 | + | 7,3 | 10 | — 14 |
| | 20 | | 4,0 | 20 | — 15 |
| | | | | VI 0 | — 16 |

5. Sit, exempli causâ, reducenda ad veram longitudinem geocentricam observata die 4 Septembris ann. 1783, scilicet $3^{\circ} 11^{\circ} 6' 0''$. Pro hoc tempore est longitudo Solis $5^{\circ} 12^{\circ} 21'$. Quare aberratio in longitudinem fixae applicanda longitudini Planetae erit $\approx - 6''$, & cum elongatio Planetae a Sole sit $5^{\circ} 12^{\circ} 21' - 3^{\circ} 11^{\circ} 6' = 2^{\circ} 1^{\circ} 15'$, erit aberratio Planetae $\approx + 13''$, eritque propterea longitudo vera geocentrica Planetae pro dato tempore $\approx 3^{\circ} 11^{\circ} 6' 0'' - 6'' + 13'' = 3^{\circ} 11^{\circ} 6' 7''$.

6. Similes reductiones fieri debent in omnibus sequentibus longitudinibus Planetae atque etiam in illis quae recensentur in nostris Ephemeridibus ad an. 1783 pag. 242 & 243, antequam comparentur loca observata cum illis, quae ex elementis orbitae infra exponendis eruuntur. Observationes ipsae ita se habent.



| 1781 | Tempus ver. | | | Tempus med. | | | Longitudo Planetæ geoc. observata. | | | | Latitudo Planetæ borealis. | | | |
|-----------|-------------|-----|----|-------------|-----|----|------------------------------------|-----|-----|----|----------------------------|-----|----|----|
| | Dies. | H. | M. | S. | H. | M. | S. | S. | G. | M. | S. | G. | M. | S. |
| Octob. 22 | 18. | 18. | 55 | 18. | 3. | 23 | 3. | 2. | 49. | 0 | 0. | 14. | 13 | |
| 31 | 10. | 15. | 0 | 9. | 58. | 46 | 3. | 2. | 40. | 1 | 0. | 14. | 22 | |
| Nov. 10 | 10. | 21. | 55 | 10. | 6. | 11 | 3. | 2. | 25. | 58 | 0. | 14. | 33 | |
| 11 | 8. | 21. | 20 | 8. | 5. | 43 | 3. | 2. | 24. | 26 | 0. | 14. | 34 | |
| 12 | 8. | 15. | 17 | 7. | 59. | 48 | 3. | 2. | 22. | 45 | 0. | 14. | 35 | |
| 13 | 8. | 18. | 7 | 8. | 2. | 47 | 3. | 2. | 20. | 53 | 0. | 14. | 36 | |
| 16 | 8. | 36. | 32 | 8. | 21. | 46 | 3. | 2. | 15. | 27 | 0. | 14. | 40 | |
| 19 | 9. | 33. | 2 | 9. | 18. | 57 | 3. | 2. | 9. | 32 | 0. | 14. | 43 | |
| 20 | 8. | 4. | 25 | 7. | 50. | 34 | 3. | 2. | 7. | 36 | 0. | 14. | 44 | |
| 22 | 7. | 59. | 57 | 7. | 46. | 38 | 3. | 2. | 3. | 27 | 0. | 14. | 47 | |
| 28 | 9. | 8. | 12 | 8. | 56. | 50 | 3. | 1. | 50. | 23 | 0. | 14. | 56 | |
| Dec. 2 | 8. | 2. | 52 | 7. | 53. | 0 | 3. | 1. | 40. | 42 | 0. | 15. | 4 | |
| 4 | 8. | 17. | 35 | 8. | 8. | 31 | 3. | 1. | 36. | 13 | 0. | 15. | 5 | |
| 13 | 9. | 56. | 22 | 9. | 51. | 26 | 3. | 1. | 13. | 41 | 0. | 15. | 5 | |
| 14 | 7. | 15. | 14 | 7. | 10. | 45 | 3. | 1. | 11. | 24 | 0. | 15. | 5 | |
| 21 | 6. | 12. | 55 | 6. | 11. | 53 | 3. | 0. | 53. | 31 | 0. | 15. | 9 | |
| 27 | 6. | 8. | 24 | 6. | 10. | 21 | 3. | 0. | 38. | 2 | 0. | 15. | 13 | |
| 29 | 6. | 44. | 33 | 6. | 47. | 29 | 3. | 0. | 32. | 50 | 0. | 15. | 14 | |
| 1782 | | | | | | | | | | | | | | |
| Januar. 3 | 11. | 48. | 10 | 11. | 53. | 33 | 3. | 0. | 19. | 30 | 0. | 15. | 15 | |
| 8 | 10. | 26. | 41 | 10. | 34. | 13 | 3. | 0. | 9. | 33 | 0. | 15. | 16 | |
| 12 | 6. | 14. | 32 | 6. | 23. | 36 | 2. | 29. | 58. | 31 | 0. | 15. | 17 | |
| 13 | 6. | 48. | 41 | 6. | 58. | 8 | 2. | 29. | 56. | 1 | 0. | 15. | 17 | |
| 14 | 5. | 5. | 3 | 5. | 14. | 50 | 2. | 29. | 53. | 57 | 0. | 15. | 17 | |
| 15 | 5. | 39. | 37 | 5. | 49. | 46 | 2. | 29. | 38. | 32 | 0. | 15. | 16 | |
| 17 | 7. | 16. | 26 | 7. | 27. | 16 | 2. | 29. | 43. | 7 | 0. | 15. | 16 | |
| 18 | 5. | 1. | 41 | 5. | 12. | 49 | 2. | 29. | 45. | 5 | 0. | 15. | 16 | |
| 20 | 5. | 34. | 17 | 5. | 46. | 0 | 2. | 29. | 40. | 44 | 0. | 15. | 16 | |

| 1782 | Tempus ver. | | | Tempus med. | | | Longitudo Planetæ geoc. observata. | | | | Latitudo Planetæ borealis. | | | |
|---------|-------------|----|-----|-------------|----|-----|------------------------------------|----|-----|-----|----------------------------|----|-----|----|
| | Dies. | H. | M. | S. | H. | M. | S. | S. | G. | M. | S. | G. | M. | S. |
| Januar. | 22 | 5. | 8. | 39 | 5. | 20. | 55 | 2. | 29. | 36. | 43 | 0. | 15. | 16 |
| | 24 | 6. | 17. | 54 | 6. | 30. | 39 | 2. | 29. | 32. | 36 | 0. | 15. | 16 |
| | 27 | 5. | 13. | 48 | 5. | 27. | 11 | 2. | 29. | 26. | 57 | 0. | 15. | 15 |
| | 28 | 6. | 34. | 41 | 6. | 48. | 14 | 2. | 29. | 25. | 5 | 0. | 15. | 15 |
| Febr. | 3 | 5. | 18. | 33 | 5. | 32. | 54 | 2. | 29. | 15. | 6 | 0. | 15. | 15 |
| | 4 | 5. | 20. | 55 | 5. | 35. | 21 | 2. | 29. | 13. | 23 | 0. | 15. | 16 |
| | 10 | 5. | 30. | 27 | 5. | 45. | 8 | 2. | 29. | 5. | 10 | 0. | 15. | 16 |
| | 13 | 5. | 31. | 14 | 5. | 45. | 52 | 2. | 29. | 1. | 35 | 0. | 15. | 16 |
| | 14 | 5. | 27. | 28 | 5. | 42. | 3 | 2. | 29. | 0. | 24 | 0. | 15. | 16 |
| | 15 | 5. | 30. | 43 | 5. | 45. | 15 | 2. | 28. | 59. | 25 | 0. | 15. | 16 |
| | 17 | 5. | 31. | 28 | 5. | 45. | 51 | 2. | 28. | 57. | 29 | 0. | 15. | 16 |
| | 18 | 7. | 33. | 5 | 7. | 47. | 22 | 2. | 28. | 56. | 32 | 0. | 15. | 16 |
| | 19 | 6. | 35. | 5 | 6. | 49. | 16 | 2. | 28. | 55. | 44 | 0. | 15. | 16 |
| | 21 | 7. | 19. | 19 | 7. | 33. | 15 | 2. | 28. | 54. | 19 | 0. | 15. | 16 |
| | 26 | 8. | 19. | 17 | 8. | 32. | 27 | 2. | 28. | 51. | 34 | 0. | 15. | 16 |
| Mart. | 27 | 5. | 45. | 8 | 5. | 58. | 7 | 2. | 28. | 51. | 9 | 0. | 15. | 15 |
| | 4 | 5. | 52. | 44 | 6. | 4. | 39 | 2. | 28. | 49. | 54 | 0. | 15. | 15 |
| | 5 | 6. | 7. | 28 | 6. | 19. | 9 | 2. | 28. | 49. | 48 | 0. | 15. | 15 |
| | 6 | 6. | 9. | 47 | 6. | 21. | 13 | 2. | 28. | 49. | 47 | 0. | 15. | 15 |
| | 8 | 6. | 30. | 28 | 6. | 41. | 26 | 2. | 28. | 49. | 46 | 0. | 15. | 15 |
| | 9 | 5. | 59. | 44 | 6. | 10. | 24 | 2. | 28. | 50. | 3 | 0. | 15. | 15 |
| | 10 | 8. | 6. | 37 | 8. | 17. | 0 | 2. | 28. | 50. | 8 | 0. | 15. | 14 |
| | 11 | 6. | 9. | 45 | 6. | 19. | 53 | 2. | 28. | 50. | 26 | 0. | 15. | 14 |
| | 13 | 6. | 2. | 51 | 6. | 12. | 26 | 2. | 28. | 51. | 1 | 0. | 15. | 13 |
| | 14 | 6. | 0. | 35 | 6. | 9. | 53 | 2. | 28. | 51. | 28 | 0. | 15. | 13 |
| | 17 | 6. | 6. | 54 | 6. | 15. | 19 | 2. | 28. | 52. | 58 | 0. | 15. | 12 |
| | 26 | 7. | 16. | 33 | 7. | 22. | 12 | 2. | 29. | 0. | 21 | 0. | 15. | 8 |
| | 27 | 6. | 40. | 6 | 6. | 45. | 26 | 2. | 29. | 1. | 31 | 0. | 15. | 8 |
| April. | 5 | 7. | 32. | 47 | 7. | 35. | 22 | 2. | 29. | 13. | 34 | 0. | 15. | 5 |

| 1782 | Tempus ver. | | | Tempus med. | | | Longitudo Planetae geoc. observata. | | | Latitudo Planetae borealis. | | | | |
|---------|----------------|-----|-----|----------------|-----|-----|---|----|-----|-----------------------------------|----|-----|-----|----|
| | Dies. | H. | M. | S. | H. | M. | S. | S. | G. | M. | S. | G. | M. | S. |
| April. | 19 | 8. | 12. | 28 | 8. | 11. | 18 | 2. | 29. | 39. | 49 | 0. | 15. | 4 |
| | 21 | 7. | 59. | 8 | 7. | 57. | 33 | 2. | 29. | 44. | 10 | 0. | 15. | 4 |
| | 30 | 8. | 35. | 29 | 8. | 32. | 24 | 3. | 0. | 6. | 12 | 0. | 15. | 3 |
| Maj. | 2 | 8. | 2. | 53 | 7. | 59. | 33 | 3. | 0. | 11. | 37 | 0. | 15. | 3 |
| | 7 | 7. | 48. | 42 | 7. | 44. | 55 | 3. | 0. | 25. | 23 | 0. | 15. | 3 |
| | 10 | 8. | 24. | 35 | 8. | 20. | 38 | 3. | 0. | 34. | 13 | 0. | 15. | 4 |
| Jul. | 17 | 8. | 1. | 32 | 7. | 57. | 34 | 3. | 0. | 55. | 22 | 0. | 15. | 4 |
| | 20 | 8. | 2. | 45 | 7. | 58. | 55 | 3. | 1. | 4. | 45 | 0. | 15. | 5 |
| | 27 | 8. | 32. | 32 | 8. | 29. | 17 | 3. | 1. | 27. | 43 | 0. | 15. | 6 |
| | 28 | 8. | 37. | 20 | 8. | 34. | 17 | 3. | 1. | 31. | 11 | 0. | 15. | 6 |
| | 19 | 15. | 11. | 58 | 15. | 17. | 0 | 3. | 4. | 35. | 51 | 0. | 15. | 31 |
| 21 | 15. | 28. | 0 | 15. | 33. | 58 | 3. | 4. | 42. | 38 | 0. | 15. | 34 | |
| August. | 23 | 15. | 15. | 53 | 15. | 21. | 53 | 3. | 4. | 49. | 22 | 0. | 15. | 38 |
| | 25 | 15. | 19. | 36 | 15. | 25. | 39 | 3. | 4. | 55. | 56 | 0. | 15. | 43 |
| | 27 | 15. | 52. | 42 | 15. | 58. | 44 | 3. | 5. | 2. | 29 | 0. | 15. | 45 |
| | 31 | 16. | 1. | 35 | 16. | 7. | 29 | 5. | 5. | 15. | 12 | 0. | 15. | 48 |
| | 3 | 16. | 15. | 43 | 16. | 21. | 24 | 3. | 5. | 24. | 36 | 0. | 15. | 50 |
| Sept. | 26 | 13. | 27. | 0 | 13. | 18. | 0 | 3. | 7. | 16. | 16 | 0. | 16. | 53 |
| Octob. | 4 | 17. | 9. | 0 | 16. | 57. | 25 | 3. | 7. | 21. | 53 | 0. | 16. | 58 |
| Nov. | 22 | 8. | 4. | 3 | 7. | 50. | 41 | 3. | 6. | 41. | 5 | 0. | 18. | 10 |
| | 28 | 8. | 9. | 21 | 7. | 57. | 53 | 3. | 6. | 29. | 9 | 0. | 18. | 19 |
| Dec. | 17 | 6. | 26. | 57 | 6. | 23. | 47 | 3. | 5. | 44. | 0 | 0. | 18. | 38 |
| | 18 | 7. | 35. | 22 | 7. | 32. | 43 | 3. | 5. | 41. | 21 | 0. | 18. | 38 |
| | 19 | 7. | 32. | 21 | 7. | 30. | 12 | 3. | 5. | 38. | 46 | 0. | 18. | 39 |
| | 20 | 11. | 11. | 33 | 11. | 10. | 0 | 3. | 5. | 35. | 56 | 0. | 18. | 40 |
| | 22 | 10. | 1. | 55 | 10. | 1. | 19 | 3. | 5. | 30. | 46 | 0. | 18. | 41 |
| | 24 | 6. | 53. | 12 | 6. | 53. | 31 | 3. | 5. | 25. | 50 | 0. | 18. | 43 |
| | 25 | 6. | 44. | 8 | 6. | 44. | 57 | 3. | 5. | 23. | 20 | 0. | 18. | 43 |
| | 26 | 9. | 58. | 6 | 9. | 59. | 30 | 3. | 5. | 20. | 21 | 0. | 18. | 44 |

| 1782 | | Tempus ver. | | | Tempus med. | | | Longitudo Planetæ geoc. observata. | | | Latitudo Planetæ borealis. | | | |
|---------|----|-------------|-----|----|-------------|-----|----|------------------------------------|-----|-----|----------------------------|----|-----|----|
| Dies. | | H. | M. | S. | H. | M. | S. | S. | G. | M. | S. | G. | M. | S. |
| Dec. | 27 | 6. | 11. | 3 | 6. | 12. | 52 | 3. | 5. | 18. | 6 | 0. | 18. | 44 |
| | 28 | 6. | 32. | 47 | 6. | 35. | 5 | 3. | 5. | 15. | 26 | 0. | 18. | 45 |
| 1783 | | | | | | | | | | | | | | |
| Januar. | 9 | 11. | 57. | 22 | 12. | 5. | 15 | 3. | 4. | 44. | 19 | 0. | 18. | 50 |
| | 20 | 7. | 2. | 49 | 7. | 14. | 30 | 3. | 4. | 18. | 50 | 0. | 18. | 53 |
| Febr. | 24 | 7. | 27. | 18 | 7. | 40. | 2 | 3. | 4. | 10. | 3 | 0. | 18. | 45 |
| | 1 | 7. | 15. | 57 | 7. | 30. | 3 | 3. | 3. | 54. | 15 | 0. | 18. | 40 |
| | 5 | 7. | 46. | 43 | 8. | 1. | 12 | 3. | 3. | 47. | 6 | 0. | 18. | 40 |
| Mart. | 18 | 7. | 0. | 38 | 7. | 14. | 55 | 3. | 3. | 29. | 7 | 0. | 18. | 40 |
| | 2 | 7. | 44. | 34 | 7. | 56. | 53 | 3. | 3. | 19. | 42 | 0. | 18. | 39 |
| April. | 30 | 8. | 36. | 36 | 8. | 41. | 3 | 3. | 3. | 28. | 39 | 0. | 18. | 28 |
| | 3 | 8. | 42. | 35 | 8. | 45. | 49 | 3. | 3. | 32. | 9 | 0. | 18. | 27 |
| | 8 | 8. | 12. | 45 | 8. | 14. | 37 | 3. | 3. | 38. | 51 | 0. | 18. | 20 |
| Maj. | 19 | 8. | 24. | 54 | 8. | 23. | 51 | 3. | 3. | 58. | 9 | 0. | 18. | 19 |
| | 1 | 8. | 35. | 10 | 8. | 32. | 0 | 3. | 4. | 24. | 54 | 0. | 18. | 19 |
| | 4 | 8. | 8. | 48 | 8. | 5. | 18 | 3. | 4. | 32. | 34 | 0. | 28. | 19 |
| August. | 13 | 8. | 18. | 37 | 8. | 13. | 37 | 3. | 4. | 57. | 2 | 0. | 18. | 20 |
| | 21 | 8. | 46. | 26 | 8. | 42. | 37 | 3. | 5. | 21. | 31 | 0. | 18. | 20 |
| | 7 | 16. | 16. | 54 | 16. | 22. | 12 | 3. | 9. | 51. | 44 | 0. | 19. | 0 |
| Sept. | 9 | 14. | 57. | 24 | 15. | 2. | 26 | 3. | 9. | 57. | 46 | 0. | 19. | 4 |
| | 4 | 15. | 7. | 11 | 15. | 4. | 8 | 3. | 11. | 6. | 0 | 0. | 19. | 35 |

7. Ex hisce observationibus tres eliciuntur longitudines heliocentricæ Planetæ, scilicet prima quando fuit in oppositione cum Sole die 21 Decembris ann. 1781, secunda quando fuit in conjunctione cum Sole die 24 Junii an. 1782, & tertia quando fuit iterum in oppositione die 26 Decem-

bris an. 1782. Porro cum eiusmodi longitudines insignem praestare possint utilitatem ad inveniendam Planetæ orbitam, illas statim determinabimus.

8. Ad diem 21 Decembris ann. 1781 18^h 12' temp. med. longitudinem Solis inveni ex Tab. *Tob. Mayer* 9° 0' 51' 22'', quæ correctæ ab effectu aberrationis lucis fit 9° 0' 51' 42''. Pro eodem tempore ex observatione diei 21 Decembris, atque ex motu diurno geocentrico observato = — 2' 35'' fit longitudo Planetæ = 3° 0' 52' 14''; ex comparatione vero observationum dierum 14 & 27 Decembris, itemque dierum 13 & 29, colligitur pro dato tempore Planetæ longitudo = 3° 0' 52' 12''. Quare statui poterit pro longitudine Planetæ 3° 0' 52' 13''. Correctio aberrationis ex superiori tabula (§. 4.) desumenda in longitudine stellæ fixæ est = + 20'', & in longitudine Planetæ = — 16''. Fier ergo

Longitudo vera Planetæ 3° 0' 52' 17''

Longitudo Solis 9. 0. 51. 42

Differentia 6. 0. 0. 35

Motus diurnus Solis est = 61' 10'', motus diurnus Planetæ = — 2' 35'', & motus relativus = 63' 45'' = 3825''.

Itaque oppositio Planetæ cum Sole fieri debuit die 21 Decembris 18^h 12' + 35. 24^h sive 18^h 25' temp. med. Pro quo

3825

instanti invenitur.

Longitudo Planetæ heliocentr. 3° 0' 52' 15''

Latitudo borealis geocentrica 0. 15. 9

9. Simili prorsus modo reperitur instans alterius opposi-

tionis ann. 1782, scilicet 26 Decemb. $9^h 33'$ temp. med.;
pro quo tempore habetur

Longitudo Planetæ heliocentr. $3^\circ 5' 20'' 28''$

Latitudo borealis geocentrica . . . $0. 18. 44$

10. Ad inveniendam longitudinem Planetæ tempore
conjunctionis cum Solę ann. 1782, primum rudiori cal-
culo colligitur eam evenisse die 24 Junii horâ $3\frac{1}{2}$. Ut
autem accuratius illa determinetur, accipiuntur longitudines
Planetæ ex observationibus institutis aequali temporis in-
tervallo ante & post conjunctionem, atque ex illarum
semisummâ obtinebitur longitudo Planetæ pro die 24 Ju-
nii $3\frac{1}{2}^h$, ex qua cum longitudine Solis comparatâ colli-
getur satis accurate instans conjunctionis.

An. 1782. Maji $27^d 15^h 30'$ Longitudo $3^\circ 1' 28' 43''$

Julii 21. 15. 30 3. 4. 42. 38

Summa 6. 6. 11. 21

Junii $24^d 3^h 30'$ 3. 3. 5. 40

Maji 20. 15. 30 3. 1. 5. 45

Julii 28. 15. 30 3. 5. 5. 39

Summa 6. 6. 11. 24

Junii $24^d 3^h 30'$ 3. 3. 5. 42

Maji 17. 15. 30 3. 0. 56. 20

Julii 31. 15. 30 3. 5. 15. 8

Summa 6. 6. 11. 28

Junii $24^d 3^h 30'$ 3. 3. 5. 44

Hinc mediâ assumpta trium determinationum, fiet longi-
tudo pro die 24 Junii $3^h 30'$ temp. med. = $3^\circ 3' 5' 42''$.

| | |
|--|-------------------------|
| Aberratio lucis pro fixa (§. 4.) . . . | — 20'' |
| Aberratio pro Planeta | + 24 |
| Longitudo vera Planetæ | 3° 3' 5' 46'' |
| Pro dato tempore longitudo Solis . . | <u>3. 3. 5. 5</u> |
| | Differentia o. o. o. 41 |

Per interpolationem invenitur motus diurnus geocentrius Planetæ ad diem 24 Junii = + 3' 38'', motus diurnus Solis = 57' 12'', motus relativus = 53' 34'' = 3214''. Quare tempus conjunctionis Planetæ cum Sole eruetur 24 Junii 3^h 30' + $\frac{41 \cdot 24^h}{3214}$ = 3^h 48' temp. med. ; pro quo instanti

Longitudo Planetæ helioc. . = 3° 3' 5' 48''

Latitudo borealis geocentrica = o. 15. 16

11. Eodem modo ex observationibus Planetæ institutis an. 1781 collegi instans conjunctionis Planetæ cum Sole ad eundem annum , 19 Junii 5^h 52' temp. medii , atque erat pro eodem tempore

Longitudo Planetæ helioc. = 2° 28° 38' 21''

Latitudo borealis geocentr. = o. 11. 51

12. Conjunctionem Planetæ cum Sole ad hunc an. 1783 eruere non præstat , cum ob continuas nebulas , observationes pauciores haberi potuerint mensibus Maji & Julii , quam iisdem mensibus duorum præcedentium annorum , & propterea inaequalitas motus apparentis Planetæ , & Solis in computum ducenda esset , si momentum conjunctionis inde determinare vellemus.

13. Habemus itaque quatuor longitudes heliocentricas

Planetae, quae pro datis temporibus ita progrediuntur.

I. 1781. Jun. 19^d 5^h 52'. Longit.helioc. 2° 28' 38" 21"

II. 1781. Dec. 21. 18. 25 3. 6. 52. 15

III. 1782. Jun. 24. 3. 48 3. 3. 5. 48

IV. 1782. Dec. 26. 9. 32 3. 5. 20. 28

Intervallo temporis inter determinationem

I. & II. 185^d 12^h 33' prodit diff.longit. = 2° 13' 54"

III. & IV. 185. 5. 44 = 2. 14. 40

Hinc sequitur Planetam aequalibus temporis intervallis arcus orbitae inaequales percurriffe, seu aequabilem non habere velocitatem, ejusque motum non in circulo, sed in ellipsi parum excentrica fieri debere, atque ab Aphelio jam discessisse & ad Perihelium properare, cum ejus velocitas continue augeatur.

14. Verumtamen si motum ejus tamquam aequabilem spectarem, atque ex determinationibus II. & IV. tempus periodicum cruere vellemus, haberetur analogia.

Differentia longitudinum, demtà prae-

cess. aequin. = 4° 27' 22"

Ad intervallum temporis inter utram-

que = 369^d 13^h 7'

Ut = 360°

Ad tempus periodicum = 29862^{dier.}

sive 81,755^{an.}. Et radius orbitae = $(81,755)^{\frac{2}{3}}$ = 18,84
posita distantia medià Telluris a Sole . . . = 1.

15. Quamvis haec elementa imparia sint ad motum Planetae repraesentandum, inservire tamen possunt satis accurate ad invenieñdam longitudinem nodi, & inclinationem

orbitae ad eclipticam. Etenim si relictis fractionibus assumatur

$$\text{Distantia Planetæ a Sole} \dots \dots \dots = 19$$

$$\text{Distantia Telluris a Sole} \dots \dots \dots = 1$$

$$\text{erit distantia Telluris a Planeta in oppositione} = 18$$

$$\text{in conjunctione} = 20$$

Invenietur ergo primum latitudo Planetæ heliocentrica,

erit enim in oppositione

$$\text{tang. Latit. helioc.} = \frac{18}{19} \text{ tang. Latit. geoc.}$$

& in conjunctione

$$\text{tang. Latit. helioc.} = \frac{20}{19} \text{ tang. Latit. geoc.}$$

Fit autem pro singulis quatuor observationibus supra (§§. 8 & seqq.) adnotatis latitudo heliocentrica Planetæ borealis

$$\text{I) 1781. 19. Junii } 0^{\circ} 12' 28''$$

$$\text{II) 1781. 21. Dec. o. } 14. 21$$

$$\text{III) 1782. 24. Junii o. } 16. 4$$

$$\text{IV) 1782. 26. Dec. o. } 17. 45$$

Si dicantur duae quaelibet latitudines heliocentr. B' , B .

Diff. inter duas respondententes longitudines fiat $= K$

invenietur primo angulus r ita, ut sit

$$\text{tang. } r = \frac{\text{tang. } \frac{K}{2} \sin. (B' + B)}{\sin. (B' - B)}$$

utque inde obtinebitur differentia inter longitudinem nodi

& longitudinem Planetæ respondentem latitudini majori B' ,

$$\text{quæ erit} = r + \frac{K}{2}.$$

Demum inclinatio orbitæ habebitur ex formula

$$\text{tang. inclin.} = \frac{\text{tang. } B'}{\sin. (r + \frac{K}{2})}.$$

Ex determinationibus II & IV, quae sunt accuratiores, cum ex immediatis observationibus Planetæ in oppositione profuant, reperitur

$$K = 4^{\circ} 28' 14''$$

$$B' = 0. 17. 45$$

$$B = 0. 14. 21$$

$$B' + B = 0. 32. 6$$

$$B' - B = 0. 3. 24$$

Hinc fit $r = 20. 13. 41$

$$\frac{K}{r} = 2. 14. 7$$

$$r + \frac{K}{r} = 22. 27. 48$$

Longit. Planetæ in $B' = \underline{3^{\circ} 5^{\circ} 20' 28''}$

Longitudo $\Omega = 2. 12. 52. 40$

& inclinatio orbitæ . . = 0. 46. 27

Ex supputat. observationum II & III reperietur similiter

Longitudo $\Omega = 2^{\circ} 12^{\circ} 49' 31''$

& inclinatio orbitæ . . = 0. 46. 22

17. Medio itaque assumpto statui potest ad init. an. 1782.

Longitudo $\Omega = 2^{\circ} 12^{\circ} 52' 0''$

Inclinatio orbitæ . . . = 0. 46. 25

Atque inde concludetur generatim reductio longitudinis ad orbitam = $9''$, 4 sin. 2. *argum. latit.* Pro datis ergo quatuor longitudinibus Planetæ in ecliptica computatis (§. 12.) colliguntur reductiones + $4''$, + $5''$, + $6''$, + $7''$, ex quibus habentur longitudes Planetæ in sua orbita.

$$\text{I } 2^{\circ} 38' 38'' 25'' \quad \text{III } 3^{\circ} 3' 5' 54''$$

$$\text{II } 3. 0. 52. 20 \quad \text{IV } 3. 5. 20. 25$$

18. Methodum quam securus sum ad inveniendâ orbitæ

19. Itaque evidens est differentias primas ex duabus colescere quantitibus, quarum altera in omnibus constans est motus medius Planetæ in sua orbita, seu *differentia anomaliae mediae pro 185 diebus*, altera vero quantitas est *differentia prima æquationis centri*. Atque inde comquitur differentias secundas $0' 27''$ & $0' 30''$ easdem e debere ac *differentias secundas æquationis centri*. Si differentiae ita disponantur

Differ. primæ. Differ. secundæ.

$$\begin{array}{r} a + \Delta \\ a + \Delta' \\ a + \Delta'' \end{array} \qquad \begin{array}{r} \Delta^s \\ \Delta^n \end{array}$$

erit a motus medius Planetæ pro 185 diebus, Δ , Δ' , Δ'' erunt differentiae primæ æquationis centri, & Δ^s , Δ^n ejusdem æquationis differentiae secundæ.

20. Inveni ergo $\Delta = 1' 31''$ ex qua obtinentur.

$$a = 2^\circ 11' 37''$$

$$\Delta' = \Delta + \Delta^s = 1' 58''$$

$$\Delta'' = \Delta' + \Delta^n = 2' 28''$$

Atque hinc *æquationis centri* valores pro singulis quatuor longitudinibus heliocentricis (§. 13 & 17) erunt

$$\text{I} \text{ --- } 5^\circ 31' 28'' \quad | \quad \text{III} \text{ --- } 5^\circ 27' 59''$$

$$\text{II} \text{ --- } 5. 29. 57 \quad | \quad \text{IV} \text{ --- } 5. 25. 31$$

quibus respondent respective *anomaliae mediae* sequentes

$$\text{I} \quad 3^\circ 8' 58' 50'' \quad | \quad \text{III} \quad 3^\circ 13' 22' 0''$$

$$\text{II} \quad 3. 11. 10. 48 \quad | \quad \text{IV} \quad 3. 15. 33. 46$$

Eritque propterea longitudo media Planetæ in orbitæ exempli causa, pro II observatione ann. 1781 Decem

$21^{\circ} 18' 25'' = 3^{\circ} 0' 152''.20'' + 5^{\circ} 29' 57'' = 3^{\circ} 6' 22' 17''$
 ex qua si auferatur anomalia media respondens $3^{\circ} 11' 10' 48''$;
 remanet longitudo Aphelii pro eodem instanti $= 11^{\circ} 25'$
 $11' 29''$. Atque excentricitas orbitae datis *aeguationibus*
centri respondens erit $= 0,04842$; posita distantia media
 Planetæ a Sole $= 1$.

21. Quapropter ex dictis Elementa omnia orbitae novi Planetæ ita se habent

| | |
|---|--|
| Epocha ad ann. 1782 seu longitudo Planetæ in orbita meridie 31 Decemb. an. 1781 Mediol. | $3^{\circ} 6' 28' 52''$ |
| Longitudo Aphelii meridie 31 Decemb. | |
| ann. 1781 | 11. 25. 11. 30 |
| Longitudo Nodi ascend. meridie 31 Decemb. ann. 1781 | 2. 12. 52. 0 |
| Motus Planetæ intra 100 annos Julianos | 1. ^{cir.} 2 ^o 14 ^o 30 ^o 4 ^o |
| Motus Aphelii & Nodi intra 100 annos Julianos | 0. 1. 23. 54 |
| Revolutio tropica | 30281,6 ^{dier.} |
| Revolutio siderea | 30380 ^{dier.} |
| Revolutio synodica | 369 ^d 16 ^h 53 ['] 46 ^o |
| Motus Planetæ diurnus | 0' 42" 49" ^o ,5 |
| Excentricitas orbitae in partibus distantiae mediae Planetæ a Sole | 0,04842 |
| Excentricitas in partibus distantiae mediae Telluris a Sole | 0,02126 |
| Semixis major orbitæ Planetæ in iisdem partibus | 19,04596 |

Distantia maxima Planetæ a Sole in
iisdem partibus 19,96816
Distantia minima 18,12376

Dist.^s vera Planetæ a Sole per anomaliam
mediam *p* expressa . . = 19,06828 + 0,92139 col. *p*
— 0,02229 col. 2*p*
+ 0,00081 col. 3*p*
— 0,00003 col. 4*p*

Dist.^o vera Planetæ a Sole per
anomaliam veram *u* expres-
sa = 19,02361 + 0,92167 col. *u*
+ 0,02233 col. 2*u*
+ 0,00054 col. 3*u*
+ 0,00001 col. 4*u*

Aequatio centri maxima 5° 32' 59"
Aequatio centri per anomaliam
mediam *p* expressa = — 5° 32' 49" sin. *p*
+ 10' 4" sin. 2*p*
— 25" sin. 3*p*
+ 1" sin. 4*p*

Aequatio centri per anomaliam
veram *u* expressa = + 5° 32' 55" sin. *u*
+ 6' 3" sin. 2*u*
+ 8" sin. 3*u*

Inclinatio orbitae ad eclipticam
posita obliquitate eclipticae me-

dia $23^{\circ} 28' 2''$ ad an. 1782 ... $0^{\circ} 46' 25''$

Latitudo Planetæ heliocentrica .. $46' 25''$ *sin. argum. latit.*

Reductio longitudinis in orbita ad

eclipticam = $9''$ *sin. 2. argum. latit.*

Diameter apparens Planetæ in

distancia media = $5''$

Diameter vera , posita = 1 dia-

metro Telluris = $5,6$

22. Observationem Planetæ valde insignem habitam fuisse a Tob. Mayer primus animadvertit D. Bode Astronomus Berolinensis , invenit enim stellam fixam una tantum vice a Mayero observatam in ejus Catalogo stellarum zodiacalium ordine 964.^{am} & cujus ascensio recta ad an. 1756 erat = $348^{\circ} 0' 20'',2$ & declinatio australis $6^{\circ} 2' 3''$ e loco suo cessisse , atque ex elementis orbitæ quamproxime notis ipsam omnino eandem esse cum novo Planeta . Id ipsum vero deinde & nos comperimus ex nostris observationibus . Etenim circa eandem Coeli plagam nihil invenimus præter stellulam 7.^{ae} vel 8.^{ae} magnitudinis , cujus ad initium ann. 1756 ascensio recta esse debebat = $347^{\circ} 11' 34''$ & declinatio australis = $5^{\circ} 59' 55''$. Differentia in ascensione recta a fixa 964.^a Mayeri esset = $48' 46''$, in declinatione = $2' 8''$. Quæ quidem quantitates satis magnæ sunt , ut absolute asserti possit hanc ipsam stellulam a Mayero non fuisse notatam , atque fixam 964.^{am} amplius ibidem non reperiri , eamque propterea fuisse novum Planetam .

23. Nuperrime, scilicet versus finem modo elapsi mensis Augusti D. *Reggio* mihi retulit, ipsum accepisse per litteras Equitis d' *Angos* Astronomi Melitensis: quod ex manuscriptis Diariis *Tob. Mayer* Gottingae asservatis compertum esset locum fixae 964.^{ae} seu novi Planetæ definitum fuisse per observationem habitam die 25 Septembris an. 1756. Cum igitur *Mayer* observationes suas institueret Quadrante Murali, statim inveni tempus observationis, seu transitus sideris per meridianum Gottingae, scilicet $10^h 51' 39''$ temp. medii; pro quo instanti supputatis præcessionē media sequentiōrum, & aberratione lucis in hypothēsi quod Planeta sit stella fixa, obtinui ascensionem Planetæ apparentem $348^\circ 1' 10''$ ab æquinōctio mediæ supputatam, & declinationem australem apparentem $6^\circ 1' 42''$. Atque assumpta ad ann. 1756 obliquitate eclipticæ mediæ $23^\circ 28' 16''$, fit longitudo Planetæ apparens $11^\circ 16' 37' 55''$; seu longitudo geocentrica vera $11^\circ 16' 37' 41''$, adhibita scilicet correctione — $14''$ pro lucis aberratione; atque omiſſa correctione ex nutatione oriunda, quæ pariter omiſſa est in longitudine Solis supputata ex tabulis pro eodem tempore; latitudo Planetæ australis $6^\circ 48' 31''$.

24. Hanc ipsam observationem comparavi cum elementis orbitæ; quæ primum reperieram ex meis observationibus, & quæ in eo tantum discrepabant ab illis supra (§. 21.) descriptis quod posuerim tempus periodicum 36361 dierum; distantiam mediam Planetæ a Sole = 19,0468; epocham Planetæ ad initium ann. 1782, $3^\circ 6' 28' 49''$; longitudinem Aphelii pro eodem tempore $11^\circ 25' 12' 0''$; &

motum Planetæ intra 100 annos Julianos $14^{\circ} 14' 28'' 21''$; ceteris manentibus ut antea, invenique longitudinem geocentricam Planetæ pro 25 Sept. ann. 1756 inde supputatam $11^{\circ} 16' 38' 13''$; videlicet prodiebat error in longitudine = $+ 32''$. Ex relatâ vero elementis (§. 21.) error est tantum = $+ 7''$. Atque hanc exiguam differentiam, quæ facile tolli posset paululum immutando aliquod ex elementis orbitæ, sponte relinquimus, cum ex analogia aliorum Planetarum Aphelium novi Planetæ aliquem motum proprium relate ad fixas habere debeat, qui si ponatur tantum 4 minorum intervallo 100 annorum, scilicet si motus Aphelii relate ad tropicos intra 100 annos Julianos sit = $1^{\circ} 28'$; tum esset longitudo Aphelii ad initium ann. 1756 minor quantitate $1' 17''$, seu hac ipsa quantitate augetur anomalia media Planetæ pro observatione *Mayeri*, atque æquatio centri, quæ est additiva, imminueretur quantitate erroris $+ 7''$, sive error inventus evanesceret.

25. Comparavi eadem elementa (§. 21.) cum observationibus hæctenus habitis novi Planetæ, incipiendo a prima observatione, quam D. *Maskelyne* Grenovici habuit 17 Martii ann. 1781 $10^h 40'$ temp. med. ex qua erat ascensio recta apparens Planetæ $83^{\circ} 59' 44''$, declinatio borealis $23^{\circ} 33' 8''$, atque inde supputata longitudo apparens $2^{\circ} 24' 29' 51'$, seu longitudo correctâ a lucis aberratione, & nutatione $2^{\circ} 24' 30' 10''$, & latit. borealis $0^{\circ} 11' 58''$. Observationem alteram ad diem 16 Aprilis sumsi ab eodem Celeb. Astronomo, erat autem pro eadem die $8^h 26'$

temp. med. ascensio recta apparens Planetæ $84^{\circ} 51' 50''$,
 & declinatio bor. $23^{\circ} 34' 50''$. Longitudinem apparentem
 inveni , $2^{\circ} 25' 17' 38''$

Aberr. lucis Planetæ $+ 13''$

Nutatio $+ 10''$

Longitudo vera geocentrica $2^{\circ} 25' 18' 1''$

Latitudo borealis $0. 11. 49$

26. Observationes ceteras accepi ex iis, quæ expolitæ
 sunt in nostris Ephemeridibus ad an. 1783 (pag. 243 & 244),
 & in hoc volumine (§. 6.), adhibitis correctionibus aber-
 rationis lucis, quemadmodum supra (§. 3. & 4.) notavimus,
 & supputando longitudes Solis pro datis temporibus ex
 tabulis *Tob. Mayer*, quibus longitudinibus adjeci quanti-
 tatem $+ 20''$ ob lucis aberrationem, atque in omnibus
 omisi quantitatem nutationis, cum & in longitudinibus
 Planetæ omiſſa fuerit, adeo ut longitudes omnes com-
 putatæ sint ab æquinoctio medio. Differentiis inter lon-
 gitudes supputatas & observatas apposui signum $+$ quan-
 do supputatæ excedebant observatas, quando vero minores
 erant observatis signum $-$ apposui. Comparationes ita
 se habent.



| Dies . | Temp. | Longitudo geocentr. Planetae supputata . | Diff. ^a | Latitudo geocentr. supputata. | Diff. ^a |
|---------------|--------|---|----------------------|-------------------------------------|-------------------------|
| | med. | | in longi- tud. | | in latitu- dine . |
| | H. M. | S. G.M. S. | Sec. | G.M.S. | Sec. |
| 1756 Sept. 25 | 10. 49 | 11.16.37.48 | + 7 | 0.48.35 A | + 4 |
| 1781 Mar. 17 | 11. 17 | 2.24.30.24 | + 14 | 0.11.45 B | - 13 |
| Apr. 16 | 9. 3 | 2.25.17.28 | - 33 | 0.11.42 | - 7 |
| Maji 13 | 9. 35 | 2.26.31.25 | + 2 | 0.11.46 | - 13 |
| ♄ Junii 19 | 5. 52 | 2.28.38.21 | 0 | 0.11.58 | + 7 |
| Julii 29 | 16. 3 | 3. 0.56. 3 | - 20 | 0.12.28 | + 3 |
| Aug. 19 | 15. 33 | 3. 1.53.52 | + 13 | 0.12.48 | + 5 |
| Sept. 12 | 17. 17 | 3. 2.38.32 | + 9 | 0.13.18 | - 3 |
| Stat. Oct. 7 | 11. 24 | 3. 2.55. 7 | + 6 | 0.13.49 | - 5 |
| Nov. 20 | 7. 51 | 3. 2. 7.45 | + 5 | 0.14.43 | - 1 |
| ♃ Dec. 21 | 18. 25 | 3. 0.52.15 | 0 | 0.15. 8 | - 1 |
| 1782 Jan. 22 | 5. 21 | 2.29.36.43 | - 3 | 0.15.18 | + 2 |
| Febr. 19 | 6. 49 | 2.28.55.44 | - 4 | 0.15.17 | + 1 |
| Stat. Mar. 10 | 8. 17 | 2.28.50. 3 | - 8 | 0.15.13 | - 1 |
| Apr. 19 | 8. 12 | 2.29.39.48 | - 6 | 0.15. 4 | 0 |
| Maji 20 | 7. 59 | 3. 1. 4.45 | - 3 | 0.15. 3 | - 2 |
| ♄ Junii 24 | 3. 48 | 3. 3. 5.48 | 0 | 0.15.14 | - 1 |
| Julii 21 | 15. 34 | 3. 4.42.48 | + 6 | 0.15.26 | - 8 |
| Stat. Oct. 4 | 16. 57 | 3. 7.21.53 | - 4 | 0.16.56 | - 2 |
| Nov. 28 | 8. 9 | 3. 6.29.18 | + 5 | 0.18.19 | 0 |
| ♃ Dec. 26 | 9. 32 | 3. 5.20.28 | 0 | 0.18.43 | - 1 |
| 1783 Jan. 20 | 7. 14 | 3. 4.18.43 | - 10 | 0.18.50 | - 3 |
| Stat. Mar. 2 | 7. 57 | 3. 3.19.31 | - 14 | 0.18.42 | + 3 |
| Apr. 19 | 8. 24 | 3. 3.57.53 | - 19 | 0.18.22 | + 3 |
| Maji 21 | 8. 43 | 3. 5.21.18 | - 16 | 0.18.16 | - 4 |
| Aug. 7 | 16. 22 | 3. 9.51.56 | + 8 | 0.18.56 | - 4 |
| Sept. 4 | 15. 7 | 3.11. 6.19 | + 12 | 0.19.31 | - 4 |

27. Ut facilius comparationes quotquot libuerit instituerentur tabulas construxi, quae sequuntur. Hae nulla indigent explicatione, cum ad eandem normam dispositae sint ac illae aliorum Planetarum. Adjeci quoque alias tabulas similes illis, quas pro Saturno & Jove tradidit summus Mathematicus *D. de la Grange* in Ephemeridibus Berolinensibus ad annum 1781, & quae ad supputandam longitudinem geocentricam novi Planetae inserviunt. Illarum constructio nititur formulis, quae sequenti modo breviter demonstrari possunt.

28. Ponatur

b = Comutationi, seu longitudini verae Solis — Longit. helioc. Planetae.

τ = Distantiae Telluris a Sole.

π = Distantiae Planetae a Sole.

g = Parallaxi annuae, seu longitudini geocentricae Planetae — longit. heliocentr.

Erit ex *Trigonometria plana* (*)

(*) Loco distantiae Planetae a Sole in illius orbita sumi deberet distantia in eclipticam projecta, quam dicunt distantiam *curvatam*, & quae est $\pi \times \cos. \text{Latit. helioc. Planetae}$, sed cum latitudo maxima, quam Planeta habere potest, sit aequalis inclinationi orbitae ad eclipticam, scilicet = $0^\circ 46' 25''$, error maximus, qui inde

$$\text{prodire potest in angulo } g, \text{ esset} = \frac{1 - \cos. 46' 25''}{\pi}$$

$$= \frac{2 (\sin. 23' 12'')^2}{\pi} < 1''.$$

$$\text{tang. } g = \frac{\tau \sin. b}{\pi + \tau \text{ cof. } b} = \frac{\frac{\tau}{\pi} \sin. b}{1 + \frac{\tau}{\pi} \text{ cof. } b}$$

& posito brevitatis gratia $\frac{\tau}{\pi} = r$, erit

$$\text{tang. } g = r \sin. b - r^2 \sin. b \text{ cof. } b + r^3 \sin. b \text{ cof. } b^2 - r^4 \sin. b \text{ cof. } b^3 + \text{ec. est autem generatim}$$

$$g = \text{tang. } g - \frac{\text{tang. } g^2}{3} + \frac{\text{tang. } g^3}{5} - \text{ec.}$$

fiet igitur

$$g = r \sin. b - r^2 \sin. b \text{ cof. } b + r^3 \sin. b \text{ cof. } b^2 - r^4 \sin. b \text{ cof. } b^3 + \text{ec.} \\ - r^3 \sin. b^3 + r^4 \sin. b^3 \text{ cof. } b + \text{ec.}$$

seu resolutis productis sinus & cosinus anguli b in sinus arcuum multiplicium

$$g = r \sin. b - \frac{r^2}{2} \sin. 2b + \frac{r^3}{3} \sin. 3b - \frac{r^4}{4} \sin. 4b + \text{ec.}$$

29. Ponatur modo $T =$ Distantiae mediae Telluris a Sole.

$t =$ Anomaliae mediae Solis.

$e =$ Excentricitati orbitae Telluris;

erit

$$T = T \left(1 + \frac{1}{2} e^2 + e \text{ cof. } t - \frac{1}{2} e^3 \text{ cof. } 2t + \text{ec.} \right).$$

Posito similiter $P =$ Distantiae mediae Planetae a Sole.

$p =$ Anomaliae mediae Planetae.

$\varepsilon =$ Excentricitati orbitae Planetae.

erit

$$\pi = P \left(1 + \frac{1}{2} \varepsilon^2 + \varepsilon \cos.p - \frac{1}{2} \varepsilon^3 \cos. 2p + \text{ec.} \right)$$

Fiet ergo

$$r = \frac{\tau}{\pi} = \frac{T}{P} \times \frac{2 + e^2}{2 + \varepsilon^2} \left(1 + e \cos.t - \varepsilon \cos.p - e \varepsilon \cos.t \cos.p \right. \\ \left. - \frac{1}{2} e^2 \cos. 2t + \frac{1}{2} \varepsilon^2 \cos. 2p + \text{ec.} \right)$$

30. Jamvero facto

$$m = \frac{T}{P} \times \frac{2 + e^2}{2 + \varepsilon^2},$$

substituantur valores ipsorum r , r^2 , r^3 ec. hinc (§. 29.) deducti in superiori (§. 28.) expressione anguli g ; ubi quidem termini, in quibus occurrent producta quatuor vel plurium dimensionum literarum m , ε , e tuto omitti possunt, cum insensibilem valorem in angulum g inducere possint, videlicet vix ac ne vix quidem variationem integri minuti secundi producant. Facta igitur substitutione, & reductione, erit

$$g = m \sin.b - \frac{m^2}{2} \sin. 2b + \frac{m^3}{3} \sin. 3b - \frac{m^4}{4} \sin. 4b + \text{ec.} \\ - \frac{m \varepsilon}{2} \sin. (b + p) - \frac{m \varepsilon}{2} \sin. (b - p) \\ + \frac{m e}{2} \sin. (b + t) + \frac{m e}{2} \sin. (b - t) \\ + \frac{m^2 \varepsilon}{2} \sin. (2b + p) + \frac{m^2 \varepsilon}{2} \sin. (2b - p) \\ - \frac{m^2 e}{2} \sin. (2b + t) - \frac{m^2 e}{2} \sin. (2b - t)$$

$$+ \frac{m \varepsilon^2}{4} \sin. (b + 2p) + \frac{m \varepsilon^2}{4} \sin. (b - 2p)$$

$$- \frac{m \varepsilon^2}{4} \sin. (b + 2t) - \frac{m \varepsilon^2}{4} \sin. (b - 2t)$$

$$- \frac{m \varepsilon e}{4} \sin. (b + p + t) - \frac{m \varepsilon e}{4} \sin. (b + p - t)$$

$$- \frac{m \varepsilon e}{4} \sin. (b - p + t) - \frac{m \varepsilon e}{4} \sin. (b - p - t)$$

31. Statuatur modo cum Tob. Mayer $e = 0,01683$,
 atque ex elementis orbitae novi Planetæ (§. 21.) erit
 $\varepsilon = 0,04842$, & $P = 19,04596$, cumque sit $T = 1$, obti-
 nebitur

$$m = \frac{T(2 + e^2)}{P(2 + \varepsilon^2)} = 0,0524504.$$

Est autem, sicut supposuimus (§. 28.), longitudo geocen-
 trica Planetæ = longitudini heliocentricæ + g ; quare
 colligetur. Longit. geoc. Planetæ = Longit. helioc.

$$+ 3^\circ 0' 18'',9 \sin. b - 4' 43'',7 \sin. 2b + 9'',9 \sin. 3b$$

$$- 0'',4 \sin. 4b$$

$$- 4' 21'',9 \sin. (b + p) - 4' 21'',9 \sin. (b - p)$$

$$+ 1' 31'',0 \sin. (b + t) + 1' 31'',0 \sin. (b - t)$$

$$+ 13'',7 \sin. (2b + p) + 13'',7 \sin. (2b - p)$$

$$- 4'',8 \sin. (2b + t) - 4'',8 \sin. (2b - t)$$

$$+ 6'',3 \sin. (b + 2p) + 6'',3 \sin. (b - 2p)$$

$$- 0'',8 \sin. (b + 2t) - 0'',8 \sin. (b - 2t)$$

$$- 2'',2 \sin. (b + p + t) - 2'',2 \sin. (b + p - t)$$

$$- 2'',2 \sin. (b - p + t) - 2'',2 \sin. (b - p - t)$$

32. Termini omnes, praeter sex postremos, qui ob illorum parvitatem negligi possunt, supputantur ex tabulis VII & sequentibus; atque si solum intra 15'' accuratus locus Planetæ geocentricus desideretur, tres tantum tabulae, videlicet VII, VIII & IX in usum adhiberi poterunt.

33. Ut usus omnium tabularum exemplo illustretur, quaeratur locus heliocentricus & geocentricus novi Planetæ pro die 4 hujusce mensis Septembris anni 1783. 15^h 7' temp. med.

| Tabulae. | | Planeta. | | | | Aphelius. | | | | Nodus. | | | |
|----------|---------------------------------------|----------|-----|-----|--------|-----------|-----|-----|------------|--------|-----|-----|-------------------------|
| | | S. | G. | M. | S. | S. | G. | M. | S. | S. | G. | M. | S. |
| I | Epocha An. 1783. | 3. | 10. | 49. | 23 | 11. | 25. | 12. | 20 | 2. | 12. | 52. | 50 |
| II | 4. Septemb. | | | 2. | 56. 18 | | | | 34 | | | | 34 |
| III | 15 ^h 7' | | | | 27 | | | | 0 | | | | 0 |
| IV | Summa | 1. | 13. | 46. | 8 | 11. | 25. | 12. | 54 | 2. | 12. | 53. | 24 |
| | Aequ. Centri | — | 5. | 21. | 19 | 3. | 13. | 46. | 8 | 3. | 8. | 24. | 49 |
| | Longit. in orb. | 3. | 8. | 24. | 49 | 3. | 18. | 33. | 14 | 0. | 25. | 31. | 25 |
| VI | Reduct. | — | | | 7 | | | | Anom. med. | | | | Arg. Latit. |
| | Longit. helioc. Planetæ in ecliptica. | 3. | 8. | 24. | 42 | | | | | | | | B. 00 20' 0'' |
| | | | | | | | | | | | | | Latit. helioc. Planetæ. |

34. Si calculo Trigonometrico inveniri velit locus geocentricus Planetæ, pro dato tempore reperietur primum ex tab. Tob. Mayer longitudo vera Solis = 5° 12' 21" 6', & logarithmus distantiae Telluris a Sole, sive $l.T = 5,003192$, deinde in tabula V quaeratur Argumento: *Anomalia mediæ*

Planetæ $3^{\circ} 18' 33'' 14''$ Logarithmus distantiae Planetæ a Sole in orbita, qui erit 6,274009, & Argumento latitudinis $0^{\circ} 25' 31'' 25''$ invenietur ex tab. VI reductio logarithmi = — 8, unde fiet $\log. \pi = 6,274001$, & calculus sequenti modo absolvi poterit.

— Longit. helioc. Planetæ $3^{\circ} 8' 24' 42''$

+ Longit. Solis $\frac{5. 12. 21. 6}{}$

$h = 2. 3. 56. 24$

$\frac{h}{2} = 1. 1. 58. 12$

+ $\log. T = 5,003192$

— $\log. \pi = 6,274001$

$\log. r = 8,729191$

$r = 0,053603$

$1 - r = 0,946397$

$1 + r = 1,053603$

+ $\log. 1 - r = 9,976073$

— $\log. 1 + r = 0,022677$

$L \frac{1 - r}{1 + r} = 9,953396$

+ $\log. \text{tang. } \frac{h}{2} = 9,795283$

$\log. \text{tang. } x = 9,748679$

— $x = 0^{\circ} 29' 16' 35''$

+ $\frac{h}{2} = 1. 1. 58. 12$

$\delta = + 2. 41. 37$

$$g = + 2^{\circ} 41' 37''$$

$$\text{Longit. hel. Plan.} = \underline{3^{\circ} 8. 24. 42}$$

$$\text{Longit. geocen. Planetæ} = 3. 11. 6. 19$$

34. Pro latitudine geocentrica Planetæ inveniendâ , habebitur

$$\text{Latit. hel. Planetæ Bor.} = \underline{0^{\circ} 20' 0''}$$

$$+ \text{ log. tang. latit. hel.} = \underline{7,7647610}$$

$$+ \text{ log. sin. } (h - g) = \underline{9,9428493}$$

$$7,7076103$$

$$- \text{ log. sin. } h \dots\dots\dots = \underline{9,9534582}$$

$$\text{log. tang. latit. geoc.} = 7,7541521$$

$$\text{Latit. geoc. Planetæ Bor.} = 0^{\circ} 19' 31''$$

35. Sin autem per Tabulas VII & sequentes longitudo geocentrica Planetæ supputari velit , opus non est ut quaeratur neque logarithmus distantiae Telluris a Sole , neque logarithmus distantiae Planetæ a Sole , oportet vero ut habeatur longitudo Solis vera , quae pro dato tempore est $5^{\circ} 12^{\circ} 21' 6''$, anomalia media Solis , seu $t = 2^{\circ} 4^{\circ} 49' 47''$; longitudo heliocentrica Planetæ $3^{\circ} 8^{\circ} 24' 42''$, & anomalia media Planetæ , seu $p = 3^{\circ} 18^{\circ} 33' 14''$, atque supputatio omnis ita perfici poterit .



Tabulae.

| | | | | | | |
|------|-----------|------------|----------------------|---------------|--------------|----------|
| VII | Arg. I | = Long. ☉ | — Long. hel. Plan. = | 2° 3' 56' 24" | + 2° 38' 14" | — 0' 34" |
| VIII | Arg. II | = Arg. I | + anom. m. Plan. = | 5. 22. 30 | | |
| VIII | Arg. III | = Arg. I | — anom. m. Plan. = | 10. 15. 23 | + 3. 4 | |
| IX | Arg. IV | = Arg. I | + anom. m. Solis = | 4. 8. 46 | + 1. 11 | |
| IX | Arg. V | = Arg. I | — anom. m. Solis = | 11. 29. 7 | | — 0. 1 |
| X | Arg. VI | = Arg. I | + Arg. II. = | 7. 26. 26 | | — 0. 11 |
| X | Arg. VII | = Arg. I | + Arg. III. = | 0. 19. 20 | + 0. 4 | |
| XI | Arg. VIII | = Arg. II. | + anom. Plan. = | 9. 11. 3 | | — 0. 6 |
| XI | Arg. IX | = Arg. III | — anom. Plan. = | 6. 26. 50 | | — 0. 3 |
| XII | Arg. X | = Arg. I | + Arg. IV. = | 6. 12. 43 | + 0. 1 | |
| XII | Arg. XI | = Arg. I | + Arg. V. = | 2. 3. 3 | | — 0. 4 |
| | | | | | + 2. 42. 34 | — 0. 59 |
| | | | | | — 0. 59 | |

$g = + 2. 41. 35$

Longit. helioc. Plan. = 3. 8. 24. 42

Longit. geoc. Plan. = 3. 11. 6. 17

36. Differentia inter longitudinem geocentricam calculo trigonometrico definitam (§. 33.) & hanc, quam per tabulas VII & sequentes invenimus, nonnisi ad 2" assurgit, eaque proficiscitur a sex postremis terminis (§. 31.) quos in valore anguli g omisimus. Si tabulas tantum VII, VIII, & IX in usum adhibuissimus, longitudo geocentrica pro dato tempore inventa fuisset $3^{\circ} 11' 6'' 28''$, quae excedit accurate supputatam tantummodo quantitate $9''$.

37. Quamvis ex relatis (§. 26.) comparationibus asseri possit Tabulas sequentes cum observationibus hactenus habitis novi Planetæ satis bene congruere, nihilominus imposterum fortasse a veritate sensibiler aberrare poterunt. Tunc vero juxta opportunitatem Elementa aliqua (21.), quibus Tabulae constructæ fuerunt, emendanda erunt; atque si excentricitas orbitæ imminui vel augeri debeat, correctiones inde ortæ *aequationis centri & distantiae Planetæ a Sole* facile supputari poterunt. Etenim si, exempli causa, excentricitas augeri debeat quantitate $= 0,0005$, seu si loco excentricitatis $= 0,04842$, poni debeat $0,04892$, *augmentum aequationis centri* per anomaliam mediam p expressum esset $= - 3' 26'' \sin. p + 25'' \sin. 2p - 1'' \sin. 3p$, & *augmentum distantiae Planetæ a Sole* $= + 0,00046 + 0,00950 \cos. p - 0,00046 \cos. 2p + 0,00003 \cos. 3p$. Sin autem eadem quantitate $0,0005$ imminuenda esset excentricitas $0,04842$, haberentur *imminutiones aequationis centri, & distantiae Planetæ a Sole* eadem ac superiora *augmenta*, mutatis tantum signis $+$ in $-$ & $-$ in $+$.

**TABULAE
NOVI PLANETAE**

ad Meridianum Observatorii Mediolanensis
supputatae .

TABULA I.

Epochae mediorum Motuum Novi Planetae.

| Anni. | Planeta. | | | | Aphelius. | | | | Nodus. | | | |
|--------|----------|-----|-----|----|-----------|-----|-----|----|--------|-----|-----|----|
| | S. | G. | M. | S. | S. | G. | M. | S. | S. | G. | M. | S. |
| B 1600 | 0. | 25. | 42. | 25 | 11. | 22. | 38. | 48 | 2. | 10. | 19. | 18 |
| C 1700 | 3. | 10. | 11. | 46 | 11. | 24. | 2. | 42 | 2. | 11. | 43. | 18 |
| 1700 | 10. | 17. | 26. | 26 | 11. | 24. | 44. | 39 | 2. | 12. | 25. | 9 |
| B 1756 | 11. | 13. | 31. | 0 | 11. | 24. | 49. | 42 | 2. | 12. | 30. | 12 |
| B 1760 | 0. | 0. | 53. | 48 | 11. | 24. | 53. | 3 | 2. | 12. | 33. | 33 |
| 1770 | 1. | 14. | 20. | 28 | 11. | 25. | 1. | 26 | 2. | 12. | 41. | 56 |
| B 1780 | 2. | 27. | 47. | 50 | 11. | 25. | 9. | 49 | 2. | 12. | 50. | 19 |
| 1781 | 3. | 2. | 8. | 21 | 11. | 25. | 10. | 40 | 2. | 12. | 51. | 10 |
| 1782 | 3. | 6. | 28. | 52 | 11. | 25. | 11. | 30 | 2. | 12. | 52. | 0 |
| 1883 | 3. | 10. | 49. | 23 | 11. | 25. | 12. | 20 | 2. | 12. | 52. | 50 |
| B 1784 | 3. | 15. | 10. | 37 | 11. | 25. | 13. | 11 | 2. | 12. | 53. | 41 |
| 1785 | 3. | 19. | 31. | 9 | 11. | 25. | 14. | 1 | 2. | 12. | 54. | 31 |
| 1786 | 3. | 23. | 51. | 40 | 11. | 25. | 14. | 51 | 2. | 12. | 55. | 21 |
| 1787 | 3. | 28. | 12. | 11 | 11. | 25. | 15. | 42 | 2. | 12. | 56. | 12 |
| B 1788 | 4. | 2. | 33. | 26 | 11. | 25. | 16. | 32 | 2. | 12. | 57. | 2 |
| 1789 | 4. | 6. | 53. | 57 | 11. | 25. | 17. | 22 | 2. | 12. | 57. | 52 |
| 1790 | 4. | 11. | 14. | 28 | 11. | 25. | 18. | 13 | 2. | 12. | 58. | 43 |
| 1791 | 4. | 15. | 35. | 0 | 11. | 25. | 19. | 3 | 2. | 12. | 59. | 33 |
| B 1792 | 4. | 19. | 56. | 14 | 11. | 25. | 19. | 54 | 2. | 13. | 0. | 24 |
| 1793 | 4. | 24. | 16. | 45 | 11. | 25. | 20. | 44 | 2. | 13. | 1. | 14 |
| 1794 | 4. | 28. | 37. | 16 | 11. | 25. | 21. | 34 | 2. | 13. | 2. | 4 |
| 1795 | 5. | 2. | 57. | 48 | 11. | 25. | 22. | 25 | 2. | 13. | 2. | 4 |
| B 1796 | 5. | 7. | 19. | 3 | 11. | 25. | 23. | 15 | 2. | 13. | 3. | 45 |
| 1797 | 5. | 11. | 39. | 34 | 11. | 25. | 24. | 5 | 2. | 13. | 4. | 35 |
| 1798 | 5. | 16. | 0. | 6 | 11. | 25. | 24. | 56 | 2. | 13. | 5. | 26 |
| 1799 | 5. | 20. | 20. | 37 | 11. | 25. | 25. | 46 | 2. | 13. | 6. | 16 |
| C 1800 | 5. | 24. | 41. | 8 | 11. | 25. | 26. | 36 | 2. | 13. | 7. | 6 |
| 1801 | 5. | 29. | 1. | 39 | 11. | 25. | 27. | 27 | 2. | 13. | 7. | 57 |
| 1802 | 6. | 3. | 22. | 11 | 11. | 25. | 28. | 17 | 2. | 13. | 8. | 47 |
| 1803 | 6. | 7. | 42. | 42 | 11. | 25. | 29. | 8 | 2. | 13. | 9. | 38 |
| B 1804 | 6. | 12. | 3. | 56 | 11. | 25. | 29. | 58 | 2. | 13. | 10. | 28 |
| 1805 | 6. | 16. | 24. | 28 | 11. | 25. | 30. | 48 | 2. | 13. | 11. | 18 |

TABULA II.

197

Motus Novi Planetæ ad singulos dies mensium.

| Anni bidentis. | Anni communis. | Januarius. | | | | Februarius. | | | | Martius. | | | | |
|----------------|----------------|------------|-----|----|------------------|-------------|------|----|------------------|----------|----|------|------------------|----|
| | | Planeta. | | | Aphelium & Nodus | Planeta. | | | Aphelium & Nodus | Planeta. | | | Aphelium & Nodus | |
| | | Dies | G. | M. | S. | S. | Dies | G. | M. | S. | S. | Dies | G. | M. | S. | S. |
| 1 | 0 | 0. | 0. | 0 | 0 | 0. | 22. | 7 | 4 | 1 | 0. | 42. | 49 | 8 |
| 2 | 1 | 0. | 0. | 43 | 0 | 0. | 22. | 50 | 4 | 2 | 0. | 43. | 32 | 8 |
| 3 | 2 | 0. | 1. | 26 | 0 | 0. | 23. | 33 | 4 | 3 | 0. | 44. | 15 | 8 |
| 4 | 3 | 0. | 2. | 8 | 1 | 0. | 24. | 16 | 5 | 4 | 0. | 44. | 58 | 9 |
| 5 | 4 | 0. | 2. | 51 | 1 | 0. | 24. | 59 | 5 | 5 | 0. | 45. | 40 | 9 |
| 6 | 5 | 0. | 3. | 34 | 1 | 0. | 25. | 41 | 5 | 6 | 0. | 46. | 23 | 9 |
| 7 | 6 | 0. | 4. | 17 | 1 | 0. | 26. | 24 | 5 | 7 | 0. | 47. | 6 | 9 |
| 8 | 7 | 0. | 5. | 0 | 1 | 0. | 27. | 7 | 5 | 8 | 0. | 47. | 49 | 9 |
| 9 | 8 | 0. | 5. | 43 | 1 | 0. | 27. | 50 | 5 | 9 | 0. | 48. | 32 | 9 |
| 10 | 9 | 0. | 6. | 25 | 1 | 0. | 28. | 33 | 5 | 10 | 0. | 49. | 15 | 9 |
| 11 | 10 | 0. | 7. | 8 | 1 | 0. | 29. | 15 | 6 | 11 | 0. | 49. | 57 | 10 |
| 12 | 11 | 0. | 7. | 51 | 1 | 0. | 29. | 58 | 6 | 12 | 0. | 50. | 40 | 10 |
| 13 | 12 | 0. | 8. | 34 | 2 | 0. | 30. | 41 | 6 | 13 | 0. | 51. | 23 | 10 |
| 14 | 13 | 0. | 9. | 17 | 2 | 0. | 31. | 24 | 6 | 14 | 0. | 52. | 6 | 10 |
| 15 | 14 | 0. | 9. | 59 | 2 | 0. | 32. | 7 | 6 | 15 | 0. | 52. | 49 | 10 |
| 16 | 15 | 0. | 10. | 42 | 2 | 0. | 32. | 50 | 6 | 16 | 0. | 53. | 32 | 10 |
| 17 | 16 | 0. | 11. | 25 | 2 | 0. | 33. | 32 | 6 | 17 | 0. | 54. | 15 | 10 |
| 18 | 17 | 0. | 12. | 8 | 2 | 0. | 34. | 15 | 7 | 18 | 0. | 54. | 58 | 11 |
| 19 | 18 | 0. | 12. | 51 | 2 | 0. | 34. | 58 | 7 | 19 | 0. | 55. | 41 | 11 |
| 20 | 19 | 0. | 13. | 34 | 2 | 0. | 35. | 41 | 7 | 20 | 0. | 56. | 24 | 11 |
| 21 | 20 | 0. | 14. | 16 | 3 | 0. | 36. | 24 | 7 | 21 | 0. | 57. | 7 | 11 |
| 22 | 21 | 0. | 14. | 59 | 3 | 0. | 37. | 7 | 7 | 22 | 0. | 57. | 49 | 11 |
| 23 | 22 | 0. | 15. | 42 | 3 | 0. | 37. | 49 | 7 | 23 | 0. | 58. | 32 | 11 |
| 24 | 23 | 0. | 16. | 25 | 3 | 0. | 38. | 32 | 7 | 24 | 0. | 59. | 15 | 11 |
| 25 | 24 | 0. | 17. | 8 | 3 | 0. | 39. | 15 | 8 | 25 | 0. | 59. | 58 | 12 |
| 26 | 25 | 0. | 17. | 50 | 3 | 0. | 39. | 58 | 8 | 26 | 1. | 0. | 41 | 12 |
| 27 | 26 | 0. | 18. | 33 | 4 | 0. | 40. | 41 | 8 | 27 | 1. | 1. | 23 | 12 |
| 28 | 27 | 0. | 19. | 16 | 4 | 0. | 41. | 24 | 8 | 28 | 1. | 2. | 6 | 12 |
| 29 | 28 | 0. | 19. | 59 | 4 | 0. | 42. | 7 | 8 | 29 | 1. | 2. | 49 | 12 |
| 30 | 29 | 0. | 20. | 42 | 4 | | | | | 30 | 1. | 3. | 32 | 12 |
| 31 | 30 | 0. | 21. | 25 | 4 | | | | | 31 | 1. | 4. | 15 | 12 |
| | 31 | 0. | 22. | 8 | 4 | | | | | | | | | |

Motus novi Planetæ ad singulos dies mensium.

| Dies | Aprilis. | | Majus. | | Junius. | |
|------|-----------|---------------------|-----------|---------------------|-----------|---------------------|
| | Planeta. | Aphelius & Nodus | Planeta. | Aphelius & Nodus | Planeta. | Aphelius & Nodus |
| | | S. | | S. | | S. | S. |
| 1 | l. 4. 57 | 12 | l. 26. 22 | 17 | l. 48. 30 | 21 |
| 2 | l. 5. 40 | 13 | l. 27. 5 | 17 | l. 49. 12 | 21 |
| 3 | l. 6. 23 | 13 | l. 27. 48 | 17 | l. 49. 55 | 21 |
| 4 | l. 7. 6 | 13 | l. 28. 31 | 17 | l. 50. 38 | 21 |
| 5 | l. 7. 49 | 13 | l. 29. 13 | 17 | l. 51. 21 | 21 |
| 6 | l. 8. 32 | 13 | l. 29. 56 | 17 | l. 52. 4 | 22 |
| 7 | l. 9. 14 | 13 | l. 30. 39 | 17 | l. 52. 46 | 22 |
| 8 | l. 9. 57 | 13 | l. 31. 22 | 18 | l. 53. 29 | 22 |
| 9 | l. 10. 40 | 14 | l. 32. 5 | 18 | l. 54. 12 | 22 |
| 10 | l. 11. 23 | 14 | l. 32. 48 | 18 | l. 54. 55 | 22 |
| 11 | l. 12. 6 | 14 | l. 33. 30 | 18 | l. 55. 38 | 22 |
| 12 | l. 12. 49 | 14 | l. 34. 13 | 18 | l. 56. 21 | 22 |
| 13 | l. 13. 31 | 14 | l. 34. 56 | 18 | l. 57. 3 | 23 |
| 14 | l. 14. 14 | 14 | l. 35. 39 | 18 | l. 57. 46 | 23 |
| 15 | l. 14. 57 | 14 | l. 36. 22 | 19 | l. 58. 29 | 23 |
| 16 | l. 15. 40 | 15 | l. 37. 4 | 19 | l. 59. 12 | 23 |
| 17 | l. 16. 23 | 15 | l. 37. 47 | 19 | l. 59. 55 | 23 |
| 18 | l. 17. 6 | 15 | l. 38. 30 | 19 | l. 0. 38 | 23 |
| 19 | l. 17. 48 | 15 | l. 39. 13 | 19 | l. 1. 21 | 23 |
| 20 | l. 18. 31 | 15 | l. 39. 56 | 19 | l. 2. 3 | 23 |
| 21 | l. 19. 14 | 15 | l. 40. 39 | 19 | l. 2. 46 | 24 |
| 22 | l. 19. 57 | 15 | l. 41. 21 | 20 | l. 3. 29 | 24 |
| 23 | l. 20. 40 | 16 | l. 42. 4 | 20 | l. 4. 12 | 24 |
| 24 | l. 21. 22 | 16 | l. 42. 47 | 20 | l. 4. 55 | 24 |
| 25 | l. 22. 5 | 16 | l. 43. 30 | 20 | l. 5. 37 | 24 |
| 26 | l. 22. 48 | 16 | l. 44. 13 | 20 | l. 6. 20 | 24 |
| 27 | l. 23. 31 | 16 | l. 44. 56 | 20 | l. 7. 3 | 24 |
| 28 | l. 24. 14 | 16 | l. 45. 38 | 20 | l. 7. 46 | 25 |
| 29 | l. 24. 57 | 16 | l. 46. 21 | 20 | l. 8. 29 | 25 |
| 30 | l. 25. 39 | 16 | l. 47. 4 | 21 | l. 9. 11 | 25 |
| 31 | | 16 | l. 47. 47 | 21 | | |

TABULA II.

199

Motus Novi Planetæ ad singulos dies mensium.

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

TABULA II.

Motus Novi Planetæ ad singulos dies mensuræ.

| October. | | | November. | | | December. | | |
|----------|-----------|---------------------|-----------|---------------------|-----------|---------------------|----------|----|
| Dies | Planeta. | Aphelium & Nodus | Planeta. | Aphelium & Nodus | Planeta. | Aphelium & Nodus | | |
| | G. M. S. | S. | | G. M. S. | | S. | G. M. S. | S. |
| 1 | 3. 15. 34 | 38 | 3. 37. 42 | 42 | 3. 59. 7 | 46 | | |
| 2 | 3. 16. 17 | 38 | 3. 38. 25 | 42 | 3. 59. 49 | 46 | | |
| 3 | 3. 17. 0 | 38 | 3. 39. 7 | 42 | 4. 0. 32 | 46 | | |
| 4 | 3. 17. 43 | 38 | 3. 39. 50 | 42 | 4. 1. 15 | 46 | | |
| 5 | 3. 18. 25 | 38 | 3. 40. 33 | 43 | 4. 1. 58 | 47 | | |
| 6 | 3. 19. 8 | 38 | 3. 41. 16 | 43 | 4. 2. 41 | 47 | | |
| 7 | 3. 19. 51 | 39 | 3. 41. 99 | 43 | 4. 3. 24 | 47 | | |
| 8 | 3. 20. 34 | 39 | 3. 42. 42 | 43 | 4. 4. 6 | 47 | | |
| 9 | 3. 21. 17 | 39 | 3. 43. 24 | 43 | 4. 4. 49 | 47 | | |
| 10 | 3. 22. 0 | 39 | 3. 44. 7 | 43 | 4. 5. 32 | 47 | | |
| 11 | 3. 22. 42 | 39 | 3. 44. 50 | 43 | 4. 6. 15 | 47 | | |
| 12 | 3. 23. 25 | 39 | 3. 45. 33 | 43 | 4. 6. 58 | 48 | | |
| 13 | 3. 24. 8 | 39 | 3. 46. 16 | 44 | 4. 7. 41 | 48 | | |
| 14 | 3. 24. 51 | 40 | 3. 46. 59 | 44 | 4. 8. 23 | 48 | | |
| 15 | 3. 25. 34 | 40 | 2. 47. 41 | 44 | 4. 9. 6 | 48 | | |
| 16 | 3. 26. 17 | 40 | 3. 48. 24 | 44 | 4. 9. 49 | 48 | | |
| 17 | 3. 26. 59 | 40 | 3. 49. 7 | 44 | 4. 10. 32 | 48 | | |
| 18 | 3. 27. 42 | 40 | 3. 49. 50 | 44 | 4. 11. 15 | 48 | | |
| 19 | 3. 28. 25 | 40 | 3. 50. 33 | 44 | 4. 11. 58 | 49 | | |
| 20 | 3. 29. 8 | 40 | 3. 51. 15 | 45 | 4. 12. 40 | 49 | | |
| 21 | 3. 29. 51 | 40 | 3. 51. 58 | 45 | 4. 13. 23 | 49 | | |
| 22 | 3. 30. 34 | 41 | 3. 52. 41 | 45 | 4. 14. 6 | 49 | | |
| 23 | 3. 31. 16 | 41 | 3. 53. 24 | 45 | 4. 14. 49 | 49 | | |
| 24 | 3. 31. 59 | 41 | 3. 54. 7 | 45 | 4. 15. 32 | 49 | | |
| 25 | 3. 32. 42 | 41 | 3. 54. 50 | 45 | 4. 16. 14 | 49 | | |
| 26 | 3. 33. 25 | 41 | 3. 55. 32 | 45 | 4. 16. 57 | 50 | | |
| 27 | 3. 34. 8 | 41 | 3. 56. 15 | 46 | 4. 17. 40 | 50 | | |
| 28 | 3. 34. 50 | 41 | 3. 56. 58 | 46 | 4. 18. 23 | 50 | | |
| 29 | 3. 35. 33 | 42 | 3. 57. 41 | 46 | 4. 19. 6 | 50 | | |
| 30 | 3. 36. 16 | 42 | 3. 58. 24 | 46 | 4. 19. 49 | 50 | | |
| 31 | 3. 36. 59 | 42 | | | 4. 20. 31 | 50 | | |

TABULA III.
Motus Planetæ juxta Horas & Minuta.

| <i>Horæ.</i> | | | <i>Minuta.</i> | | |
|--------------|-------------|-------------|----------------|-------------|-------------|
| | <i>Sec.</i> | <i>Ter.</i> | | <i>Sec.</i> | <i>Ter.</i> |
| 1 | 1. | 47 | 3 | 0. | 5 |
| 2 | 3. | 34 | 6 | 0. | 11 |
| 3 | 5. | 21 | 9 | 0. | 16 |
| 4 | 7. | 8 | 12 | 0. | 21 |
| 5 | 8. | 55 | 15 | 0. | 27 |
| 6 | 10. | 42 | 18 | 0. | 32 |
| 7 | 12. | 29 | 21 | 0. | 37 |
| 8 | 14. | 16 | 24 | 0. | 43 |
| 9 | 16. | 3 | 27 | 0. | 48 |
| 10 | 17. | 50 | 30 | 0. | 54 |
| 11 | 19. | 38 | 33 | 0. | 59 |
| 12 | 21. | 25 | 36 | 1. | 4 |
| 13 | 23. | 12 | 39 | 1. | 10 |
| 14 | 24. | 59 | 42 | 1. | 15 |
| 15 | 26. | 46 | 45 | 1. | 20 |
| 16 | 28. | 33 | 48 | 1. | 26 |
| 17 | 30. | 20 | 51 | 1. | 31 |
| 18 | 32. | 7 | 54 | 1. | 36 |
| 19 | 33. | 54 | 57 | 1. | 42 |
| 20 | 35. | 41 | 60 | 1. | 47 |
| 21 | 37. | 28 | | | |
| 22 | 39. | 15 | | | |
| 23 | 41. | 2 | | | |
| 24 | 42. | 49 | | | |

TABULA IV.
Aequatio Centri.
Argumentum: *Anomalia media Planetæ.*

| Sign. | O° | | I | | II | | Gr. | | | | | |
|-------|-----|----------|---------|----------|---------|----------|-----|---------|----|----|-----|-------|
| | Gr. | G. M. S. | Differ. | G. M. S. | Differ. | G. M. S. | | Differ. | | | | |
| 0 | 0. | 0. | 0 | 2. | 38. | 6 | 4. | 39. | 32 | 3' | 1'' | 30 |
| 1 | 0. | 5. | 29 | 5. | 42. | 56 | 4. | 42. | 33 | 2. | | 29 |
| 2 | 0. | 10. | 58 | 5. | 47. | 43 | 4. | 45. | 19 | 2. | | 28 |
| 3 | 0. | 16. | 26 | 5. | 52. | 28 | 4. | 48. | 21 | 2. | | 27 |
| 4 | 0. | 21. | 54 | 5. | 57. | 11 | 4. | 51. | 8 | 2. | | 26 |
| 5 | 0. | 27. | 22 | 5. | 1. | 50 | 4. | 53. | 50 | 2. | | 25 |
| 6 | 0. | 32. | 49 | 5. | 6. | 26 | 4. | 56. | 27 | 2. | | 24 |
| 7 | 0. | 38. | 16 | 5. | 11. | 0 | 4. | 58. | 59 | 2. | | 23 |
| 8 | 0. | 43. | 41 | 5. | 15. | 31 | 4. | 1. | 26 | 2. | | 22 |
| 9 | 0. | 49. | 8 | 5. | 19. | 58 | 4. | 3. | 48 | 2. | | 21 |
| 10 | 0. | 54. | 33 | 5. | 24. | 22 | 4. | 6. | 5 | 2. | | 20 |
| 11 | 0. | 59. | 57 | 5. | 28. | 44 | 4. | 8. | 17 | 2. | | 19 |
| 12 | 1. | 5. | 20 | 5. | 33. | 2 | 4. | 10. | 23 | 2. | | 18 |
| 13 | 1. | 10. | 42 | 5. | 37. | 16 | 4. | 12. | 24 | 1. | | 17 |
| 14 | 1. | 16. | 3 | 5. | 41. | 27 | 4. | 14. | 20 | 1. | | 16 |
| 15 | 1. | 21. | 23 | 5. | 45. | 34 | 4. | 16. | 10 | 1. | | 15 |
| 16 | 1. | 26. | 42 | 5. | 49. | 38 | 4. | 17. | 54 | 1. | | 14 |
| 17 | 1. | 31. | 59 | 5. | 53. | 38 | 4. | 19. | 33 | 1. | | 13 |
| 18 | 1. | 37. | 15 | 5. | 57. | 34 | 3. | 21. | 7 | 1. | | 12 |
| 19 | 1. | 42. | 29 | 5. | 1. | 26 | 3. | 22. | 35 | 1. | | 11 |
| 20 | 1. | 47. | 42 | 5. | 5. | 15 | 3. | 23. | 58 | 1. | | 10 |
| 21 | 1. | 52. | 53 | 5. | 9. | 0 | 3. | 25. | 15 | 1. | | 9 |
| 22 | 1. | 58. | 3 | 5. | 12. | 41 | 3. | 26. | 26 | 1. | | 8 |
| 23 | 2. | 3. | 11 | 5. | 16. | 17 | 3. | 27. | 31 | 1. | | 7 |
| 24 | 2. | 8. | 16 | 5. | 19. | 49 | 3. | 28. | 30 | 0. | | 6 |
| 25 | 2. | 13. | 20 | 5. | 23. | 17 | 3. | 29. | 24 | 0. | | 5 |
| 26 | 2. | 18. | 22 | 4. | 26. | 41 | 3. | 30. | 12 | 0. | | 4 |
| 27 | 2. | 23. | 21 | 4. | 30. | 0 | 3. | 30. | 54 | 0. | | 3 |
| 28 | 2. | 28. | 18 | 4. | 33. | 15 | 3. | 31. | 30 | 0. | | 2 |
| 29 | 2. | 33. | 13 | 4. | 36. | 26 | 3. | 32. | 0 | 0. | | 1 |
| 30 | 2. | 38. | 6 | 4. | 39. | 32 | 3. | 32. | 24 | 0. | | 0 |
| Gr. | + | | | + | | | + | | | | | Gr. |
| Sign. | XI | | | X | | | IX | | | | | Sign. |

TABULA IV.

Aequatio Centri.

Argumentum: *Anomalia media Planetarum.*

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

Logarithmi distantiarum Planetarum a Sole.
Argumentum: Anomalie mediæ Planetarum.

| Sign. | O | | I | | II | | |
|-------|-----------|---------|-----------|---------|-----------|---------|-----|
| Gr. | Logarith. | Differ. | Logarith. | Differ. | Logarith. | Differ. | Gr. |
| 0 | 6.300338 | | 6.297873 | | 6.290910 | | 300 |
| 1 | 6.300335 | 3 | 6.297708 | 165 | 6.290613 | 297 | 299 |
| 2 | 6.300347 | 8 | 6.297538 | 170 | 6.290313 | 300 | 298 |
| 3 | 6.300312 | 14 | 6.297362 | 175 | 6.290010 | 303 | 297 |
| | | 19 | | 179 | | 307 | |
| 4 | 6.300294 | 25 | 6.297184 | 184 | 6.289703 | 310 | 296 |
| 5 | 6.300269 | 31 | 6.297000 | 189 | 6.289392 | 313 | 295 |
| 6 | 6.300238 | 36 | 6.296811 | 195 | 6.289080 | 316 | 294 |
| 7 | 6.300202 | 41 | 6.296616 | 200 | 6.288764 | 319 | 293 |
| 8 | 6.300161 | 47 | 6.296416 | 204 | 6.288445 | 322 | 292 |
| 9 | 6.300114 | 53 | 6.296212 | 209 | 6.288123 | 325 | 291 |
| 10 | 6.300061 | 58 | 6.296003 | 213 | 6.287798 | 329 | 290 |
| 11 | 6.300003 | 64 | 6.295790 | 218 | 6.287469 | 331 | 289 |
| 12 | 6.299939 | 69 | 6.295572 | 222 | 6.287138 | 333 | 288 |
| 13 | 6.299870 | 75 | 6.295350 | 227 | 6.286805 | 336 | 287 |
| 14 | 6.299795 | 80 | 6.295123 | 232 | 6.286469 | 339 | 286 |
| 15 | 6.299715 | 85 | 6.294891 | 236 | 6.286130 | 341 | 285 |
| 16 | 6.299630 | 91 | 6.294655 | 241 | 6.285789 | 343 | 284 |
| 17 | 6.299539 | 97 | 6.294414 | 245 | 6.285446 | 345 | 283 |
| 18 | 6.299442 | 102 | 6.294169 | 249 | 6.285101 | 348 | 282 |
| 19 | 6.299340 | 107 | 6.293920 | 254 | 6.284753 | 350 | 281 |
| 20 | 6.299233 | 112 | 6.293666 | 258 | 6.284403 | 351 | 280 |
| 21 | 6.299121 | 118 | 6.293408 | 262 | 6.284052 | 353 | 279 |
| 22 | 6.299003 | 123 | 6.293146 | 266 | 6.283699 | 355 | 278 |
| 23 | 6.298880 | 128 | 6.292880 | 270 | 6.283344 | 357 | 277 |
| 24 | 6.298752 | 134 | 6.292610 | 274 | 6.282987 | 358 | 276 |
| 25 | 6.298618 | 139 | 6.292336 | 278 | 6.282629 | 360 | 275 |
| 26 | 6.298479 | 144 | 6.292058 | 281 | 6.282269 | 361 | 274 |
| 27 | 6.298335 | 149 | 6.291777 | 285 | 6.281908 | 362 | 273 |
| 28 | 6.298186 | 154 | 6.291492 | 289 | 6.281546 | 363 | 272 |
| 29 | 6.298032 | 159 | 6.291203 | 292 | 6.281183 | 365 | 271 |
| 30 | 6.297873 | | 6.290910 | | 6.280818 | | 270 |
| Gr. | XI | | X | | IX | | |

TABULA V.

209

Logarithmi distantiarum Planetæ a Sole.
Argumentum: *Anomalia media Planetæ.*

| Sign. | III | | IV | | V | | |
|-------|-----------|--------|-----------|--------|-----------|--------|-----|
| Gr. | Logarith. | Difer. | Logarith. | Difer. | Logarith. | Difer. | Gr. |
| 0 | 6. 280418 | | 6. 269969 | | 6. 261482 | | 30 |
| 1 | 6. 280453 | 265 | 6. 269630 | 339 | 6. 261277 | 205 | 29 |
| 2 | 6. 280487 | 366 | 6. 269294 | 336 | 6. 261078 | 199 | 28 |
| 3 | 6. 279720 | 367 | 6. 268960 | 334 | 6. 260884 | 193 | 27 |
| | | | | 331 | | 187 | |
| 4 | 6. 279353 | | 6. 268629 | | 6. 260698 | | 26 |
| 5 | 6. 278985 | 268 | 6. 268302 | 327 | 6. 260517 | 181 | 25 |
| 6 | 6. 278617 | 368 | 6. 267978 | 324 | 6. 260343 | 174 | 24 |
| 7 | 6. 278248 | 369 | 6. 267657 | 321 | 6. 260175 | 168 | 23 |
| | | | | 317 | | 161 | |
| 8 | 6. 277879 | | 6. 267340 | | 6. 260014 | | 22 |
| 9 | 6. 277510 | 369 | 6. 267027 | 313 | 6. 259860 | 154 | 21 |
| 10 | 6. 277142 | 268 | 6. 266717 | 310 | 6. 259713 | 147 | 20 |
| 11 | 6. 276773 | 369 | 6. 266411 | 306 | 6. 259572 | 141 | 19 |
| | | | | 302 | | 134 | |
| 12 | 6. 276405 | | 6. 266109 | | 6. 259438 | | 18 |
| 13 | 6. 276037 | 268 | 6. 265811 | 298 | 6. 259311 | 127 | 17 |
| 14 | 6. 275670 | 367 | 6. 265517 | 294 | 6. 259191 | 120 | 16 |
| 15 | 6. 275304 | 366 | 6. 265228 | 289 | 6. 259078 | 113 | 15 |
| | | | | 285 | | 107 | |
| 16 | 6. 274938 | | 6. 264943 | | 6. 258971 | | 14 |
| 17 | 6. 274573 | 365 | 6. 264662 | 281 | 6. 258872 | 99 | 13 |
| 18 | 6. 274209 | 364 | 6. 264386 | 276 | 6. 258780 | 92 | 12 |
| 19 | 6. 273847 | 362 | 6. 264115 | 271 | 6. 258696 | 84 | 11 |
| | | | | 266 | | 77 | |
| 20 | 6. 273486 | | 6. 263849 | | 6. 258619 | | 10 |
| 21 | 6. 273126 | 360 | 6. 263588 | 261 | 6. 258548 | 71 | 9 |
| 22 | 6. 272767 | 359 | 6. 263332 | 256 | 6. 258485 | 63 | 8 |
| 23 | 6. 272410 | 357 | 6. 263082 | 250 | 6. 258430 | 55 | 7 |
| | | | | 245 | | 48 | |
| 24 | 6. 272055 | | 6. 262837 | | 6. 258382 | | 6 |
| 25 | 6. 271702 | 353 | 6. 262597 | 240 | 6. 258341 | 41 | 5 |
| 26 | 6. 271351 | 351 | 6. 262362 | 235 | 6. 258307 | 34 | 4 |
| 27 | 6. 271002 | 349 | 6. 262133 | 229 | 6. 258281 | 26 | 3 |
| | | | | 223 | | 18 | |
| 28 | 6. 270655 | | 6. 261910 | | 6. 258263 | | 2 |
| 29 | 6. 270311 | 344 | 6. 261693 | 217 | 6. 258252 | 11 | 1 |
| 30 | 6. 269969 | 242 | 6. 261482 | 211 | 6. 258248 | 4 | 0 |
| Gr. | VIII | | VII | | VI | | Br. |

TABULA VI.

Latitudo, Reductio Longitudinis Planetas ad eclipticam, & Reductio Logarithmi distantie Planetas a Sole.

Argumentum: Longitudo vera Planetas — Longit. Nodi.

| O. Boreal. VI Austr. | | | I. Boreal. VII Austr. | | | II Boreal. VIII Austr. | | | | | | | | | | |
|----------------------|-----------|-------|--------------------------------|------------------|------|--------------------------------|------------------|-----------|----|-------|----|-------------|----|---|----|-----|
| Gr. | Latitudo. | | Reductio Logarithm. distantie. | Reductio Longit. | Par. | Reductio Logarithm. distantie. | Reductio Longit. | Par. | | | | | | | | |
| | G. | M. S. | | | | | | | G. | M. S. | G. | M. S. | | | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 12 | 8 | 10 | 0 | 40 | 12 | 8 | 30 | 30 |
| 1 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 54 | 8 | 11 | 0 | 40 | 36 | 8 | 30 | 29 |
| 2 | 0 | 1 | 0 | 0 | 0 | 0 | 24 | 36 | 8 | 11 | 0 | 40 | 59 | 8 | 31 | 28 |
| 3 | 0 | 2 | 1 | 0 | 0 | 0 | 25 | 17 | 9 | 12 | 0 | 41 | 21 | 8 | 31 | 27 |
| 4 | 0 | 3 | 1 | 0 | 0 | 0 | 25 | 57 | 9 | 12 | 0 | 41 | 43 | 7 | 32 | 26 |
| 5 | 0 | 4 | 2 | 0 | 0 | 0 | 26 | 37 | 9 | 13 | 0 | 42 | 4 | 7 | 32 | 25 |
| 6 | 0 | 4 | 2 | 0 | 0 | 0 | 27 | 17 | 9 | 14 | 0 | 42 | 24 | 7 | 33 | 24 |
| 7 | 0 | 5 | 2 | 0 | 1 | 0 | 27 | 56 | 9 | 14 | 0 | 42 | 43 | 7 | 33 | 23 |
| 8 | 0 | 6 | 2 | 1 | 1 | 0 | 28 | 35 | 9 | 15 | 0 | 43 | 2 | 7 | 34 | 22 |
| 9 | 0 | 7 | 2 | 1 | 1 | 0 | 29 | 13 | 9 | 16 | 0 | 43 | 20 | 6 | 35 | 21 |
| 10 | 0 | 8 | 3 | 1 | 1 | 0 | 29 | 50 | 9 | 16 | 0 | 43 | 37 | 6 | 35 | 20 |
| 11 | 0 | 8 | 3 | 1 | 1 | 0 | 30 | 27 | 9 | 17 | 0 | 43 | 53 | 6 | 35 | 19 |
| 12 | 0 | 9 | 3 | 2 | 2 | 0 | 31 | 3 | 9 | 18 | 0 | 44 | 8 | 6 | 36 | 18 |
| 13 | 0 | 10 | 4 | 2 | 2 | 0 | 31 | 39 | 9 | 18 | 0 | 44 | 25 | 5 | 36 | 17 |
| 14 | 0 | 11 | 4 | 2 | 2 | 0 | 32 | 14 | 9 | 19 | 0 | 44 | 37 | 5 | 37 | 16 |
| 15 | 0 | 12 | 5 | 3 | 3 | 0 | 32 | 49 | 9 | 20 | 0 | 44 | 50 | 5 | 37 | 15 |
| 16 | 0 | 12 | 5 | 3 | 3 | 0 | 33 | 23 | 9 | 21 | 0 | 45 | 2 | 4 | 37 | 14 |
| 17 | 0 | 13 | 5 | 3 | 3 | 0 | 33 | 57 | 9 | 21 | 0 | 45 | 13 | 4 | 38 | 13 |
| 18 | 0 | 14 | 6 | 4 | 4 | 0 | 34 | 30 | 9 | 22 | 0 | 45 | 24 | 4 | 38 | 12 |
| 19 | 0 | 15 | 6 | 4 | 4 | 0 | 35 | 2 | 9 | 23 | 0 | 45 | 34 | 3 | 38 | 11 |
| 20 | 0 | 15 | 6 | 5 | 5 | 0 | 35 | 33 | 9 | 23 | 0 | 45 | 43 | 3 | 38 | 10 |
| 21 | 0 | 16 | 6 | 5 | 5 | 0 | 36 | 4 | 9 | 24 | 0 | 45 | 51 | 3 | 39 | 9 |
| 22 | 0 | 17 | 7 | 6 | 6 | 0 | 36 | 34 | 9 | 25 | 0 | 45 | 58 | 3 | 39 | 8 |
| 23 | 0 | 18 | 7 | 6 | 6 | 0 | 37 | 4 | 9 | 25 | 0 | 46 | 4 | 2 | 39 | 7 |
| 24 | 0 | 18 | 7 | 7 | 7 | 0 | 37 | 33 | 9 | 26 | 0 | 46 | 10 | 2 | 39 | 6 |
| 25 | 0 | 19 | 7 | 7 | 7 | 0 | 38 | 1 | 9 | 27 | 0 | 46 | 15 | 2 | 39 | 5 |
| 26 | 0 | 20 | 7 | 8 | 8 | 0 | 38 | 29 | 9 | 27 | 0 | 46 | 18 | 1 | 39 | 3 |
| 27 | 0 | 21 | 7 | 8 | 8 | 0 | 38 | 56 | 9 | 28 | 0 | 46 | 21 | 1 | 39 | 2 |
| 28 | 0 | 21 | 8 | 9 | 9 | 0 | 39 | 22 | 8 | 28 | 0 | 46 | 23 | 1 | 40 | 1 |
| 29 | 0 | 22 | 8 | 9 | 9 | 0 | 39 | 47 | 8 | 29 | 0 | 46 | 25 | 0 | 40 | 1 |
| 30 | 0 | 23 | 8 | 10 | 10 | 0 | 40 | 12 | 8 | 30 | 0 | 46 | 25 | 0 | 40 | 0 |
| Gr. | XI Austr. | | + | X Austr. | | | + | XI Austr. | | | + | III Boreal. | | | + | Gr. |
| | V Boreal. | | + | IV Boreal. | | | + | | | | | | | | | |

TABULAE
ad supputandam Longitudinem geocentricam.
NOVI PLANETAE.

Ad supputandam Longitudinem geocentricam Novi Planetæ.
Argumentum I: *Longit. vera Solis* — *Longit. helioc. Planetæ.*

| Sign. | O | | I | | II | | | | | |
|-------|-----------|---------|----------|-----------|----------|---------|-----------|----|------|----|
| | + | | + | | + | | | | | |
| Gr. | G. M. S. | Differ. | G. M. S. | Differ. | G. M. S. | Differ. | Gr. | | | |
| 0 | 0. 0. 0 | 3' | 0'' | 1. 26. 13 | 2' | 38'' | 2. 32. 3 | 1' | 38'' | 20 |
| 1 | 0. 3. 0 | 2. | 59 | 1. 28. 51 | 2. | 36 | 2. 33. 41 | 1. | 35 | 29 |
| 2 | 0. 5. 59 | 2. | 59 | 1. 31. 27 | 2. | 35 | 2. 35. 16 | 1. | 23 | 28 |
| 3 | 0. 8. 58 | 2. | 59 | 1. 34. 2 | 2. | 34 | 2. 36. 49 | 1. | 30 | 27 |
| 4 | 0. 11. 57 | 2. | 59 | 1. 36. 36 | 2. | 32 | 2. 38. 19 | 1. | 27 | 26 |
| 5 | 0. 14. 56 | 2. | 59 | 1. 39. 8 | 2. | 30 | 2. 39. 46 | 1. | 24 | 25 |
| 6 | 0. 17. 55 | 2. | 58 | 1. 41. 38 | 2. | 29 | 2. 41. 10 | 1. | 21 | 24 |
| 7 | 0. 20. 53 | 2. | 58 | 1. 44. 7 | 2. | 27 | 2. 42. 31 | 1. | 19 | 23 |
| 8 | 0. 23. 51 | 2. | 58 | 1. 46. 34 | 2. | 25 | 2. 43. 50 | 1. | 16 | 22 |
| 9 | 0. 26. 40 | 2. | 57 | 1. 48. 59 | 2. | 24 | 2. 45. 6 | 1. | 13 | 21 |
| 10 | 0. 29. 46 | 2. | 57 | 1. 51. 23 | 2. | 22 | 2. 46. 19 | 1. | 11 | 20 |
| 11 | 0. 32. 43 | 2. | 56 | 1. 53. 45 | 2. | 20 | 2. 47. 30 | 1. | 7 | 19 |
| 12 | 0. 35. 39 | 2. | 56 | 1. 56. 5 | 2. | 18 | 2. 48. 37 | 1. | 4 | 18 |
| 13 | 0. 38. 35 | 2. | 55 | 1. 58. 23 | 2. | 16 | 2. 49. 41 | 1. | 2 | 17 |
| 14 | 0. 41. 30 | 2. | 54 | 2. 0. 39 | 2. | 14 | 2. 50. 43 | 0. | 59 | 16 |
| 15 | 0. 44. 25 | 2. | 54 | 2. 2. 53 | 2. | 12 | 2. 51. 42 | 0. | 55 | 15 |
| 16 | 0. 47. 19 | 2. | 53 | 2. 5. 5 | 2. | 10 | 2. 52. 37 | 0. | 53 | 14 |
| 17 | 0. 50. 12 | 2. | 52 | 2. 7. 15 | 2. | 8 | 2. 53. 30 | 0. | 49 | 13 |
| 18 | 0. 53. 4 | 2. | 51 | 2. 9. 23 | 2. | 6 | 2. 54. 19 | 0. | 47 | 12 |
| 19 | 0. 55. 55 | 2. | 50 | 2. 11. 29 | 2. | 4 | 2. 55. 6 | 0. | 43 | 11 |
| 20 | 0. 58. 45 | 2. | 50 | 2. 13. 33 | 2. | 2 | 2. 55. 49 | 0. | 40 | 10 |
| 21 | 1. 1. 35 | 2. | 49 | 2. 15. 35 | 2. | 1 | 2. 56. 29 | 0. | 37 | 9 |
| 22 | 1. 4. 24 | 2. | 48 | 2. 17. 34 | 1. | 59 | 2. 57. 6 | 0. | 34 | 8 |
| 23 | 1. 7. 12 | 2. | 46 | 2. 19. 31 | 1. | 57 | 2. 57. 40 | 0. | 31 | 7 |
| 24 | 1. 9. 58 | 2. | 46 | 2. 21. 26 | 1. | 54 | 2. 58. 11 | 0. | 28 | 6 |
| 25 | 1. 12. 44 | 2. | 44 | 2. 23. 18 | 1. | 50 | 2. 58. 39 | 0. | 24 | 5 |
| 26 | 1. 15. 38 | 2. | 43 | 2. 25. 8 | 1. | 48 | 2. 59. 8 | 0. | 21 | 4 |
| 27 | 1. 18. 11 | 2. | 42 | 2. 26. 56 | 1. | 45 | 2. 59. 24 | 0. | 18 | 3 |
| 28 | 1. 20. 53 | 2. | 41 | 2. 28. 41 | 1. | 43 | 2. 59. 42 | 0. | 15 | 2 |
| 29 | 1. 24. 34 | 2. | 39 | 2. 30. 24 | 1. | 40 | 2. 59. 57 | 0. | 12 | 1 |
| 30 | 1. 26. 13 | 2. | 39 | 2. 32. 4 | 1. | 40 | 3. 0. 9 | 0. | 9 | 0 |
| Gr. | — | | — | | — | | — | | Gr. | |
| Sign. | XI | | X | | IX | | | | | |

Ad supputandam Longitudinem geocentricam Novi Planetæ.
Argumentum I: Longit. vera Solis — Longit. helioc. Planetæ.

| Sign. | III | | IV | | V | | Gr. |
|-------|-----------|---------|-----------|---------|-----------|---------|-----|
| | + | | + | | + | | |
| Gr. | G. M. S. | Differ. | G. M. S. | Differ. | G. M. S. | Differ. | Gr. |
| 0 | 3. 0. 9 | | 2. 40. 15 | 1' 31'' | 1. 34. 25 | 2' 50'' | 30 |
| 1 | 3. 0. 17 | 0. 0 | 2. 38. 44 | 1. 33 | 1. 31. 55 | 2. 51 | 29 |
| 2 | 3. 0. 22 | 0. 0 | 2. 37. 11 | 1. 37 | 1. 28. 44 | 2. 53 | 28 |
| 3 | 3. 0. 24 | 0. 0 | 2. 35. 34 | 1. 40 | 1. 25. 51 | 2. 55 | 27 |
| 4 | 3. 0. 22 | 0. 0 | 2. 33. 54 | 1. 43 | 1. 22. 56 | 2. 57 | 26 |
| 5 | 3. 0. 17 | 0. 0 | 2. 32. 11 | 1. 46 | 1. 19. 59 | 2. 58 | 25 |
| 6 | 3. 0. 9 | 0. 0 | 2. 30. 25 | 1. 49 | 1. 17. 1 | 3. 0 | 24 |
| 7 | 2. 59. 57 | 0. 17 | 2. 28. 36 | 1. 52 | 1. 14. 1 | 3. 2 | 23 |
| 8 | 2. 59. 42 | 0. 18 | 2. 26. 44 | 1. 55 | 1. 10. 59 | 3. 3 | 22 |
| 9 | 2. 59. 24 | 0. 21 | 2. 24. 49 | 1. 58 | 1. 7. 56 | 3. 5 | 21 |
| 10 | 2. 59. 3 | 0. 25 | 2. 22. 51 | 2. 1 | 1. 4. 51 | 3. 6 | 20 |
| 11 | 2. 58. 38 | 0. 28 | 2. 20. 50 | 2. 3 | 1. 1. 45 | 3. 7 | 19 |
| 12 | 2. 58. 10 | 0. 32 | 2. 18. 47 | 2. 6 | 0. 58. 38 | 3. 8 | 18 |
| 13 | 2. 57. 38 | 0. 35 | 2. 16. 41 | 2. 9 | 0. 55. 30 | 3. 10 | 17 |
| 14 | 2. 57. 3 | 0. 38 | 2. 14. 32 | 2. 12 | 0. 52. 20 | 3. 11 | 16 |
| 15 | 2. 56. 25 | 0. 42 | 2. 12. 20 | 2. 15 | 0. 49. 9 | 3. 12 | 15 |
| 16 | 2. 55. 43 | 0. 45 | 2. 10. 5 | 2. 17 | 0. 45. 57 | 3. 13 | 14 |
| 17 | 2. 54. 58 | 0. 48 | 2. 7. 48 | 2. 19 | 0. 42. 44 | 3. 14 | 13 |
| 18 | 2. 54. 10 | 0. 52 | 2. 5. 29 | 2. 22 | 0. 39. 30 | 3. 14 | 12 |
| 19 | 2. 53. 18 | 0. 55 | 2. 3. 7 | 2. 25 | 0. 36. 16 | 3. 15 | 11 |
| 20 | 2. 52. 43 | 0. 58 | 2. 0. 42 | 2. 28 | 0. 33. 4 | 3. 16 | 10 |
| 21 | 2. 51. 25 | 1. 1 | 1. 58. 14 | 2. 30 | 0. 29. 45 | 3. 17 | 9 |
| 22 | 2. 50. 24 | 1. 5 | 1. 55. 44 | 2. 32 | 0. 26. 28 | 3. 17 | 8 |
| 23 | 2. 49. 19 | 1. 8 | 1. 53. 12 | 2. 34 | 0. 23. 11 | 3. 18 | 7 |
| 24 | 2. 48. 11 | 1. 11 | 1. 50. 38 | 2. 37 | 0. 19. 53 | 3. 18 | 6 |
| 25 | 2. 47. 6 | 1. 15 | 1. 48. 1 | 2. 39 | 0. 16. 35 | 3. 19 | 5 |
| 26 | 2. 45. 45 | 1. 18 | 1. 45. 22 | 2. 41 | 0. 13. 16 | 3. 19 | 4 |
| 27 | 2. 44. 27 | 1. 21 | 1. 42. 41 | 2. 43 | 0. 9. 57 | 3. 19 | 3 |
| 28 | 2. 43. 6 | 1. 24 | 1. 39. 58 | 2. 45 | 0. 6. 38 | 3. 19 | 2 |
| 29 | 2. 41. 42 | 1. 27 | 1. 37. 12 | 2. 48 | 0. 3. 19 | 3. 19 | 1 |
| 30 | 2. 40. 15 | 1. 27 | 1. 34. 25 | | 0. 0. 0 | 3. 19 | 0 |
| Gr. | — | | — | | — | | Gr. |
| Sign. | VIII | | VII | | VI | | |

D d

Ad supputandam Longitudinem geocentricam
Novi Planetæ .

TABULA VIII.

Arg. II = Arg. I + Anom. med.
Planetæ .
Arg. III = Arg. I - Anom. med.
Planetæ .

| Sign. | 0 | I | II | | |
|-------|-------|-------|-------|-------|----|
| Sign. | VI | VII | VIII | | |
| Gr. | M. S. | M. S. | M. S. | Gr. | |
| | 0 | 0. 0 | 2. 11 | 3. 47 | 30 |
| | 3 | 0. 14 | 2. 23 | 3. 53 | 27 |
| | 6 | 0. 27 | 2. 34 | 3. 59 | 24 |
| | 9 | 0. 41 | 2. 45 | 4. 5 | 21 |
| | 12 | 0. 55 | 2. 55 | 4. 9 | 18 |
| | 15 | 1. 8 | 3. 5 | 4. 13 | 15 |
| | 18 | 1. 21 | 3. 15 | 4. 16 | 12 |
| | 21 | 1. 34 | 3. 24 | 4. 19 | 9 |
| | 24 | 1. 47 | 3. 32 | 4. 21 | 6 |
| | 27 | 1. 59 | 3. 40 | 4. 22 | 3 |
| | 30 | 2. 11 | 3. 47 | 4. 22 | 0 |
| Sign. | V | IV | III | Gr. | |
| Sign. | XI | X | IX | | |

TABULA IX.

Arg. IV = Arg. I + Anom. med.
Solis .
Arg. V = Arg. I - Anom. med.
Solis .

| Sign. | 0 | I | II | | |
|-------|-------|-------|-------|-------|----|
| Sign. | VI | VII | VIII | | |
| Gr. | M. S. | M. S. | M. S. | Gr. | |
| | 0 | 0. 0 | 0. 46 | 1. 19 | 30 |
| | 3 | 0. 5 | 0. 50 | 1. 21 | 27 |
| | 6 | 0. 10 | 0. 54 | 1. 23 | 24 |
| | 9 | 0. 14 | 0. 57 | 1. 25 | 21 |
| | 12 | 0. 19 | 1. 1 | 1. 27 | 18 |
| | 15 | 0. 24 | 1. 4 | 1. 28 | 15 |
| | 18 | 0. 28 | 1. 8 | 1. 29 | 12 |
| | 21 | 0. 33 | 1. 11 | 1. 30 | 9 |
| | 24 | 0. 37 | 1. 14 | 1. 31 | 6 |
| | 27 | 0. 41 | 1. 16 | 1. 31 | 3 |
| | 30 | 0. 46 | 1. 19 | 1. 31 | 0 |
| Sign. | V | IV | III | Gr. | |
| Sign. | XI | X | IX | | |



Ad supputandam Longitudinem geocentricam
Novi Planetæ.

TABULA X.

Arg. VI = Arg. I + Arg. II
Arg. VII = Arg. I + Arg. III

| Sign. | + | I | II | |
|-------|------|------|------|-----|
| | VI | VII | VIII | |
| Gr. | Sec. | Sec. | Sec. | Gr. |
| 0 | 0,0 | 6,7 | 11,6 | 30 |
| 5 | 1,2 | 7,7 | 12,2 | 25 |
| 10 | 2,3 | 8,6 | 12,6 | 20 |
| 15 | 3,4 | 9,5 | 13,0 | 15 |
| 20 | 4,5 | 10,3 | 13,3 | 10 |
| 25 | 5,6 | 11,0 | 13,5 | 5 |
| 30 | 6,7 | 11,6 | 13,7 | 0 |
| Sign. | + | + | + | Gr. |
| | V | IV | III | |
| Sign. | - | - | - | |
| | XI | X | IX | |

TABULA XI.

Arg. VIII = Arg. II + Anom.
med. Planetæ.
Arg. IX = Arg. III - Anom.
med. Planetæ.

| Sign. | + | I | II | |
|-------|------|------|------|-----|
| | VI | VII | VIII | |
| Gr. | Sec. | Sec. | Sec. | Gr. |
| 0 | 0,0 | 3,2 | 5,5 | 30 |
| 5 | 0,6 | 3,7 | 5,8 | 25 |
| 10 | 1,1 | 4,1 | 6,0 | 20 |
| 15 | 1,6 | 4,5 | 6,1 | 15 |
| 20 | 2,2 | 4,9 | 6,2 | 10 |
| 25 | 2,7 | 5,2 | 6,3 | 5 |
| 30 | 3,2 | 5,5 | 6,4 | 0 |
| Sign. | + | + | + | Gr. |
| | V | IV | III | |
| Sign. | - | - | - | |
| | XI | X | IX | |



Ad supputandam Longitudinem geocentricam
Novi Planetæ.

TABULA XII.

$$\text{Arg. X} \equiv \text{Arg. I} + \text{Arg. IV}$$

$$\text{Arg. XI} \equiv \text{Arg. I} + \text{Arg. V}$$

| Sign. | O | I | II | |
|-------|------|------|------|-----|
| — | — | — | — | — |
| Sign. | VI | VII | VIII | |
| — | + | + | + | — |
| Gr. | Sec. | Sec. | Sec. | Gr. |
| 0 | 0,0 | 2,3 | 4,1 | 30 |
| 5 | 0,4 | 2,7 | 4,2 | 25 |
| 10 | 0,8 | 3,0 | 4,3 | 20 |
| 15 | 1,2 | 3,4 | 4,5 | 15 |
| 20 | 1,6 | 3,7 | 4,6 | 10 |
| 25 | 2,0 | 3,9 | 4,7 | 5 |
| 30 | 2,3 | 4,1 | 4,8 | 0 |
| — | — | — | — | — |
| Sign. | V | IV | III | Gr. |
| — | — | — | — | — |
| Sign. | XI | X | IX | |
| — | + | + | + | — |



OBSERVATIONES SATELLITUM JOVIS

habitae tubo achromatico Dollondiano octo pedum

A BARNABA ORIANI.

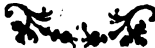
An. 1782.

Temp. vero.

| | | |
|------------|--------------------|----------------------------|
| 17 Maji | Imm. II satellitis | 10 ^h . 30' 40'' |
| 27 Maji | Imm. I..... | 11. 25. 6 |
| 14 Junii | Imm. III..... | 11. 5. 21 dubia. |
| 13 Julii | Imm. II..... | 9. 34. 3 |
| 21 Julii | Em. I..... | 10. 16. 6 |
| 13 Augusti | Em. I..... | 10. 33. 59 |
| 14 Augusti | Em. II..... | 9. 10. 41 |
| 29 Augusti | Em. I..... | 8. 56. 58 |

An. 1783.

| | | |
|-----------|------------|------------------|
| 9 Augusti | Em. I..... | 11. 42. 31 |
| 3 Octob. | Em. I..... | 8. 55. 15 dubia. |
| 19 Octob. | Em. I..... | 7. 18. 26 |



OCCULTATIONES STELLARUM ϵ PISCUM ET π SCORPII

observatae & supputatae

AB ANGELO DE CESARIS.

Die 5 Martii anni 1783 Luna stellam occultavit ϵ Piscium. Imersionem observavi $6^h 27' 1''$; emergence $7^h 25' 29''$ tempore vero: telescipio usus sum Shortiano focum pedum duorum. Duplex, ut notum est, harum observationum est finis. Nam & ex nota positione stellae, Lunae positio deducitur, mox cum tabulis comparanda; & ex apparente phaenomeno, vera Lunae cum stella conjunctio supputatur, atque tempora, quae diversis astronomis diversa sunt, invicem conferuntur determinandis geographicis longitudinibus. Quia vero tum positiones stellarum non eadem accurate sunt penes auctores omnes, tum fastidiosa calculi series vitari facile potest minimo etiam errore; totam ipsam seriem exponere generatim solemus; ut si quid ultimo deducitur, quod minus arideat; singula elementa persequi & cognoscere; & id corrigere omnibus liceat, quod calculatorem fefellit. Sint itaque

Elementa Calculi.

Ex catalogo Tobiae Mayer longitudo stellae ad initium anni 1756 = $0^{\circ} 14' 7'' 34'''$; latitudo borealis $1^{\circ} 4' 46'' 33'''$. Adhibitis aequationibus ob praecessionem aequinoctiorum, item ob decrementum obliquitatis eclipticae; tum ob

aberrationem luminis & nutationem axis, est tempore observationis longitudo stellae $0^{\circ} 14^{\circ} 30' 2''{,}5$ latitudo borealis $1^{\circ} 4' 52''{,}1$.

| <i>Temp. Immerf.</i> | | <i>Temp. Emerf.</i> | |
|------------------------------------|--|-------------------------------------|-------|
| $0^{\circ} 15^{\circ} 6' 44''{,}0$ | Longitudo vera Lunae .. | $0^{\circ} 15^{\circ} 33' 17''{,}0$ | |
| + | 8 ,5 Aequatio ob normalem . | + | 8 ,5 |
| $0. 15. 6. 52 ,5$ | Longit. Lunae ex normali | $0. 15. 33. 25 ,5$ | |
| 1. 34. 24 ,4 | Latit. vera Lunae borealis | 1. 36. 44 ,6 | |
| + | 19 ,5 Aequatio ob normalem | + | 19 ,5 |
| 2. 34. 43 ,9 | Latit. Lunae ex normali <i>L</i> | 2. 37. 4 ,1 | |
| 56. 29 ,9 | Parallaxis Lunae Mediol. | 56. 28 ,6 | |
| + | 15 ,2 Aequatio ob normalem .. | + | 15 ,2 |
| 56. 45 ,1 | Parallaxis correcta <i>P</i> | 56. 43 ,8 | |
| 30. 51 ,0 | Diameter horizont. Lunae | 30. 50 ,2 | |
| + | 7 ,0 Aequatio ob altitud. Lunae | + | 5 ,0 |
| 15. 29 ,0 | <i>R</i> Semidiameter appar. <i>R'</i> | 15. 27 ,6 | |
| 67. 51. 37 ,0 | Altitudo Nonagesimi <i>H</i> . | 67. 56. 2 ,0 | |
| 2. 24. 32. 49 ,0 | Longitudo Nonagesimi .. | 3. 3. 42. 39 ,0 | |
| 69. 25. 57 ,0 | Dist. ^a Lunae a Nonages. <i>D</i> | 78. 9. 13 ,0 | |

Unde cum sit parallaxis longitudinis $\pi = \frac{P. \sin. D. \sin. H.}{\cos. L}$

parallaxis latitudini $\pi' = P. \cos. H. \cos. L - P. \sin. L. \sin. H. \cos. D$, erit

| | | |
|---------------------------|--|--------------------------|
| $70^{\circ} 15' 11''{,}0$ | Dist. ^a app. Lunae a Nonag. | $79^{\circ} 0' 42''{,}0$ |
| 1. 13. 51 ,0 | Latit. appar. Lunae bor. | 1. 16. 4 ,0 |

Quae quantitates si substituuntur in formulis superioribus habebitur accuratius.

Tempore Immerſionis.

$\pi = 49' 29'', 2$

$\pi' = 21' 23'' 0 - 22'', 6$

$0^\circ 14' 17' 23'', 3$

$1^\circ 13' 43'', 9$

Parall. longit.

Parallax. latit.

Long. Lun. app.

Lat. Lun. app. L

Tempore Emerſionis.

$\pi = 51' 37'', 4$

$\pi' = 21' 18'' 4 - 13'', 9$

$0^\circ 14' 41' 48'', 1$

$1^\circ 15' 59'', 9$

Si dicatur d longitudinum apparentium differentia; d' differentia latitudinum, erit $\frac{d'}{d \cdot \cos L}$ tangens anguli A inclinationis orbitae apparentis ad eclipticam; & motus

Lunae in eadem orbita $M = \frac{d'}{\sin A}$. Habebuntur praeterea anguli B & C , quos cum apparente item orbita efficiunt semidiametri R & R' ; & si fiat $\frac{R + R' \cdot R - R'}{M} = N$

erit $\cos B = \frac{M + N}{2R}$; erit $\cos C = \frac{M - N}{2R'}$; tum e-

rumdem semidiametrorum anguli cum ecliptica erunt $B - A$, & $C + A$; & quaesitae differentiae apparentium longitudinum Lunae & stellae $R \cdot \cos B - A$; $R' \cdot \cos C + A = \delta$; differentiae vero latitudinum $R \cdot \sin B - A$; $R' \cdot \sin C + A = \delta'$. Quae apparentes differentiae in differentias positionum verarum abeunt, eas primum reducendo ad eclipticam, divisione per cosinum latitudinis stellae, tum adhibitis aequationibus parallaxium π & π' . Ex inventis denique longitudinum verarum differentiis m' & m'' , & ex motu vero Lunae m intra tempus t , habebitur tempus t' & t'' , quod iisdem percurrendis respondet, eriguntur

$r' = \frac{176^{\text{h}}}{m}$; $s' = \frac{176^{\text{h}}}{m}$; atque inde ultimo tempus conjun-

tionis verae ex utraque immersionis & emersionis obser-
vatione deductum.

Est autem $d = 24^{\circ} 24' 8''$; $d' = 2^{\circ} 15' 1''$; $A = 5^{\circ} 16' 19''$;
 $B = 37^{\circ} 34' 31''$; $C = 37^{\circ} 39' 3''$; δ & $\delta' = 785''$, 2
& $699''$, 3; δ'' & $\delta''' = 496''$, 6 & $631''$, 7; $m = 1593''$;
 $m' = 2184''$; $m'' = 3777''$; $t = 0^{\text{h}} 48' 28''$; $t' = 1^{\text{h}} 6' 26''$, 8;
 $t'' = 1^{\text{h}} 54' 54''$, 3, unde

| Temp. Immers. | | Temp. Emerf. | |
|---------------------------------|---|--------------------------------------|--|
| $\pi - 0^{\circ} 36' 24''$, 0 | Diff. ^a longitudinum ver. | $\pi + \delta 1^{\circ} 2' 56''$, 7 | |
| $\delta 14^{\circ} 30' 2''$, 5 | Longitudo stellae | $0^{\circ} 14^{\circ} 30' 2''$, 5 | |
| $0. 15. 6. 26$, 5 | Longit. Lunae ex observ. | $0. 15. 32. 59$, 2 | |
| $6. 15. 6. 44$, 0 | Longit. Lunae supputata | $0. 15. 33. 17$, 0 | |
| $+ 0. 17$, 5 | Diff. ^a , seu error tabular. | $+ 0. 17$, 8 | |
| $\pi + \delta 29. 16$, 9 | Diff. ^a latitudinum vera . . | $\pi + \delta 10^{\circ} 31. 36$, 8 | |
| $1. 4. 52$, 1 | Latitudo stellae | $1. 4. 52$, 1 | |
| $1. 34. 19$, 0 | Latitudo Lunae ex observ. | $1. 36. 28$, 9 | |
| $1. 34. 24$, 4 | Latitudo Lunae supputata | $1. 36. 44$, 6 | |
| $+ 0. 15$, 4 | Diff. ^a , seu error tabular. | $+ 0. 15$, 7 | |
| $1^{\text{h}} 6' 26''$, 8 | Diff. ^a a conjunct. vera . . | $- 1^{\text{h}} 54' 54''$, 3 | |
| $6. 17. 1$, 0 | Tempus ver. observationis | $7. 15. 29$, 0 | |
| $5. 20. 34$, 2 | Tempus conjunct. verae | $5. 20. 34$, 7 | |

Occultatio π Scorpi 16 Maji 1783.

Immersione: $12^{\text{h}} 10' 47''$; Emerfio $13^{\text{h}} 24' 4''$ temp. vero.
Positio stellae ex catalogo *Mayer* ad observationis epocham

redacta, & ab effectu aberrationis & nutationis correcta, est... longitudo $7^{\circ} 29^{\circ} 55' 14''$,5; latitudo austr. $5^{\circ} 26' 55''$.

Positiones Lunae.

| <i>Temp. Immerf.</i> | | | <i>Temp. Emerf.</i> | |
|--|----------|---|---------------------|----------|
| $7^{\circ} 29^{\circ} 26'$ | $1''$,0 | Longitudo vera Lunae .. | $8^{\circ} 0' 12'$ | $0''$,0 |
| — | 4,5 | Aequatio ob normalem. | — | 4,5 |
| 7. 29. 25. | 56,5 | Longit. Lunae ex normali | 8. 0. 11. 55 | 5,5 |
| 4 32. 8 | 8,8 | Latit. vera Lunae Australis | 4 33. 56 | 5,5 |
| — | 20,6 | Aequatio ab normalem. | — | 20,6 |
| 4 31. 48 | 2,2 | Latit. Lunae ex normali <i>L</i> | 4 33. 35 | 9 |
| 60. 52 | 4 | Parallaxis Lunae Mediol. | 60. 53 | 5 |
| + | 16,2 | Aequatio ob normalem. | + | 16,2 |
| 61. 8 | 6 | Parallaxis correcta <i>P</i> ... | 61. 9 | 7 |
| 33. 14 | 0 | Diameter horizont. Lunae | 33. 15 | 0 |
| + | 12,7 | Aequatio ob altit. Lunae | + | 11,3 |
| 16. 43 | 3 | <i>R</i> Semidiam. Lun. app. <i>R'</i> | 16. 43 | 1 |
| 27. 46. 59 | 0 | Altitudo Nonagesimi <i>H</i> | 22. 42. 52 | 0 |
| 7. 2. 6. | 58,0 | Longitudo Nonagesimi.. | 8. 0. 4. 56 | 0 |
| 27. 18. 58 | 5 | Dist. ^a Lunae a Nonag. <i>D</i> | 0. 6. 58 | 5 |
| $\pi =$ | 13. 7,2 | $\frac{P. \sin. D. \sin. H}{\cos. L}$ | $\pi =$ | 0. 2,88 |
| $\pi' =$ | 54. 10,0 | $\frac{P. \cos. H. \cos. L + P. \sin. L}{\sin. H. \cos. D}$ | $\pi' =$ | 56. 0,0 |
| $\pi =$ | 13. 14,1 | Et restituto calculo, ac | $\pi =$ | 2,89 |
| $\pi' =$ | 56. 14,6 | curatius habentur | $\pi' =$ | 58. 25,1 |
| 7. 29. 39. | 10,6 | Longitudo Lunae appar. | 8. 0. 11. 58 | 4 |
| 5. 18. 2 | 8 | Latitudo Lunae appar. <i>L</i> | 5. 32. 1 | 0 |
| Ex his $d = 32' 47''$,8; $d' = 3' 58''$,2; $A = 6^{\circ} 56' 0''$; | | | | |

$B=C^{\pi}=10^{\circ} 21' 45''$; δ & δ in ecliptica $16' 45'',8$
 & $16' 2'',0$; δ^{π} & δ^{ν} = $1'.0''$ & $4' 58'',2$; $m = 45' 59''$;
 $m' = 29' 59'',9$; $m'' = 15' 59'',1$; $\epsilon = 1^h 13' 17''$;
 $\epsilon' = 47' 48'',6$; $\epsilon'' = 25' 28'',5$; unde

Temp. Immerf.

Temp. Emerf.

| | | |
|-----------------------------------|---------------------------------|-----------------------------------|
| $-\pi - \delta = 29' 59'',9$ | Diff. ^a longit. vera | $\delta - \pi = 15' 59'',1$ |
| $7^{\circ} 29' 55' 14'',5$ | Longitud. stellae | $7^{\circ} 29' 55' 14'',0$ |
| | Longitud. Lunae | |
| $7. 29. 25. 14, 6$ | ex observat. .. | $8. 0. 11. 13, 6$ |
| | Longitud. Lunae | |
| $7. 29. 26. 1, 0$ | supputata | $8. 0. 12. 0, 0$ |
| | Diff. ^a , five error | |
| $+ 0. 46, 4$ | tabularum | $+ 0. 46, 4$ |
| $-\pi + \delta^{\nu} - 55. 14, 6$ | Diff. ^a latit. vera | $-\pi + \delta^{\nu} - 53. 26, 9$ |
| $5. 26. 55, 0$ | Latitudo stellae . | $5. 26. 55, 0$ |
| | Latitudo Lunae | |
| $4. 31. 40, 4$ | ex observat. . . | $4. 33. 28, 1$ |
| | Latitudo Lunae | |
| $4. 32. 8, 8$ | supputata | $4. 33. 36, 5$ |
| | Diff. ^a , five error | |
| $+ 0. 28, 4$ | tabularum | $+ 0. 28, 4$ |
| $+ 0^h 47' 48'',6$ | Dist. ^a a conjun- | $- 0^h 25' 28'',5$ |
| | ctione vera ... | |
| | Tempus verum | |
| $12. 10. 47, 0$ | observationis .. | $13. 24. 4, 0$ |
| | Tempus conjun- | |
| $12^h 58. 35, 0$ | ctionis verae .. | $12^h 58. 35, 5$ |

OBSERVATIONES METEOROLOGICAE
habitae in Specula Mediolanensi anno 1782.
A FRANCISCO REGGIO.

| Mane. | | | | Vespere. | | |
|-------------|----------------|-----------------|---------------|----------------|-----------------|---------------|
| 1782 Jan | Altit. Bar. | Altit. Ther. | Status Coeli. | Altit. Bar. | Altit. Ther. | Status Coeli. |
| 1 | 27. 6,0 | + 0,6 | S. E. nebul. | 27. 10,0 | + 1,5 | O. nebul. |
| 2 | 28. 0,3 | 1,0 | S. E. nub. | 28. 0,3 | 1,5 | O. nub. |
| 3 | 27. 11,6 | 0,5 | O. nub. | 27. 10,3 | 2,2 | O. nub. |
| 4 | 28. 0,0 | 0,6 | O. nub. | 10,3 | 2,0 | O. nub. |
| 5 | 27. 10,3 | 0,0 | O. nebul. | 8,3 | 0,6 | nebul. |
| 6 | 7,6 | - 0,3 | nebul. | 9,3 | 0,0 | N. O. nebul. |
| 7 | 10,3 | 1,6 | N. nebul. | 10,0 | 0,0 | nebul. |
| 8 | 7,5 | 0,0 | O. nix, nub. | 9,0 | 0,0 | nub. |
| 9 | 9,6 | 1,0 | N. fer. | 8,5 | 2,0 | N. fer-nub. |
| 10 | 6,3 | 0,0 | E. nix | 6,0 | 1,0 | E. nix, pluv. |
| 11 | 8,6 | + 1,7 | N. O. pluvia | 11,7 | 4,3 | N. O. nub. |
| 12 | 28. 0,0 | 2,5 | N. E. nub. | 28. 0,3 | 3,6 | E. fer-nub. |
| 13 | 1,3 | 0,3 | E. fer. | 1,0 | 3,2 | O. fer. |
| 14 | 27. 11,3 | - 0,7 | O. fer. | 27. 10,0 | 2,6 | O. fer. |
| 15 | 11,0 | 0,0 | O. fer. | 10,0 | 1,0 | O. fer. |
| 16 | 9,8 | 2,0 | O. nub. | 6,0 | 0,6 | E. nub. |
| 17 | 2,2 | 0,0 | E. nub. nix | 1,0 | 0,6 | O. nub. |
| 18 | 2,0 | 0,0 | N. fer. | 5,0 | 3,6 | N. fer. |
| 19 | 7,2 | 0,5 | N. fer. | 9,0 | 3,6 | N. nub-fer. |
| 20 | 10,3 | 0,5 | N. E. fer. | 11,0 | 1,7 | N. E. fer. |
| 21 | 9,6 | 0,3 | O. nub. | 8,3 | 2,0 | O. nub. |
| 22 | 10,0 | 0,0 | O. nub-fer. | 28. 0,5 | 3,0 | N. fer. |
| 23 | 28. 1,0 | 0,0 | O. fer. | 1,0 | 3,0 | O. fer. |
| 24 | 0,5 | 0,0 | N. O. fer. | 0,0 | 4,0 | N. fer. |
| 25 | 27. 11,5 | + 2,0 | S. E. nub. | 27. 11,3 | 3,2 | O. nub. |
| 26 | 9,7 | - 0,2 | nebul. | 7,0 | 3,0 | E. nub pluv. |
| 27 | 6,3 | + 0,6 | nebul. | 4,0 | 2,0 | O. fer-nub. |
| 28 | 3,0 | - 1,2 | O. nub. | 0,0 | 3,0 | O. fer. |
| 29 | 3,5 | 0,2 | E. nub-fer. | 4,2 | 2,2 | E. fer. |
| 30 | 4,3 | 0,0 | E. nebul. | 5,0 | 0,6 | E. nix |
| 31 | 5,2 | + 0,3 | O. nub. | 5,2 | 1,5 | O. nub. |

Altit. max. Bar. poll. 28. lin. 1,0 | Altitudo maxima Therm. + 4,3
 minima . . . poll. 27. lin. 1,0 | minima - 1,0
 media poll. 27. lin. 8,3 | media + 2,7
 Quant. aquae pluv. poll. 2. lin. 1,8
 Dies fereni 11.

Manc. Vespere.

| Februarij. | Manc. | | Status Coeli. | Vespere. | | Status Coeli. |
|------------|-------------|--------------|----------------|-------------|--------------|----------------|
| | Altit. Bar. | Altit. Ther. | | Altit. Bar. | Altit. Ther. | |
| 1 | 27. 6,5 | + 0,0 | N. O. nub-fer. | 27. 7,0 | + 1,5 | E. nub-fer. |
| 2 | 7,3 | 1,5 | E. pluvia | 7,5 | 3,3 | O. nub. |
| 3 | 9,6 | 0,2 | E. fer. | 7,3 | 3,5 | N. O. fer. |
| 4 | 3,9 | 0,0 | O. nub. | 7,5 | 0,3 | O. fer. |
| 5 | 9,0 | 0,0 | E. nix | 4,6 | 0,2 | E. nix |
| 6 | 3,0 | 0,6 | N. O. nub. | 3,0 | 3,0 | O. nub. |
| 7 | 4,2 | 0,0 | E. fer-nub. | 5,5 | 2,6 | N. O. nub. |
| 8 | 6,3 | 0,6 | O. nub. | 6,5 | 3,6 | O. nub. |
| 9 | 6,5 | 2,0 | E. nub. pluv. | 6,5 | 3,6 | S. E. nub. |
| 10 | 6,5 | 1,0 | N. nebul. | 5,2 | 3,0 | E. fer-nub. |
| 11 | 5,2 | 0,2 | E. nub. | 5,5 | 2,0 | S. E. fer. |
| 12 | 5,5 | - 0,2 | E. nub. | 5,0 | 1,0 | E. nub. |
| 13 | 5,0 | 1,3 | E. nub. | 8,5 | 0,0 | E. nub. |
| 14 | 8,5 | 3,8 | E. fer. | 7,6 | 0,0 | E. fer. |
| 15 | 6,3 | 4,0 | E. fer. | 5,3 | 0,7 | E. fer. |
| 16 | 7,3 | 4,0 | E. fer. | 10,0 | - 2,3 | N. E. fer. |
| 17 | 10,5 | 6,6 | N. E. fer. | 28. 0,0 | 3,8 | E. nub. nix. |
| 18 | 28. 0,3 | 6,0 | O. fer. | 27. 11,5 | 1,3 | O. fer. |
| 19 | 27. 10,5 | 6,0 | O. fer. | 11,0 | 0,0 | E. fer. |
| 20 | 11,6 | 4,0 | O. fer. | 28. 0,5 | + 1,0 | O. fer. |
| 21 | 28. 1,6 | 3,0 | E. fer. | 1,0 | 2,0 | O. fer. |
| 22 | 0,3 | 0,0 | S. O. nub. | 0,2 | 0,6 | N. O. nub. |
| 23 | 0,0 | + 0,2 | E. nix | 0,0 | 1,3 | E. nix |
| 24 | 0,0 | 0,3 | E. nub. | 1,0 | 2,0 | O. nebul. |
| 25 | 1,0 | 0,6 | O. nebul. | 3,0 | 4,9 | O. fer. |
| 26 | 3,0 | 0,5 | O. nebul. | 3,0 | 5,2 | S. O. fer. |
| 27 | 2,0 | 0,5 | O. fer. | 1,3 | 6,0 | S. O. fer. |
| 28 | 0,0 | 1,8 | E. nub. | 27. 11,3 | 5,0 | S. O. nub-fer. |

Altit. max. Bar. poll. 28. lin. 3,0 | Altitudo maxima Therm. + 6,0
 minima... poll. 27. lin. 3,0 | minima..... - 6,6
 media... poll. 27. lin. 2,9 | media..... + 0,4
 Quant. aquae pluv. poll. 1. lin. 2,76
 Dies fereni 12.

| 1782 Martius | Mane. | | | Vespere. | | |
|-----------------|----------------|-----------------|------------------------|----------------|-----------------|----------------|
| | Altit. Bar. | Altit. Ther. | Status Coeli. | Altit. Bar. | Altit. Ther. | Status Coeli. |
| 1 | 27.11,5 | + 2,2 | E. nub. | 27.11,3 | + 6,0 | N. O. nub. |
| 2 | 10,5 | 2,6 | O. nub. | 9,3 | 6,5 | E. pluv.nub. |
| 3 | 7,6 | 4,7 | N. O. nub. | 7,5 | 7,5 | O. fer. |
| 4 | 8,6 | 2,2 | O. fer. | 11,0 | 8,5 | S. E. fer. |
| 5 | 11,3 | 5,0 | S. E. nub. | 10,0 | 9,3 | S. O. fer. |
| 6 | 9,0 | 4,0 | S. E. nub-fer. | 7,2 | 9,0 | S. O. fer-nub. |
| 7 | 6,6 | 4,5 | S. O. fer-nub. | 6,0 | 10,0 | S. O. nub fer. |
| 8 | 5,5 | 6,0 | E. nub pluv | 5,5 | 9,0 | N. E. nub-fer. |
| 9 | 5,5 | 4,0 | E. fer.nebul | 6,0 | 10,0 | E. fer. |
| 10 | 7,2 | 4,5 | O. fer. | 8,7 | 12,0 | N. O. fer. |
| 11 | 10,8 | 5,5 | E. fer.nubul. | 10,0 | 11,0 | O. fer. |
| 12 | 10,0 | 5,5 | E. nub-fer. | 7,5 | 10,0 | O. nub. |
| 13 | 6,5 | 6,5 | N. *fer. | 8,0 | 10,0 | N. fer. |
| 14 | 8,0 | 3,7 | N. E. fer-nub. | 6,2 | 7,5 | S. E. fer. |
| 15 | 6,5 | 4,0 | E. nub. | 6,8 | 5,5 | N. E. nub. |
| 16 | 6,3 | 3,0 | E. nub. | 6,5 | 4,7 | E. nub-fer. |
| 17 | 7,0 | 1,5 | E. nub-fer. | 7,0 | 5,0 | S. E. fer. |
| 18 | 8,0 | 0,3 | E. fer. | 9,0 | 4,5 | O. fer. |
| 19 | 10,0 | - 0,2 | O. fer. | 9,5 | 5,6 | O. fer. |
| 20 | 8,3 | + 1,0 | N. E. nub-fer. | 6,7 | 8,2 | fer-nub. |
| 21 | 6,3 | 3,0 | O. fer. | 6,0 | 8,0 | S. E. fer. |
| 22 | 5,0 | 5,0 | N. E. nub. | 2,5 | 9,0 | S. O. nub. |
| 23 | 0,7 | 6,0 | N. E. nub pluv | 26. 9,0 | 9,0 | E. nub-fer. |
| 24 | 26. 7,6 | 7,0 | s.o n.o. *, n. *, n. * | 27. 0,2 | 0,5 | N. E. *nix |
| 25 | 27. 4,6 | 0,0 | N. fer. | 7,5 | 6,0 | E. nub. |
| 26 | 9,0 | 1,6 | E. fer. | 10,2 | 6,5 | N. fer. |
| 27 | 28. 0,3 | 1,5 | N. E. fer. | 28. 1,5 | 6,6 | E. fer. |
| 28 | 1 8 | 3,0 | E. fer. | 0,5 | 8,5 | O. fer. |
| 29 | 27. 11,2 | 4,0 | E. nub. | 8,5 | 9,7 | O. nub. |
| 30 | 7,3 | 7,0 | E. nub pluv. | 7,6 | 8,0 | E. pluvia |
| 31 | 6,6 | 6,0 | E. pluvia | 5,7 | 7,5 | E. nub. |

Altit. max. Bar. poll. 28. lin. 1,8 | Altitudo maxima Therm. 12,5
 minima... poll. 26. lin. 7,6 | minima... .. = 0,2
 media... poll. 27. lin. 7,7 | media... .. = 7,7
 Quant. aquae pluv. poll. 1. lin 2,58
 Dies fereni... 16.

| 1785 Aprilis. | Mane. | | | Vespere. | | |
|------------------|-------------|--------------|-------------------|-------------|--------------|--------------------|
| | Altit. Bar. | Altit. Ther. | Status Coeli. | Altit. Bar. | Altit. Ther. | Status Coeli. |
| 1 | 27. 5,6 | + 6,5 | S. E.*pluvia | 7. 4,5 | + 8,6 | S. E. nub. |
| 2 | 2,0 | 6,0 | E.*pluvia | 1,7 | 6,6 | E. pluvia |
| 3 | 1,5 | 4,2 | S. O. nub. | 3,0 | 8,0 | S. E. nub. |
| 4 | 3,5 | 4,0 | E. nub. | 5,3 | 7,0 | E. nub. |
| 5 | 5,6 | 3,5 | N. O. fer. | 6,0 | 9,0 | S. O. fer. |
| 6 | 6,5 | 4,0 | E.*fer-nub. | 7,0 | 9,5 | E. nub-fer. |
| 7 | 7,5 | 4,0 | E. fer. | 6,5 | 10,0 | S. E. fer. |
| 8 | 6,5 | 6,0 | S. fer-nub. | 6,0 | 11,0 | S. O. pluvia |
| 9 | 6,6 | 7,0 | E. pluv.nub | 6,7 | 9,0 | E.*nub. |
| 10 | 4,9 | 7,0 | E.*pluvia | 4,6 | 7,6 | E.*nub. |
| 11 | 4,5 | 6,0 | O. nub. | 5,5 | 9,5 | S. nub. |
| 12 | 6,0 | 7,0 | O. nub. | 6,0 | 11,0 | S. E. procella |
| 13 | 6,0 | 7,0 | E. fer-nub. | 5,7 | 11,3 | S. O.*procellosa |
| 14 | 5,3 | 8,5 | E. pluvia | 3,7 | 8,3 | E.*pluvia |
| 15 | 2,5 | 7,3 | E. pluvia | 2,7 | 9,5 | O.*pluvia |
| 16 | 2,3 | 8,0 | S. O. nebul. | 2,0 | 10,3 | S. E. procella |
| 17 | 2,0 | 8,0 | S. O. pluvia | 4,3 | 10,5 | O. nub. |
| 18 | 6,0 | 7,0 | O. fer. | 7,0 | 12,0 | S. O.*nub. |
| 19 | 6,2 | 8,8 | E. pluvia | 6,7 | 11,0 | O. nub-fer. |
| 20 | 6,3 | 6,0 | N. O. fer. | 5,6 | 12,0 | S. E. nub-fer. |
| 21 | 6,0 | 9,5 | E. nub-fer. | 6,3 | 13,0 | S. O. fer. |
| 22 | 7,5 | 8,2 | E. fer. | 7,5 | 14,0 | procella |
| 23 | 8,0 | 10,0 | E. nub. | 9,5 | 12,0 | O. fer. |
| 24 | 10,0 | 11,0 | O. fer-nub. pluv. | 8,6 | 12,6 | S. E. nub. |
| 25 | 6,5 | 10,0 | E. nub. | 3,5 | 10,0 | E.*pluvia |
| 26 | 3,5 | 8,0 | E. nub. | 4,5 | 11,3 | O. fer-nub. |
| 27 | 5,3 | 7,5 | O. fer. | 6,3 | 13,5 | O. fer. |
| 28 | 7,2 | 10,5 | N. E. nub. | 7,5 | 14,0 | S. E. fer. |
| 29 | 8,0 | 10,0 | E. nub. | 6,5 | 13,0 | S. E. nub. pluv. |
| 30 | 5,0 | 10,6 | S. nub. | 4,6 | 14,0 | SS. E. proc. gran. |

Altit. max. Bar. poll. 27. lin. 10,0 | Altitudo maxima Therm. + 14.
 minima .. poll. 27. lin. 1,5 | minima 4.
 media ... poll. 27. lin. 5,5 | media 9.
 Quant. aquae pluv. poll. 5. lin. 1,05
 Dies fereni ... 7.

| Mane . | | | | Vespere . | | |
|--------|----------------|-----------------|-----------------|----------------|-----------------|--------------------|
| 1782 | Altit. Bar. | Altit. Ther. | Status Coeli . | Altit. Bar. | Altit. Ther. | Status Coeli . |
| 1 | 27. 6.6 | + 6.5 | E. *nub. | 27. 8.0 | + 9.0 | E. nub. |
| 2 | 8.6 | 7.0 | E. nub-fer. | 8.6 | 10.5 | O. fer-nub. |
| 3 | 8.8 | 8.0 | E. nub. | 8.7 | 13.5 | E. nub. |
| 4 | 7.3 | 9.6 | E. pluvia | 4.5 | 10.0 | E. pluvia |
| 5 | 2.0 | 8.0 | N. O. pluvia | 1.3 | 9.3 | O. nub. |
| 6 | 3.3 | 7.2 | O. fer. | 6.0 | 12.5 | S. O. *fer. |
| 7 | 7.0 | 7.0 | N. E. fer. | 8.0 | 12.0 | O. *fer. |
| 8 | 8.6 | 6.5 | O. fer. | 8.0 | 12.3 | S. O. nub-fer. |
| 9 | 7.5 | 8.0 | N. fer-nub. | 6.2 | 14.0 | S. E. *pluvia |
| 10 | 6.5 | 9.5 | N. E. pluv-nub. | 8.0 | 12.5 | S. fer. |
| 11 | 9.0 | 8.0 | O. fer. | 9.5 | 15.2 | S. fer. |
| 12 | 10.0 | 11.0 | N. fer-nub. | 9.3 | 15.3 | S. E. pluvia |
| 13 | 9.2 | 12.0 | O. nub. | 9.0 | 15.5 | O. nub. |
| 14 | 5.3 | 13.7 | S. fer-nub. | 8.3 | 17.3 | S. O. fer. |
| 15 | 8.3 | 13.0 | N. O. fer. | 7.5 | 18.0 | O. fer-nub. |
| 16 | 7.0 | 13.0 | O. nub. | 7.0 | 16.5 | S. O. procella |
| 17 | 7.5 | 14.0 | O. fer. | 7.5 | 17.0 | S. fer-nub. |
| 18 | 6.7 | 12.5 | O. fer. | 6.0 | 16.0 | E. nub. |
| 19 | 5.5 | 13.0 | S. O. nub. | 6.0 | 16.0 | S. O. *proc. gran. |
| 20 | 7.7 | 9.8 | E. fer. | 8.0 | 14.5 | E. fer. |
| 21 | 8.6 | 11.0 | N. E. fer. | 8.5 | 15.5 | S. fer. |
| 22 | 8.5 | 12.0 | N. E. pluvia | 7.3 | 13.0 | E. nub. |
| 23 | 8.3 | 12.6 | E. nub-fer. | 8.3 | 16.2 | E. nub-fer. pluv. |
| 24 | 8.2 | 13.5 | E. *nub. | 7.6 | 17.3 | O. *fer-nub. |
| 25 | 11.0 | 11.6 | O. fer. | 11.5 | 17.0 | S. fer-nub. |
| 26 | 11.5 | 13.3 | E. fer. | 10.5 | 17.0 | O. fer-nub. |
| 27 | 10.5 | 13.3 | O. fer. | 10.0 | 18.3 | O. fer. |
| 28 | 10.0 | 15.0 | F. fer. | 10.0 | 20.0 | S. fer. |
| 29 | 10.0 | 16.0 | S. fer-nub. | 10.0 | 21.2 | S. E. fer-nub. |
| 30 | 9.7 | 16.6 | O. fer-nub. | 9.0 | 20.3 | S. O. fer-nub. |
| 31 | 8.5 | 16.0 | O. nub-fer. | 7.0 | 20.0 | S. O. *fer-nub. |

Altit. max. Aar. poll. 27. lin. 11,5 | Altitudo maxima Therm. + 21,3
 minima . . . poll. 27. lin. 1,3 | minima 6,5
 media . . . poll. 27. lin. 8,0 | media 13,
 Quant. aquae pluv. poll. 4. lin. 3,9
 Dies fereni . . . 15.

| Mane. | | | | Vespere. | | |
|---------|----------------|-----------------|---------------|----------------|-----------------|-----------------|
| 1782 | Altit. Bar. | Altit. Ther. | Status Coeli. | Altit. Bar. | Altit. Ther. | Status Coeli. |
| Junius. | | | | | | |
| 1 | 27. 6,3 | + 15,0 | S. O.*nub. | 27. 7,0 | + 17,6 | S. O.*procella |
| 2 | 8,5 | 12,0 | O. fer. | 8,6 | 17,6 | E fer-nub.proc. |
| 3 | 9,2 | 12,5 | O. fer. | 10,5 | 17,0 | S. fer. |
| 4 | 10,6 | 13,0 | E. fer. | 10,7 | 17,0 | O. fer. |
| 5 | 11,0 | 13,2 | E. fer-nub. | 10,5 | 17,5 | S. fer. |
| 6 | 10,7 | 14,0 | E. fer. | 9,6 | 18,5 | S. fer. |
| 7 | 10,3 | 14,0 | E. fer-nub. | 9,6 | 19,0 | S. fer. |
| 8 | 10,3 | 15,0 | E. fer-nub. | 10,5 | 19,3 | E. fer-nub. |
| 9 | 10,5 | 16,5 | S. E. fer. | 10,0 | 20,3 | S. E. fer. |
| 10 | 10,0 | 15,0 | O. fer. | 9,2 | 21,0 | S. E. fer-nub. |
| 11 | 9,0 | 16,0 | E. nub.nebul. | 9,5 | 21,0 | S. O. fer. |
| 12 | 10,2 | 16,5 | O. fer. | 10,0 | 21,3 | E.fer-nub.proc. |
| 13 | 12,2 | 17,0 | E. nub. | 11,0 | 20,0 | O. fer-nub. |
| 14 | 28. 0,5 | 16,0 | E. fer. | 28. 0,6 | 21,0 | E. fer. |
| 15 | 1,0 | 18,7 | E. fer. | 0,5 | 22,0 | E. fer. |
| 16 | 0,5 | 18,7 | E. nub. | 27. 11,5 | 22,0 | E. fer. |
| 17 | 27. 11,5 | 19,0 | E. nub-fer. | 10,3 | 22,5 | S. fer. |
| 18 | 10,0 | 18,0 | O. fer. | 10,0 | 23,6 | S. E. fer. |
| 19 | 10,5 | 19,0 | E fer-nub. | 10,5 | 24,0 | E. fer. |
| 20 | 11,3 | 20,0 | E. fer. | 11,5 | 24,0 | S. E. fer. |
| 21 | 28 0,0 | 18,0 | O. fer. | 11,3 | 24,0 | S. E. fer. |
| 22 | 27. 11,5 | 19,0 | E. fer. | 11,6 | 24,8 | O. E.*nub.proc. |
| 23 | 11,6 | 18,3 | O. fer. | 10,3 | 23,0 | S. E. fer. |
| 24 | 10,5 | 18,3 | E. fer. | 10,0 | 24,0 | S. E. fer. |
| 25 | 10,6 | 19,0 | E. fer. | 9,6 | 23,6 | E. fer. |
| 26 | 10,0 | 19,0 | E. fer. | 9,0 | 24,7 | O. |
| 27 | 9,0 | 19,0 | O. fer. | 9,0 | 24,6 | S.* nub. |
| 28 | 9,5 | 19,0 | O. nub-fer. | 9,0 | 24,0 | O. nub.pluv. |
| 29 | 10,0 | 18,0 | O. nub-fer. | 10,6 | 23,0 | O. nub.pluv. |
| 30 | 11,3 | 18,0 | E. fer. | 10,5 | 22,7 | fer. |

Altit. max. Bar. poll. 28. lin. 1,0 | Altitudo maxima Therm. + 24,8
 minima... poll. 26. lin. 6,3 | minima 12.
 media... poll. 27. lin. 10,4 | media 18,3
 Quant. aquae pluv. poll. o. lin. 4,2
 Dies sereni. 22.

| 178. Julius. | Mane. | | | Vespere. | | |
|-----------------|----------------|-----------------|----------------|----------------|-----------------|--------------------|
| | Altit. Bar. | Altit. Ther. | Status Coeli. | Altit. Bar. | Altit. Ther. | Status Coeli. |
| 1 | 27.10,0 | + 19,0 | E. ser-nub. | 27. 9,6 | + 20,0 | S. E. ser-nub. |
| 2 | 9,0 | + 20,0 | E. ser-nub. | 7,5 | 24,3 | S.*proc.pluv. |
| 3 | 7,0 | 18,0 | S. O. ser. | 8,0 | 23,0 | S. O. ser. |
| 4 | 9,5 | 17,0 | E. nub.pluv. | 8,0 | 21,3 | N. E. nub. |
| 6 | 8,0 | 17,0 | N. E. nub-fer. | 8,7 | 16,0 | N. O.*proc.pluv. |
| 6 | 9,2 | 15,7 | E. nub-fer. | 8,7 | 20,3 | E. ser. |
| 7 | 6,2 | 15,5 | E. pluvia | 7,5 | 18,0 | N. E.*S. E. pluv. |
| 8 | 6,7 | 15,0 | O. fer-nub. | 6,0 | 20,0 | N. E. ser-nub.pr. |
| 9 | 5,7 | 16,0 | O. ser. | 6,1 | 22,5 | N.*fer. |
| 10 | 7,0 | 18,7 | N.*fer. | 7,5 | 23,5 | N. ser-nub. |
| 11 | 8,5 | 18,5 | N. E. ser. | 8,8 | 23,0 | S. ser. |
| 12 | 9,2 | 18,0 | N. ser. | 9,5 | 23,0 | S. O. ser. |
| 13 | 10,5 | 19,0 | N. E. ser. | 10,5 | 24,2 | S. ser. |
| 14 | 11,0 | 20,0 | O. ser. | 10,0 | 26,0 | N. ser nub. |
| 15 | 10,8 | 19,0 | N. ser. | 10,5 | 24,8 | E. ser. |
| 16 | 10,3 | 20,0 | E. ser. | 9,0 | 25,2 | S. E. ser. |
| 17 | 8,5 | 21,3 | S. E. nub. | 8,0 | 25,8 | S. ser-nub. |
| 18 | 8,0 | 20,0 | N. E. ser. | 10,0 | 25,5 | N.*fer. |
| 19 | 10,7 | 17,0 | N. E. ser. | 10,5 | 22,0 | E. ser. |
| 20 | 11,7 | 16,5 | E. ser. | 11,3 | 21,5 | S. E. ser. |
| 21 | 28. 0,0 | 17,3 | E. ser. | 11,0 | 22,0 | E. ser. |
| 22 | 27. 11,0 | 17,3 | E. ser. | 10,5 | 23,0 | S. E. ser. |
| 23 | 10,0 | 18,5 | N. E. ser. | 10,1 | 23,7 | S. ser. |
| 24 | 10,5 | 19,5 | E. ser. | 10,0 | 25,0 | SS. O. ser. |
| 25 | 10,3 | 20,0 | N. E. ser. | 10,2 | 25,2 | S. ser. |
| 26 | 10,0 | 21,0 | N. E. ser. | 10,0 | 26,0 | S. ser. |
| 27 | 10,5 | 20,3 | E. ser. | 10,0 | 26,0 | S. ser. |
| 28 | 9,0 | 21,0 | E. nub-fer. | 7,0 | 26,0 | S. ser-nub. |
| 29 | 6,5 | 20,2 | E. nub-fer. | 6,1 | 24,0 | f. o.* fer nub.pr. |
| 30 | 7,5 | 17,5 | E. ser. | 7,5 | 22,7 | S. E.*fer-nub. |
| 31 | 7,8 | 17,7 | N. E. nub. | 8,0 | 20,7 | N. E. proc.pluv. |

| | | | |
|--|--------------|-----------------|---------------|
| Altit. max Bar. poll. | 28. lin. 0,0 | Altitudo maxima | Therm. + 26,0 |
| minima...poll. | 27. lin. 5,7 | minima..... | 15,0 |
| media...poll. | 27. lin. 9,0 | media..... | 21,0 |
| Quant. aquae pluv. poll. 1. lin. 10,55 | | | |
| Dies sereni.... 23. | | | |

| Mauc. | | | Vespere. | | | |
|------------------|----------------|-----------------|----------------|----------------|-----------------|-------------------|
| 1782 Augustus | Altit. Bar. | Altit. Ther. | Status Coeli, | Altit. Bar. | Altit. Ther. | Status Coeli. |
| 1 | 27. 8.0 | + 15.0 | E. fer-nub. | 27. 8.0 | + 21.0 | S. E. fer-nub. |
| 2 | 8.3 | 17.0 | N. E. nub. | 7.7 | 21.0 | N. O. nub.pluv. |
| 3 | 7.2 | 16.0 | N. E. nub. | 7.5 | 20.5 | N. fer. |
| 4 | 9.0 | 16.3 | E. nub-fer. | 8.0 | 21.6 | E. fer-nub. |
| 5 | 8.5 | 18.0 | E. fer. | 8.5 | 12.5 | S. fer. |
| 6 | 8.6 | 18.5 | E. nub. | 8.0 | 22.0 | E. fer-nub.pr.gr. |
| 7 | 7.5 | 16.3 | E. fer. | 4.7 | 20.5 | S. E. nub-fer. |
| 8 | 5.5 | 16.0 | O. fer. | 6.0 | 19.5 | S. fer. |
| 9 | 6.5 | 15.0 | N. O. fer-nub. | 7.0 | 20.0 | S. fer. |
| 10 | 6.3 | 15.6 | O. fer. | 6.2 | 20.0 | O. fer.proc. |
| 11 | 7.5 | 14.3 | E. fer. | 8.0 | 18.3 | E. fer. |
| 12 | 8.5 | 15.2 | E. nub-fer. | 8.0 | 20.0 | E. fer-nub. |
| 13 | 7.5 | 15.2 | N. O. fer-nub. | 6.5 | 20.0 | E. fer-nub. |
| 14 | 7.6 | 14.5 | E. fer-nun. | 8.0 | 20.2 | E. fer. |
| 15 | 8.6 | 16.0 | S. O. fer. | 9.0 | 21.6 | O. fer. |
| 16 | 9.5 | 17.0 | O. fer. | 9.0 | 22.3 | E. fer. |
| 17 | 9.2 | 18.0 | O. fer. | 8.5 | 23.6 | S. O. fer-nub. |
| 18 | 9.0 | 18.0 | E. fer. | 7.5 | 22.0 | S. O. fer. |
| 19 | 7.3 | 16.3 | N. E. fer-nub. | 8.5 | 21.5 | S. fer. |
| 20 | 9.5 | 17.3 | E. fer-nub. | 9.2 | 22.0 | fer. |
| 21 | 10.3 | 17.6 | E. fer. | 10.0 | 23.0 | E. fer. |
| 22 | 10.0 | 18.0 | N. E. fer. | 9.5 | 23.3 | S. E. fer. |
| 23 | 9.0 | 19.0 | N. E. fer. | 9.0 | 23.7 | O. fer. |
| 24 | 9.5 | 19.0 | E. fer. | 9.6 | 24.0 | E. fer. |
| 25 | 9.6 | 19.0 | N. E. fer. | 9.3 | 24.0 | S. E. fer. |
| 26 | 9.6 | 19.0 | S. O. fer. | 9.7 | 24.5 | S. E. fer. |
| 27 | 10.0 | 19.0 | E. fer-nub. | 8.6 | 23.5 | E. fer. |
| 28 | 8.0 | 18.6 | E. fer-nub. | 7.0 | 23.0 | S. O. nub-fer. |
| 29 | 7.0 | 18.2 | E. nub fer. | 7.0 | 23.0 | E. fer. |
| 30 | 7.6 | 17.5 | N. E. nub-fer. | 7.0 | 21.5 | O. nub. |
| 31 | 7.0 | 16.3 | N. O. fer-nub. | 9.0 | 21.0 | N. O. fer. |

Altit. max. Bar. poll. 27. lin. 10.3 | Altitudo maxima Therm. + 24.5
 minima... poll. 27. lin. 4.7 | minima..... 14.3
 media... poll. 27. lin. 8.2 | media..... 19.3
 Quant. aquae pluv. poll. 1. lin. 3.0
 Dies sereni.... 22.

| Mane . | | | | Vespere . | | |
|------------------|----------------|-----------------|-----------------|----------------|-----------------|-----------------|
| 1782 Septemb. | Altit. Bar. | Altit. Ther. | Status Coeli . | Altit. Bar. | Altit. Ther. | Status Coeli . |
| 1 | 27.10,7 | + 14,5 | N. E. nub.fer. | 27.11,3 | + 19,0 | S. E. fer. |
| 2 | 28. 0,3 | 13,2 | E. fer. | 11,6 | 18,2 | S. E. fer. |
| 3 | 27.11,3 | 12,3 | N. E. fer. | 10,0 | 18,8 | S. fer-nub. |
| 4 | 10,5 | 14,5 | E. fer-nub. | 10,0 | 19,0 | E. fer. |
| 5 | 10,3 | 14,0 | E. fer. | 10,0 | 19,0 | S. O. fer. |
| 6 | 11,0 | 15,0 | N.E.nub-fer.pl. | 10,5 | 18,7 | E. fer. |
| 7 | 11,2 | 14,7 | N. E. nub-fer. | 11,0 | 18,7 | E. fer. |
| 8 | 11,0 | 14,3 | N.E.nub fer pl. | 11,0 | 18,5 | E. fer. |
| 9 | 11,5 | 13,3 | E. fer-nub. | 11,0 | 17,0 | E. fer. |
| 10 | 11,0 | 13,0 | N. E. nub-fer. | 10,0 | 18,0 | S E. fer-nub.pl |
| 11 | 10,0 | 13,5 | N. fer-nub. | 9,2 | 18,3 | SS.O.*fer-nub. |
| 12 | 9,0 | 13,3 | N. E. nub-fer. | 8,5 | 17,0 | E. fer-nub. |
| 13 | 8,3 | 12,0 | E. fer-nub. | 7,7 | 17,6 | E. nub-fer. |
| 14 | 7,5 | 14,0 | E. nub-fer. | 7,5 | 14,0 | E. nub-fer.pl |
| 15 | 7,2 | 12,6 | E. fer. | 7,3 | 18,5 | S. E. fer. |
| 16 | 7,5 | 13,0 | E. fer-nub. | 8,0 | 17,3 | E. nub.pluv |
| 17 | 9,0 | 13,6 | E. nub. | 9,5 | 16,5 | E.nub-fer.p |
| 18 | 8,3 | 14,5 | E.*pluvia | 6,6 | 15,0 | E. pluvia |
| 19 | 6,2 | 13,3 | E. fer-nub. | 7,2 | 16,6 | O. fer-nub. |
| 20 | 10,0 | 10,5 | N. fer-nub. | 11,0 | 15,5 | N. O. fer. |
| 21 | 11,2 | 10,0 | N. O. fer. | 10,5 | 14,7 | E. nub fer. |
| 22 | 10,0 | 10,3 | S O. fer-nub. | 9,5 | 16,2 | O. fer-nub. |
| 23 | 8,8 | 13,3 | E. nub pluv. | 9,0 | 15,0 | E. nub. |
| 24 | 9,5 | 13,0 | O. nebul. | 9,6 | 16,0 | S. O. fer-nub. |
| 25 | 11,3 | 11,7 | N E. fer. | 28. 0,5 | 16,0 | S. E. fer. |
| 26 | 28. 0,6 | 11,5 | E. fer. | 27. 0,5 | 16,3 | E. fer. |
| 27 | 27.11,3 | 11,5 | O. fer. | 10,3 | 17,0 | S. E. fer. |
| 28 | 10,0 | 13,6 | E.nub-fer-pl. | 11,0 | 15,0 | N. nub-proc. |
| 29 | 11,2 | 11,2 | N. O nub. | 11,0 | 15,6 | S. E. fer. |
| 30 | 10,0 | 11,5 | E. fer.nebul. | 8,0 | 16,2 | S. fer-nub. |

Altit. max Bar. poll. 28. lin. 0,6 | Altitudo maxima Therm. + 19,
 minima .. poll. 27. lin. 6,2 | minima + 10,
 media ... poll. 27. lin. 9,8 | media + 15,
 Quant. aquae pluv. poll. 1. lin. 4,2
 Dies fereni 17.

| Mane. | | | | Vespere. | | |
|------------------|----------------|-----------------|------------------|----------------|-----------------|-------------------|
| 1782 October. | Altit. Bar. | Altit. Ther. | Status Coeli. | Altit. Bar. | Altit. Ther. | Status Coeli. |
| 1 | 27. 7,7 | + 12,2 | E. nub. pluv. | 27. 8,5 | + 12,3 | E.*pluvia |
| 2 | 8,7 | 10,3 | S. O. nub. | 7,0 | 13,6 | S. E. nub.fer. |
| 3 | 4,7 | 11,5 | E. nub. pluv. | 4,2 | 12,7 | E. nub. pluv. |
| 4 | 4,6 | 8,5 | N. O. fer. | 4,0 | 13,5 | S. O. fer. N.* |
| 5 | 5,5 | 7,7 | N. O. fer. | 6,5 | 12,7 | N. fer. |
| 6 | 7,2 | 7,2 | N. fer-nub. | 7,5 | 12,2 | E. fer. |
| 7 | 7,0 | 9,0 | N. E. nub-fer. | 6,2 | 12,2 | E. nub. pluv. |
| 8 | 6,5 | 10,0 | S. O. nebul.fer. | 7,0 | 13,0 | S. O. fer. |
| 9 | 7,5 | 8,0 | N. fer. | 7,5 | 12,0 | E. nub. |
| 10 | 5,2 | 9,8 | E. nub. pluv. | 2,6 | 10,2 | E. nub. pluv. |
| 11 | 2,7 | 9,0 | E. nebul.fer. | 26. 11,3 | 10,5 | E.*nub. pluv. |
| 12 | 1,3 | 7,0 | S. O. nub. | 27. 4,2 | 11,7 | S. O. fer. |
| 13 | 6,3 | 8,5 | E. fer-nub. | 7,0 | 12,2 | E. nub. pluv. |
| 14 | 8,0 | 9,0 | O. nub-fer. | 8,7 | 12,0 | S. O. fer. |
| 15 | 9,0 | 8,7 | N. E. nub. | 5,2 | 11,7 | E. fer-nubr. |
| 16 | 9,2 | 8,5 | E. nub-fer. | 10,0 | 10,5 | S. E. nub-fer. |
| 17 | 11,0 | 5,5 | E. fer-nub. | 11,2 | 10,0 | fer. |
| 18 | 28. 0,2 | 6,5 | E. fer-nub. | 11,7 | 10,0 | E. fer-nub. |
| 19 | 11,0 | 6,6 | E. fer. nebul. | 9,0 | 10,6 | S. OO. fer. |
| 20 | 5,0 | 8,5 | E. nub. pluv. | 3,2 | 9,0 | N. O.*nub. pluv. |
| 21 | 7,2 | 4,3 | N. E. fer. | 10,0 | 9,5 | S. O. nub. |
| 22 | 11,8 | 4,0 | E. fer. | 11,9 | 9,0 | E. fer. nebul. |
| 23 | 11,0 | 4,6 | O. fer. | 9,6 | 10,0 | O. nub-fer. |
| 24 | 9,0 | 6,6 | O. nub-fer. | 8,5 | 11,0 | O. fer-nub. pluv. |
| 25 | 9,2 | 7,7 | S. O. fer-nub. | 10,0 | 10,5 | S. EE.*nub. |
| 26 | 9,2 | 4,5 | E. fer-nebul. | 9,2 | 8,2 | E. fer. |
| 27 | 11,2 | 3,5 | E. fer. | 28. 0,0 | 8,2 | O. fer. |
| 28 | 11,3 | 4,5 | E. fer. | 27. 9,2 | 8,6 | S. O. fer. |
| 29 | 7,5 | 5,0 | N. E. fer-nub. | 4,5 | 9,5 | S. OO. fer. |
| 30 | 4,6 | 6,5 | S. O. nub-fer. | 6,3 | 11,0 | N. E. fer-nub. |
| 31 | 8,0 | 4,3 | N. fer. | 6,8 | 9,5 | E. fer. pluv. |

Altit. max. Bar. poll. 28. lin. 0,8 | Altitudo maxima Therm. + 12,6
 minima .. poll. 26. lin. 11,3 | minima .. 3,5
 media ... poll. 27. lin. 7,4 | media .. 9,0
 Quant. aquae pluv. poll. 3. lin. 4,8
 Dies sereni 17.

| Mare. | | | | Vespere. | | |
|-----------------|----------------|-----------------|------------------|----------------|-----------------|--------------------|
| 1782 Novemb. | Altit. Bar. | Altit. Ther. | Status Coeli. | Altit. Bar. | Altit. Ther. | Status Coeli. |
| 1 | 27. 5,0 | + 5,6 | S.OO. fer. | 27. 6,0 | + 9,0 | S.OO. fer. |
| 2 | 9,0 | 3,0 | N. *fer. | 9,0 | 8,0 | N. O. fer. |
| 3 | 8,0 | 4,0 | N. E. nub. | 6,5 | 5,6 | E. nub. pluv. |
| 4 | 6,0 | 4,0 | S. O. nub. pluv. | 5,3 | 5,0 | S. O. nub. |
| 5 | 5,5 | 1,8 | S. O. fer. | 4,5 | 6,6 | S. O. fer-nub. |
| 6 | 3,5 | 3,5 | N. E. nub-fer. | 4,0 | 6,5 | E. nub. |
| 7 | 6,0 | 3,5 | E. nub-fer. | 6,1 | 4,0 | N. E. nub-fer. pl. |
| 8 | 7,2 | 2,6 | S. O. fer-nub. | 6,6 | 5,6 | O. fer. |
| 9 | 6,0 | 1,2 | N. O. fer. | 5,6 | 4,2 | O. fer. |
| 10 | 6,0 | 1,7 | N. E. nub. pluv. | 9,0 | 4,8 | O. nub-fer. |
| 11 | 11,3 | 3,5 | E. pluvia | 11,0 | 3,6 | O. pluvia |
| 12 | 10,5 | 3,0 | O. pluvia | 11,0 | 4,8 | S. O. *pluvia |
| 13 | 11,6 | 3,5 | nebul. | 28. 0,6 | 5,0 | nebul. |
| 14 | 28. 0,6 | 3,2 | nebul. | 0,6 | 5,0 | O. fer. |
| 15 | 0,3 | 2,0 | nebul. | 27. 11,0 | 3,0 | nebul. |
| 16 | 27. 9,0 | 2,5 | nebul. | 6,0 | 4,5 | OO. nub. |
| 17 | 5,0 | 3,7 | E. nub. | 4,5 | 5,0 | E. nub. |
| 18 | 4,0 | 3,0 | E. fer-nub. | 4,5 | 4,0 | N. E. *fer-nub. |
| 19 | 5,0 | 0,0 | N. fer. | 5,5 | 4,0 | N. fer. |
| 20 | 5,6 | 0,0 | O. fer. | 6,0 | 2,5 | S. E. fer. |
| 21 | 6,3 | 1,5 | S. O. fer. | 6,0 | 2,0 | O. fer. |
| 22 | 5,9 | + 0,6 | E. nub. nix | 5,6 | 2,6 | O. fer. |
| 23 | 6,2 | - 1,5 | S. O. fer. | 6,0 | 1,6 | S. O. fer-nub. |
| 24 | 7,0 | 0,0 | S. nub. | 7,5 | 1,6 | O. nub. |
| 25 | 7,0 | + 0,5 | S. O. nub. | 6,7 | 3,0 | O. nub. |
| 26 | 6,6 | 1,2 | O. nub. | 8,6 | 3,0 | E. nub. pluv. |
| 27 | 8,5 | 2,5 | S. nub. | 7,5 | 4,0 | S. nub. |
| 28 | 7,5 | 3,5 | S. O. nub. | 7,5 | 5,3 | S. O. nub. |
| 29 | 7,5 | 2,7 | O. nub. | 7,0 | 4,0 | E. nub. |
| 30 | 7,0 | 2,6 | E. nub. | 7,0 | 3,0 | E. pluvia |

| | | | |
|--|--------------|------------------------|-------|
| Altit. max. Bar. poll | 28. lin. 0,6 | Altitudo maxima Therm. | + 9,0 |
| minima .. poll. | 27. lin. 4,0 | minima | - 1,5 |
| media ... poll. | 27. lin. 9,0 | media | + 3,3 |
| Quant. aquae pluv. poll. 3. lin. 10,03 | | | |
| Dies sereni 14. | | | |

| 1782 Decemb | Mane . | | | Vespere . | | |
|----------------|----------------|-----------------|----------------|----------------|-----------------|----------------|
| | Altit. Bar. | Altit. Ther. | Status Coeli. | Altit. Bar. | Altit. Ther. | Status Coeli . |
| 1 | 27. 7,0 | + 2,6 | E. pluvia | 27. 8,0 | + 4,0 | E. pluvia |
| 2 | 7,5 | 3,6 | S. E. pluvia | 7,5 | 4,0 | S. E. pluvia |
| 3 | 7,3 | 3,6 | O. nub. | 8,3 | 5,0 | N. nub. |
| 4 | 9,2 | 5,5 | E. nub. | 9,3 | 5,5 | E. nub. |
| 5 | 9,0 | 3,6 | E. nub. | 9,0 | 4,2 | E. nub. |
| 6 | 8,6 | 3,0 | S. O. nub. | 8,5 | 3,7 | O. nub. |
| 7 | 8,6 | 4,0 | E. pluvia | 9,0 | 4,3 | E. pluvia |
| 8 | 9,3 | 3,3 | S. O. nub-fer. | 9,5 | 5,3 | O. fer-nub. |
| 9 | 8,6 | 4,0 | S. O. nub. | 8,0 | 4,6 | S. nub. |
| 10 | 7,2 | 3,6 | S. E. pluvia | 5,5 | 4,0 | O. pluvia |
| 11 | 4,5 | 1,0 | nebul. | 5,0 | 3,3 | fer-nub. |
| 12 | 5,5 | 0,5 | N. E. nub. | 6,6 | 3,3 | nebul. |
| 13 | 7,5 | 0,0 | nebul. | 8,0 | 0,6 | nebul. |
| 14 | 7,3 | - 1,0 | nebul. | 7,0 | 0,0 | nebul. |
| 15 | 6,6 | 1,5 | nebul. | 5,5 | - 0,6 | O. nub.nix |
| 16 | 5,3 | 0,0 | fer-nub. | 6,7 | + 0,6 | nub-fer. |
| 17 | 8,6 | 3,0 | N. fer. | 11,0 | 0,6 | O. fer. |
| 18 | 28. 0,5 | 3,0 | N. O. fer. | 28. 1,6 | 0,5 | O. fer. |
| 19 | 1,5 | 5,0 | O. fer. | 1,0 | - 1,6 | O. fer. |
| 20 | 2,0 | 4,0 | N. fer. | 3,0 | 0,0 | O. fer. |
| 21 | 1,3 | 2,0 | N. O. fer. | 27. 11,6 | + 1,3 | N. O. fer. |
| 22 | 27. 9,3 | 0,0 | N. O. nub-fer. | 9,0 | 4,0 | O. *fer. |
| 23 | 10,6 | 0,0 | O. fer. | 10,0 | 1,3 | O. fer. |
| 24 | 9,0 | + 0,6 | O. nub. | 8,0 | 3,0 | N. O. fer. |
| 25 | 7,5 | 0,0 | N. E. fer. | 9,0 | 2,6 | N. E. fer. |
| 26 | 28. 0,0 | - 0,5 | O. fer. | 11,5 | 2,0 | N. O. fer. |
| 27 | 27. 11,5 | + 0,5 | N. E. nub. | 11,5 | 3,0 | O. fer. |
| 28 | 11,6 | - 0,3 | N. fer. | 11,0 | 2,6 | O. fer. |
| 29 | 10,0 | + 1,0 | O. fer. | 9,5 | 4,7 | S. O. fer. |
| 30 | 9,0 | 0,0 | nebul. | 7,0 | 0,0 | nebul. |
| 31 | 6,5 | - 2,5 | N. E. fer. | 8,5 | 2,3 | N. E. fer.. |

Altit. max. Aar. poll. 28. lin. 1,6 | Altitudo maxima Therm. + 5,3
 minima .. poll. 27. lin. 3,5 | minima - 5,0
 media ... poll. 27. lin. 7,2 | media + 1,5
 Quant. aquae pluv. poll. 1. lin. 11,3
 Dies sereni 9.
 Quantitas aquae pluviae intra anno 1782. poll. 28. lin. 0,27



Regina. Calce. Solis.

Don. Casimiro. Prof. Mediol.

EPHEMERIDES
ASTRONOMICAE

Anni 1786.

AD MERIDIANUM MEDIOLANENSEM

SUPPUTATAE

AB ANGELO DE CESARIS



ACCEDIT APPENDIX

Cum Observationibus & Opusculis



MEDIOLANI MDCCLXXXV.

APUD JOSEPH GALEATIUM REGIUM TYPOGRAPHUM
Superiorum permissu.

ASTRONOMIÆ STUDIO SIS

Mediolanenses Astronomi.

Damus volumina Mediolanensium Ephemeridum ab incepta editione duodecimum & decimum tertium. In dispositione earum supputationum, quæ futuram cælestium corporum positionem prædicunt, nulla facta est mutatio, præter addita loca Urani, quo nomine designamus novum planetam, quem Cl. Herschel inter innumera cæli sidera feliciter observando distinxit. Placuit autem eundem eo nomine dicere, ut veteris theogonia series continuaretur jam ante in collocatione planetarum servata. Sic fiet ut quemadmodum Mercurius, Venus, & Mars a parente Jove excipiuntur, quem excipit genitor Saturnus, ita hunc & nepotem & pronepotes excipiat, Deorum antiquissimus, pater Uranus. Erat autem plane conveniens, ut hujus Planete positiones in nostris Ephemeridibus non deessent, quibus positionibus computandis tabula, primæ omnium, edita sunt anno 1783 in volumine earundem Ephemeridum ad annum 1785. Cæterum Astronomi de hoc opere nostro qualicumque boni judicent, & bene valeant.

ECLIPSES ANNI 1786.

14. *Januarii*. Eclipsis Lunae Mediolani invisibilis.
 Initium 0.^h 10'
 Medium 1. 20
 Finis 2. 30
 Quantitatis eclipsis digit. 4,8 in regione Lunae Australis.
19. *Januarii*. Eclipsis Solis centralis, & annularis in regionibus.
 Asiae & Sinensis Tartariae, Mediolani invisibilis
 Tempus verum Novilunii 25^h 11' 15''
4. *Maii*. Transitus Mercurii sub Sole $\left. \begin{array}{l} \text{Ingressus } \text{♀} \text{ } 2^{\text{h}} \text{ } 52' \\ \text{Egressus } \text{ } 8^{\text{h}} \text{ } 12' \end{array} \right\} \text{mane}$
 Eadem die ortus Solis 4^h 49'.
 Latitudo Borealis Mercurii 0° 5'.
11. *Julii*. Eclipsis Lunae Mediolani invisibilis.
 Initium eclipsis 9^h 32' } Initium Emerf. 11^h 36'^{M.}
 Immersio tota 10 57 } mane Emerfio tota 1 12^{V.}
 Med. eclipsis 11 15 } Quantitas eclipsis dig. 12,7.
25. *Julii*. Eclipsis Solis, Mediolani invisibili, centralis &
 tota ad Caput Bonae Spei. Tempus verum No-
 vilunii 10^h 46' 26'' mane.
20. *Decembris*. Eclipsis Solis Mediolani invisibilis. Tem-
 pus verum Novilunii 5^h 26' 36''.



*In Appendice habentur Opuscula & observationes
que sequuntur.*

- Equinoctia Verna Mediolani observata ad annum 1773.
ad annum 1783. *Francisci Reggio.*
- De usu fractionum continuarum ad inveniendos cyclos
Calendarii novi & veteris *Barnabe Oriani.*
- De refractione media astronomica pro altitudine poli
45.^o 27.' 57." *Francisci Reggio.*
- De horologio Solari Italico *Barnabe Oriani.*
- Positiones Mercurii observatæ &c. *Angeli De Cesaris.*
- Oppositio Martis an. 1783. *Angeli De Cesaris.*
- Conjunctiones inferiores Veneris cum Sole annis 1782.
& 1783. observatæ &c. *Angeli De Cesaris.*
- Observationes Satellitum Jovis *Barnabe Oriani.*
- Observationes Selectæ habitæ Mannhemii & Massiliæ.
- Observationes metheorologicæ an. 1783. *Francisci Reggio.*



FESTA MOBILIA.

| | | |
|-----------------------------|--------------------|---------------|
| Septuagesima | ----- | 12. Februarii |
| Dies Cinerum | ----- | 1. Martii |
| Pascha Resurrectionis | ----- | 16. Aprilis |
| Rogationes Ritu Romano | ----- 22. 23. 24.) | |
| Ascensio Domini | ----- | 25.) Maji |
| Rogationes Ritu Ambrosiano | ----- 29. 30. 31.) | |
| Pentecostes | ----- | 4(|
| Dominica SS. Trinitatis | ----- | 11.(Junii |
| Solemnitas Corporis Christi | ----- | 15.(|
| Adventus Ritu Ambrosiano | ----- | 12. Novembris |
| Adventus Ritu Romano | ----- | 3. Decembris |

Cyclorum Numeri.

| | | | |
|----------------|---------|-----------------------------|---------|
| Numerus Aureus | ----- 1 | Indictio Romana | ----- 4 |
| Cyclus Solaris | ----- 3 | Littera Dominicalis | ----- A |
| Epacta | ----- * | Littera Martyrologii P maj. | |

Quatuor Anni Tempora.

| | | |
|---------|-------|------------------------|
| Ver | ----- | 8. 10. 11. Martii |
| Aestate | ----- | 7. 9. 10. Junii |
| Autumno | ----- | 20. 22. 23. Septembris |
| Hiveme | ----- | 20. 22. 23. Decembris |

Obliquitas Eclipticae.

| | |
|-------------|--------------|
| 1. Januarii | 23° 28' 8",2 |
| 1. Aprilis | 23 28 7 ,4 |
| 1. Julii | 25 28 6 ,6 |
| 1. Octobris | 23 28 5 ,8 |

Phenomena & Observationes Solis

| Dies | Phenomena & Observationes Solis | Time |
|------|---------------------------------|---------|
| | Sol in parallelo | |
| 57 | Leporis culmin. | 10h 29' |
| 9 | Corvi culmin. | 16h 57' |
| 107 | Hydr. culmin. | 17h 38' |
| 11 | in nodo descendente Saturni | |
| 13 | Corvi culmin. | 16h 16' |
| 14 | Leporis culmin. | 9h 24' |
| 17 | Leporis culmin. | 9h 43' |
| 15 | in signo Aquarii | 7h 47' |
| 24 | 3 Ceti culmin. | 4h 14' |
| 3 | Scorp. culmin. | 19h 22' |
| 25 | 2 Leporis culmin. | 8h 34' |
| 3 | Canis culmin. | 9h 23' |

Phenomena & Observationes Planetarum

| | |
|----|---|
| 8 | Oppositio Urani |
| 8 | Mercurius in conjunctiōe cum Sole |
| 11 | Mars ad θ 33 Tauri diff. lat. 11' |
| 15 | Venus ad γ Sagittarii diff. lat. 20' |
| 21 | Mars ad A Tauri diff. lat. 10' 14' |
| 27 | Mercurius in elong. max. matut. |
| 27 | Mercurius ad π Sagitt. diff. lat. 6' |
| 27 | Saturnus in conjunct. cum Sole |
| 30 | Venus ad σ Capri diff. lat. 10' 8' |

Phenomena & Observationes Lunae

| Dies | Phenomena & Observationes Lunae |
|------|---|
| | Luna |
| 1 | ad Saturni 21h |
| 3 | Perigea ad θ Aquarii 16h 50' |
| 7 | P. Q. 1h 19' ad η Piscium 12h 0' |
| 12 | ad 125 Tauri) Immerf. 4h 50' |
| | Em. invis. sub hor. |
| 14 | P. L. 1h 12' Eclipsis Lunae Mediolani invisibilis. Vide supra: ad θ Cancri 16h |
| 17 | ad ι Leonis 14h 28' |
| 21 | Apogea |
| 22 | U. Q. 0h 24' |
| 23 | ad 91 Librae 18h 50' |
| 24 | ad π , σ , & α Scorpii |
| 28 | ad Veneris 15h |
| 29 | N. L. 15h 14' Eclipsis Solis Mediolani invisibilis. Vide supra. |

Planetae in parallelis fixurum.

Uranus in parallelo δ Geminorum, γ Cancri & 84 Geminorum.

Saturnus in parallelo σ Capri, λ Librae, θ & β Ceti, β & γ Scorpii, α Librae.

Jupiter γ α Piscium, 16 γ Ceti, 24 δ Aquilae & γ Ophiuci, 30 β Virginis & α Ceti.

Mars δ Leonis, β Herantis, γ Cancri, δ Geminorum, α Arietis η & μ Geminarum.

Venus γ Leporis α & β Corvi, σ Sagittarii, γ Hydrae, δ Scorpii, ϵ Corvi, π & ξ Sagittarii.

Mercurius 54 Eridani, λ Librae, θ & β Ceti, iterum 54 Eridani, b Canis, δ & β Leporis μ , π , ξ Sagittarii & Corvi.

| Dies mensis | Dies hebdomadae | Aequatio addenda tempori vero ut habeatur medium | Differencia | Longitudo Solis | | Ascensio recta Solis | | Declinatio Solis Australis | |
|-------------|-----------------|--|-------------|-----------------|-------------|----------------------|----------|----------------------------|--|
| | | | | M. S. | S. | S. G. M. S. | G. M. S. | G. M. S. | |
| 1 | Dom | + 4. 14. 6 | | 9. 11. 19. 54 | 282. 19. 25 | 22. 59. 6 | | | |
| 2 | Lun. | 4. 43. 1 | 28, 7 | 9. 12. 21. 6 | 283. 25. 37 | 22. 53. 39 | | | |
| 3 | Mar | 5. 10. 9 | 27, 8 | 9. 13. 22. 18 | 284. 31. 43 | 22. 47. 45 | | | |
| 4 | Mer | 5. 38. 2 | 27, 3 | 9. 14. 23. 30 | 285. 37. 43 | 22. 41. 25 | | | |
| 5 | Jov. | 6. 5. 1 | 26, 9 | 9. 15. 24. 41 | 286. 43. 36 | 22. 34. 38 | | | |
| | | | 26, 5 | | | | | | |
| 6 | Ven. | 6. 31. 1 | 26, 0 | 9. 16. 25. 52 | 287. 49. 22 | 22. 27. 24 | | | |
| 7 | Sat | 6. 57. 1 | 25, 4 | 9. 17. 27. 2 | 288. 55. 0 | 22. 19. 43 | | | |
| 8 | Dom | 7. 23. 1 | 24, 8 | 9. 18. 28. 12 | 290. 0. 30 | 22. 11. 26 | | | |
| 9 | Lun. | 7. 47. 8 | 24, 1 | 9. 19. 29. 31 | 291. 5. 52 | 22. 3. 2 | | | |
| 10 | Mar | 8. 11. 1 | 23, 5 | 9. 20. 30. 29 | 292. 11. 5 | 21. 54. 4 | | | |
| | | | | | | | | | |
| 11 | Mer | 8. 35. 1 | 22, 9 | 9. 21. 31. 36 | 293. 16. 8 | 21. 44. 40 | | | |
| 12 | Jov. | 8. 58. 3 | 22, 3 | 9. 22. 32. 43 | 294. 21. 2 | 21. 34. 53 | | | |
| 13 | Ven | 9. 20. 6 | 21, 7 | 9. 23. 33. 49 | 295. 25. 46 | 21. 24. 28 | | | |
| 14 | Sat. | 9. 42. 3 | 21, 1 | 9. 24. 34. 54 | 296. 30. 20 | 21. 13. 58 | | | |
| 15 | Dom | 10. 3. 4 | 20, 4 | 9. 25. 35. 59 | 297. 34. 44 | 21. 2. 54 | | | |
| | | | | | | | | | |
| 16 | Lun. | 10. 23. 8 | 19, 7 | 9. 26. 37. 3 | 298. 38. 58 | 20. 51. 20 | | | |
| 17 | Mar | 10. 43. 5 | 18, 9 | 9. 27. 38. 6 | 299. 43. 1 | 20. 39. 35 | | | |
| 18 | Mer | 11. 2. 4 | 18, 1 | 9. 28. 39. 9 | 300. 46. 54 | 20. 27. 20 | | | |
| 19 | Jov. | 11. 20. 5 | 17, 3 | 9. 29. 40. 11 | 301. 50. 36 | 20. 14. 43 | | | |
| 20 | Ven. | 11. 37. 8 | 16, 6 | 10. 0. 41. 13 | 302. 54. 6 | 20. 1. 44 | | | |
| | | | | | | | | | |
| 21 | Sat. | 11. 54. 4 | 16, 0 | 10. 1. 42. 14 | 303. 57. 25 | 19. 45. 19 | | | |
| 22 | Dom | 12. 10. 4 | 15, 2 | 10. 2. 43. 15 | 305. 0. 33 | 19. 34. 32 | | | |
| 23 | Lun. | 12. 25. 6 | 14, 4 | 10. 3. 44. 15 | 306. 3. 30 | 19. 20. 26 | | | |
| 24 | Mar | 12. 40. 0 | 13, 6 | 10. 4. 45. 15 | 307. 6. 15 | 19. 5. 57 | | | |
| 25 | Mer | 12. 53. 6 | 12, 8 | 10. 5. 46. 14 | 308. 8. 48 | 18. 51. 7 | | | |
| | | | | | | | | | |
| 26 | Jov. | 13. 6. 4 | 12, 0 | 10. 6. 47. 12 | 309. 11. 9 | 18. 35. 52 | | | |
| 27 | Ven. | 13. 18. 4 | 11, 2 | 10. 7. 48. 9 | 310. 13. 13 | 18. 20. 27 | | | |
| 28 | Sat. | 13. 29. 6 | 10, 4 | 10. 8. 49. 6 | 311. 15. 15 | 18. 4. 37 | | | |
| 29 | Dom | 13. 40. 0 | 9, 5 | 10. 9. 50. 2 | 312. 17. 0 | 17. 48. 27 | | | |
| 30 | Lun. | 13. 49. 5 | 8, 7 | 10. 10. 50. 56 | 313. 18. 32 | 17. 31. 50 | | | |
| 31 | Mar | 13. 58. 2 | 7, 8 | 10. 11. 51. 49 | 314. 19. 52 | 17. 15. 14 | | | |

| Dies in mensis | Dies hebdomade | Distantia seſſionis a Sole | | | Diffe- rentia | | Ini- tium Crepu- ſculi | | Ortus Centri Solis | | Occa- ſus Centri Solis | | Finis Crepu- ſculi | | Hora Italica Meri- diei | |
|----------------------|-------------------|----------------------------------|-----|------|------------------|------|---------------------------------|----|--------------------------|----|---------------------------------|----|--------------------------|----|----------------------------------|----|
| | | H. | M. | S. | M. | S. | H. | M. | H. | M. | H. | M. | H. | M. | H. | M. |
| 1 | Dom | 5. | 10 | 42,4 | 4. | 24,9 | 5. | 50 | 7. | 39 | 4. | 21 | 6. | 10 | 19. | 9 |
| 2 | Lun | 5. | 6. | 17,5 | 4. | 24,4 | 5. | 49 | 7. | 38 | 4. | 22 | 6. | 11 | 19. | 8 |
| 3 | Mar. | 5. | 1. | 53,1 | 4. | 24,0 | 5. | 49 | 7. | 38 | 4. | 22 | 6. | 11 | 19. | 8 |
| 4 | Mer. | 4. | 57. | 29,1 | 4. | 23,5 | 5. | 48 | 7. | 37 | 4. | 23 | 6. | 12 | 19. | 7 |
| 5 | Jov. | 4. | 53. | 5,6 | 4. | 23,1 | 5. | 48 | 7. | 37 | 4. | 23 | 6. | 12 | 19. | 7 |
| 6 | Ven | 4. | 48. | 42,5 | 4. | 22,6 | 5. | 47 | 7. | 36 | 4. | 24 | 6. | 13 | 19. | 6 |
| 7 | Sat | 4. | 44. | 19,9 | 4. | 22,0 | 5. | 47 | 7. | 35 | 4. | 25 | 6. | 13 | 19. | 5 |
| 8 | Dom | 4. | 39. | 57,9 | 4. | 21,4 | 5. | 46 | 7. | 34 | 4. | 26 | 6. | 14 | 19. | 4 |
| 9 | Lun | 4. | 35. | 36,5 | 4. | 20,8 | 5. | 45 | 7. | 34 | 4. | 26 | 6. | 15 | 19. | 4 |
| 10 | Mar | 4. | 31. | 15,7 | 4. | 20,2 | 5. | 45 | 7. | 33 | 4. | 27 | 6. | 15 | 19. | 3 |
| 11 | Mer. | 4. | 26. | 55,3 | 4. | 19,6 | 5. | 44 | 7. | 32 | 4. | 28 | 6. | 16 | 19. | 2 |
| 12 | Jov. | 4. | 22. | 35,9 | 4. | 19,0 | 5. | 43 | 7. | 32 | 4. | 29 | 6. | 17 | 19. | 2 |
| 13 | Ven. | 4. | 18. | 16,9 | 4. | 18,3 | 5. | 43 | 7. | 31 | 4. | 29 | 6. | 17 | 19. | 1 |
| 14 | Sat. | 4. | 13. | 58,6 | 4. | 17,6 | 5. | 42 | 7. | 30 | 4. | 30 | 6. | 18 | 19. | 0 |
| 15 | Dom | 4. | 9. | 41,0 | 4. | 16,9 | 5. | 41 | 7. | 29 | 4. | 31 | 6. | 19 | 18. | 59 |
| 16 | Lun. | 4. | 5. | 24,1 | 4. | 16,2 | 5. | 41 | 7. | 28 | 4. | 32 | 6. | 19 | 18. | 58 |
| 17 | Mar. | 4. | 1. | 7,9 | 4. | 15,5 | 5. | 40 | 7. | 26 | 4. | 34 | 6. | 20 | 18. | 56 |
| 18 | Mer. | 3. | 56. | 52,4 | 4. | 14,8 | 5. | 39 | 7. | 25 | 4. | 35 | 6. | 21 | 18. | 55 |
| 19 | Jov. | 3. | 52. | 57,6 | 4. | 14,0 | 5. | 39 | 7. | 24 | 4. | 36 | 6. | 21 | 18. | 54 |
| 20 | Ven. | 3. | 48. | 23,6 | 4. | 13,3 | 5. | 38 | 7. | 23 | 4. | 37 | 6. | 22 | 18. | 53 |
| 21 | Sat. | 3. | 44. | 10,3 | 4. | 12,5 | 5. | 37 | 7. | 21 | 4. | 39 | 6. | 23 | 18. | 51 |
| 22 | Dom | 3. | 39. | 57,8 | 4. | 11,8 | 5. | 36 | 7. | 20 | 4. | 40 | 6. | 24 | 18. | 50 |
| 23 | Lun. | 3. | 35. | 46,0 | 4. | 11,0 | 5. | 35 | 7. | 19 | 4. | 41 | 6. | 25 | 18. | 49 |
| 24 | Mar. | 3. | 31. | 35,0 | 4. | 10,2 | 5. | 34 | 7. | 18 | 4. | 42 | 6. | 26 | 18. | 48 |
| 25 | Mer. | 3. | 27. | 24,8 | 4. | 9,4 | 5. | 33 | 7. | 17 | 4. | 43 | 6. | 27 | 18. | 47 |
| 26 | Jov. | 3. | 23. | 15,4 | 4. | 8,6 | 5. | 32 | 7. | 16 | 4. | 44 | 6. | 28 | 18. | 46 |
| 27 | Ven. | 3. | 19. | 6,8 | 4. | 7,8 | 5. | 31 | 7. | 15 | 4. | 45 | 6. | 29 | 18. | 45 |
| 28 | Sat. | 3. | 14. | 59,0 | 4. | 7,0 | 5. | 30 | 7. | 14 | 4. | 46 | 6. | 30 | 18. | 44 |
| 29 | Dom | 3. | 10. | 52,0 | 4. | 6,1 | 5. | 29 | 7. | 13 | 4. | 47 | 6. | 31 | 18. | 43 |
| 30 | Lun. | 3. | 6. | 45,9 | 4. | 5,3 | 5. | 28 | 7. | 12 | 4. | 48 | 6. | 32 | 18. | 42 |
| 31 | Mar. | 3. | 2. | 40,6 | 4. | 4,5 | 5. | 27 | 7. | 11 | 4. | 49 | 6. | 33 | 18. | 41 |

| Dies mensis | Dies hebdomadae | Longitudo | Longitudo | Latitudo | Latitudo | Paral. | Paral. |
|-------------|-----------------|------------------|----------------------|------------------|---------------------|--------------------------------|----------------------------------|
| | | Lunae Meridie | Lunae media nocte | Lunae Meridie | Lunae med. noct. | laxis Lunae Meri- die | laxis Lunae media noctē |
| | | S. G. M. S. | S. G. M. S. | G. M. S. | G. M. S. | M. S. | M. S. |
| 1 | Dom | 9.23. 8.16 | 9.29.48.40 | 0. 53.43A | 0. 16.39A | 57. 44 | 57.59 |
| 2 | Lun. | 10. 6.38. 5 | 10.13.30.13 | 0. 20.57B | 0. 58.32B | 58. 13 | 58.26 |
| 3 | Mar | 10.20.25. 3 | 10.27.22. 5 | 1. 35. 32 | 2. 11. 22 | 58. 37 | 58.46 |
| 4 | Mer | 11. 4.21.10 | 11.11.22. 1 | 2. 45.23 | 3. 17. 2 | 58. 54 | 59. 0 |
| 5 | Jov | 11.18.24.18 | 11.25.27.48 | 3. 45. 52 | 4. 11. 22 | 59. 5 | 59. 9 |
| 6 | Ven. | 0. 2.32.11 | 0 9.37.15 | 4. 33. 4 | 4. 50. 37 | 59. 12 | 59.13 |
| 7 | Sat. | 0.16.48.48 | 0.23.48.34 | 5. 3.46 | 5. 12. 18 | 59. 14 | 59.13 |
| 8 | Dom | 1. 0.54.18 | 1. 7.59.39 | 5. 16. 3 | 5. 14.59 | 59. 12 | 59. 9 |
| 9 | Lun. | 1.15. 4.20 | 1.21. 7.59 | 5. 9. 10 | 4. 58.43 | 59. 5 | 58.59 |
| 10 | Mar | 1.29.10.18 | 2. 6.10.54 | 4. 43.41 | 4. 24.25 | 58. 53 | 58.45 |
| 11 | Mer | 2.13. 9.25 | 2.20. 5.29 | 4. 1. 23 | 3.35. 0 | 58. 36 | 58.40 |
| 12 | Jov. | 2.26.58.44 | 3. 3.48.52 | 3. 5. 37 | 2.33.47 | 58. 13 | 57.59 |
| 13 | Ven. | 3.10.35.37 | 3.17.18.38 | 1. 59.58 | 1.24.45 | 57. 44 | 57.28 |
| 14 | Sat. | 3.23.57.41 | 4. 0.32.41 | 0. 48.44 | 0.12.26 | 57. 11 | 56.58 |
| 15 | Dom | 4. 7. 3.30 | 4.13.30. 5 | 0.23.40A | 0. 59. 5A | 56. 35 | 56.17 |
| 16 | Lun. | 4.19.52.28 | 4.26.10.47 | 1. 33. 23 | 2. 6. 11 | 55. 59 | 55.40 |
| 17 | Mar | 5. 2.25.10 | 5. 8.35.53 | 2. 37. 7 | 3. 5. 53 | 55. 26 | 55.10 |
| 18 | Mer | 5.14.43.11 | 5.20.47.27 | 3. 32. 15 | 3.56. 0 | 54. 56 | 54.48 |
| 19 | Jov. | 5.26.49. 8 | 6. 2.48.41 | 4. 16.58 | 4.35. 2 | 54. 33 | 54.24 |
| 20 | Ven. | 6. 8.46.30 | 6.14.43.10 | 4. 49.58 | 5. 1.44 | 54. 19 | 54.15 |
| 21 | Sat. | 6.20.39.16 | 6.26.35.24 | 5. 10. 16 | 5. 15. 29 | 54. 14 | 54.10 |
| 22 | Dom | 7. 2.32. 6 | 7. 8.30. 1 | 5. 17. 21 | 5. 15.47 | 54. 19 | 54.20 |
| 23 | Lun. | 7.14.29.43 | 7.20.31.49 | 5. 10. 50 | 5. 2.26 | 54. 36 | 54.40 |
| 24 | Mar | 7.26.36.52 | 8. 2.45.25 | 4. 50.34 | 4. 35.14 | 55. 2 | 55.18 |
| 25 | Mer | 8. 8.57.52 | 8.15.14.42 | 4. 16.34 | 3.54.37 | 55. 37 | 55.52 |
| 26 | Jov. | 8.21.36.19 | 8.28. 3. 2 | 3.29.30 | 3. 1.24 | 56. 19 | 56.10 |
| 27 | Ven. | 9. 4.35. 1 | 9.11.12.25 | 2.30.34 | 1.57.18 | 57. 5 | 57.10 |
| 28 | Sat. | 9.17.55.14 | 9.24.43.22 | 1.21.57 | 0.45. 1 | 57. 51 | 58.13 |
| 29 | Dom | 10. 1.36.43 | 10. 8.34.53 | 0. 6. 56 | 0.31.30B | 58. 34 | 58.58 |
| 30 | Lun. | 10.15.37.25 | 10.22.43.46 | 1. 10.12B | 1.47.59 | 59. 9 | 59.14 |
| 31 | Mar | 10.29.53.42 | 10. 7. 5.35 | 2. 24. 19 | 2.58.38 | 59. 36 | 59.40 |

| Dies hebdomadae Dies m. s. s. | Diameter boriz. Lunae Meridie | | Diameter boriz. Lunae media noctē | | Declinatio Lunae in Meridian. | | Ortus Lunae | | Transitus Lunae per Meridian. | | Occasus Lunae | |
|----------------------------------|--|----|---|----|--|------|----------------|------|--|------|------------------|------|
| | M. | S. | M. | S. | G. | M. | H. | M. | H. | M. | H. | M. |
| 1 Dom | 31. | 39 | 31. | 47 | 22. | 15 A | 8. | 31 M | 0. | 53 V | 5. | 25 V |
| 2 Lun. | 31. | 55 | 32. | 2 | 17. | 57 | 9. | 1 | 1. | 46 | 6. | 41 |
| 3 Mar | 32. | 6 | 32. | 12 | 12. | 36 | 9. | 27 | 2. | 37 | 7. | 57 |
| 4 Mer | 32. | 17 | 32. | 21 | 6. | 23 | 9. | 51 | 3. | 26 | 9. | 12 |
| 5 Jov. | 32. | 23 | 32. | 26 | 0. | 0 B | 10. | 12 | 4. | 14 | 10. | 29 |
| 6 Ven. | 32. | 27 | 32. | 28 | 6. | 28 | 10. | 31 | 5. | 2 | 11. | 46 |
| 7 Sat. | 32. | 28 | 32. | 28 | 12. | 39 | 10. | 54 | 5. | 51 | * M * | |
| 8 Dom | 32. | 27 | 32. | 26 | 18. | 9 | 11. | 19 | 6. | 43 | 1. | 6 |
| 9 Lun. | 32. | 24 | 32. | 21 | 22. | 29 | 11. | 50 | 7. | 37 | 2. | 19 |
| 10 Mar | 32. | 17 | 32. | 12 | 25. | 23 | 0. | 28 V | 8. | 35 | 3. | 35 |
| 11 Mer | 32. | 7 | 32. | 1 | 26. | 38 | 1. | 20 | 9. | 35 | 4. | 46 |
| 12 Jov. | 31. | 55 | 31. | 47 | 26. | 1 | 2. | 19 | 10. | 34 | 5. | 52 |
| 13 Ven. | 31. | 39 | 31. | 30 | 23. | 47 | 3. | 27 | 11. | 30 | 6. | 44 |
| 14 Sat. | 31. | 21 | 31. | 11 | * | * | 4. | 37 | M | | 7. | 25 |
| 15 Dom | 31. | 1 | 30. | 51 | 20. | 11 | 5. | 48 | 0. | 23 | 7. | 58 |
| 16 Lun. | 30. | 41 | 30. | 32 | 15. | 36 | 6. | 58 | 1. | 12 | 8. | 24 |
| 17 Mar | 30. | 23 | 30. | 15 | 10. | 26 | 8. | 5 | 1. | 58 | 8. | 46 |
| 18 Mer | 30. | 7 | 30. | 0 | 4. | 53 | 9. | 10 | 2. | 41 | 9. | 5 |
| 19 Jov. | 29. | 54 | 29. | 49 | 0. | 38 A | 10. | 13 | 3. | 22 | 9. | 22 |
| 20 Ven. | 29. | 47 | 29. | 45 | 6. | 11 | 11. | 15 | 4. | 2 | 9. | 41 |
| 21 Sat. | 29. | 45 | 29. | 45 | 11. | 25 | * M * | | 4. | 42 | 9. | 58 |
| 22 Dom. | 29. | 47 | 29. | 50 | 16. | 11 | 0. | 19 | 5. | 24 | 10. | 18 |
| 23 Lun. | 29. | 56 | 30. | 3 | 20. | 16 | 1. | 24 | 6. | 8 | 10. | 42 |
| 24 Mar | 30. | 11 | 30. | 19 | 23. | 35 | 2. | 29 | 6. | 55 | 11. | 13 |
| 25 Mer | 30. | 29 | 30. | 40 | 25. | 49 | 3. | 34 | 7. | 45 | 11. | 52 |
| 26 Jov. | 30. | 52 | 31. | 5 | 26. | 40 | 4. | 33 | 8. | 38 | 0. | 43 V |
| 27 Ven. | 31. | 18 | 31. | 30 | 26. | 4 | 5. | 27 | 9. | 33 | 1. | 42 |
| 28 Sat | 31. | 43 | 31. | 55 | 23. | 48 | 6. | 14 | 10. | 30 | 2. | 52 |
| 29 Dom | 32. | 7 | 32. | 17 | 20. | 4 | 6. | 51 | 11. V | 46 | 4. | 11 |
| 30 Lun. | 32. | 26 | 32. | 34 | 14. | 58 | 7. | 21 | 0. | 19 | 5. | 29 |
| 31 Mar | 32. | 40 | 32. | 45 | 8. | 58 | 7. | 45 | 1. | 10 | 6. | 47 |

| Dies mensis | Dies heptomache | Longitudo Lunae Meridie | Longitudo Lunae media nocte | Latitudo Lunae Meridie | Latitudo Lunae med. noct. | Paral. laxis Lunae Meri die | Paral. Lunae media noctē |
|----------------|--------------------|-------------------------------|-----------------------------------|------------------------------|---------------------------------|---|-----------------------------------|
| | | S. G. M. S. | S. G. M. S. | G. M. S. | G. M. S. | M. S. | M. S. |
| 1 | Dom | 9.23. 2.16 | 9.29.48.40 | 0.53.43A | 0.16.39A | 57.44 | 57.59 |
| 2 | Lun. | 10.6.38. 5 | 10.13.30.18 | 0.20.57B | 0.58.32B | 58.13 | 58.26 |
| 3 | Mar | 10.20.25. 3 | 10.27.22. 5 | 1.35.32 | 2.11.22 | 58.37 | 58.46 |
| 4 | Mer | 11. 4.21.10 | 11.11.22. 1 | 2.45.23 | 3.17. 2 | 58.54 | 59. 0 |
| 5 | Jov | 11.18.24.18 | 11.25.27.48 | 3.45.52 | 4.11.22 | 59. 5 | 59. 9 |
| 6 | Ven. | 0. 2.32.11 | 0.9.37.15 | 4.33. 4 | 4.50.37 | 59.12 | 59.15 |
| 7 | Sat. | 0.16.42.48 | 0.23.48.34 | 5. 3.46 | 5.12.18 | 59.14 | 59.13 |
| 8 | Dom | 1. 0.54.18 | 1. 7.59.39 | 5.16. 3 | 5.14.59 | 59.12 | 59. 9 |
| 9 | Lun. | 1.15. 4.20 | 1.22. 7.59 | 5. 9.10 | 4.58.43 | 59. 5 | 58.59 |
| 10 | Mar | 1.29.10.18 | 2. 6.10.54 | 4.43.41 | 4.24.25 | 58.53 | 58.45 |
| 11 | Mer | 2.13. 9.25 | 2.20. 5.29 | 4. 1.23 | 3.35. 0 | 58.36 | 58.25 |
| 12 | Jov. | 2.26.58.44 | 3. 3.48.52 | 3. 5.37 | 2.33.47 | 58.13 | 57.59 |
| 13 | Ven. | 3.10.35.37 | 3.17.18.38 | 1.59.58 | 1.24.45 | 57.44 | 57.28 |
| 14 | Sat. | 3.23.57.41 | 4. 0.32.41 | 0.48.44 | 0.12.26 | 57.11 | 56.59 |
| 15 | Dom | 4. 7. 3.30 | 4.13.30. 5 | 0.23.40A | 0.59. 5A | 56.35 | 56.17 |
| 16 | Lun. | 4.19.52.28 | 4.26.10.47 | 1.33.23 | 2. 6.11 | 55.59 | 55.47 |
| 17 | Mar | 5. 2.25.10 | 5. 8.35.53 | 2.37. 7 | 3. 5.53 | 55.26 | 55.10 |
| 18 | Mer | 5.14.43.11 | 5.20.47.27 | 3.32.15 | 3.56. 0 | 54.56 | 54.43 |
| 19 | Jov. | 5.26.49. 8 | 6. 2.48.41 | 4.16.58 | 4.35. 2 | 54.33 | 54.24 |
| 20 | Ven. | 6. 8.46.30 | 6.14.43.10 | 4.49.58 | 5. 1.44 | 54.19 | 54.15 |
| 21 | Sat. | 6.20.59.16 | 6.26.55.24 | 5.10.16 | 5.15.29 | 54.14 | 54.15 |
| 22 | Dom | 7. 2.32. 6 | 7. 8.30. 1 | 5.17.21 | 5.15.47 | 54.19 | 54.26 |
| 23 | Lun. | 7.14.29.43 | 7.20.31.49 | 5.10.50 | 5. 2.26 | 54.36 | 54.48 |
| 24 | Mar | 7.26.36.52 | 8. 2.45.25 | 4.50.34 | 4.35.14 | 55. 2 | 55.19 |
| 25 | Mer | 8. 8.57.52 | 8.15.14.42 | 4.16.34 | 3.54.37 | 55.37 | 55.57 |
| 26 | Jov. | 8.21.36.19 | 8.28. 3. 2 | 3.29.30 | 3. 1.24 | 56.19 | 56.42 |
| 27 | Ven. | 9. 4.35. 1 | 9.11.12.25 | 2.30.34 | 1.57.18 | 57. 5 | 57.28 |
| 28 | Sat. | 9.17.55.14 | 9.24.43.22 | 1.21.57 | 0.45. 1 | 57.51 | 58.13 |
| 29 | Dom | 10. 1.36.43 | 10. 8.34.53 | 0. 6.56 | 0.31.39B | 58.34 | 58.55 |
| 30 | Lun. | 10.15.37.25 | 10.22.43.46 | 1.10.12B | 1.47.59 | 59. 9 | 59.24 |
| 31 | Mar | 10.29.33.42 | 10. 7. 5.33 | 2.24.19 | 2.58.32 | 59.36 | 59.43 |

| Dies hebdomadae | | Diameter boriz. Lunae Meridie | | Diameter boriz. Lunae media nocte | | Declinatio Lunae in Meridian. | | Ortus Lunae | | Transitus Lunae per Meridiam. | | Occasus Lunae | |
|-----------------|--------|-------------------------------|----|-----------------------------------|----|-------------------------------|------|-------------|------|-------------------------------|------|---------------|------|
| Dies | in Jhs | M. | S. | M. | S. | G. | M. | H. | M. | H. | M. | H. | M. |
| 1 | Dom | 31. | 39 | 31. | 47 | 22. | 15 A | 8. | 31 M | 0. | 53 V | 5. | 25 V |
| 2 | Lun. | 31. | 55 | 32. | 2 | 17. | 57 | 9. | 1 | 1. | 46 | 6. | 41 |
| 3 | Mar | 32. | 6 | 32. | 12 | 12. | 36 | 9. | 27 | 2. | 37 | 7. | 57 |
| 4 | Mer | 32. | 17 | 32. | 21 | 6. | 23 | 9. | 51 | 3. | 26 | 9. | 12 |
| 5 | Jov. | 32. | 23 | 32. | 26 | 0. | 0 B | 10. | 12 | 4. | 14 | 10. | 29 |
| 6 | Ven. | 32. | 27 | 32. | 28 | 6. | 28 | 10. | 31 | 5. | 2 | 11. | 46 |
| 7 | Sat. | 32. | 28 | 32. | 28 | 12. | 39 | 10. | 54 | 5. | 51 | * M † | |
| 8 | Dom | 32. | 27 | 32. | 26 | 18. | 7 | 11. | 19 | 6. | 43 | 1. | 6 |
| 9 | Lun. | 32. | 24 | 32. | 21 | 22. | 29 | 11. | 50 | 7. | 37 | 2. | 19 |
| 10 | Mar | 32. | 17 | 32. | 12 | 25. | 23 | 0. | 28 V | 8. | 35 | 3. | 35 |
| 11 | Mer | 32. | 7 | 32. | 1 | 26. | 38 | 1. | 20 | 9. | 35 | 4. | 46 |
| 12 | Jov. | 31. | 55 | 31. | 47 | 26. | 1 | 2. | 19 | 10. | 34 | 5. | 52 |
| 13 | Ven. | 31. | 39 | 31. | 30 | 23. | 47 | 3. | 27 | 11. | 30 | 6. | 44 |
| 14 | Sat. | 31. | 21 | 31. | 11 | * | * | 4. | 37 | M | | 7. | 25 |
| 15 | Dom | 31. | 1 | 30. | 51 | 20. | 11 | 5. | 48 | 0. | 23 | 7. | 58 |
| 16 | Lun | 30. | 41 | 30. | 32 | 15. | 36 | 6. | 58 | 1. | 12 | 8. | 24 |
| 17 | Mar | 30. | 23 | 30. | 15 | 10. | 26 | 9. | 5 | 1. | 58 | 8. | 46 |
| 18 | Mer | 30. | 7 | 30. | 0 | 4. | 53 | 9. | 10 | 2. | 41 | 9. | 5 |
| 19 | Jov | 29. | 54 | 29. | 49 | 0. | 38 A | 10. | 13 | 3. | 22 | 9. | 22 |
| 20 | Ven | 29. | 47 | 29. | 45 | 6. | 11 | 11. | 15 | 4. | 2 | 9. | 41 |
| 21 | Sat. | 29. | 45 | 29. | 45 | 11. | 25 | * M * | | 4. | 42 | 9. | 58 |
| 22 | Dom | 29. | 47 | 29. | 50 | 16. | 11 | 0. | 19 | 5. | 24 | 10. | 18 |
| 23 | Lun | 29. | 56 | 30. | 3 | 20. | 16 | 1. | 24 | 6. | 8 | 10. | 42 |
| 24 | Mar | 30. | 11 | 30. | 19 | 23. | 35 | 2. | 29 | 6. | 55 | 11. | 13 |
| 25 | Mer | 30. | 29 | 30. | 40 | 25. | 49 | 3. | 34 | 7. | 45 | 11. | 58 |
| 26 | Jov. | 30. | 52 | 31. | 5 | 26. | 40 | 4. | 33 | 8. | 38 | 0. | 43 V |
| 27 | Ven. | 31. | 18 | 31. | 30 | 26. | 4 | 5. | 27 | 9. | 33 | 1. | 42 |
| 28 | Sat | 31. | 43 | 31. | 55 | 23. | 48 | 6. | 14 | 10. | 30 | 2. | 52 |
| 29 | Dom | 32. | 7 | 32. | 17 | 20. | 4 | 6. | 51 | 11. v | 26 | 4. | 11 |
| 30 | Lun. | 32. | 26 | 32. | 34 | 14. | 58 | 7. | 21 | 0. | 19 | 5. | 29 |
| 31 | Mar | 32. | 40 | 32. | 45 | 8. | 58 | 7. | 45 | 1. | 10 | 6. | 47 |

| Dies mens. | Longitudo | Latitudo | Declina- | Ortus | Transit. | Occasus |
|----------------------------|-----------------|-----------------|---------------------|-----------------|--------------------------------|-----------------|
| | Planeta- rum | Planeta- rum | tio Pla- netarum | Planeta- rum | (Planet. per Me- ridian. | Planeta- rum |
| | S. G. M. | G. M. | G. M. | H. M. | H. M. | H. M. |
| U R A N U S . | | | | | | |
| 3 | 3. 19. 17 | 0. 29 B | 22. 33 B | 4. 52 V | 0. 35 M | 8. 18 M |
| 16 | 3. 18. 38 | 0. 29 | 22. 39 | 3. 42 | 11. 26 V | 7. 10 |
| S A T U R N U S . | | | | | | |
| 1 | 10. 4. 52 | 0. 36 A | 19. 40 A | 9. 2 M | 1. 40 V | 6. 18 |
| 7 | 10. 5. 33 | 0. 37 | 19. 30 | 8. 37 | 1. 16 | 5. 55 |
| 13 | 10. 16. 15 | 0. 37 | 19. 20 | 8. 14 | 0. 53 | 5. 32 |
| 19 | 10. 6. 57 | 0. 37 | 19. 10 | 7. 51 | 0. 31 | 5. 11 |
| 25 | 10. 7. 40 | 0. 38 | 18. 59 | 7. 27 | 0. 8 | 4. 49 |
| J U P I T E R . | | | | | | |
| 1 | 0. 6. 35 | 1. 18 A | 1. 25 B | 11. 27 M | 5. 36 V | 11. 45 V |
| 7 | 0. 7. 16 | 1. 17 | 1. 43 | 11. 2 | 5. 12 | 11. 22 |
| 13 | 0. 8. 4 | 1. 15 | 2. 3 | 10. 38 | 4. 49 | 11. 0 |
| 19 | 0. 8. 56 | 1. 14 | 2. 25 | 10. 15 | 4. 27 | 10. 39 |
| 25 | 0. 9. 53 | 1. 13 | 2. 49 | 9. 51 | 4. 5 | 10. 19 |
| M A R S . | | | | | | |
| 1 | 1. 28. 16 | 2. 26 B | 22. 10 B | 1. 10 V | 8. 51 V | 4. 32 M |
| 7 | 1. 28. 29 | 2. 27 | 22. 14 | 0. 44 | 8. 25 | 4. 6 |
| 13 | 1. 29. 6 | 2. 27 | 22. 23 | 0. 20 | 8. 2 | 3. 44 |
| 19 | 2. 0. 7 | 2. 27 | 22. 35 | 11. 58 M | 7. 41 | 3. 24 |
| 25 | 2. 1. 29 | 2. 25 | 22. 51 | 11. 35 | 7. 21 | 2. 6 |
| V E N U S . | | | | | | |
| 1 | 8. 22. 10 | 0. 31 B | 22. 43 A | 6. 13 M | 10. 36 M | 2. 59 V |
| 7 | 8. 29. 42 | 0. 15 | 23. 13 | 6. 23 | 10. 43 | 3. 6 |
| 13 | 9. 7. 15 | 0. 0 | 23. 16 | 6. 30 | 10. 50 | 3. 10 |
| 19 | 9. 14. 44 | 0. 15 A | 22. 54 | 6. 35 | 10. 56 | 3. 17 |
| 25 | 9. 22. 15 | 0. 29 | 22. 7 | 6. 38 | 11. 4 | 3. 30 |
| M E R C U R I U S . | | | | | | |
| 1 | 9. 25. 27 | 0. 55 B | 20. 11 A | 8. 24 M | 1. 0 V | 5. 36 V |
| 7 | 9. 19. 59 | 2. 44 | 19. 17 | 7. 29 | 0. 9 | 4. 49 |
| 13 | 9. 12. 38 | 3. 20 | 19. 27 | 6. 25 | 11. 4 M | 3. 43 |
| 19 | 9. 9. 40 | 2. 56 | 20. 12 | 5. 54 | 10. 30 | 3. 6 |
| 25 | 9. 11. 38 | 1. 55 | 21. 3 | 5. 44 | 10. 16 | 2. 48 |

ECLIPSES SATELLITUM JOVIS.

| Dies mensis | I. Satelles . | | | Dies | II. Satelles | | | Dies | III. Satelles . | | |
|----------------|-------------------|-----------|-----------|------|-------------------|-----------|-----------|-------------|----------------------|-----------|-----------|
| | <i>Emerfiones</i> | | | | <i>Emerfiones</i> | | | | <i>Imerf. Emerf.</i> | | |
| | <i>H.</i> | <i>M.</i> | <i>S.</i> | | <i>H.</i> | <i>M.</i> | <i>S.</i> | | <i>H.</i> | <i>M.</i> | <i>S.</i> |
| 1 | 14. | 24. | 34. | 2 | 6.* | 33. | 59. | 1 | 17. | 3. | 58. I |
| 3 | 8.* | 52. | 44. | 5 | 19 | 50. | 33. | 1 | 19. | 6. | 40. E |
| 5 | 3. | 20. | 56. | 9 | 9.* | 7. | 13. | 8 | 21. | 3. | 52. I |
| 6 | 21. | 49. | 8. | 12 | 22. | 3. | 57. | 8 | 23. | 5. | 22. E |
| 8 | 16. | 17. | 24 | 16 | 11 | 40. | 50. | 16 | 1. | 4. | 18. I |
| 10 | 10.* | 45. | 42. | 20 | 0. | 57. | 51. | 16 | 3. | 4. | 36. E |
| 12 | 5.* | 14. | 0. | 23 | 14. | 14. | 58. | 23 | 5. | 5. | 22. I |
| 13 | 23. | 42. | 19. | 27 | 4. | 32. | 12. | 23 | 7.* | 4. | 20. E |
| 15 | 18. | 10. | 45. | 30 | 16. | 49. | 32. | 30 | 9.* | 6. | 56. I |
| 17 | 12. | 39. | 8. | | | | | 30 | 11. | 4. | 45. E |
| 19 | 7.* | 7. | 35. | | | | | | | | |
| 21 | 13. | 36. | 4. | | | | | | | | |
| 23 | 20. | 4. | 38. | | | | | | | | |
| 25 | 14. | 33. | 9. | | | | | <i>Dies</i> | IV. Satelles . | | |
| 26 | 9.* | 1. | 46. | | | | | | <i>Imerf. Emerf.</i> | | |
| 28 | 3. | 30. | 23 | | | | | 4 | 4. 2.24. sup. | | |
| 29 | 21. | 59. | 5. | | | | | 12 | 13.24.24. inf. | | |
| 31 | 16. | 27. | 47. | | | | | 20 | 21. 6.24. sup. | | |
| | | | | | | | | 29 | 8.*52.24. inf. | | |

| Dies | <i>Diameter Solis</i> | <i>Mora transitus Solis per Meridian.</i> | <i>Motus horarius Solis</i> | <i>Logarithmus distantiae Solis a terra posita media 100000.</i> | <i>Longitudo Nodi Lunae</i> |
|------|-----------------------|---|-----------------------------|--|-----------------------------|
| | <i>M. S.</i> | <i>M. S.</i> | <i>M. S.</i> | | <i>S. G. M.</i> |
| 1 | 32. 35,8 | 2. 21, 6 | 2. 32, 9 | 4.992668. | 10. 3. 58 |
| 4 | 32. 35,7 | 2. 21, 3 | 2. 32, 9 | 4.992688. | 10. 3. 48 |
| 7 | 32. 35,5 | 2. 21, 0 | 2. 32, 9 | 4.992724. | 10. 3. 39 |
| 10 | 32. 35,2 | 2. 20, 6 | 2. 32, 8 | 4.992778. | 10. 3. 29 |
| 13 | 32. 34,7 | 2. 20, 0 | 2. 32, 8 | 4.992860. | 10. 3. 19 |
| 16 | 32. 34,2 | 2. 19, 4 | 2. 32, 7 | 4.992961. | 10. 3. 10 |
| 19 | 32. 33,7 | 2. 18, 8 | 2. 32, 7 | 4.993089. | 10. 3. 0 |
| 22 | 32. 33,1 | 2. 18, 2 | 2. 32, 6 | 4.993241. | 10. 2. 51 |
| 25 | 32. 32,4 | 2. 17, 6 | 2. 32, 5 | 4.993411. | 10. 2. 41 |
| 28 | 32. 31,5 | 2. 16, 9 | 2. 32, 3 | 4.993597. | 10. 2. 32 |

JANUARIUS 1786.

POSITIONES SATELLITUM JOVIS

| | <i>Oriens</i> | <i>6.^h Vespere</i> | <i>Occidens</i> |
|----|---------------|-------------------------------|-----------------|
| 1 | | ○ 1♃ 1.2 | 4. |
| 2 | 32. | ○ 1♃ | 4. |
| 3 | 10 | ○ 1♃ | 4. |
| 4 | | ○ 4♃ 1.2 | |
| 5 | | ○ 3. | 10 |
| 6 | 4. | ○ 2. 1. 3. | |
| 7 | 4. | ○ 1. 2. | 1. |
| 8 | 4. | ○ 1♃ 1.2 | |
| 9 | .4 | ○ 2. 1 | 23 |
| 10 | .4 3. | ○ 2. | 10 |
| 11 | .4 3 | ○ 2. | 10 |
| 12 | 10 | ○ 1♃ 4 | 2. |
| 13 | | ○ 2. | 1♃ 4 |
| 14 | | ○ 1♃ 2 | 1♃ 4 |
| 15 | | ○ 1. 1♃ 2 | .4 |
| 16 | 20 | ○ 1♃ 1 | .4 |
| 17 | 3. | ○ 1. 2. | 4. |
| 18 | | ○ 1. 2. | 4. |
| 19 | 10 | ○ 1. | 2. 4. |
| 20 | | ○ 1. 4♃ 2. 3. | |
| 21 | | ○ 2. 4. | 1. |
| 22 | 4. | ○ 1. 1♃ 2 | |
| 23 | 4. | ○ 1. 2. | |
| 24 | 4. | ○ 3. 2. | 1. |
| 25 | .4 | ○ 1. | 30 |
| 26 | .4 | ○ 1. | 2. 10 |
| 27 | .4 | ○ 2. 1. 3. | |
| 28 | | ○ 4. 2. 1. | 1. |
| 29 | | ○ 4. | 1. 2. 3. |
| 30 | | ○ 1. 2. 3. 4. | |
| 31 | 3. | ○ 2. | 1. 4. |

Phenomena & Observaciones Solis

| Sol | |
|-----|--|
| 2 | in parallelo Sirii culm. 9 ^h 28' |
| 3 | in parall. γ Corvi culm. 14 ^h 52' |
| 5 | in parall. η Ophiuci culm. 19 ^h 36' |
| 6 | in parall. γ Canis culm. 9 ^h 30' |
| | item δ Corvi culm. 14 ^h 54' |
| 7 | in parall. α Librae culm. 17 ^h 9' |
| 8 | in parall. ζ Erid. culm. 6 ^h 57' |
| 10 | in parall. γ Eridani culm. 6 ^h 9' |
| | item γ Librae culm. 17 ^h 42' |
| 14 | in parallelo ε Ceti culm. 4 ^h 35' |
| 15 | in parall. λ Virginis culm. 16 ^h 5' |
| 17 | in signo Piscium 22 ^h 39' |
| | in parall. η Ceti culm. 2 ^h 47' |
| 20 | in parall. δ Eridani culm. 5 ^h 14' |
| 22 | in parall. α Virgin. culm. 14 ^h 45' |
| | item x Orionis culm. 7 ^h 11' |
| 23 | in parall. ζ Eridani culm. 4 ^h 36' |
| 24 | in parall. x Virg. culm. 15 ^h 26' |
| 26 | in parall. β Librae culm. 16 ^h 22' |
| | item Rigel culm. 6 ^h 23' |
| 29 | in parall. α Hydrae culm. 10 ^h 27' |

Phenomena & Observaciones Planetarum

| | |
|----|--|
| 3 | Venus ad υ Capri diff. lat. 1° 5' |
| 6 | Venus ad 19. Capri diff. lat. 26' |
| 6 | Mars ad 1. 2. 3. x Tauri diff. lat. 1° 37', 1° 51', 1° 46' |
| 7 | Saturnus ad Veneris diff. lat. 17' |
| 12 | Venus ad ι Capri diff. lat. 18' |
| 16 | Venus ad 1. 2. 3. d Capri diff. lat. 54', 35', 2' |
| 17 | Jupiter ad 73. Piscium diff. lat. 2' |
| 18 | Venus ad μ Capri diff. lat. 33' |
| 21 | Jupiter ad ε Piscium diff. lat. 22' |
| 22 | Mercurius ad ι Capri diff. lat. 29' |
| 24 | Mercurius ad γ & δ Capri diff. lat. 32' & 26' |
| 26 | Mars ad κ Tauri diff. lat. 7' |
| 26 | Venus ad σ Aquarii diff. lat. 9' |
| 28 | Mercurius ad ι Aquarii diff. lat. 1' |

Phenomena & Observaciones Lune

| Luna | |
|------|---|
| 1 | Perigea ad λ Piscium |
| 3 | ad Jovis & η Piscium 17 ^h |
| 5 | P. Q. 9 ^h 4' ad ε Arietis 5 ^h 50' |
| 7 | ad 125. Tauri 22 ^h 15' |
| 9 | ad A Geminorum 16 ^h 26' |
| 11 | ad δ Cancrī 5 ^h 6' |
| 12 | Plenilunium 17 ^h 17' |
| 13 | ad γ Leonis 22 ^h 30' |
| 17 | Apogea ad ψ Virginis |
| 19 | ad 88 Librae 15 ^h 42' |
| 20 | U. Q. 2 ^h 53' ad π Scorpii 15 ^h |
| 21 | ad σ & α Scorpii 36' & 3 ^h 22' |
| 23 | ad λ & φ Sagittarii 7 ^h & 14 ^h |
| 26 | ad θ Capri & Saturni |
| 27 | ad θ Aquarii 10 ^h 48' |
| 28 | N. L. 5 ^h 2' |

Planetæ in parallelis fixarum.

Uranus in parallelo 7. Cancrī δ & 84 Geminorum.
 Saturnus γ Scorpii, α Librae. α Leporis.
 Jupiter β Virginis. α Ceti; 10 θ Serpentis; 14. α Equlei; 14 δ Virg., β Ophiuci, 25 ε Serp.
 Mars f, n, h Plejadum & 2 Leon.
 Venus b Canis, ε Capri 54. Eridani, σ Capri; 7. λ Librae θ & β Ceti, β & γ Scorpii; 12. α Leporis, β Canis; 13. α Crateris, δ Capri & δ Aquarii; 15. Sirii, 2 & θ Librae; 18. α Librae; 53. Eridani; 24 ε Ceti λ Virginis, σ Aquarii, η Ceti.
 Mercurius ε Corvi, π. μ. ξ Sagittarii, β. δ Leporis b Canis, ε Capri; 54. Eridani, θ & β Ceti, β & γ Scorpii, x Librae, α Leporis, β Canis, γ & δ Capri, α Crateris, α & γ Canis.

| Dies mensis | Dies hebdomadae | Aequatio addenda tempori vero ut habeatur medium | | Differrentia | Longitudo Solis | | | | Ascensio recta Solis | | | Declinatio Solis Australis | | |
|-------------|-----------------|--|-------|--------------|-----------------|-----|-----|----|----------------------|-----|----|----------------------------|-----|----|
| | | M. | S. | | S. | S. | G. | M. | S. | G. | M. | S. | | |
| 1 | Mer | 14. | 6, 0 | 7, 8 | 10. | 12. | 52. | 41 | 315 | 20. | 59 | 15. | 58. | 5 |
| 2 | Jov. | 14. | 13, 1 | 7, 1 | 10. | 13. | 53. | 32 | 316. | 21. | 54 | 16. | 40. | 41 |
| 3 | Ven. | 14. | 19, 5 | 6, 4 | 10. | 14. | 54. | 21 | 317. | 22. | 36 | 16. | 23. | 0 |
| 4 | Sat. | 14. | 25, 0 | 5, 5 | 10. | 15. | 55. | 9 | 318. | 23. | 6 | 16. | 5. | 2 |
| 5 | Dom | 14. | 29, 6 | 4, 6 | 10. | 16. | 55. | 56 | 319. | 23. | 24 | 15. | 46. | 48 |
| 6 | Lun | 14. | 33, 4 | 3, 8 | 10. | 17. | 56. | 41 | 320. | 23. | 29 | 15. | 28. | 18 |
| 7 | Mar | 14. | 36, 4 | 3, 0 | 10. | 18. | 57. | 24 | 321. | 23. | 22 | 15. | 9. | 33 |
| 8 | Mer | 14. | 38, 5 | 2, 1 | 10. | 19. | 58. | 5 | 322. | 23. | 2 | 14. | 50. | 32 |
| 9 | Jov. | 14. | 39, 7 | 1, 2 | 10. | 20. | 58. | 45 | 323. | 22. | 30 | 14. | 31. | 16 |
| 10 | Ven. | 14. | 40, 1 | 0, 4 | 10. | 21. | 59. | 23 | 324. | 21. | 45 | 14. | 11. | 46 |
| 11 | Sat. | 14. | 39, 7 | 0, 4 | 10. | 22. | 59. | 59 | 325. | 20. | 48 | 13. | 52. | 0 |
| 12 | Dom | 14. | 38, 6 | 1, 1 | 10. | 24. | 0. | 33 | 326. | 19. | 40 | 13. | 32. | 3 |
| 13 | Lun | 19. | 36, 7 | 1, 9 | 10. | 25. | 1. | 6 | 327. | 18. | 20 | 13. | 11. | 53 |
| 14 | Mar | 14. | 34, 1 | 2, 6 | 10. | 26. | 1. | 37 | 328. | 16. | 49 | 12. | 51. | 30 |
| 15 | Mer | 14. | 30, 8 | 3, 3 | 10. | 27. | 2. | 6 | 329. | 15. | 7 | 12. | 30. | 54 |
| 16 | Jov. | 14. | 26, 8 | 4, 0 | 10. | 28. | 2. | 34 | 330. | 13. | 14 | 12. | 10. | 6 |
| 17 | Ven. | 14. | 22, 0 | 4, 8 | 10. | 29. | 3. | 0 | 331. | 11. | 10 | 11. | 49. | 6 |
| 18 | Sat. | 14. | 16, 5 | 5, 5 | 11. | 0. | 3. | 25 | 332. | 8. | 56 | 11. | 27. | 55 |
| 19 | Dom | 14. | 10, 4 | 6, 1 | 11. | 1. | 3. | 48 | 333. | 6. | 32 | 11. | 6. | 34 |
| 20 | Lun. | 14. | 3, 6 | 6, 8 | 11. | 2. | 4. | 10 | 334. | 3. | 58 | 10. | 45. | 3 |
| 21 | Mar | 13. | 56, 2 | 7, 4 | 11. | 3. | 4. | 30 | 335. | 1. | 15 | 10. | 21. | 22 |
| 22 | Mer | 13. | 48, 1 | 8, 1 | 11. | 4. | 4. | 49 | 335. | 58. | 22 | 10. | 1. | 31 |
| 23 | Jov. | 13. | 39, 5 | 8, 6 | 11. | 5. | 5. | 7 | 336. | 55. | 20 | 9. | 39. | 30 |
| 24 | Ven. | 13. | 30, 3 | 9, 2 | 11. | 6. | 5. | 23 | 337. | 52. | 10 | 9. | 17. | 20 |
| 25 | Sat. | 13. | 20, 5 | 9, 8 | 11. | 7. | 5. | 38 | 338. | 48. | 51 | 8. | 55. | 2 |
| 26 | Dom | 13. | 10, 1 | 10, 4 | 11. | 8. | 5. | 51 | 339. | 45. | 24 | 8. | 32. | 36 |
| 27 | Lun. | 12. | 59, 2 | 10, 9 | 11. | 9. | 6. | 3 | 340. | 41. | 48 | 8. | 10. | 3 |
| 28 | Mar. | 12. | 47, 8 | 11, 4 | 11. | 10. | 6. | 13 | 341. | 38. | 4 | 7. | 47. | 22 |

| Dies hebdomadae Dies mensis | Distantia sectionis a Sole Y | | | Differrentia | | Initium Crepusculi | | Ortus Centri Solis | | Occasus Centri Solis | | Finis Crepusculi | | Hera Italica Meridies | |
|--------------------------------|------------------------------|-----|------|--------------|------|--------------------|----|--------------------|----|----------------------|----|------------------|----|-----------------------|----|
| | H. | M. | S. | M. | S. | H. | M. | H. | M. | H. | M. | H. | M. | H. | M. |
| Mer. | 2. | 58. | 36,1 | 4. | 3,7 | 5. | 26 | 7. | 9 | 4. | 51 | 6. | 34 | 18. | 39 |
| Jov. | 2. | 54. | 32,4 | 4. | 2,8 | 5. | 25 | 7. | 8 | 4. | 52 | 6. | 35 | 18. | 38 |
| Ven. | 2. | 50. | 29,6 | 4. | 2,0 | 5. | 24 | 7. | 6 | 4. | 54 | 6. | 36 | 18. | 36 |
| Sat. | 2. | 46. | 27,6 | 4. | 1,2 | 5. | 23 | 7. | 5 | 4. | 55 | 6. | 37 | 18. | 35 |
| Dom. | 2. | 42. | 26,1 | 4. | 0,3 | 5. | 22 | 7. | 3 | 4. | 57 | 6. | 39 | 18. | 33 |
| Jan. | 2. | 38. | 26,1 | 3. | 59,5 | 5. | 20 | 7. | 2 | 4. | 58 | 6. | 40 | 18. | 31 |
| Mar. | 2. | 34. | 26,6 | 3. | 58,7 | 5. | 19 | 7. | 1 | 4. | 59 | 6. | 41 | 18. | 31 |
| Mer. | 2. | 30. | 27,9 | 3. | 57,9 | 5. | 17 | 7. | 0 | 5. | 0 | 6. | 42 | 18. | 30 |
| Jov. | 2. | 26. | 30,0 | 3. | 57,0 | 5. | 16 | 6. | 58 | 5. | 2 | 6. | 44 | 18. | 28 |
| Ven. | 2. | 22. | 33,0 | 3. | 56,2 | 5. | 15 | 6. | 57 | 5. | 3 | 6. | 45 | 18. | 27 |
| Sat. | 2. | 18. | 36,8 | 3. | 55,4 | 5. | 13 | 6. | 55 | 5. | 5 | 6. | 47 | 18. | 25 |
| Dom. | 2. | 14. | 41,4 | 3. | 54,6 | 5. | 12 | 6. | 54 | 5. | 6 | 6. | 48 | 18. | 24 |
| Jan. | 2. | 10. | 46,8 | 3. | 53,9 | 5. | 11 | 6. | 53 | 5. | 8 | 6. | 49 | 18. | 22 |
| Mar. | 2. | 6. | 52,8 | 3. | 53,2 | 5. | 10 | 6. | 51 | 5. | 9 | 6. | 50 | 18. | 21 |
| Mer. | 2. | 2. | 59,7 | 3. | 52,5 | 5. | 8 | 6. | 49 | 5. | 11 | 6. | 52 | 18. | 19 |
| Jov. | 1. | 59. | 7,2 | 3. | 51,8 | 5. | 7 | 6. | 48 | 5. | 12 | 6. | 53 | 18. | 18 |
| Ven. | 1. | 55. | 15,4 | 3. | 51,1 | 5. | 5 | 6. | 46 | 5. | 14 | 6. | 55 | 18. | 16 |
| Sat. | 1. | 51. | 24,3 | 3. | 50,4 | 5. | 4 | 6. | 45 | 5. | 15 | 6. | 56 | 18. | 15 |
| Dom. | 1. | 47. | 33,9 | 3. | 49,8 | 5. | 2 | 6. | 43 | 5. | 17 | 6. | 58 | 18. | 13 |
| Jan. | 1. | 43. | 44,1 | 3. | 49,1 | 5. | 1 | 6. | 42 | 5. | 18 | 6. | 59 | 16. | 12 |
| Mar. | 1. | 39. | 55,0 | 3. | 48,5 | 4. | 59 | 6. | 40 | 5. | 20 | 7. | 1 | 18. | 10 |
| Mer. | 1. | 36. | 6,5 | 3. | 47,9 | 4. | 58 | 6. | 38 | 5. | 22 | 7. | 2 | 18. | 8 |
| Jov. | 1. | 32. | 18,6 | 3. | 47,3 | 4. | 56 | 6. | 37 | 5. | 23 | 7. | 4 | 18. | 7 |
| Ven. | 1. | 28. | 31,3 | 3. | 46,7 | 4. | 55 | 6. | 35 | 5. | 25 | 7. | 5 | 18. | 5 |
| Sat. | 1. | 24. | 44,6 | 3. | 46,2 | 4. | 53 | 6. | 34 | 5. | 26 | 7. | 7 | 18. | 4 |
| Dom. | 1. | 20. | 58,4 | 3. | 45,6 | 4. | 52 | 6. | 32 | 5. | 28 | 7. | 8 | 18. | 2 |
| Jan. | 1. | 17. | 12,8 | 3. | 45,1 | 4. | 50 | 6. | 31 | 5. | 29 | 7. | 10 | 18. | 1 |
| Mar. | 1. | 13. | 27,7 | 3. | 44,6 | 4. | 49 | 6. | 29 | 5. | 31 | 7. | 11 | 17. | 59 |

| Dies mensis | Dies hebdomadae | Longitudo Lunae Meridie | Longitudo Lunae media nocte | Latitudo Lunae Meridie | Latitudo Lunae med. noct. | Paral. laxis Lunae Meri die | Paral. laxis media Lunae nocte |
|-------------|-----------------|-------------------------------|-----------------------------------|------------------------------|---------------------------------|---|--|
| | | S. G. M. S. | S. G. M. S. | G.M.S. | G.M.S. | M. S. | M. S. |
| 1 | Mer | 11.14.19.37 | 11.21.34.44 | 3.30.5B | 3.58.21B | 59.50 | 59.52 |
| 2 | Jov | 11.28.50.19 | 0.6.5.38 | 4.22.44 | 4.42.52 | 59.53 | 59.50 |
| 3 | Ven | 0.13.20.4 | 0.20.33.0 | 4.58.29 | 5.9.22 | 59.45 | 59.39 |
| 4 | Sat. | 0.27.44.3 | 1.4.52.38 | 5.15.16 | 5.16.14 | 59.30 | 59.20 |
| 5 | Dom | 1.11.58.26 | 1.19.1.50 | 5.12.21 | 5.3.49 | 59.9 | 58.57 |
| 6 | Lun | 1.26.1.10 | 2.2.57.40 | 4.50.48 | 4.33.37 | 58.45 | 58.31 |
| 7 | Mar | 2.9.50.49 | 2.16.40.36 | 4.12.37 | 3.48.12 | 58.18 | 58.4 |
| 8 | Mer | 2.23.27.1 | 3.0.9.58 | 3.20.46 | 2.50.48 | 57.49 | 57.35 |
| 9 | Jov. | 3.6.49.39 | 3.13.26.5 | 2.18.45 | 1.35.7 | 57.21 | 57.6 |
| 10 | Ven. | 3.19.59.20 | 3.26.29.24 | 1.10.22 | 0.35.0 | 56.52 | 56.37 |
| 11 | Sat. | 5.2.56.19 | 4.9.20.5 | 0.0.33A | 0.35.48A | 56.22 | 56.7 |
| 12 | Dom | 5.15.40.53 | 4.21.58.45 | 1.10.13 | 1.45.29 | 55.53 | 55.38 |
| 13 | Lun. | 4.28.13.47 | 5.4.26.3 | 2.15.16 | 2.45.13 | 55.85 | 55.11 |
| 14 | Mar | 5.10.35.39 | 5.16.42.43 | 3.12.57 | 3.38.14 | 54.59 | 54.48 |
| 15 | Mer | 5.22.47.20 | 5.28.49.42 | 4.0.51 | 4.20.38 | 54.38 | 54.22 |
| 16 | Jov | 6.4.50.13 | 6.10.49.4 | 4.37.24 | 4.51.2 | 54.20 | 54.14 |
| 17 | Ven. | 6.16.46.33 | 6.22.43.5 | 5.1.27 | 5.8.37 | 54.10 | 54.8 |
| 18 | Sat. | 6.28.39.3 | 7.4.34.56 | 5.12.26 | 5.12.54 | 54.9 | 54.10 |
| 19 | Dom | 7.10.31.11 | 7.16.28.22 | 5.10.2 | 5.3.50 | 54.15 | 54.22 |
| 20 | Lun. | 7.22.27.1 | 7.28.27.44 | 4.54.18 | 4.41.28 | 54.31 | 54.44 |
| 21 | Mar | 8.4.31.9 | 8.10.57.50 | 4.25.26 | 4.6.14 | 54.57 | 55.16 |
| 22 | Mer | 8.16.48.20 | 8.23.3.17 | 3.44.0 | 3.18.51 | 55.35 | 55.57 |
| 23 | Jov. | 8.29.23.19 | 9.5.48.48 | 2.50.56 | 2.20.28 | 56.21 | 56.46 |
| 24 | Ven. | 9.12.20.11 | 9.18.57.54 | 1.47.45 | 1.13.5 | 57.12 | 57.40 |
| 25 | Sat. | 9.25.42.9 | 10.2.33.5 | 0.36.52 | 0.0.24B | 58.7 | 58.35 |
| 26 | Dom | 10.9.50.40 | 10.16.34.44 | 0.38.19B | 1.16.9 | 59.0 | 59.15 |
| 27 | Lun. | 10.23.44.54 | 11.1.0.39 | 1.53.20 | 2.29.5 | 59.46 | 60.6 |
| 28 | Mar | 11.8.21.16 | 11.15.45.46 | 3.2.44 | 3.33.31 | 60.22 | 60.34 |

| Dies hebdomadae Dies mensis | Diameter boriz. Lunae Meridie | | horiz. Lunae media noctis | | Declinatio Lunae in Meridia- no | | Ortus Lunae | | Transitus Lunae per Meridia- num | | Occasus Lunae | |
|--------------------------------|--|----|------------------------------------|----|---|------|----------------|-----|--|------|------------------|------|
| | M. | S. | M. | S. | G. | M. | H. | M. | H. | M. | H. | M. |
| 1 Mer | 32. | 49 | 32. | 50 | 2. | 24 A | 8. | 7M | 1. | 59 V | 8. | 5 V |
| 2 Jov. | 32. | 50 | 32. | 49 | 4. | 16 B | 8. | 29 | 2. | 49 | 9. | 23 |
| 3 Ven | 32. | 46 | 32. | 42 | 10. | 48 | 8. | 52 | 3. | 40 | 10. | 42 |
| 4 Sat. | 32. | 37 | 32. | 32 | 16. | 35 | 9. | 17 | 4. | 32 | 11. | 59 |
| 5 Dom | 32. | 25 | 32. | 19 | 21. | 24 | 9. | 46 | 5. | 26 | * M * | |
| 6 Lun. | 32. | 13 | 32. | 5 | 24. | 40 | 10. | 23 | 6. | 23 | 1. | 17 |
| 7 Mar | 31. | 58 | 31. | 50 | 26. | 28 | 11. | 10 | 7. | 22 | 2. | 31 |
| 8 Mer | 31. | 42 | 31. | 34 | 26. | 27 | 0. | 6 V | 8. | 21 | 3. | 37 |
| 9 Jov. | 31. | 26 | 31. | 18 | 24. | 47 | 1. | 10 | 9. | 18 | 4. | 39 |
| 10 Ven. | 31. | 10 | 31. | 2 | 21. | 42 | 2. | 19 | 10. | 12 | 5. | 19 |
| 11 Sat. | 30. | 54 | 30. | 46 | 17. | 32 | 3. | 30 | 11. | 2 | 5. | 55 |
| 12 Dom | 30. | 38 | 30. | 30 | 12. | 39 | 4. | 38 | 11. | 48 | 6. | 24 |
| 13 Lun. | 30. | 23 | 30. | 16 | * * | | 5. | 45 | * M * | | 6. | 46 |
| 14 Mar | 30. | 9 | 30. | 2 | 7. | 12 | 6. | 51 | 0. | 31 | 7. | 5 |
| 15 Mer | 29. | 57 | 29. | 52 | 1. | 38 | 7. | 55 | 1. | 13 | 7. | 23 |
| 16 Jov. | 29. | 48 | 29. | 44 | 3. | 55 A | 8. | 59 | 1. | 54 | 7. | 41 |
| 17 Ven | 29. | 42 | 29. | 41 | 9. | 16 | 10. | 4 | 2. | 35 | 7. | 59 |
| 18 Sat. | 29. | 41 | 29. | 42 | 14. | 13 | 11. | 9 | 3. | 17 | 8. | 19 |
| 19 Dum | 29. | 44 | 29. | 48 | 18. | 36 | * M * | | 4. | 0 | 8. | 41 |
| 20 Lun. | 29. | 54 | 30. | 0 | 22. | 14 | 0. | 13 | 4. | 46 | 9. | 10 |
| 21 Mar | 30. | 8 | 30. | 17 | 24. | 52 | 1. | 18 | 5. | 34 | 9. | 46 |
| 22 Mer | 30. | 28 | 30. | 40 | 26. | 23 | 2. | 18 | 6. | 25 | 10. | 30 |
| 23 Jov. | 30. | 53 | 31. | 7 | 26. | 27 | 3. | 14 | 7. | 19 | 11. | 26 |
| 24 Ven. | 31. | 22 | 31. | 38 | 25. | 2 | 4. | 4 | 8. | 15 | 0. | 32 V |
| 25 Sat. | 31. | 52 | 32. | 7 | 22. | 5 | 4. | 44 | 9. | 10 | 1. | 45 |
| 26 Dom | 32. | 21 | 32. | 34 | 17. | 41 | 5. | 18 | 10. | 4 | 3. | 0 |
| 27 Lun. | 32. | 46 | 32. | 57 | 12. | 9 | 5. | 47 | 10. | 57 | 4. | 19 |
| 28 Mar | 33. | 6 | 33. | 13 | 5. | 48 | 6. | 12 | 11. | 49 | 5. | 40 |

| Die mens. | Longitudo Planetarum | Latitudo Planetarum | Declinatio Planetarum | Ortus Planetarum | Transit. Planet. per Meridian. | Occasus Planetarum |
|-------------------|----------------------|---------------------|-----------------------|------------------|--------------------------------|--------------------|
| | S. G. M. | G. M. | G. M. | H. M. | H. M. | H. M. |
| URANUS. | | | | | | |
| 1 | 3. 17. 58 | 0. 29 A | 22. 44 B | 2. 32 V | 10. 17 V | 6. 2 M |
| 16 | 3. 17. 27 | 0. 29 | 22. 48 | 1. 30 | 9. 15 | 5. 0 |
| SATURNUS. | | | | | | |
| 1 | 10. 8. 30 | 0. 38 A | 18. 37 A | 6. 58 M | 11. 40 M | 4. 22 V |
| 7 | 10. 9. 13 | 0. 39 | 18. 46 | 6. 36 | 11. 19 | 4. 2 |
| 13 | 10. 9. 55 | 0. 39 | 18. 25 | 6. 16 | 11. 0 | 3. 44 |
| 19 | 10. 10. 37 | 0. 40 | 18. 14 | 5. 53 | 10. 38 | 3. 23 |
| 25 | 10. 11. 18 | 0. 40 | 18. 3 | 5. 32 | 10. 18 | 3. 4 |
| JUPITER. | | | | | | |
| 1 | 0. 11. 0 | 1. 11 A | 3. 18 B | 9. 25 M | 3. 41 V | 9. 57 V |
| 7 | 0. 12. 12 | 1. 10 | 3. 45 | 9. 3 | 3. 21 | 9. 31 |
| 13 | 0. 13. 22 | 1. 9 | 4. 14 | 8. 41 | 3. 1 | 9. 21 |
| 19 | 0. 14. 35 | 1. 8 | 4. 43 | 8. 21 | 2. 43 | 9. 5 |
| 25 | 0. 15. 51 | 1. 7 | 5. 13 | 8. 0 | 2. 24 | 8. 48 |
| MARS. | | | | | | |
| 1 | 2. 3. 27 | 2. 23 B | 23. 13 B | 11. 14 M | 7. 1 V | 2. 48 M |
| 7 | 2. 5. 25 | 2. 21 | 23. 33 | 10. 58 | 6. 46 | 2. 34 |
| 13 | 2. 7. 34 | 2. 18 | 23. 52 | 10. 42 | 6. 32 | 2. 22 |
| 19 | 2. 9. 55 | 2. 16 | 24. 12 | 10. 27 | 6. 19 | 2. 11 |
| 25 | 2. 12. 27 | 2. 13 | 24. 31 | 10. 13 | 6. 7 | 2. 1 |
| VENUS. | | | | | | |
| 1 | 10. 1. 1 | 0. 45 A | 20. 14 A | 6. 39 M | 11. 12 M | 3. 45 V |
| 7 | 10. 8. 32 | 0. 56 | 19. 3 | 6. 38 | 11. 19 | 4. 0 |
| 13 | 10. 16. 3 | 1. 7 | 17. 7 | 6. 36 | 11. 26 | 4. 16 |
| 19 | 10. 23. 33 | 1. 14 | 14. 51 | 6. 33 | 11. 33 | 4. 35 |
| 25 | 11. 1. 3 | 1. 20 | 12. 22 | 6. 27 | 11. 39 | 4. 51 |
| MERCURIUS. | | | | | | |
| 1 | 9. 17. 31 | 0. 42 B | 21. 38 A | 5. 47 M | 10. 15 M | 2. 43 V |
| 7 | 9. 24. 25 | 0. 14 A | 21. 50 | 5. 54 | 10. 21 | 2. 48 |
| 13 | 10. 2. 19 | 1. 1 | 20. 39 | 5. 59 | 10. 32 | 3. 5 |
| 19 | 10. 10. 58 | 1. 37 | 19. 3 | 6. 4 | 10. 45 | 3. 26 |
| 25 | 10. 20. 14 | 2. 0 | 16. 40 | 6. 8 | 11. 0 | 3. 52 |

ECLIPSES SATELLITUM JOVIS.

| <i>Dies mensis</i> | I. Satelles . | | | <i>Dies</i> | II. Satelles | | | <i>Dies</i> | III. Satelles . | | | |
|--------------------|-------------------|-----------|-----------|-------------|-------------------|-----------|-----------|-------------|-----------------------|-----------|-----------|------|
| | <i>Emerfiones</i> | | | | <i>Emerfiones</i> | | | | <i>Imerf. Emerf.</i> | | | |
| | <i>H.</i> | <i>M.</i> | <i>S.</i> | | <i>H.</i> | <i>M.</i> | <i>S.</i> | | <i>H.</i> | <i>M.</i> | <i>S.</i> | |
| 2 | 10. | 56. | 35. | 3 | 6. | 7. | 2. | 6 | 13 | 9. | 13. | Y |
| 4 | 5.* | 25. | 23. | 6 | 19. | 24. | 42. | 6 | 15. | 5. | 56. | E |
| 5 | 23. | 54. | 14. | 10 | 8.* | 42. | 32. | 13 | 17. | 12. | 5. | I |
| 7 | 18. | 23. | 10. | 13 | 22. | 0. | 30. | 13 | 19. | 7. | 41. | E |
| 9 | 12. | 52. | 4 | 17 | 11. | 18. | 35. | 20 | 21. | 15. | 21. | I |
| 11 | 7.* | 21. | 3. | 21 | 0. | 36. | 48. | 20 | 23. | 9. | 58. | E |
| 13 | 1. | 50. | 2. | 24 | 13. | 55. | 9. | 28 | 1. | 19. | 29. | I |
| 14 | 20. | 19. | 5. | 28 | 3. | 13. | 25 | 28 | 3. | 12. | 47. | E |
| 16 | 14. | 48. | 10. | | | | | | | | | |
| 18 | 9. | 17. | 20. | | | | | | | | | |
| 20 | 3. | 46. | 25. | | | | | | | | | |
| 21 | 22. | 15. | 35. | | | | | | | | | |
| 25 | 16. | 44. | 46. | | | | | <i>Dies</i> | IV. Satelles . | | | |
| 25 | 11. | 14. | 2. | | | | | | <i>Conjunctiones.</i> | | | |
| 27 | 5. | 43. | 15. | | | | | 6 | 18. | 55. | 24. | sup. |
| | | | | | | | | 15 | 5.* | 0. | 24. | inf. |
| | | | | | | | | 23 | 15. | 17. | 24. | sup. |

| <i>Dies</i> | <i>Diameter Solis</i> | <i>Mora transitus Solis per Mer idian.</i> | <i>Motus horarius Solis</i> | <i>Logarithmus distantiae Solis a terra posita media 10000.</i> | <i>Longitudo Nodi Lunae</i> |
|-------------|-----------------------|--|-----------------------------|---|-----------------------------|
| | <i>M. S.</i> | <i>M. S.</i> | <i>M. S.</i> | | <i>S. G. M.</i> |
| 1 | 32. 30,0 | 2. 16, 0 | 2. 32, 0 | 4. 993869. | 10. 2. 19 |
| 4 | 32. 28,8 | 2. 15, 3 | 2. 31, 9 | 4. 994083. | 10. 2. 9 |
| 7 | 32. 27,8 | 2. 14, 6 | 2. 31, 7 | 4. 994309. | 10. 2. 0 |
| 10 | 32. 26,6 | 2. 13, 9 | 2. 31, 6 | 4. 994552. | 10. 1. 50 |
| 13 | 32. 25,4 | 2. 13, 2 | 2. 31, 4 | 4. 994812. | 10. 1. 40 |
| 16 | 32. 24,2 | 2. 12, 6 | 2. 31, 2 | 4. 995091. | 10. 1. 31 |
| 19 | 32. 23,0 | 2. 12, 0 | 2. 31, 0 | 4. 995391. | 10. 1. 21 |
| 22 | 32. 21,7 | 2. 11, 5 | 2. 30, 8 | 4. 995707. | 10. 1. 12 |
| 25 | 32. 20,3 | 2. 11, 0 | 2. 30, 6 | 4. 996033. | 10. 1. 3 |
| 28 | 32. 18,8 | 2. 10, 6 | 2. 30, 4 | 4. 996364. | 10. 0. 53 |

POSITIONES SATELLITUM JOVIS

| | <i>Oriens</i> | | <i>6.^h Vespere</i> | | <i>Occidens</i> |
|----|---------------|----------|-------------------------------|---|-----------------|
| 1 | 10 | .3 | .1 | ☉ | .9 |
| 2 | | | .3 | ☉ | 1. 2. 4. |
| 3 | 10 | .2 | | ☉ | .3 4. |
| 4 | | 2. | 1. | ☉ | .3 4. |
| 5 | | | | ☉ | .1. 2. 3. 4. |
| 6 | | 1. | | ☉ | 3. 4. 2. |
| 7 | | 3. 2. 4. | | ☉ | 1. |
| 8 | | 3. 4. | .1. 2. | ☉ | |
| 9 | 4. | 3. | | ☉ | .1. 2. |
| 10 | 4. | .1 | | ☉ | 3. |
| 11 | .4 | .2 | | ☉ | .3 10 |
| 12 | .4 | | | ☉ | 1. 2. 3. |
| 13 | .4 | 1. | | ☉ | .1. 2. |
| 14 | | 1. 2. | .4 | ☉ | .1 |
| 15 | 4.0 | 3. | 1. 2. | ☉ | |
| 16 | | .3 | | ☉ | 1. 2. 3. 4. |
| 17 | 3.0 | | .1 | ☉ | 2. 4. |
| 18 | 10 | .2 | | ☉ | .3 4. |
| 19 | | | | ☉ | .1. 2. 4. |
| 20 | | .1 | | ☉ | 3. 2. 4. |
| 21 | | | 2. 3. | ☉ | .1 4. |
| 22 | | 3. | 1. 2. | ☉ | 4. |
| 23 | | 3. | | ☉ | 4. 1. 2. |
| 24 | 3.0 | | 4. 1. | ☉ | 2. |
| 25 | | .4 .2 | | ☉ | 1. 3. |
| 26 | .4 | | | ☉ | 3. 1. 2. 3. |
| 27 | 4. | | 1. | ☉ | 1. 2. |
| 28 | .4 | | 2. 3. | ☉ | 1. |

Phenomena & Observationes Solis

| <i>Die</i> | <i>Solis</i> |
|------------|---|
| | Sol in parallelo |
| 3 | β Aquarii culm. 22 ^h 17' |
| 3 | in node ascendente Urani |
| 4 | λ Orionis culm. 6 ^h 19' |
| 6 | β Eridani culm. 5 ^h 36' |
| | item λ Antinoi culm. 19 ^h 40' |
| 9 | ε Ophiuci culm. 16 ^h 42' |
| 10 | 2 Serpentis culm. 18 ^h 21' |
| 11 | δ Ophiuci culm. 16 ^h 31' |
| 12 | n & μ Serpentis culm. 18 ^h 34' |
| | & 16 ^h 2' |
| 12 | n Orionis & γ Aquarii culm. |
| | 5 ^h 36' & 22 ^h 30' |
| 14 | ζ Orionis culm. 5 ^h 48' |
| 15 | n Antinoi culm. 19 ^h 39' |
| 16 | γ Anti., α Aquar., & ε Orion |
| | culm. 20 ^h 10', 22 ^h 4', & 5 ^h 37' |
| 18 | γ Ceti & δ Orionis culm. 2 ^h 53' |
| | & 5 ^h 44' |
| 19 | in signo Arietis 23 ^h 6' |
| 22 | n Antinoi, ζ & n Virg. culm. |
| | 19 ^h 32', 13 ^h 16', & 12 ^h 1' |
| 25 | γ Ceti culm. 2 ^h 12' |
| 26 | δ Aquilae & γ Ophiuci culm. |
| | 13 ^h 47', & 17 ^h 10' |
| 27 | β Virg. & α Ceti culm. 11 ^h 10' |
| | & 2 ^h 24' |
| 28 | in media distantia a terra |
| 31 | δ Virg. & β Oph. 12 ^h 0', & 16 ^h 47' |

Phenomena & Observationes Planetarum

| | |
|----|--|
| 1 | Mercur. ad 39. Aquar. diff. lat. 43' |
| 1 | Jup. ad 27 & 88. Pisc. d. ff. lat. 53' & 15' |
| 2 | Ven. in maxima latitud. heliocen. |
| 15 | Jupiter ad 96. Pisc. diff. lat. 50' |
| 16 | Mercurius ad Veneris diff. lat. 8' |
| 18 | Merc. in conjun. super. cum Sole |
| 18 | Mars ad 125. Tauri diff. lat. 27' |
| 21 | Venus in conjun. super. cum Sole |
| 23 | Uranus stationarius |
| 23 | Mars ad 138. Tauri diff. lat. 54' |
| 27 | Mars ad 139. Tauri diff. lat. 30' |

Phenomena & Observationes Lunae

| <i>Die</i> | <i>Lunae</i> |
|------------|--|
| 2 | Perigea . . . 3. ad η Piscium 1 ^h 7' |
| 5 | ad η Tauri Imm. 8 ^h 30' dist. 10' |
| | Emer. 9 ^h 20' |
| 6 | Primus quadrans 17 ^h 52' |
| 6 | ad Martis 17 ^h 45' |
| 7 | ad 125. Tauri 3 ^h 45' |
| 8 | ad ε Geminorum 5 ^h 45' |
| 9 | ad 84. Geminorum 11 ^h 15' |
| 10 | ad θ & δ Cancri 5 ^h 43' & 11 ^h 20' |
| 14 | Plenilunium 10 ^h 30' |
| 14 | ad υ Leonis 5 ^h 36' |
| 17 | Apogea . . 19 ad 91. Libr. 10 ^h 14' |
| 19 | ad π Scorpii 22 ^h 16' |
| 20 | ad σ & α Scorpii 8 ^h & 11 ^h 55' |
| 22 | Ultimus quadrans 14 ^h 30' |
| 22 | ad λ Sagittarii 15 ^h 54' |
| 23 | ad φ Sagittarii 14 ^h 32' |
| 26 | ad θ Aquarii 21 ^h 42' |
| 29 | Novilunium 12 ^h 44' |
| 30 | ad η Piscium 11 ^h 17' |
| 31 | Perigea |

Planetae in parallelis fixarum.

Uran. 7. Cancri, δ & 84. Geminor.
 Saturnus α Leporis, β Canis, γ Capri, α Crateris, δ Capri.
 Jupit. ε Serpen., Proc., β Aquil., γ Orion., ε Hydr., α Serpent., α Orionis, α Aquilae.
 Mars 2 & ε Leon. δ Herc., ε Gem.
 Venus: δ & ε Eridani, 2 Ophiuci, α & x Virginis; 6. Rigel, α Hydrae; 10. β Aquarii, 1 Orionis, β Eridani, λ Antinoi; 15. ε & δ Ophiuci. 2, n, μ Serpentis; 20. ε & δ Orionis, α Aquarii, γ, 2, n, β Virginis.
 Mercurius 53. & γ Eridani, α Capri, ε Ceti, α & x Virginis, β Librae, Rigel

| Dies mensis | Die hebdomadae | Æquatio addenda temporis vero ut habeatur medium | | Differrentia | Longitudo Solis | | | Ascensio recta Solis | | | Declinatio Solis Australis | |
|-------------|----------------|--|-------|--------------|-----------------|-----|--------|----------------------|-----|----|----------------------------|--------|
| | | M. | S. | | S. | G. | M. | S. | G. | M. | S. | G. | M. | S. |
| 1 | Mer | 12. | 36, 9 | 11, 8 | 11. | 11. | 6. 42 | 342. | 34. | 13 | 7. | 24. 34 |
| 2 | Jov. | 12. | 23, 7 | 12, 3 | 11. | 12. | 6. 29 | 343. | 30. | 15 | 7. | 1. 40 |
| 3 | Ven. | 12. | 10, 8 | 12, 9 | 11. | 13. | 6. 33 | 344. | 26. | 9 | 6. | 36. 40 |
| 4 | Sat. | 11. | 57, 3 | 13, 5 | 11. | 14. | 6. 35 | 345. | 21. | 56 | 6. | 15. 35 |
| 5 | Dom | 11. | 43, 4 | 13, 9 | 11. | 15. | 6. 36 | 346. | 17. | 35 | 5. | 52. 25 |
| 6 | Lun | 11. | 29, 0 | 14, 4 | 11. | 16. | 6. 34 | 347. | 13. | 9 | 5. | 29. 10 |
| 7 | Mar | 11. | 14, 3 | 14, 7 | 11. | 17. | 6. 30 | 348. | 8. | 36 | 5. | 5. 51 |
| 8 | Mer | 10. | 59, 1 | 15, 2 | 11. | 18. | 6. 24 | 349. | 3. | 57 | 4. | 42. 28 |
| 9 | Jov. | 10. | 45, 6 | 15, 5 | 11. | 19. | 6. 16 | 349. | 59. | 12 | 4. | 19. 2 |
| 10 | Ven | 10. | 27, 8 | 15, 8 | 11. | 20. | 6. 6 | 350. | 54. | 23 | 3. | 55. 34 |
| 11 | Sat. | 10. | 11, 7 | 16, 1 | 11. | 21. | 5. 53 | 351. | 49. | 27 | 3. | 31. 59 |
| 12 | Dom | 9. | 55, 2 | 16, 5 | 11. | 22. | 5. 38 | 352. | 44. | 26 | 3. | 8. 24 |
| 13 | Lun | 9. | 38, 2 | 17, 0 | 11. | 23. | 5. 20 | 353. | 39. | 21 | 2. | 44. 45 |
| 14 | Mar | 9. | 21, 0 | 17, 2 | 11. | 24. | 5. 0 | 354. | 34. | 11 | 2. | 21. 10 |
| 15 | Mer | 9. | 3, 6 | 17, 3 | 11. | 25. | 4. 37 | 355. | 28. | 57 | 1. | 57. 21 |
| 16 | Jov. | 8. | 46, 1 | 17, 6 | 11. | 26. | 4. 12 | 356. | 23. | 39 | 1. | 33. 51 |
| 17 | Ven. | 8. | 28, 2 | 17, 9 | 11. | 27. | 3. 45 | 357. | 18. | 18 | 1. | 10. 10 |
| 18 | Sat. | 8. | 10, 0 | 18, 2 | 11. | 28. | 3. 16 | 358. | 12. | 55 | 0. | 46. 29 |
| 19 | Dom | 7. | 51, 7 | 18, 3 | 11. | 29. | 2. 46 | 359. | 7. | 30 | 0. | 22. 48 |
| 20 | Lun. | 7. | 33, 4 | 18, 3 | 0. | 0. | 2. 14 | 0. | 2. | 3 | 0. | 0. 53 |
| 21 | Mar | 7. | 15, 1 | 18, 3 | 0. | 1. | 1. 40 | 0. | 56. | 34 | 0. | 24. 33 |
| 22 | Mer | 6. | 56, 6 | 18, 5 | 0. | 2. | 1. 4 | 1. | 51. | 4 | 0. | 48. 12 |
| 23 | Jov. | 6. | 38, 0 | 18, 6 | 0. | 3. | 0. 27 | 2. | 45. | 33 | 1. | 11. 50 |
| 24 | Ven. | 6. | 19, 4 | 18, 6 | 0. | 3. | 59. 48 | 3. | 40. | 1 | 1. | 35. 26 |
| 25 | Sat. | 6. | 0, 7 | 18, 7 | 0. | 4. | 59. 7 | 4. | 34. | 29 | 1. | 59. 0 |
| 26 | Dom | 5. | 42, 1 | 18, 6 | 0. | 5. | 58. 24 | 5. | 28. | 57 | 2. | 22. 31 |
| 27 | Lun. | 5. | 23, 5 | 18, 6 | 0. | 6. | 57. 40 | 6. | 23. | 25 | 2. | 5. 59 |
| 28 | Mar. | 5. | 4, 9 | 18, 5 | 0. | 7. | 56. 54 | 7. | 17. | 54 | 2. | 9. 44 |
| 29 | Mer | 4. | 46, 4 | 18, 4 | 0. | 8. | 56. 7 | 8. | 12. | 24 | 3. | 34. 4 |
| 30 | Jov. | 4. | 28, 0 | 18, 3 | 0. | 9. | 55. 18 | 9. | 6. | 55 | 3. | 56. 4 |
| 31 | Ven. | 4. | 9, 7 | 18, 2 | 0. | 10. | 54. 26 | 10. | 1. | 27 | 4. | 19. 17 |

| Dies mensis | Dies hebdomadae | Distantia sectionis γ a Sole | | | Differentia | Initium Crepusculi | Ortus Centri Solis | | Occasus Centri Solis | | Finis Crepusculi | | Hora Italica Meridies | | | |
|-------------|-----------------|-------------------------------------|-----|------|-------------|--------------------|--------------------|----|----------------------|----|------------------|----|-----------------------|-----|-----|----|
| | | H. | M. | S. | | | M. | S. | H. | M. | H. | M. | H. | M. | H. | M. |
| 1 | Mer | 1. | 9 | 43,1 | | 4. | 47 | 6. | 27 | 5. | 41 | 8. | 13 | 17. | 57 | |
| 2 | Jov. | 1. | 5. | 59,0 | 3. | 44,1 | 4. | 46 | 6. | 25 | 5. | 42 | 7. | 14 | 17. | 55 |
| 3 | Ven. | 1. | 2. | 15,4 | 3. | 43,6 | 4. | 44 | 6. | 24 | 5. | 43 | 7. | 16 | 17. | 54 |
| 4 | Sat. | 0 | 58 | 22,3 | 3. | 43,1 | 4. | 44 | 6. | 24 | 5. | 43 | 7. | 16 | 17. | 54 |
| 5 | Dom | 0 | 54 | 49,7 | 3. | 42,6 | 4. | 43 | 6. | 22 | 5. | 45 | 7. | 17 | 17. | 52 |
| 6 | Lun. | 0 | 54 | 49,7 | 3. | 42,2 | 4. | 42 | 6. | 21 | 5. | 47 | 7. | 18 | 17. | 51 |
| 7 | Lun. | 0 | 51. | 7,5 | 3. | 41,8 | 4. | 40 | 6. | 19 | 5. | 48 | 7. | 20 | 17. | 49 |
| 8 | Mar. | 0 | 47. | 25,7 | 3. | 41,4 | 4. | 39 | 6. | 18 | 5. | 50 | 7. | 21 | 17. | 48 |
| 9 | Mer. | 0 | 43. | 44,3 | 3. | 41,0 | 4. | 37 | 6. | 16 | 5. | 51 | 7. | 23 | 17. | 46 |
| 10 | Jov. | 0 | 40. | 3,3 | 3. | 40,7 | 4. | 35 | 6. | 15 | 5. | 53 | 7. | 25 | 17. | 45 |
| 11 | Ven. | 0 | 36. | 22,6 | 3. | 40,3 | 4. | 34 | 6. | 13 | 5. | 55 | 7. | 26 | 17. | 43 |
| 12 | Sat. | 0 | 32. | 42,8 | 3. | 40,0 | 4. | 32 | 6. | 11 | 5. | 56 | 7. | 28 | 17. | 42 |
| 13 | Dom. | 0 | 29. | 2,3 | 3. | 39,7 | 4. | 30 | 6. | 12 | 5. | 58 | 7. | 30 | 17. | 40 |
| 14 | Lun. | 0 | 25. | 22,6 | 3. | 39,4 | 4. | 28 | 6. | 9 | 5. | 59 | 7. | 32 | 17. | 38 |
| 15 | Mar. | 0 | 21. | 43,2 | 3. | 39,1 | 4. | 26 | 6. | 7 | 6. | 0 | 7. | 34 | 17. | 36 |
| 16 | Mer. | 0 | 18. | 4,1 | 3. | 38,8 | 4. | 25 | 6. | 5 | 6. | 2 | 7. | 35 | 17. | 34 |
| 17 | Jov. | 0 | 14. | 25,3 | 3. | 38,6 | 4. | 23 | 6. | 4 | 6. | 56 | 7. | 37 | 17. | 32 |
| 18 | Ven. | 0 | 10. | 46,7 | 3. | 38,4 | 4. | 21 | 6. | 3 | 6. | 58 | 7. | 39 | 17. | 30 |
| 19 | Sat. | 0 | 7. | 8,3 | 3. | 38,3 | 4. | 19 | 6. | 1 | 6. | 59 | 7. | 41 | 17. | 28 |
| 20 | Dom. | 0 | 3. | 30,0 | 3. | 38,2 | 4. | 17 | 5. | 59 | 6. | 0 | 7. | 42 | 17. | 26 |
| 21 | Lun. | 23. | 59. | 51,8 | 3. | 38,2 | 4. | 15 | 5. | 58 | 6. | 2 | 7. | 43 | 17. | 24 |
| 22 | Mar. | 23. | 56. | 13,7 | 3. | 38,1 | 4. | 14 | 5. | 58 | 6. | 2 | 7. | 43 | 17. | 24 |
| 23 | Mer. | 23. | 52. | 35,7 | 3. | 38,0 | 4. | 12 | 5. | 56 | 6. | 4 | 7. | 46 | 17. | 22 |
| 24 | Jov. | 23. | 48. | 57,8 | 3. | 37,9 | 4. | 10 | 5. | 54 | 6. | 6 | 7. | 48 | 17. | 20 |
| 25 | Ven. | 23. | 45. | 19,2 | 3. | 37,9 | 4. | 8 | 5. | 53 | 6. | 7 | 7. | 50 | 17. | 18 |
| 26 | Sat. | 23. | 41. | 42,0 | 3. | 37,9 | 4. | 7 | 5. | 51 | 6. | 9 | 7. | 52 | 17. | 16 |
| 27 | Dom. | 23. | 38. | 4,2 | 3. | 37,9 | 4. | 7 | 5. | 40 | 6. | 11 | 7. | 53 | 17. | 14 |
| 28 | Lun. | 23. | 34. | 26,3 | 3. | 37,9 | 4. | 5 | 5. | 48 | 6. | 12 | 7. | 55 | 17. | 12 |
| 29 | Mar. | 23. | 30. | 48,4 | 3. | 37,9 | 4. | 3 | 5. | 46 | 6. | 14 | 7. | 57 | 17. | 10 |
| 30 | Jov. | 23. | 27. | 10,5 | 3. | 38,0 | 3. | 59 | 5. | 45 | 6. | 15 | 7. | 59 | 17. | 8 |
| 31 | Ven. | 23. | 23. | 32,6 | 3. | 38,0 | 3. | 57 | 5. | 43 | 6. | 17 | 7. | 1 | 17. | 6 |
| 32 | Sat. | 23. | 19. | 54,7 | 3. | 38,1 | 3. | 55 | 5. | 41 | 6. | 19 | 7. | 3 | 17. | 4 |
| 33 | Dom. | 23. | 19. | 54,7 | 3. | 38,2 | 3. | 55 | 5. | 40 | 6. | 20 | 7. | 5 | 17. | 2 |

| Dies mensis | Dies hebdomadae | Longitudo Lunae Meridie | Longitudo Lunae media nocte | Latitudo Lunae Meridie | Latitudo Lunae med. noct. | Paral. Lunae Meridie | Paral. Lunae media nocte |
|-------------|-----------------|-------------------------|-----------------------------|------------------------|---------------------------|----------------------|--------------------------|
| | | S. G. M. S. | S. G. M. S. | G. M. S. | G. M. S. | M. S. | M. S. |
| 1 | Mer | 11.23.13.8 | 0.042.16 | 4.056B | 4.24.20B | 60.42 | 50.46 |
| 2 | Jov | 0.8.12.6 | 0.15.41.23 | 4.43.7 | 4.57.0 | 60.46 | 60.41 |
| 3 | Ven. | 0.23.8.56 | 1.0.33.50 | 5.5.46 | 5.9.23 | 60.33 | 60.22 |
| 4 | Sat. | 1.7.55.7 | 1.15.12.7 | 5.7.51 | 5.1.22 | 60.8 | 59.52 |
| 5 | Dom | 1.22.24.23 | 1.29.31.34 | 4.50.7 | 4.34.31 | 59.33 | 59.14 |
| 6 | Lun. | 2.6.33.20 | 2.13.29.40 | 4.14.55 | 3.51.49 | 58.55 | 58.32 |
| 7 | Mar | 2.20.20.33 | 2.27.6.12 | 3.25.40 | 2.56.57 | 58.11 | 57.50 |
| 8 | Mer | 3.3.46.50 | 3.10.22.45 | 2.26.10 | 1.53.51 | 57.29 | 57.10 |
| 9 | Jov. | 3.16.54.12 | 3.23.21.34 | 1.20.19 | 0.46.10 | 56.50 | 56.32 |
| 10 | Ven. | 3.29.45.9 | 4.6.5.18 | 0.11.46 | 0.22.26A | 56.14 | 55.58 |
| 11 | Sat. | 4.12.22.23 | 4.18.36.40 | 0.56.2A | 1.28.39 | 55.43 | 55.29 |
| 12 | Dom | 4.24.48.24 | 5.0.57.50 | 1.59.59 | 2.29.40 | 55.15 | 55.3 |
| 13 | Lun. | 5.7.5.11 | 5.13.10.38 | 2.57.22 | 3.22.50 | 54.52 | 54.41 |
| 14 | Mar | 5.19.14.22 | 5.25.16.33 | 3.45.52 | 4.6.15 | 54.32 | 54.24 |
| 15 | Mer | 6.1.17.17 | 6.7.16.43 | 4.23.48 | 4.38.21 | 54.17 | 54.11 |
| 16 | Jov. | 6.13.15.1 | 6.19.12.20 | 4.49.44 | 4.57.54 | 54.6 | 54.5 |
| 17 | Ven. | 6.25.8.59 | 7.1.5.8 | 5.2.49 | 5.4.29 | 54.1 | 54.0 |
| 18 | Sat. | 7.7.0.59 | 7.12.56.52 | 5.2.51 | 4.57.55 | 54.2 | 54.5 |
| 19 | Dom | 7.18.53.10 | 7.24.50.20 | 4.49.47 | 4.38.28 | 54.10 | 54.18 |
| 20 | Lun. | 8.0.48.43 | 8.6.48.53 | 4.24.4 | 4.6.40 | 54.27 | 54.30 |
| 21 | Mar | 8.12.51.18 | 8.18.56.31 | 3.46.24 | 3.23.24 | 54.53 | 55.9 |
| 22 | Mer | 8.25.5.12 | 9.1.17.56 | 2.57.51 | 2.29.54 | 55.28 | 55.49 |
| 23 | Jov. | 9.7.35.16 | 9.13.57.45 | 1.59.49 | 1.27.51 | 56.12 | 56.37 |
| 24 | Ven. | 9.20.26.0 | 9.27.0.38 | 0.54.14 | 0.19.21 | 57.4 | 57.34 |
| 25 | Sat. | 10.3.41.54 | 10.10.30.17 | 0.16.18A | 0.52.14A | 58.0 | 58.30 |
| 26 | Dom | 10.17.25.57 | 10.24.29.0 | 1.28.12 | 2.3.27 | 58.58 | 59.25 |
| 27 | Lun. | 11.1.39.19 | 11.8.56.33 | 2.27.13 | 3.8.48 | 59.52 | 60.18 |
| 28 | Mar | 11.16.20.6 | 11.23.48.59 | 3.37.44 | 4.3.15 | 60.37 | 60.54 |
| 29 | Jov. | 0.1.22.31 | 0.8.59.16 | 4.24.46 | 4.41.43 | 61.7 | 61.15 |
| 30 | Ven. | 0.16.17.46 | 0.24.16.30 | 4.53.44 | 5.0.29 | 61.10 | 61.17 |
| 31 | Sat. | 1.1.54.21 | 1.9.29.43 | 5.1.53 | 4.57.52 | 61.11 | 61.0 |

| Dies mensis | Diameter horiz. Lunae Meridie | | horiz. Lunae media noctē | | Declinatio Lunae in Meridia- no | | Ortus Lunae | | Transitus Lunae per Meridia- num | | Occasus Lunae | |
|----------------|--|----|-----------------------------------|----|---|------|----------------|------|--|------|------------------|------|
| | M. | S. | M. | S. | G. | M. | H. | M. | H. | M. | H. | M. |
| 1 Mer | 33. | 17 | 33. | 19 | 1. | 1 B | 6. | 34 M | 0. | 40 V | 7. | 0 V |
| 2 Jov. | 33. | 19 | 33. | 17 | 7. | 59 | 6. | 56 | 1. | 32 | 8. | 22 |
| 3 Ven. | 33. | 12 | 33. | 6 | 14. | 17 | 7. | 22 | 2. | 26 | 9. | 44 |
| 4 Sat. | 32. | 59 | 32. | 50 | 19. | 37 | 7. | 51 | 3. | 22 | 11. | 5 |
| 5 Dom | 32. | 39 | 32. | 28 | 23. | 36 | 8. | 27 | 4. | 20 | + M + | |
| 6 Lun. | 32. | 17 | 32. | 5 | 25. | 55 | 9. | 9 | 5. | 20 | 0. | 23 |
| 7 Mar | 31. | 54 | 31. | 42 | 26. | 27 | 10. | 5 | 6. | 20 | 1. | 34 |
| 8 Mer | 31. | 31 | 31. | 20 | 25. | 22 | 11. | 6 | 7. | 17 | 2. | 33 |
| 9 Jov. | 31. | 10 | 31. | 0 | 22. | 45 | 0. | 12 V | 8. | 11 | 3. | 24 |
| 10 Ven. | 30. | 50 | 30. | 41 | 18. | 55 | 1. | 23 | 9. | 2 | 4. | 0 |
| 11 Sat. | 30. | 33 | 30. | 25 | 14. | 19 | 2. | 33 | 9. | 50 | 4. | 31 |
| 12 Dom | 30. | 17 | 30. | 11 | 9. | 10 | 3. | 40 | 10. | 35 | 4. | 57 |
| 13 Lun. | 30. | 5 | 29. | 59 | 3. | 39 | 4. | 46 | 11. | 17 | 5. | 18 |
| 14 Mar | 29. | 54 | 29. | 50 | 1. | 52 A | 5. | 49 | 11. | 57 | 5. | 36 |
| 15 Mer | 29. | 46 | 29. | 42 | * * | | 6. | 53 | * M * | | 5. | 54 |
| 16 Jov. | 29. | 39 | 29. | 38 | 7. | 5 | 7. | 56 | 0. | 38 | 6. | 13 |
| 17 Ven. | 29. | 37 | 29. | 37 | 12. | 21 | 9. | 2 | 1. | 19 | 6. | 30 |
| 18 Sat. | 29. | 38 | 29. | 39 | 16. | 58 | 10. | 8 | 2. | 2 | 6. | 50 |
| 19 Dom | 29. | 42 | 29. | 47 | 20. | 52 | 11. | 12 | 2. | 47 | 7. | 18 |
| 20 Lun. | 29. | 51 | 29. | 58 | 23. | 54 | * M * | | 3. | 35 | 7. | 51 |
| 21 Mar | 30. | 6 | 30. | 15 | 25. | 46 | 0. | 13 | 4. | 25 | 8. | 23 |
| 22 Mer | 30. | 25 | 30. | 36 | 26. | 21 | 1. | 11 | 5. | 17 | 9. | 24 |
| 23 Jov. | 30. | 49 | 31. | 3 | 25. | 37 | 2. | 1 | 6. | 10 | 10. | 22 |
| 24 Ven. | 31. | 17 | 31. | 32 | 23. | 23 | 2. | 45 | 7. | 4 | 11. | 31 |
| 25 Sat. | 31. | 48 | 32. | 4 | 19. | 47 | 3. | 21 | 7. | 57 | 0. | 43 V |
| 26 Dom | 32. | 20 | 32. | 35 | 14. | 52 | 3. | 50 | 8. | 49 | 2. | 0 |
| 27 Lun. | 32. | 50 | 33. | 32 | 9. | 1 | 4. | 17 | 9. | 41 | 3. | 18 |
| 28 Mar | 33. | 14 | 33. | 24 | 2. | 29 | 4. | 41 | 10. | 33 | 4. | 39 |
| 29 Jov. | 33. | 31 | 33. | 35 | 4. | 29 B | 5. | 5 | 11. | 25 | 5. | 59 |
| 30 Ven. | 33. | 37 | 33. | 36 | 11. | 4 | 5. | 30 | 0. | 19 V | 7. | 28 |
| 31 Sat. | 33. | 63 | 33. | 27 | 16. | 52 | 5. | 59 | 1. | 16 | 8. | 47 |

| Die mens. | Longitudo Planetarum | Latitudo Planetarum | Declina- tio Plan- etarum | Ortus Planeta- rum | Transit. per Meri- dian | Occasus Planeta- rum |
|---------------------------|-------------------------|------------------------|---------------------------------|--------------------------|-------------------------------|----------------------------|
| | S. G. M. | G. M. | G. M. | H. M. | H. M. | H. M. |
| U R A N U S. | | | | | | |
| 1 | 3. 17. 8 | 0. 29 B | 22. 50 B | 0. 40 V | 8. 25 V | 4. 10 M |
| 16 | 3. 16. 55 | 0. 28 | 22. 52 | 11. 43 M | 7. 8 | 3. 13 |
| S A T U R N U S. | | | | | | |
| 1 | 10. 11. 44 | 0. 40 A | 17. 56 A | 5. 21 M | 0. 7 M | 2. 53 V |
| 7 | 10. 12. 23 | 0. 41 | 17. 46 | 5. 0 | 9. 47 | 2. 34 |
| 13 | 10. 13. 0 | 0. 42 | 17. 36 | 4. 39 | 9. 27 | 2. 15 |
| 19 | 10. 13. 35 | 0. 43 | 17. 27 | 4. 18 | 9. 7 | 1. 56 |
| 25 | 10. 14. 8 | 0. 43 | 17. 18 | 3. 58 | 8. 48 | 1. 38 |
| J U P I T E R. | | | | | | |
| 1 | 0. 16. 42 | 1. 6 A | 5. 33 B | 7. 46 M | 2. 12 V | 8. 58 V |
| 7 | 0. 18. 2 | 1. 6 | 6. 4 | 7. 27 | 1. 55 | 8. 23 |
| 13 | 0. 19. 23 | 1. 5 | 6. 36 | 7. 8 | 1. 38 | 8. 8 |
| 19 | 0. 20. 46 | 1. 4 | 7. 7 | 6. 50 | 1. 22 | 7. 54 |
| 25 | 0. 22. 10 | 1. 4 | 7. 39 | 6. 31 | 1. 6 | 7. 41 |
| M A R S. | | | | | | |
| 1 | 2. 14. 12 | 2. 11 B | 24. 42 B | 10. 5 M | 6. 0 V | 1. 55 M |
| 7 | 2. 16. 57 | 2. 8 | 24. 57 | 9. 53 | 5. 50 | 1. 47 |
| 13 | 2. 19. 48 | 2. 5 | 25. 9 | 9. 43 | 5. 41 | 1. 39 |
| 19 | 2. 22. 45 | 2. 2 | 25. 18 | 9. 34 | 5. 32 | 1. 31 |
| 25 | 2. 25. 46 | 1. 59 | 25. 23 | 9. 25 | 5. 24 | 1. 23 |
| V E N U S. | | | | | | |
| 1 | 11. 6. 2 | 1. 23 A | 10. 36 A | 6. 23 M | 11. 42 M | 5. 1 V |
| 7 | 11. 13. 32 | 1. 26 | 7. 48 | 6. 18 | 11. 49 | 5. 20 |
| 13 | 11. 21. 0 | 1. 26 | 4. 53 | 6. 11 | 11. 54 | 5. 37 |
| 19 | 11. 28. 28 | 1. 24 | 1. 53 | 6. 4 | 11. 59 | 5. 54 |
| 25 | 0. 5. 56 | 1. 19 | 1. 9 B | 6. 0 | 0. 4 V | 6. 8 |
| M E R C U R I U S. | | | | | | |
| 1 | 10. 26. 46 | 2. 9 A | 14. 37 A | 6. 8 M | 11. 10 M | 4. 13 V |
| 7 | 11. 7. 7 | 2. 8 | 10. 54 | 6. 10 | 11. 28 | 4. 16 V |
| 13 | 11. 18. 8 | 1. 51 | 6. 24 | 6. 10 | 11. 47 | 5. 14 |
| 19 | 11. 29. 50 | 1. 16 | 1. 13 | 6. 8 | 0. 6 V | 6. 4 |
| 25 | 0. 11. 59 | 0. 21 | 4. 25 B | 6. 4 | 0. 25 | 6. 26 |

ECLIPSES SATELLITUM JOVIS.

| Dies mensis | I. Satelles. | Dies | II. Satelles | Dies | III. Satelles |
|----------------|-------------------|------|-------------------|------|---------------------------------------|
| | <i>Emerfiones</i> | | <i>Emerfiones</i> | | <i>Interf. Emerf.</i> |
| | H. M. S. | | H. M. S. | | H. M. S. |
| 1 | 9. 48. 33. | 3 | 16. 32. 1. | 7 | 5. 23. 41. I |
| 2 | 18. 41. 46. | 7 | 5. 50. 32. | 7 | 7. 15. 59. E |
| 4 | 13. 11. 6. | 10 | 19. 9. 23. | 14 | 9. 28. 11. I |
| 6 | 7. 40. 27. | 14 | 8. 28. 10. | 14 | 11. 19. 29. E |
| 8 | 2. 9. 48. | | | | |
| 9 | 20. 39. 11. | | | | |
| 11 | 15. 8. 33. | | | | |
| 13 | 9. 37. 56. | | | | |
| 15 | 4. 7. 20. | | | | |
| | | | | Dies | IV. Satelles <i>Conjunctiones.</i> |
| | | | | 4 | 1. 28. 24. inf. |
| | | | | 12 | 12. 4. 24. sup. |

| Dies | Diameter Solis | Mora transitus Solis per Meridian. | Motus horarius Solis | Logarithmus distantiae Solis a terra posita media 10000. | Longitudo Nodi Lunae |
|------|-------------------|---|----------------------------|--|-------------------------|
| | M. S. | M. S. | M. S. | | S. G. M. |
| 1 | 32. 18,0 | 2. 10, 4 | 2. 30, 1 | 4. 996479. | 10. 0. 50 |
| 4 | 32. 16, 9 | 2. 10, 0 | 2. 29, 9 | 4. 996816. | 10. 0. 41 |
| 7 | 32. 15, 1 | 2. 9, 6 | 2. 29, 7 | 4. 997156. | 10. 0. 31 |
| 10 | 32. 14, 0 | 2. 9, 3 | 2. 29, 4 | 4. 997499. | 10. 0. 22 |
| 13 | 32. 12, 4 | 2. 9, 0 | 2. 29, 2 | 4. 997850. | 10. 0. 12 |
| 16 | 32. 10, 8 | 2. 8, 8 | 2. 29, 0 | 4. 998211. | 10. 0. 3 |
| 19 | 32. 9, 2 | 2. 8, 6 | 2. 28, 8 | 4. 998586. | 9. 29. 53 |
| 22 | 32. 7, 4 | 2. 8, 5 | 2. 28, 5 | 4. 998965. | 9. 29. 43 |
| 25 | 32. 5, 7 | 2. 8, 4 | 2. 28, 2 | 4. 999351. | 9. 29. 34 |
| 28 | 32. 4, 1 | 2. 8, 5 | 2. 28, 0 | 4. 999736. | 9. 29. 24 |

POSITIONES SATELLITUM JOVIS

Oriens

7.^h Vespere

Occidens

| | Oriens | 7. ^h Vespere | Occidens |
|----|--------|-------------------------|----------------------|
| 1 | .4 | 1♂ ₂ | ○ |
| 2 | | .4 .3 | ○ 1. .2 |
| 3 | | 4♂ ^{1.3} | ○ 2. |
| 4 | | 2. | ○ 1♂ ₄ .3 |
| 5 | 2.0 | 1. | ○ .4 .3 |
| 6 | 1.0 | | ○ 3.3. 4. |
| 7 | | 2♂ ₃ | ○ .1 .4 |
| 8 | | 1. .2 1. | ○ 4. |
| 9 | .3 | | ○ 1♂ ₂ 4. |
| 10 | | 1♂ ¹ | ○ .2 4. |
| 11 | | 2. | ○ 1. 4♂ ¹ |
| 12 | | 1♂ ² | ○ 3. 3. |
| 13 | 10 | 4. | ○ 2♂ ³ |
| 14 | | 4. | ○ .1 10 |
| 15 | .4 | 1. .2 1. | ○ |
| 16 | .4 .3 | | ○ 1♂ ₂ |
| 17 | .4 | 1. 1 | ○ .2 |
| 18 | .4 | 3. | ○ 1♂ ³ |
| 19 | | 4. 2. 1 | ○ .3 |
| 20 | | .4 | ○ 1. 2. .3 |
| 21 | 1.0 | | ○ 3. 4. 3. |
| 22 | | 1♂ ² 1. | ○ .4 |
| 23 | 2.0 | .3 | ○ .1 4. |
| 24 | | 1. 1. | ○ 2. 4. |
| 25 | 1.0 | 2. | ○ 1. .4 |
| 26 | | 1♂ ² | ○ .3 4. |
| 27 | | | ○ 1. 2. 1. 4. |
| 28 | | .1 | ○ 2. 3. 4. |
| 29 | | 1♂ ² | ○ 4. |
| 30 | | 3. 4. | ○ 1. 3. |
| 31 | 4. .3 | 1. | ○ 2. |

Phenomena & Observationes Solis

| Sol in parallelo | |
|------------------------------------|--|
| 2 ε Serpentis | culm. 14 ^h 49' |
| 3 Procyon. & β Aquilae | culm. 6 ^h 33' & 18 ^h 48' |
| 4 γ Orionis | culm. 4 ^h 16' |
| 7 α Serpentis, & α Orion. | culm. 14 ^h 25', & 4 ^h 36' |
| 10 α Aquilae | culm. 18 ^h 16' |
| 11 β Canis. & ε Pegasi | culm. 5 ^h 52' & 20 ^h 8' |
| 12 γ Pegasi & β Cancrī | culm. 20 ^h 54', & 6 ^h 30' |
| 15 γ Aquilae | culm. 17 ^h 56' |
| 16 ρ Leonis & ε Delphini | culm. 8 ^h 39' & 18 ^h 38' |
| 17 δ Serpentis | culm. 13 ^h 34' |
| 19 in signo Tauri | 11 ^h 52' |
| 21 ε Virginis | culm. 10 ^h 50' |
| 23 α Ophiuci | culm. 15 ^h 15' |
| 24 α Leonis | culm. 7 ^h 45' |
| 26 & 2 Delphini & γ Pegasi | culm. 18 ^h 8', 18 ^h 6', & 21 ^h 41' |
| 27 δ Delphini | culm. 18 ^h 8' |
| 29 α Herculis, 2 Bootis, ε Aquilae | culm. 14 ^h 33', 11 ^h 59' & 16 ^h 18' |
| 30 γ Tauri & α Delphini | culm. 1 ^h 34' & 17 ^h 54' |

Phenomena & Observationes Planetarum

Saturnus ad ε Capri diff. lat. 31'
 Venus ad 2 & 88. Piscium diff. lat. 57' & 17'
 Jupiter ad 0 Pisc. diff. lat. 25'
 Mercur. ad 19. Pisc. diff. lat. 12'
 Venus ad 0 Piscium diff. lat. 20'
 Venus ad Jovis diff. lat. 6'
 Merc. in elongat. max. vespertina
 Mars ad ε Geminor. diff. lat. 13'
 Jupit. in conjunctione cum Sole
 Mars ad 37. Geminor. diff. lat. 18'
 Mars ad 1. Geminor. diff. lat. 15'
 Mercurius stationarius
 Mars ad m & n Geminorum diff. lat. 1' & 47'

Phenomena & Observationes Luna

| Luna | |
|--|---|
| 1 ad n Tauri | 16 ^h 12' |
| 3 ad 125. Taur. Im. 11 ^h 30') | pr. hor. Em. 12 ^h 5') |
| 4 ad Mart. & 2 Gemin. 2 ^h 6' & 12 ^h 6' | |
| 5 Primus quadrans | 4 ^h 24' |
| 6 ad θ & δ Cancrī | 11 ^h 24' & 17 ^h 3' |
| 7 ad ε Leonis | 17 ^h 52'... 8. ad A Leonis 10 ^h 54' |
| 9 ad d Leonis | 15 ^h 32' |
| 10 ad υ Leonis | 11 ^h 44' |
| 13 Plenilunium 3 ^h 40'... Apogea | |
| 15 ad 91. Librae | 16 ^h 32' |
| 16 ad σ & α Scorp. 14 ^h 20' & 17 ^h 15' | |
| 17 ad θ Ophiuci | 17 ^h 23' |
| 18 ad λ Sagittarii | 22 ^h 40' |
| 21 Ultimus quadrans | 4 ^h 17' |
| 22 ad λ Capri | 16 ^h 57' |
| 23 ad θ Aquarii | 7 ^h 14' |
| 27 Novilunium 20 ^h 52' | Perigea |
| 30 ad 125. Tauri | 19 ^h 54' |

Planetae in parallelis fixurum.

Uran. 7. Canc., δ & 84. Geminor.
 Saturno α Crat. δ Capri. δ Aquar.
 Jup. α Aquil β Can ε & 2 Pegasi, β Canc., γ Aquil. ρ Leon. ε Delph.
 Mars ε Gemin δ Herc. ε & ζ Leon.
 Venus 1. β Oph. ε Serp. Procyon, β Aquil. γ Orion. , ε Hydr. 7. α Serp. α Orion. α Aquil. β Can. ε & 2 Peg. 13. ρ & 0 Leon. δ Ser. ε Virg. α Oph. α Canc. 19. α Leon. β & 5 Delph. γ & α Peg. α Herc. 2 Bootis, 24. α & γ Delph. γ & α Tauri. β & 2 Serpentis.
 Mercur. α & α Leon. α Oph. α Peg. α Herc. 7. α Delph. β Leonis α Tauri, β & γ Serp. γ Gemin. θ & n Leon. 18. γ Ariet. ε Tauri, n Boot. γ Hercul. β Arietis.

| Dies mensis | Dies hebdomadae | Aequatio addenda tempori vero ut habeatur medium | | Differentia | Longitudo Solis | | | | Ascensio recta Solis | | | Declinatio Solis Borealis | | |
|-------------|-----------------|--|----------|-------------|-----------------|-----|-----|----|----------------------|-----|----|---------------------------|-----|----|
| | | M. | S. | | S. | S. | G. | M. | S. | G. | M. | S. | | |
| 1 | Sat. | + | 3. 51. 4 | 18, 3 | 0. | 11. | 53. | 32 | 10. | 56. | 0 | 4. | 42. | 26 |
| 2 | Dom. | | 3. 33, 2 | 18, 2 | 0. | 12. | 52. | 36 | 11. | 50. | 35 | 5. | 5. | 30 |
| 3 | Lun. | | 3. 15, 1 | 18, 1 | 0. | 13. | 51. | 38 | 12. | 45. | 12 | 5. | 25. | 28 |
| 4 | Mar. | | 2. 57, 2 | 17, 9 | 0. | 14. | 50. | 39 | 13. | 39. | 52 | 5. | 51. | 20 |
| 5 | Mer. | | 2. 39, 4 | 17, 8 | 0. | 15. | 49. | 37 | 14. | 34. | 34 | 6. | 14. | 6 |
| 6 | Jov. | | 2. 21, 8 | 17, 6 | 0. | 16. | 48. | 32 | 15. | 29. | 18 | 6. | 36. | 46 |
| 7 | Ven. | | 2. 4, 4 | 17, 4 | 0. | 17. | 47. | 25 | 16. | 24. | 4 | 6. | 59. | 19 |
| 8 | Sat. | | 1. 47, 2 | 17, 2 | 0. | 18. | 46. | 15 | 17. | 18. | 53 | 7. | 21. | 45 |
| 9 | Dom. | | 1. 30, 2 | 16, 9 | 0. | 19. | 45. | 3 | 18. | 13. | 46 | 7. | 44. | 3 |
| 10 | Lun. | | 1. 13, 6 | 16, 7 | 0. | 20. | 43. | 49 | 19. | 8. | 43 | 8. | 6. | 13 |
| 11 | Mar. | | 0. 57, 1 | 16, 5 | 0. | 21. | 42. | 33 | 20. | 3. | 44 | 8. | 28. | 14 |
| 12 | Mer. | | 0. 40, 9 | 16, 2 | 0. | 22. | 41. | 14 | 20. | 58. | 49 | 8. | 50. | 7 |
| 13 | Jov. | | 0. 25, 0 | 15, 9 | 0. | 23. | 39. | 53 | 21. | 53. | 58 | 9. | 11. | 52 |
| 14 | Ven. | | 0. 9, 4 | 15, 6 | 0. | 24. | 38. | 30 | 22. | 49. | 12 | 9. | 33. | 28 |
| 15 | Sat. | <i>Subtrahenda</i> | 0. 5, 8 | 15, 2 | 0. | 25. | 37. | 5 | 23. | 44. | 31 | 9. | 54. | 54 |
| 16 | Dom. | | 0. 20, 6 | 14, 8 | 0. | 26. | 35. | 38 | 24. | 39. | 56 | 10. | 16. | 10 |
| 17 | Lun. | | 0. 35, 1 | 14, 5 | 0. | 27. | 34. | 9 | 25. | 35. | 27 | 10. | 37. | 16 |
| 18 | Mar. | | 0. 49, 2 | 14, 1 | 0. | 28. | 32. | 39 | 26. | 31. | 3 | 10. | 58. | 12 |
| 19 | Mer. | | 1. 2, 9 | 13, 7 | 0. | 29. | 31. | 7 | 27. | 26. | 45 | 11. | 18. | 57 |
| 20 | Jov. | | 1. 16, 2 | 13, 3 | 1. | 0. | 29. | 33 | 28. | 22. | 34 | 11. | 39. | 30 |
| 21 | Ven. | | 1. 29, 0 | 11, 8 | 1. | 1. | 27. | 57 | 29. | 18. | 30 | 11. | 59. | 52 |
| 22 | Sat. | | 1. 41, 4 | 11, 4 | 1. | 2. | 26. | 20 | 30. | 14. | 33 | 12. | 20. | 3 |
| 23 | Dom. | | 1. 53, 3 | 11, 9 | 1. | 3. | 24. | 42 | 31. | 10. | 43 | 12. | 40. | 2 |
| 24 | Lun. | | 2. 4, 7 | 11, 4 | 1. | 4. | 23. | 2 | 32. | 7. | 0 | 12. | 59. | 49 |
| 25 | Mar. | | 2. 15, 5 | 10, 8 | 1. | 5. | 21. | 21 | 33. | 3. | 25 | 13. | 19. | 23 |
| 26 | Mer. | | 2. 25, 8 | 10, 3 | 1. | 6. | 19. | 38 | 33. | 59. | 57 | 13. | 38. | 44 |
| 27 | Jov. | | 2. 35, 7 | 9, 9 | 1. | 7. | 17. | 54 | 34. | 56. | 37 | 13. | 57. | 52 |
| 28 | Ven. | | 2. 45, 0 | 9, 3 | 1. | 8. | 16. | 8 | 35. | 53. | 25 | 14. | 16. | 45 |
| 29 | Sat. | | 2. 53, 8 | 8, 8 | 1. | 9. | 14. | 21 | 36. | 50. | 21 | 14. | 35. | 26 |
| 30 | Dom. | | 3. 2, 0 | 8, 2 | 1. | 10. | 12. | 33 | 37. | 47. | 25 | 14. | 53. | 52 |
| | | | | 7, 7 | | | | | | | | | | |

| Dies mensis | Dies hebdomadae | Distantia sectionis Y a Sole | | | Differentia | | Initium Crepusculi | | Ortus Centri Solis | | Occus Centri Solis | | Finis Crepusculi | | Hora Italica Meridiei | |
|-------------|-----------------|------------------------------|-----|------|-------------|------|--------------------|----|--------------------|----|--------------------|----|------------------|----|-----------------------|----|
| | | H. | M. | S. | M. | S. | H. | M. | H. | M. | H. | M. | H. | M. | H. | M. |
| 1 | Jat. | 23. | 16. | 16,0 | 3. | 38,3 | 3. | 54 | 5. | 39 | 6. | 21 | 8. | 6 | 17. | 0 |
| 2 | Dom | 23. | 12. | 37,7 | 3. | 38,5 | 3. | 52 | 5. | 37 | 6. | 22 | 8. | 8 | 16. | 5 |
| 3 | Lun. | 23. | 8. | 59,2 | 3. | 38,7 | 3. | 50 | 5. | 36 | 6. | 24 | 8. | 10 | 16. | 10 |
| 4 | Mar | 23. | 5. | 20,5 | 3. | 38,8 | 3. | 48 | 5. | 34 | 6. | 26 | 8. | 12 | 16. | 15 |
| 5 | Mer. | 23. | 1. | 41,7 | 3. | 38,9 | 3. | 46 | 5. | 33 | 6. | 27 | 8. | 14 | 16. | 54 |
| 6 | Jov. | 22. | 58. | 2,8 | 3. | 39,1 | 3. | 44 | 5. | 31 | 6. | 29 | 8. | 16 | 16. | 53 |
| 7 | Ven. | 22. | 54. | 22,7 | 3. | 39,3 | 3. | 42 | 5. | 30 | 6. | 30 | 8. | 18 | 16. | 51 |
| 8 | Jat. | 22. | 50. | 44,4 | 3. | 39,5 | 3. | 34 | 5. | 28 | 6. | 32 | 8. | 21 | 16. | 49 |
| 9 | Dom | 22. | 47. | 4,9 | 3. | 39,8 | 3. | 37 | 5. | 26 | 6. | 34 | 8. | 23 | 16. | 47 |
| 10 | Lun. | 22. | 43. | 25,1 | 3. | 40,1 | 3. | 35 | 5. | 24 | 6. | 36 | 8. | 25 | 16. | 45 |
| 11 | Mar. | 22. | 39. | 45,0 | 3. | 40,3 | 3. | 34 | 5. | 23 | 6. | 37 | 8. | 27 | 16. | 43 |
| 12 | Mer. | 22. | 36. | 4,7 | 3. | 40,6 | 3. | 32 | 5. | 21 | 6. | 39 | 8. | 28 | 16. | 41 |
| 13 | Jov. | 22. | 32. | 24,1 | 3. | 40,9 | 3. | 30 | 5. | 19 | 6. | 41 | 8. | 30 | 16. | 39 |
| 14 | Ven. | 22. | 28. | 43,2 | 3. | 41,3 | 3. | 28 | 5. | 18 | 6. | 42 | 8. | 32 | 16. | 38 |
| 15 | Sat. | 22. | 25. | 1,9 | 3. | 41,7 | 3. | 26 | 5. | 16 | 6. | 44 | 8. | 34 | 16. | 36 |
| 16 | Dom | 22. | 21. | 20,2 | 3. | 42,0 | 3. | 24 | 5. | 14 | 6. | 46 | 8. | 36 | 16. | 34 |
| 17 | Lun. | 22. | 17. | 38,2 | 3. | 42,4 | 3. | 22 | 5. | 13 | 6. | 47 | 8. | 38 | 16. | 32 |
| 18 | Mar. | 22. | 13. | 55,8 | 3. | 42,8 | 3. | 20 | 5. | 11 | 6. | 49 | 8. | 40 | 16. | 30 |
| 19 | Mer. | 22. | 10. | 13,0 | 3. | 43,3 | 3. | 18 | 5. | 10 | 6. | 50 | 8. | 42 | 16. | 28 |
| 20 | Jov. | 22. | 6. | 39,7 | 3. | 43,7 | 3. | 15 | 5. | 8 | 6. | 52 | 8. | 45 | 16. | 26 |
| 21 | Ven. | 22. | 2. | 46,0 | 3. | 44,2 | 3. | 13 | 5. | 7 | 6. | 53 | 8. | 47 | 16. | 24 |
| 22 | Sat. | 21. | 59. | 1,8 | 3. | 44,7 | 3. | 11 | 5. | 5 | 6. | 55 | 8. | 49 | 16. | 22 |
| 23 | Dom | 21. | 55. | 17,1 | 3. | 45,2 | 3. | 9 | 5. | 3 | 6. | 57 | 8. | 51 | 16. | 20 |
| 24 | Lun. | 21. | 51. | 31,9 | 3. | 45,6 | 3. | 7 | 5. | 2 | 6. | 58 | 8. | 53 | 16. | 19 |
| 25 | Mar. | 21. | 47. | 46,3 | 3. | 46,1 | 3. | 5 | 5. | 1 | 6. | 59 | 8. | 55 | 16. | 17 |
| 26 | Mer. | 21. | 44. | 0,2 | 3. | 46,7 | 3. | 2 | 5. | 0 | 7. | 0 | 8. | 58 | 16. | 15 |
| 27 | Jov. | 21. | 40. | 13,5 | 3. | 47,2 | 3. | 0 | 5. | 58 | 7. | 2 | 9. | 0 | 16. | 13 |
| 28 | Ven. | 21. | 36. | 26,3 | 3. | 47,7 | 2. | 58 | 5. | 57 | 7. | 3 | 9. | 2 | 16. | 12 |
| 29 | Sat. | 21. | 32. | 38,6 | 3. | 48,3 | 2. | 56 | 5. | 56 | 7. | 4 | 9. | 4 | 16. | 10 |
| 30 | Dom | 21. | 28. | 50,3 | 3. | 48,8 | 2. | 54 | 5. | 54 | 7. | 6 | 9. | 6 | 16. | 8 |

| Dies hebdomadae | Dies mensis | Longitudo Lunae Meridie | Longitudo Lunae media nocte | Latitudo Lunae Meridie | Latitudo Lunae med. noct. | Paral- laxis Lunae Meridie | Paral- laxis media Lunae nocte |
|-----------------|-------------|-------------------------|-----------------------------|------------------------|---------------------------|-------------------------------|-----------------------------------|
| | | S. G. M. S. | S. G. M. S. | G. M. S. | G. M. S. | M. S. | M S |
| 1 | Sat. | 1.17. 1.16 | 1.24. 37.59 | 4. 48. 41 B | 4. 34. 43 B | 60. 46 | 60. 57 |
| 2 | Dom | 2. 1. 48. 50 | 2. 9. 3. 21 | 4. 16. 19 | 3. 54. 2 | 60. 6 | 59. 43 |
| 3 | Lun. | 2.16.11.18 | 2 23.12.30 | 3. 28. 23 | 2. 59. 58 | 59. 18 | 58. 18 |
| 4 | Mar | 3. 0. 6. 43 | 3. 6. 54. 15 | 2. 29. 19 | 1. 57. 1 | 58. 25 | 57. 58 |
| 5 | Mer | 5.13.35.11 | 3.20.10. 2 | 1. 23. 36 | 0. 49. 34 | 57. 37 | 57. 7 |
| 6 | Jov. | 3.26.39.25 | 4. 3. 3. 47 | 0. 15. 22 | 0. 18. 34 A | 56. 43 | 56. 20 |
| 7 | Ven. | 4. 9. 23. 21 | 4.15.38.44 | 0. 51. 51 A | 1. 24. 7 | 56. 0 | 55. 40 |
| 8 | Sat. | 4.21.50.33 | 4.27.59.17 | 1. 55. 2 | 2. 24. 19 | 55. 23 | 55. 7 |
| 9 | Dom | 5. 4. 5. 23 | 5.10. 9.14 | 2. 51. 42 | 3. 16. 55 | 54. 53 | 54. 41 |
| 10 | Lun. | 5.16.11.14 | 5.22.11.42 | 3. 39. 46 | 4. 0. 3 | 54. 30 | 54. 21 |
| 11 | Mar | 5.28.10.54 | 6. 4. 9. 7 | 4. 17. 33 | 4. 32. 10 | 54. 14 | 54. 1 |
| 12 | Mer | 6.10. 6.37 | 6.16. 3.34 | 4. 43. 44 | 4. 52. 10 | 54. 3 | 54. 0 |
| 13 | Jov | 6.22. 0.10 | 6.27.56.31 | 4. 57. 24 | 4. 59. 24 | 53. 57 | 53. 57 |
| 14 | Ven. | 7. 3. 52. 47 | 7. 9. 49. 9 | 4. 58. 8 | 4. 53. 38 | 53. 57 | 53. 59 |
| 15 | Sat. | 7.15.45.46 | 7.21.42.52 | 4.45. 54 | 4. 35. 1 | 54. 2 | 54. 2 |
| 16 | Dom | 7.27.40.46 | 8. 3. 39. 29 | 4. 21. 5 | 4. 4. 15 | 54. 14 | 54. 25 |
| 17 | Lun. | 8. 9. 39. 46 | 8.15.41.29 | 3.44. 36 | 3. 22. 19 | 54. 31 | 54. 43 |
| 18 | Mar | 8.21.45.20 | 8.27.51.44 | 2.57. 37 | 2. 30. 41 | 54. 55 | 55. 11 |
| 19 | Mer | 9. 4. 0.59 | 9.10.13.42 | 2. 1. 45 | 1. 31. 5 | 55. 28 | 55. 46 |
| 20 | Jov. | 9.16.30.24 | 9.22.51.41 | 0.58. 56 | 0. 25. 39 | 56. 8 | 56. 28 |
| 21 | Ven. | 9.29.18. 2 | 10. 5. 50. 1 | 0. 8. 23 B | 0. 42. 48 B | 56. 50 | 57. 17 |
| 22 | Sat. | 10.12.28. 1 | 10.19.12.36 | 1. 17. 10 | 1. 51. 0 | 57. 46 | 58. 14 |
| 23 | Dom | 10.26. 3.53 | 11. 3. 2.25 | 2. 23. 49 | 2. 55. 0 | 58. 41 | 59. 8 |
| 24 | Lun. | 11.10. 8. 0 | 11.17.20.33 | 3. 24. 5 | 3. 50. 22 | 59. 35 | 60. 0 |
| 25 | Mar | 11.24.39.52 | 0. 2. 5.15 | 4.13. 17 | 4. 32. 12 | 60. 20 | 60. 42 |
| 26 | Mer | 0. 9. 36. 5 | 0.17.11. 5 | 4. 46. 28 | 4. 56. 9 | 60. 59 | 61. 20 |
| 27 | Jov | 0.24.49.16 | 1. 2. 28. 58 | 5. 0. 30 | 4. 59. 32 | 61. 19 | 61. 22 |
| 28 | Ven. | 1.10. 8.58 | 1.17.47.35 | 4. 53. 5 | 4. 41. 26 | 61. 20 | 61. 14 |
| 29 | Sat. | 1.25.23.21 | 2. 2. 51. 56 | 4. 24. 48 | 4. 3. 43 | 61. 26 | 60. 4 |
| 30 | Dom | 2.10.21.27 | 2.17.42. 0 | 3. 28. 40 | 3. 10. 20 | 60. 27 | 60. 1 |

| Dies mensis | Diameter horiz. Lunae Meridie | | horiz. Lunae media nocte | | Declinatio Lunae in Meridiano | | Ortus Lunae | | Transitus Lunae per Meridianum | | Occasus Lunae | |
|-------------|-------------------------------|----|--------------------------|----|-------------------------------|------|------------------|------|--------------------------------|------|---------------|----------------|
| | M. | S. | M. | S. | G. | M. | H. | M. | H. | M. | H. | M. |
| 1 Sab. | 33. | 19 | 33. | 9 | 21. | 55 B | 6. | 32 M | 2. | 15 V | 10. | 10 V |
| 2 Dom | 32. | 58 | 32. | 45 | 24. | 59 | 7. | 13 | 3. | 15 | 11. | 23 |
| 3 Lun. | 32. | 31 | 32. | 17 | 26. | 14 | 8. | 6 | 4. | 17 | 9. | M ⁺ |
| 4 Mar | 32. | 2 | 31. | 47 | 25. | 40 | 9. | 8 | 5. | 18 | 0. | 28 |
| 5 Mer | 31. | 33 | 31. | 19 | 23. | 27 | 10. | 12 | 6. | 14 | 1. | 25 |
| 6 Jov. | 31. | 6 | 30. | 53 | 19. | 58 | 11. | 20 | 7. | 6 | 2. | 9 |
| 7 Ven. | 30. | 42 | 30. | 31 | 15. | 37 | 0. | 32 V | 7. | 55 | 2. | 40 |
| 8 Sat. | 30. | 22 | 30. | 14 | 10. | 38 | 1. | 40 | 8. | 41 | 3. | 8 |
| 9 Dom | 30. | 6 | 29. | 59 | 5. | 20 | 2. | 46 | 9. | 23 | 3. | 30 |
| 10 Lun. | 29. | 53 | 29. | 48 | 0. | 10 A | 3. | 50 | 10. | 4 | 3. | 48 |
| 11 Mar | 29. | 44 | 29. | 41 | 5. | 35 | 4. | 34 | 10. | 45 | 4. | 6 |
| 12 Mer | 29. | 38 | 29. | 36 | 10. | 40 | 5. | 58 | 11. | 26 | 4. | 24 |
| 13 Jov. | 29. | 35 | 29. | 35 | * | * | 7. | 1 | * M ⁺ | | 4. | 44 |
| 14 Ven. | 29. | 35 | 29. | 36 | 15. | 26 | 8. | 6 | 0. | 8 | 5. | 5 |
| 15 Sat. | 29. | 38 | 29. | 40 | 19 | 33 | 9. | 10 | 0. | 52 | 5. | 28 |
| 16 Dom | 29. | 44 | 29. | 48 | 22. | 50 | 10. | 12 | 1. | 39 | 6. | 0 |
| 17 Lun. | 29. | 53 | 29. | 59 | 25. | 4 | 11. | 11 | 2. | 28 | 6. | 40 |
| 18 Mar | 30. | 6 | 30 | 15 | 26. | 8 | * M ⁺ | | 3. | 19 | 7. | 26 |
| 19 Mer | 30. | 24 | 30. | 35 | 25. | 51 | 0. | 4 | 4. | 11 | 8. | 10 |
| 20 Jov | 30. | 47 | 30. | 58 | 24. | 8 | 0. | 49 | 5. | 4 | 9. | 26 |
| 21 Ven | 31. | 12 | 31. | 27 | 11. | 6 | 1. | 26 | 5. | 56 | 10. | 33 |
| 22 Sat. | 31. | 41 | 31. | 56 | 16. | 53 | 1. | 57 | 6. | 47 | 11. | 46 |
| 23 Dom | 32. | 11 | 32. | 26 | 11. | 41 | 2. | 25 | 7. | 37 | 1. | 3 V |
| 24 Lun. | 32. | 40 | 32. | 54 | 5. | 34 | 2. | 46 | 8. | 27 | 2. | 20 |
| 25 Mar | 33. | 6 | 33. | 18 | 1. | 2 B | 3. | 6 | 9. | 16 | 3. | 40 |
| 26 Mer. | 33. | 26 | 33. | 33 | 7. | 40 | 3. | 32 | 10. | 8 | 4. | 57 |
| 27 Jov. | 33. | 37 | 33. | 39 | 14. | 4 | 4. | 3 | 11. | 3 | 6. | 18 |
| 28 Ven. | 33. | 38 | 33. | 35 | 19. | 32 | 4. | 32 | 0. | 1 V | 7. | 42 |
| 29 Sat. | 33. | 29 | 33. | 20 | 23. | 26 | 5. | 10 | 1. | 2 | 9. | 5 |
| 30 Dom | 33. | 9 | 32. | 56 | 25. | 45 | 5. | 59 | 2. | 6 | 10. | 15 |

| <i>Dies mens.</i> | <i>Longitudo Planetarum</i> | <i>Latitudo Planetarum</i> | <i>Declinatio Planetarum</i> | <i>Ortus Planetarum</i> | <i>Transit. Planet. per Meridian.</i> | <i>Occasus Planetarum</i> |
|---------------------------|-----------------------------|----------------------------|------------------------------|-------------------------|---------------------------------------|---------------------------|
| | <i>S. G. M.</i> | <i>G. M.</i> | <i>G. M.</i> | <i>H. M.</i> | <i>H. M.</i> | <i>H. M.</i> |
| U R A N U S. | | | | | | |
| 1 | 3. 16. 55 | 0. 28 B | 22. 52 B | 10. 45 M | 6. 30 V | 2. 15 M |
| 6 | 3. 17. 7 | 0. 8 | 22. 50 | 9. 51 | 5. 36 | 1. 21 |
| S A T U R N U S. | | | | | | |
| 1 | 10. 14. 44 | 0. 44 A | 17. 8 A | 3. 35 M | 8. 25 M | 1. 15 V |
| 7 | 10. 15. 12 | 0. 45 | 17. 1 | 3. 14 | 8. 5 | 0. 56 |
| 13 | 10. 15. 38 | 0. 46 | 16. 54 | 2. 53 | 7. 45 | 0. 36 |
| 19 | 10. 16. 0 | 0. 47 | 16. 43 | 2. 32 | 7. 24 | 0. 16 |
| 25 | 10. 16. 20 | 0. 48 | 16. 43 | 2. 11 | 7. 3 | 11. 55 M |
| J U P I T E R. | | | | | | |
| 1 | 0. 23. 50 | 1. 3 A | 8. 16 B | 6. 9 M | 0. 46 V | 7. 23 V |
| 7 | 0. 25. 16 | 1. 3 | 8. 47 | 5. 50 | 0. 29 | 7. 8 |
| 13 | 0. 26. 42 | 1. 2 | 9. 20 | 5. 31 | 0. 12 | 6. 53 |
| 19 | 0. 28. 9 | 1. 2 | 9. 52 | 5. 11 | 11. 55 M | 6. 38 |
| 25 | 0. 29. 24 | 1. 2 | 10. 22 | 4. 51 | 11. 37 | 6. 12 |
| M A R S. | | | | | | |
| 1 | 2. 29. 23 | 1. 55 B | 25. 23 B | 9. 14 M | 5. 13 V | 1. 13 M |
| 7 | 3. 2. 34 | 1. 53 | 25. 19 | 9. 6 | 5. 5 | 1. 4 |
| 13 | 3. 5. 44 | 1. 50 | 25. 10 | 9. 0 | 4. 58 | 0. 56 |
| 19 | 3. 9. 4 | 1. 47 | 24. 56 | 8. 53 | 4. 50 | 0. 47 |
| 25 | 3. 12. 24 | 1. 44 | 24. 37 | 8. 47 | 4. 42 | 0. 37 |
| V E N U S. | | | | | | |
| 1 | 0. 14. 27 | 1. 11 A | 4. 40 B | 5. 49 M | 0. 11 V | 6. 33 V |
| 7 | 0. 22. 3 | 1. 2 | 7. 38 | 5. 43 | 0. 17 | 6. 51 |
| 13 | 0. 29. 28 | 0. 52 | 10. 29 | 5. 37 | 0. 23 | 7. 9 |
| 19 | 1. 6. 53 | 0. 40 | 13. 12 | 5. 31 | 0. 29 | 7. 27 |
| 25 | 1. 14. 17 | 0. 27 | 15. 43 | 5. 26 | 0. 36 | 7. 46 |
| M E R C U R I U S. | | | | | | |
| 1 | 0. 25. 48 | 0. 58 B | 10. 53 B | 6. 2 M | 0. 51 V | 7. 39 V |
| 7 | 1. 5. 56 | 2. 3 | 15. 28 | 5. 57 | 1. 6 | 8. 15 |
| 13 | 1. 13. 18 | 2. 46 | 18. 29 | 5. 49 | 1. 12 | 8. 35 |
| 19 | 1. 17. 19 | 2. 54 | 19. 48 | 5. 37 | 1. 6 | 8. 35 |
| 25 | 1. 17. 48 | 2. 17 | 19. 21 | 5. 19 | 0. 46 | 8. 12 |

ECLIPSES SATELLITUM JOVIS
nequeunt hoc mense observari.

| <i>Dies</i> | <i>Diameter Solis</i> | <i>Mora transitus Solis per Meridian.</i> | <i>Motus horarius Solis</i> | <i>Logarithmus distantiae Solis a terra posita media 100000.</i> | <i>Longitudo Nodi Lunae</i> |
|-------------|-----------------------|---|-----------------------------|--|-----------------------------|
| | <i>M. S.</i> | <i>M. S.</i> | <i>M. S.</i> | | <i>S. G. M.</i> |
| 1 | 32. 1,8 | 2. 8, 6 | 2. 27, 6 | 5.000243. | 9. 29. 12 |
| 4 | 32. 0,1 | 2. 8, 7 | 2. 27, 3 | 5.000613. | 9. 29. 2 |
| 7 | 32. 58,3 | 2. 8, 8 | 2. 27, 0 | 5.000975. | 9. 28. 53 |
| 10 | 32. 56,7 | 2. 9, 1 | 2. 26, 8 | 5.001333. | 9. 28. 43 |
| 13 | 32. 55,1 | 2. 9, 4 | 2. 26, 6 | 5.001692. | 9. 28. 34 |
| 16 | 32. 53,5 | 2. 9, 7 | 2. 26, 4 | 5.002053. | 9. 28. 24 |
| 19 | 32. 52,0 | 2. 10, 0 | 2. 26, 8 | 5.002412. | 9. 28. 15 |
| 22 | 32. 50,4 | 2. 10, 4 | 2. 26, 0 | 5.002771. | 9. 28. 5 |
| 25 | 32. 48,8 | 2. 10, 8 | 2. 25, 8 | 5.003119. | 9. 27. 56 |
| 28 | 32. 47,3 | 2. 11, 2 | 2. 25, 5 | 5.003454. | 9. 27. 46 |

SATELLITES JOVIS
nequeunt hoc mense observari.

| Phenomena & Observaciones Solis | | Phenomena & Observaciones Lunae | |
|--------------------------------------|---|---|--|
| Sol in parallelo | | Luna | |
| 1 | γ Delphini culm. 17 ^h 66' | 1 | ad ϵ Geminorum 20 ^h 27' |
| 2 | β Leonis culm. 8 ^h 56' | 2 | ad Martis 13 ^h 16' |
| 3 | α Tauri & β Serp. culm. 1 ^h 39' & 12 ^h 50' | 3 | ad δ Cancr. 23 ^h 56' |
| 5 | γ Serp., γ Geminor., & θ Leonis culm. 12 ^h 52', 3 ^h 33', & 8 ^h 9' | 4 | Primus quadrans 16 ^h 54' |
| 6 | in nodo ascend. Mercurii | 5 | ad ξ Leonis 0 ^h 12' |
| 8 | in nodo ascend. Martis | 7 | ad ν Leonis 17 ^h 45' |
| 17 | η Bootis, & γ Herculis culm. 10 ^h 4', & 12 ^h 32' | 11 | Apogea |
| 20 | in signo Geminorum 12 ^h 28' | 12 | Plenilunium 19 ^h 49' |
| 21 | Arcturi culm. 10 ^h 12' | 12 | ad 88. Librae 9 ^h 12' |
| 24 | γ Leonis culm. 6 ^h 0' | 13 | ad A & σ Scorpii 7 ^h 54' & 20 ^h 15' |
| 29 | δ Leonis culm. 6 ^h 34' | 14 | ad α Scorpii 0 ^h 12' |
| 30 | β Herculis culm. 11 ^h 48' | 14 | ad θ Ophiuci 23 ^h 13' |
| | | 16 | ad λ Sagittarii 4 ^h 24' |
| | | 20 | ad θ Aquarii 14 ^h 28' |
| | | 20 | Ultimus quadrans 14 ^h 5' |
| | | 24 | ad η Piscium 8 ^h 24' |
| | | 25 | Perigea |
| | | 27 | Novilunium 4 ^h 17' |
| | | 28 | ad 132. Tauri 9 ^h 42' |
| Phenomena & Observaciones Planetarum | | Planetae in parallelis fixarum. | |
| 2 | Mars ad 58. Geminor. diff. lat. 51' | Uranus 7. Cancr. δ & 84. Gemin. | |
| 4 | Mercurius in conjunct. infer., & transitus ejusdem sub Sole. Vide supra. | Saturn. δ Aquar., Siritii praec. Cor. | |
| 4 | Venus ad 14. Tauri diff. lat. 1' | Jupit. σ praec. Leon., δ Serp., ϵ Virg., α Cancr., α Oph. α Leon. | |
| 10 | Venus ad 51. Tauri diff. lat. 1' | Mars 2 Leon. n b f Tauri, μ , n, δ Gemin., α Ariet., γ Cancr. β Hero. | |
| 12 | Ven. ad 1. 2. α Tau. diff. lat. 20' & 15' | δ & γ Leonis, i & 2 Tauri. | |
| 12 | Mars ad 82. Geminor. diff. lat. 21' | Venus 1. γ Ariet. ϵ Taur. n Boot. γ Hercul., β Ariet., γ Arct. ξ & i Tauri, γ & δ Leonis, 14. β Hero. | |
| 13 | Mars ad 84. Geminor. diff. lat. 15' | γ Cancr. i, δ , n, μ Geminorum, 20. n, f, b Tauri. | |
| 15 | Venus ad 7 Tauri diff. lat. 27' | Mercur. 7. α Hercul., α Pegasi, α Leonis, α Ophiuci, α Cancr., ϵ Virginis, δ Serpentis. | |
| 16 | Mercurius Stationarius | | |
| 19 | Mars ad 2. μ Cancr. diff. lat. 15' | | |
| 25 | Venus ad 121. Tauri diff. lat. 6' | | |
| 28 | Venus ad 132. Tauri diff. lat. 13' | | |
| 30 | Mars ad n Cancr. diff. lat. 5' | | |
| 31 | Mercur. in elongatione maxima | | |
| 31 | Venus ad H Geminor. diff. lat. 48' | | |

| Dies mensis | Dies hebdomadae | Aequatio subtrahenda a tempore vero ut habeatur medium | | Diffe- rentia | Longitudo Solis | | | | Ascensio recta Solis | | | Declinatio Solis Borealis | | |
|-------------|-----------------|---|-------|------------------|--------------------|-----|-----|----|-------------------------|-----|----|---------------------------------|-----|----|
| | | M. | S. | | S. | S. | G. | M. | S. | G. | M. | S. | | |
| 1 | Lun. | 3. | 9, 7 | 7, 7 | 1. | 11. | 10. | 42 | 38. | 44. | 37 | 15. | 12. | 3 |
| 2 | Mar | 3. | 16, 9 | 7, 2 | 1. | 12. | 8. | 50 | 39. | 41. | 57 | 15. | 29. | 59 |
| 3 | Mer | 3. | 23, 6 | 6, 7 | 1. | 13. | 6. | 56 | 40. | 39. | 25 | 15. | 47. | 40 |
| 4 | Jov. | 3. | 29, 7 | 6, 1 | 1. | 14. | 5. | 0 | 41. | 37. | 2 | 16. | 5. | 5 |
| 5 | Ven | 3. | 35, 3 | 5, 6 | 1. | 15. | 3. | 2 | 42. | 34. | 47 | 16. | 21. | 14 |
| | | | | 5, 0 | | | | | | | | | | |
| 6 | Sat. | 3. | 40, 3 | 4, 5 | 1. | 16. | 1. | 2 | 43. | 32. | 40 | 16. | 39. | 6 |
| 7 | Dom | 3. | 44, 8 | 3, 9 | 1. | 16. | 59. | 0 | 44. | 30. | 41 | 16. | 55. | 43 |
| 8 | Lun. | 3. | 48, 7 | 3, 4 | 1. | 17. | 56. | 56 | 45. | 28. | 50 | 17. | 12. | 1 |
| 9 | Mar | 3. | 52, 1 | 2, 8 | 1. | 18. | 54. | 50 | 46. | 27. | 7 | 17. | 24. | 3 |
| 10 | Mer | 3. | 54, 9 | 2, 3 | 1. | 19. | 52. | 42 | 47. | 25. | 32 | 17. | 43. | 47 |
| | | | | | | | | | | | | | | |
| 11 | Jov. | 3. | 57, 2 | 1, 7 | 1. | 20. | 50. | 32 | 48. | 24. | 5 | 17. | 19. | 13 |
| 12 | Ven. | 3. | 58, 3 | 1, 2 | 1. | 21. | 48. | 21 | 49. | 22. | 47 | 18. | 14. | 21 |
| 13 | Sat. | 4. | 0, 1 | 0, 7 | 1. | 22. | 46. | 8 | 50. | 21. | 38 | 18. | 29. | 11 |
| 14 | Dom | 4. | 0, 8 | 0, 1 | 1. | 23. | 43. | 54 | 51. | 20. | 38 | 18. | 43. | 42 |
| 15 | Lun. | 4. | 0, 9 | 0, 6 | 1. | 24. | 41. | 39 | 52. | 19. | 47 | 18. | 57. | 55 |
| | | | | | | | | | | | | | | |
| 16 | Mar | 4. | 0, 3 | 1, 2 | 1. | 25. | 39. | 22 | 53. | 19. | 4 | 19. | 11. | 49 |
| 17 | Mer | 3. | 59, 1 | 1, 7 | 1. | 26. | 37. | 4 | 54. | 18. | 30 | 19. | 25. | 23 |
| 18 | Jov. | 3. | 57, 4 | 2, 4 | 1. | 27. | 34. | 45 | 55. | 18. | 4 | 19. | 38. | 38 |
| 19 | Ven. | 3. | 55, 0 | 2, 9 | 1. | 28. | 32. | 35 | 56. | 17. | 47 | 19. | 51. | 33 |
| 20 | Sat. | 3. | 52, 1 | 2, 4 | 1. | 29. | 30. | 3 | 57. | 17. | 38 | 20. | 4. | 7 |
| | | | | | | | | | | | | | | |
| 21 | Dom | 3. | 48, 7 | 4, 0 | 2. | 0. | 27. | 41 | 58. | 17. | 28 | 20. | 16. | 20 |
| 22 | Lun. | 3. | 44, 7 | 4, 5 | 2. | 1. | 25. | 18 | 59. | 17. | 46 | 20. | 28. | 13 |
| 23 | Mar. | 3. | 40, 2 | 5, 1 | 2. | 2. | 22. | 54 | 60. | 18. | 3 | 20. | 39. | 45 |
| 24 | Mer | 3. | 35, 1 | 5, 6 | 2. | 3. | 20. | 30 | 61. | 18. | 28 | 20. | 50. | 56 |
| 25 | Jov. | 3. | 29, 5 | 6, 2 | 2. | 4. | 18. | 5 | 62. | 19. | 1 | 21. | 1. | 46 |
| | | | | | | | | | | | | | | |
| 26 | Ven. | 3. | 23, 3 | 6, 7 | 2. | 5. | 15. | 39 | 63. | 19. | 41 | 21. | 12. | 14 |
| 27 | Sat. | 3. | 16, 6 | 7, 1 | 2. | 6. | 13. | 12 | 64. | 20. | 29 | 21. | 21. | 21 |
| 28 | Dom | 3. | 9, 5 | 7, 6 | 2. | 7. | 10. | 44 | 65. | 21. | 25 | 21. | 32. | 6 |
| 29 | Lun. | 3. | 1, 9 | 8, 1 | 2. | 8. | 8. | 15 | 66. | 22. | 28 | 21. | 41. | 28 |
| 30 | Mar | 2. | 53, 8 | 8, 4 | 2. | 9. | 5. | 46 | 67. | 23. | 38 | 21. | 50. | 27 |
| 31 | Mer | 2. | 45, 4 | | 2. | 10. | 3. | 15 | 68. | 24. | 54 | 21. | 59. | 4 |

| Dies hebdomadae Dies mensis | Distantia sektionis Y a Sole | | | Diffe- rentia | | Ini- tium Crepu- sculi | Ortus Centri Solis | Occa- sus Centri Solis | Finis Crepu- sculi | Hora Italica Meri- didi | | | | | |
|--------------------------------|------------------------------------|-----|------|------------------|------|---------------------------------|--------------------------|---------------------------------|--------------------------|----------------------------------|----|-----|----|-----|----|
| | H. | M. | S. | M. | S. | H. | M. | H. | M. | H. | M. | | | | |
| 1 Lun. | 21. | 25. | 1,5 | 3. | 49,3 | 2. | 52 | 4. | 53 | 7. | 7 | 9. | 8 | 16. | 6 |
| 2 Mar. | 21. | 21. | 12,2 | 3. | 49,9 | 2. | 50 | 4. | 52 | 7. | 8 | 9. | 10 | 16. | 5 |
| 3 Mer. | 21. | 17. | 22,3 | 3. | 50,4 | 2. | 48 | 4. | 50 | 7. | 10 | 9. | 12 | 16. | 3 |
| 4 Jov. | 21. | 13. | 31,9 | 3. | 51,0 | 2. | 46 | 4. | 49 | 7. | 11 | 9. | 14 | 16. | 1 |
| 5 Ven. | 21. | 9. | 40,9 | 3. | 51,6 | 2. | 44 | 4. | 48 | 7. | 12 | 9. | 16 | 16. | 0 |
| 6 Sat. | 21. | 5. | 49,7 | 3. | 52,1 | 2. | 41 | 4. | 46 | 7. | 14 | 9. | 19 | 15. | 58 |
| 7 Dom. | 21. | 1. | 57,2 | 3. | 52,6 | 2. | 49 | 4. | 45 | 7. | 15 | 9. | 21 | 15. | 57 |
| 8 Lun. | 20. | 58. | 4,6 | 3. | 53,1 | 2. | 37 | 4. | 44 | 7. | 16 | 9. | 23 | 15. | 55 |
| 9 Mar. | 20. | 54. | 11,5 | 3. | 53,6 | 2. | 34 | 4. | 43 | 7. | 17 | 9. | 26 | 15. | 54 |
| 0 Mer. | 20. | 50. | 17,9 | 3. | 54,2 | 2. | 32 | 4. | 41 | 7. | 19 | 9. | 28 | 15. | 52 |
| 1 Jov. | 20. | 46. | 23,9 | 3. | 54,8 | 2. | 30 | 4. | 40 | 7. | 20 | 9. | 30 | 15. | 51 |
| 2 Ven. | 20. | 42. | 28,9 | 3. | 55,4 | 2. | 28 | 4. | 39 | 7. | 21 | 9. | 32 | 15. | 49 |
| 3 Sat. | 20. | 38. | 33,5 | 3. | 56,0 | 2. | 26 | 4. | 38 | 7. | 22 | 9. | 34 | 15. | 47 |
| 4 Dom. | 20. | 34. | 37,5 | 3. | 56,6 | 2. | 24 | 4. | 37 | 7. | 23 | 9. | 36 | 15. | 46 |
| 5 Lun. | 20. | 30. | 40,9 | 3. | 57,2 | 2. | 22 | 4. | 36 | 7. | 24 | 9. | 38 | 15. | 44 |
| 6 Mar. | 20. | 26. | 43,7 | 3. | 57,7 | 2. | 20 | 4. | 34 | 7. | 26 | 9. | 40 | 15. | 43 |
| 7 Mer. | 20. | 22. | 46,0 | 3. | 58,3 | 2. | 18 | 4. | 33 | 7. | 27 | 9. | 42 | 15. | 42 |
| 8 Jov. | 20. | 18. | 47,7 | 3. | 58,8 | 2. | 16 | 4. | 32 | 7. | 28 | 9. | 44 | 15. | 40 |
| 9 Ven. | 20. | 14. | 48,9 | 3. | 59,4 | 2. | 14 | 4. | 31 | 7. | 29 | 9. | 46 | 15. | 38 |
| 0 Sat. | 20. | 10. | 49,5 | 4. | 0,0 | 2. | 12 | 4. | 30 | 7. | 30 | 9. | 48 | 15. | 36 |
| 1 Dom. | 20. | 6. | 49,5 | 4. | 0,6 | 2. | 10 | 4. | 29 | 7. | 31 | 9. | 50 | 15. | 35 |
| 2 Lun. | 20. | 2. | 48,9 | 4. | 1,1 | 2. | 8 | 4. | 28 | 7. | 32 | 9. | 52 | 15. | 34 |
| 3 Mar. | 19. | 58. | 47,8 | 4. | 1,7 | 2. | 6 | 4. | 27 | 7. | 33 | 9. | 54 | 15. | 32 |
| 4 Mer. | 19. | 54. | 46,1 | 4. | 2,2 | 2. | 4 | 4. | 26 | 7. | 34 | 9. | 56 | 15. | 31 |
| 5 Jov. | 19. | 50. | 43,9 | 4. | 2,7 | 2. | 2 | 4. | 25 | 7. | 35 | 9. | 58 | 15. | 30 |
| 6 Ven. | 19. | 46. | 41,2 | 4. | 3,2 | 2. | 0 | 4. | 24 | 7. | 36 | 10. | 0 | 15. | 28 |
| 7 Sat. | 19. | 42. | 38,0 | 4. | 3,7 | 1. | 58 | 4. | 23 | 7. | 37 | 10. | 2 | 15. | 27 |
| 8 Dom. | 19. | 38. | 34,3 | 4. | 4,2 | 1. | 56 | 4. | 22 | 7. | 38 | 10. | 4 | 15. | 26 |
| 9 Lun. | 19. | 34. | 30,1 | 4. | 4,6 | 1. | 54 | 4. | 21 | 7. | 39 | 10. | 6 | 15. | 25 |
| 0 Mar. | 19. | 30. | 25,5 | 4. | 5,1 | 1. | 52 | 4. | 20 | 7. | 40 | 10. | 8 | 15. | 24 |
| 1 Mer. | 19. | 26. | 20,4 | 4. | 5,5 | 1. | 50 | 4. | 19 | 7. | 41 | 10. | 10 | 15. | 23 |

| Dies mensis | Dies hebdomadae | Longitudo | Longitudo | Latitudo | Latitudo | Paral. | Paral. |
|-------------|-----------------|------------------|----------------------|------------------|---------------------|--------------------------------|----------------------------------|
| | | Lunae Meridie | Lunae media nocte | Lunae Meridie | Lunae med. noct. | laxis Lunae Meri- die | laxis media Lunae nocte |
| | | S. G. M. S. | S. G. M. S. | G. M. S. | G. M. S. | M. S. | M. S. |
| 2 | Lun. | 2.24.55.30 | 3. 2. 1.45 | 2.39.15B | 2. 6. 8B | 59.39 | 59.12 |
| 3 | Mar | 3. 9. 0.47 | 3.15.52.36 | 1.31.39 | 0.56.24 | 58.34 | 58.16 |
| 3 | Mer | 3.22.37.16 | 3.29.14.56 | 0.20.57 | 0.14.14A | 57.48 | 57.18 |
| 4 | Jov. | 4. 5.46.13 | 4.12.11.35 | 0.48.38A | 1.21.54 | 56.50 | 56.25 |
| 4 | Ven. | 4.18.31.35 | 4.24.46.48 | 1.53.44 | 2.23.49 | 56. 1 | 55.40 |
| 6 | Sat. | 5. 0.57.47 | 5. 7. 5. 9 | 2.51.49 | 3.17.31 | 55.20 | 55. 3 |
| 7 | Dom | 5.13. 9.26 | 5.19.11.13 | 3.40.45 | 4. 1.19 | 54.47 | 54.35 |
| 8 | Lun. | 5.25.10.58 | 6. 1. 9.10 | 4.19. 7 | 4.33.59 | 54.22 | 54.14 |
| 9 | Mar | 6. 7. 6.19 | 6.13. 2.45 | 4.45.48 | 4.54.28 | 54. 8 | 54. 3 |
| 10 | Mer | 6.18.58.46 | 6.24.54.40 | 4.59.57 | 5. 2.11 | 54. 0 | 53.59 |
| 11 | Jov. | 7. 0.50.45 | 7. 6.47.13 | 5. 1. 8 | 4.56.49 | 53.59 | 54. 1 |
| 12 | Ven. | 7.12.44.21 | 7.18.42.18 | 4.49.15 | 4.58.29 | 54. 4 | 54. 8 |
| 13 | Sat. | 7.24.41. 8 | 8. 0.41. 1 | 4.24.37 | 4. 7.46 | 54.14 | 54.21 |
| 14 | Dom | 8. 6.42.18 | 8.12.45. 5 | 3.48. 4 | 3.25.42 | 54.29 | 54.38 |
| 15 | Lun. | 8.18.49.29 | 8.24.55.44 | 3. 0.50 | 2.33.43 | 54.49 | 55. 0 |
| 16 | Mar | 9. 1. 4.10 | 9. 7.15. 3 | 2. 4.39 | 1.33.53 | 55.13 | 55.28 |
| 17 | Mer | 9.13.28.43 | 9.19.45.30 | 1. 1.43 | 0.28.30 | 55.41 | 55.59 |
| 18 | Jov. | 9.26. 5.43 | 10. 2.29.48 | 0. 5.26B | 0.39.41B | 56.18 | 56.37 |
| 19 | Ven. | 10. 8.58. 5 | 10.15.31. 2 | 1.13.46 | 1.47.15 | 56.57 | 57.18 |
| 20 | Sat. | 10.22. 8.59 | 10.28.52.21 | 2.19.49 | 2.50.55 | 57.40 | 58. 3 |
| 21 | Dom | 11. 5.41.14 | 11.12.35.55 | 3.20. 1 | 3.46.34 | 58.25 | 58.49 |
| 22 | Lun. | 11.19.36.43 | 11.26.43.34 | 4.10.10 | 4.30.14 | 59.11 | 59.23 |
| 23 | Mar | 0. 3.55.53 | 0.11.13.26 | 4.46.19 | 4.57.57 | 59.53 | 60.12 |
| 24 | Mer | 0.18.36. 9 | 0.26. 3. 4 | 5. 4.48 | 5. 6.36 | 60.28 | 60.41 |
| 25 | Jov. | 1. 3.33.16 | 1.11. 5.29 | 5. 3. 8 | 4.54.25 | 60.50 | 60.56 |
| 26 | Ven. | 1.18.28.43 | 1.26.11.36 | 4.40.34 | 4.21.53 | 60.57 | 60.54 |
| 27 | Sat. | 2. 3.42.47 | 2.11.11. 4 | 3.58.36 | 3.31.21 | 60.47 | 60.56 |
| 28 | Dom | 2.18.35.48 | 2.25.55.49 | 3. 0.43 | 2.27.25 | 60.20 | 60. 1 |
| 29 | Lun. | 3. 3.10. 0 | 3.10.17.51 | 1.52. 4 | 1.15.25 | 59.39 | 59.14 |
| 30 | Mar | 3.17.18.55 | 3.24.13. 6 | 0.38.10 | 0. 0.55 | 58.48 | 58.20 |
| 31 | Mer | 4. 1. 0.25 | 4. 7.41. 2 | 0.35.45A | 1.11.22A | 57.53 | 57.25 |

| Dies mensis | Dies hebdomadae | Diameter horiz. Lunae Meridie | | horiz. Lunae media nocte | | Declinatio Lunae in Meridiano | | Ortus Lunae | | Transitus Lunae per Meridianum | | Occasus Lunae | |
|-------------|-----------------|-------------------------------|----|--------------------------|----|-------------------------------|------|-------------|------|--------------------------------|------|---------------|------|
| | | M. | S. | M. | S. | G. | M. | H. | M. | H. | M. | H. | M. |
| 1 | Lun. | 32. | 43 | 32. | 28 | 25. | 55 B | 7. | 0 M | 3. | 10 V | 11. | 18 V |
| 2 | Mar | 32. | 12 | 31. | 57 | 24. | 23 | 8. | 6 | 4. | 10 | * M * | |
| 3 | Mer | 31. | 41 | 31. | 25 | 21. | 14 | 9. | 15 | 5. | 5 | 0. | 7 |
| 4 | Jov. | 31. | 10 | 30. | 55 | 17. | 4 | 10. | 26 | 5. | 56 | 0. | 45 |
| 5 | Ven. | 30. | 43 | 30. | 31 | 12. | 8 | 11. | 35 | 6. | 44 | 1. | 16 |
| 6 | Sat. | 30. | 20 | 30. | 11 | 6. | 52 | 0. | 44 V | 7. | 28 | 1. | 41 |
| 7 | Dom | 30. | 2 | 29. | 55 | 1. | 26 | 1. | 49 | 8. | 9 | 2. | 0 |
| 8 | Lun. | 29. | 49 | 29. | 44 | 2. | 57 A | 2. | 52 | 8. | 49 | 2. | 17 |
| 9 | Mar | 29. | 41 | 29. | 38 | 9. | 10 | 3. | 53 | 9. | 29 | 2. | 36 |
| 10 | Mer | 29. | 26 | 29. | 26 | 13. | 58 | 4. | 57 | 10. | 11 | 2. | 54 |
| 11 | Jov. | 29. | 36 | 29. | 37 | 18. | 14 | 6. | 2 | 10. | 55 | 3. | 15 |
| 12 | Ven. | 29. | 38 | 29. | 41 | 21. | 49 | 7. | 7 | 11. | 41 | 3. | 38 |
| 13 | Sat. | 29. | 44 | 29. | 48 | * | * | 8. | 8 | * M * | | 4. | 7 |
| 14 | Dom | 29. | 53 | 29. | 58 | 24. | 22 | 9. | 7 | 0. | 29 | 4. | 45 |
| 15 | Lun. | 30. | 3 | 30. | 10 | 25. | 45 | 10. | 2 | 1. | 19 | 5. | 28 |
| 16 | Mar | 30. | 16 | 30. | 24 | 25. | 52 | 10. | 49 | 2. | 11 | 6. | 22 |
| 17 | Mer | 30. | 32 | 30. | 42 | 24. | 37 | 11. | 28 | 3. | 3 | 7. | 23 |
| 18 | Jov. | 30. | 52 | 31. | 2 | 21. | 59 | * M * | | 3. | 55 | 8. | 29 |
| 19 | Ven | 31. | 14 | 31. | 26 | 18. | 9 | 0. | 3 | 4. | 45 | 9. | 37 |
| 20 | Sat. | 31. | 28 | 31. | 50 | 13. | 20 | 0. | 28 | 5. | 34 | 10. | 52 |
| 21 | Dom | 32. | 3 | 32. | 15 | 7. | 42 | 0. | 51 | 6. | 22 | 0. | 5 V |
| 22 | Lun. | 32. | 27 | 32. | 39 | 1. | 33 | 1. | 12 | 7. | 10 | 1. | 20 |
| 23 | Mar | 32. | 51 | 33. | 1 | 4. | 55 B | 1. | 36 | 7. | 59 | 2. | 34 |
| 24 | Mer | 33. | 9 | 33. | 17 | 11. | 13 | 2. | 3 | 8. | 50 | 3. | 49 |
| 25 | Jov. | 33. | 22 | 33. | 25 | 16. | 57 | 2. | 25 | 9. | 45 | 5. | 7 |
| 26 | Ven. | 33. | 25 | 33. | 24 | 21. | 41 | 3. | 2 | 10. | 44 | 6. | 27 |
| 27 | Sat | 33. | 20 | 33. | 14 | 24. | 47 | 3. | 46 | 11. | 46 | 7. | 52 |
| 28 | Dom | 33. | 5 | 32. | 56 | 25. | 55 | 4. | 40 | 0. | 50 V | 8. | 59 |
| 29 | Lun. | 32. | 43 | 32. | 29 | 25. | 12 | 5. | 46 | 1. | 53 | 9. | 56 |
| 30 | Mar | 32. | 15 | 31. | 59 | 22. | 38 | 6. | 56 | 2. | 52 | 10. | 41 |
| 31 | Mer | 31. | 44 | 31. | 29 | 18. | 45 | 8. | 7 | 3. | 46 | 11. | 14 |

| Dies mens | Longitudo Planeta- rum | Latitudo Planeta- rum | Declina- tio Pla- netarum | Ortus Planeta- rum | Transi- t. Planet. per Me- ridianum | Occlusus Planeta- rum |
|---------------------------|------------------------------|-----------------------------|---------------------------------|--------------------------|--|-----------------------------|
| | S. G. M. | G. M. | G. M. | H. M. | H. M. | H. M. |
| U R A N U S. | | | | | | |
| 1 | 3. 17. 30 | 0. 28 B | 22. 47 B | 8. 56M | 4. 41 V | 0. 26M |
| 16 | 3. 18. 4 | 0. 27 | 22. 42 | 8. 1 | 3. 45 | 11. 29 V |
| S A T U R N U S. | | | | | | |
| 1 | 10. 16. 37 | 0. 49 A | 16. 39 A | 1. 47M | 6. 40M | 11. 33M |
| 7 | 10. 16. 50 | 0. 50 | 16. 36 | 1. 25 | 6. 18 | 11. 11 |
| 13 | 10. 17. 0 | 0. 51 | 16. 35 | 1. 2 | 5. 55 | 10. 46 |
| 19 | 10. 17. 6 | 0. 51 | 16. 32 | 0. 39 | 5. 38 | 10. 25 |
| 25 | 10. 17. 7 | 0. 52 | 16. 32 | 0. 15 | 5. 8 | 10. 1 |
| J U P I T E R. | | | | | | |
| 1 | 1. 1. 1 | 1. 2 A | 10. 52 B | 4. 32M | 11. 20M | 6. 8 V |
| 7 | 1. 2. 27 | 1. 2 | 11. 22 | 4. 12 | 11. 2 | 5. 52 |
| 13 | 1. 3. 51 | 1. 2 | 11. 51 | 3. 52 | 10. 44 | 5. 36 |
| 19 | 1. 5. 14 | 1. 2 | 12. 18 | 3. 32 | 10. 26 | 5. 20 |
| 25 | 1. 6. 36 | 1. 2 | 12. 45 | 3. 11 | 10. 7 | 5. 3 |
| M A R S. | | | | | | |
| 1 | 3. 15. 45 | 1. 41 B | 24. 13 B | 8. 41M | 4. 34 V | 0. 27M |
| 7 | 3. 19. 9 | 1. 38 | 23. 44 | 8. 26 | 4. 26 | 0. 16 |
| 13 | 3. 22. 35 | 1. 35 | 23. 9 | 8. 30 | 4. 17 | 0. 4 |
| 19 | 3. 26. 2 | 1. 33 | 22. 29 | 8. 25 | 4. 8 | 11. 51 V |
| 25 | 3. 29. 32 | 1. 30 | 21. 44 | 8. 19 | 3. 58 | 11. 27 |
| V E N U S | | | | | | |
| 1 | 1. 21. 40 | 0. 13 A | 18. 0 B | 5. 21M | 0. 42 V | 8. 3 V |
| 7 | 1. 29. 8 | 0. 2 B | 20. 0 | 5. 19 | 0. 49 | 8. 19 |
| 13 | 2. 6. 26 | 0. 17 | 21. 41 | 5. 17 | 0. 56 | 8. 55 |
| 19 | 2. 13. 46 | 0. 31 | 23. 0 | 5. 18 | 1. 4 | 8. 50 |
| 25 | 2. 21. 7 | 0. 46 | 23. 56 | 5. 21 | 1. 12 | 9. 3 |
| M E R C U R I U S. | | | | | | |
| 1 | 1. 15. 24 | 0. 57 B | 17. 23 B | 4. 58M | 0. 16 V | 7. 34 V |
| 7 | 1. 11. 47 | 0. 46 A | 14. 39 | 4. 31 | 11. 36M | 6. 41 |
| 13 | 1. 9. 7 | 2. 18 | 12. 22 | 4. 10 | 11. 5 | 6. 0 |
| 19 | 1. 8. 49 | 3. 18 | 11. 20 | 3. 53 | 10. 43 | 5. 33 |
| 25 | 1. 11. 12 | 3. 41 | 11. 42 | 3. 38 | 10. 30 | 5. 22 |

ECLIPSES SATELLITUM JOVIS
nequeunt hoc mense observari.

| Dies | Diameter Solis | Mora transitus Solis per Meridian. | Motus horarius Solis | Logarithmus distantiae Solis a terra posita media 100000. | Longitudo Nodi Lunae |
|------|-------------------|---|----------------------------|---|-------------------------|
| | M. S. | M. S. | M. S. | | S. G. M. |
| 1 | 31. 45,9 | 2. 11, 6 | 2. 25, 3 | 5. 003777. | 9. 27. 36 |
| 4 | 31. 44,8 | 2. 12, 1 | 2. 25, 1 | 5. 004084. | 9. 27. 27 |
| 7 | 31. 43,7 | 2. 12, 6 | 2. 24, 9 | 5. 004373. | 9. 27. 17 |
| 10 | 31. 42,5 | 2. 13, 1 | 2. 24, 7 | 5. 004651. | 9. 27. 8 |
| 13 | 31. 41,1 | 2. 13, 6 | 2. 24, 5 | 5. 004921. | 9. 26. 58 |
| 16 | 31. 40,0 | 2. 14, 1 | 2. 24, 3 | 5. 005188. | 9. 26. 49 |
| 19 | 31. 38,9 | 2. 14, 6 | 2. 24, 1 | 5. 005443. | 9. 26. 39 |
| 22 | 31. 37,8 | 2. 15, 0 | 2. 24, 0 | 5. 005688. | 9. 26. 30 |
| 25 | 31. 36,8 | 2. 15, 4 | 2. 23, 9 | 5. 005916. | 9. 26. 20 |
| 28 | 31. 35,9 | 2. 15, 8 | 2. 23, 8 | 5. 006125. | 9. 26. 10 |

SATELLITES JOVIS
nequeunt hoc mense observari.

| Dies | Phenomena & Observationes Solis | Dies | Phenomena & Observationes Luna |
|------|--|------------|--|
| | Sol in parallelo | | Luna |
| 1 | γ Cancri culm. 3 ^h 50' | 1 | ad ε Leonis 8 ^h 13' |
| 3 | δ Geminor. & α Arietis culm. 2 ^h 29' & 21 ^h 4' | 3 | Primus quadrans 7 ^h 6' |
| 4 | η & μ Geminorum culm. 1 ^h 9' & 1 ^h 17' | 3 | ad s Leonis 13 ^h 16' |
| 5 | in nodo Veneris | 7 | Apogea |
| 16 | η Tauri culm. 21 ^h 50' | 9 | ad A Scorpii 14 ^h 20' |
| 20 | in signo Cancri 21 ^h 10' | 9 | ad π Scorpii 17 ^h 0' |
| 30 | in nodo Jovis, item in Apogeo | 10 | ad σ & α Scorpii 2 ^h 38' & 6 ^h 30' |
| | | 11 | Plenilunium 10 ^h 24' |
| | | 12 | ad λ Sagittarii 10 ^h 20' |
| | | 16 | ad θ Aquarii 20 ^h 1' |
| | | 18 | ad λ Piscium 12 ^h 58' |
| | | 18 | Ultimus quadrans 20 ^h 36' |
| | | 20 | ad η Piscium 16 ^h 3' |
| | | 21 | Perigea ad θ Arietis 11 ^h 58' |
| | | 22 | ad η Tauri 22 ^h 33' |
| | | 23 | ad χ Taberī 11 ^h 48' |
| | | 25 | Novilunium 12 ^h 7' |
| | | 27 | ad Veneris 11 ^h 10' |
| | | 28 | ad ε Leonis 17 ^h 18' |
| | | 29 | ad π Leonis 7 ^h 42' |
| | | | |
| Dies | Phenomena & Observationes Planetarum | | Planetæ in parallelis fixurum . |
| 2 | Mars ad præf. Cancrī d. l. 10' & c. | Uranus | γ Cancrī, δ & 84. Gemin. |
| 7 | Venus ad ε Geminor. diff. lat. 48' | Saturn. | δ Aquar., Sirii, γ præc. Corvi, δ Capri . |
| 11 | Venus ad ι ω Gemin. diff. lat. 12' | Jupiter | α Leonis, ζ Aquilæ, β, 2, δ Delphini, γ & α Pegasi, α Herc., ζ Boot. ε Aquil. γ Tauri, α Delph. |
| 12 | Venus ad m Geminor. diff. lat. 20' | Mars | ζ Geminor. Arcturi, β Ariet. γ Herculis, η Bootis, ε Tauri, γ Arietis, η Leonis α Sagittæ. δ Tauri, θ Leonis, γ Geminor. γ & β Serpentis, α Tauri . |
| 12 | Mars ad 78. Cancrī diff. lat. 21' | Venus | ε & ζ Leonis, η, b, f Tauri, μ, η, δ Geminor., α Arietis, β Herculis, δ & γ Leonis . |
| 12 | Jupiter ad ο Arietis diff. lat. 28' | Mercurius, | α Leonis, α Hercul., γ & α Pegasi, γ. α Tauri, β & γ Serpentis, δ Tauri, 16. Arcturi, γ & δ Leonis, 19. β Herculis, α Arietis, δ, η, μ Geminor., η Taur. |
| 12 | Merc. ad ι ω Gemin. diff. lat. 58' | | |
| 13 | Merc. ad 2. ω Gemin. diff. lat. 12' | | |
| 14 | Mercur. ad ε Tauri diff. lat. 47' | | |
| 15 | Mars ad 80 Cancrī diff. lat. 25' | | |
| 18 | Mars ad 83. Cancrī diff. lat. 38' | | |
| 19 | Jupiter ad σ Arietis diff. lat. 15' | | |
| 20 | Venus ad 84. Geminor. diff. lat. 9' | | |
| 23 | Venus ad 2 μ Gemin. diff. lat. 16' | | |
| 24 | Mercur. ad 132. Tauri diff. lat. 50' | | |
| 26 | Mercur. ad H Gemin. diff. lat. 41' | | |
| 28 | Venus ad η Geminor. diff. lat. 6' | | |
| 30 | Venus ad præsep. Canc. d. l. 4' & c. | | |

| Dier mensis | Die hebdomadae | Aequatio subtrahenda a tempore vero ut habeatur medium | | Diffe- rentia | Longitudo Solis | | | | Ascensio recta Solis | | | Declinatio Solis Borealis | | |
|-------------|----------------|---|----------|------------------|--------------------|-----|-----|----|-------------------------|-----|----|---------------------------------|-----|----|
| | | M. | S. | | S. | S. | G. | M. | S. | G. | M. | S. | | |
| 1 | Jov. | 2. | 36, 5 | 8, 9 | 2. | 11. | 0. | 43 | 69. | 26. | 16 | 22. | 7. | 11 |
| 2 | Ven. | 2. | 27, 3 | 9, 2 | 2. | 11. | 58. | 10 | 70. | 27. | 43 | 22. | 15. | 9 |
| 3 | Sat. | 2. | 17, 8 | 9, 5 | 2. | 12. | 55. | 35 | 71. | 29. | 16 | 22. | 22. | 36 |
| 4 | Dom. | 2. | 7, 9 | 9, 9 | 2. | 13. | 52. | 59 | 72. | 30. | 54 | 22. | 29. | 40 |
| 5 | Lun. | 1. | 57, 7 | 10, 2 | 2. | 14. | 50. | 22 | 73. | 32. | 37 | 22. | 36. | 21 |
| 6 | Mar. | 1. | 47, 1 | 10, 6 | 2. | 15. | 47. | 44 | 74. | 34. | 24 | 22. | 42. | 38 |
| 7 | Mer. | 1. | 36, 2 | 10, 9 | 2. | 16. | 45. | 4 | 75. | 36. | 15 | 22. | 48. | 50 |
| 8 | Jov. | 1. | 25, 1 | 11, 1 | 2. | 17. | 42. | 23 | 76. | 38. | 10 | 22. | 53. | 58 |
| 9 | Ven. | 1. | 13, 7 | 11, 4 | 2. | 18. | 39. | 42 | 77. | 40. | 9 | 22. | 59. | 2 |
| 10 | Sat. | 1. | 2, 1 | 11, 6 | 2. | 19. | 37. | 0 | 78. | 42. | 12 | 23. | 3. | 42 |
| 11 | Dom. | 0. | 50, 3 | 11, 8 | 2. | 20. | 34. | 17 | 79. | 44. | 18 | 23. | 7. | 58 |
| 12 | Mon. | 0. | 38, 2 | 12, 1 | 2. | 21. | 31. | 33 | 80. | 46. | 27 | 23. | 11. | 50 |
| 13 | Mar. | 0. | 26, 0 | 12, 2 | 2. | 22. | 28. | 49 | 81. | 48. | 39 | 23. | 15. | 17 |
| 14 | Mer. | 0. | 13, 6 | 12, 4 | 2. | 23. | 26. | 4 | 82. | 50. | 54 | 23. | 18. | 20 |
| 15 | Jov. | 0. | 1, 0 | 12, 6 | 2. | 24. | 23. | 19 | 83. | 53. | 11 | 23. | 20. | 58 |
| 16 | Ven. | + | 0, 11, 7 | 12, 7 | 2. | 25. | 20. | 34 | 84. | 55. | 30 | 23. | 23. | 11 |
| 17 | Sat. | addenda | 0, 24, 5 | 12, 8 | 2. | 26. | 17. | 48 | 85. | 57. | 50 | 23. | 25. | 0 |
| 18 | Dom. | 0. | 37, 3 | 12, 8 | 2. | 27. | 15. | 3 | 87. | 0. | 12 | 23. | 26. | 24 |
| 19 | Lun. | 0. | 50, 2 | 12, 9 | 2. | 28. | 12. | 17 | 88. | 2. | 35 | 23. | 27. | 25 |
| 20 | Mar. | 1. | 3, 2 | 13, 0 | 2. | 29. | 9. | 32 | 89. | 4. | 59 | 23. | 27. | 57 |
| 21 | Mer. | 1. | 16, 2 | 13, 0 | 3. | 0. | 6. | 46 | 90. | 7. | 23 | 23. | 28. | 6 |
| 22 | Jov. | 1. | 29, 2 | 13, 0 | 3. | 1. | 4. | 1 | 91. | 9. | 46 | 23. | 27. | 51 |
| 23 | Ven. | 1. | 42, 1 | 12, 9 | 3. | 2. | 1. | 15 | 92. | 12. | 9 | 23. | 27. | 11 |
| 24 | Sat. | 1. | 55, 0 | 12, 9 | 3. | 2. | 58. | 29 | 93. | 14. | 32 | 23. | 26. | 6 |
| 25 | Dom. | 2. | 7, 9 | 12, 9 | 3. | 3. | 55. | 43 | 94. | 16. | 54 | 23. | 24. | 36 |
| 26 | Lun. | 2. | 20, 7 | 12, 8 | 3. | 4. | 52. | 58 | 95. | 19. | 14 | 23. | 22. | 41 |
| 27 | Mar. | 2. | 33, 4 | 12, 7 | 3. | 5. | 50. | 12 | 96. | 21. | 32 | 23. | 20. | 22 |
| 28 | Mer. | 2. | 45, 9 | 12, 5 | 3. | 6. | 47. | 26 | 97. | 23. | 47 | 23. | 17. | 39 |
| 29 | Jov. | 2. | 58, 1 | 12, 2 | 3. | 7. | 44. | 40 | 98. | 25. | 59 | 23. | 14. | 21 |
| 30 | Ven. | 3. | 10, 0 | 11, 9 | 3. | 8. | 41. | 53 | 99. | 28. | 8 | 23. | 10. | 51 |

| Dies mensis | Dies hebdomadae | Distantia sectionis Υ a Sole | | | Differrentia | | Initium Crepusculi | | Ortus Centri Solis | | Occasus Centri Solis | | Finis Crepusculi | | Hera Italica Meridiei | |
|-------------|-----------------|---------------------------------------|-----|------|--------------|-----|--------------------|----|--------------------|----|----------------------|----|------------------|----|-----------------------|----|
| | | H. | M. | S. | M. | S. | H. | M. | H. | M. | H. | M. | H. | M. | H. | M. |
| 1 | Jov. | 19. | 22. | 14,9 | 4. | 5,8 | 1. | 48 | 4. | 19 | 7. | 41 | 10. | 12 | 15. | 22 |
| 2 | Ven. | 19. | 18. | 9,1 | 4. | 6,2 | 1. | 46 | 4. | 18 | 7. | 42 | 10. | 14 | 15. | 21 |
| 3 | Sat. | 19. | 14. | 2,9 | 4. | 6,5 | 1. | 44 | 4. | 18 | 7. | 24 | 10. | 16 | 15. | 20 |
| 4 | Dom | 19. | 9. | 56,4 | 4. | 6,8 | 1. | 43 | 4. | 17 | 7. | 43 | 10. | 17 | 15. | 19 |
| 5 | Lun. | 19. | 5. | 49,6 | 4. | 7,1 | 1. | 42 | 4. | 16 | 7. | 44 | 10. | 18 | 15. | 18 |
| 6 | Mar. | 19. | 1. | 42,5 | 4. | 7,4 | 1. | 41 | 4. | 16 | 7. | 44 | 10. | 19 | 15. | 17 |
| 7 | Mer. | 18. | 57. | 35,1 | 4. | 7,7 | 1. | 40 | 4. | 15 | 7. | 45 | 10. | 20 | 15. | 16 |
| 8 | Jov. | 18. | 53. | 27,4 | 4. | 8,0 | 1. | 39 | 4. | 15 | 7. | 45 | 10. | 21 | 15. | 16 |
| 9 | Ven. | 18. | 49. | 19,4 | 4. | 8,2 | 1. | 38 | 4. | 14 | 7. | 46 | 10. | 22 | 15. | 15 |
| 10 | Sat. | 18. | 45. | 11,2 | 4. | 8,4 | 1. | 37 | 4. | 14 | 7. | 46 | 10. | 23 | 15. | 14 |
| 11 | Dom | 18. | 41. | 2,8 | 4. | 8,6 | 1. | 36 | 4. | 14 | 7. | 46 | 10. | 24 | 15. | 14 |
| 12 | Lun. | 18. | 36. | 54,2 | 4. | 8,8 | 1. | 35 | 4. | 13 | 7. | 47 | 10. | 25 | 15. | 13 |
| 13 | Mar. | 18. | 32. | 45,4 | 4. | 8,9 | 1. | 34 | 4. | 13 | 7. | 47 | 10. | 26 | 15. | 13 |
| 14 | Mer. | 18. | 28. | 36,5 | 4. | 9,1 | 1. | 34 | 4. | 13 | 7. | 47 | 10. | 26 | 15. | 13 |
| 15 | Jov. | 18. | 24. | 27,4 | 4. | 9,3 | 1. | 33 | 4. | 13 | 7. | 47 | 10. | 27 | 15. | 13 |
| 16 | Ven. | 18. | 20. | 18,1 | 4. | 9,4 | 1. | 33 | 4. | 13 | 7. | 47 | 10. | 27 | 15. | 13 |
| 17 | Sat. | 18. | 16. | 8,7 | 4. | 9,5 | 1. | 32 | 4. | 12 | 7. | 48 | 10. | 28 | 15. | 12 |
| 18 | Dom | 18. | 11. | 59,2 | 4. | 9,5 | 1. | 32 | 4. | 12 | 7. | 48 | 10. | 28 | 15. | 12 |
| 19 | Lun. | 18. | 7. | 49,7 | 4. | 9,6 | 1. | 31 | 4. | 12 | 7. | 48 | 10. | 29 | 15. | 12 |
| 20 | Mar. | 18. | 3. | 40,1 | 4. | 9,6 | 1. | 31 | 4. | 12 | 7. | 48 | 10. | 29 | 15. | 12 |
| 21 | Mer. | 17. | 59. | 30,5 | 4. | 9,6 | 1. | 31 | 4. | 12 | 7. | 48 | 10. | 29 | 15. | 12 |
| 22 | Jov. | 17. | 55. | 20,9 | 4. | 9,6 | 1. | 31 | 4. | 12 | 7. | 48 | 10. | 29 | 15. | 12 |
| 23 | Ven. | 17. | 51. | 11,3 | 4. | 9,5 | 1. | 32 | 4. | 12 | 7. | 48 | 10. | 28 | 15. | 12 |
| 24 | Sat. | 17. | 47. | 1,8 | 4. | 9,4 | 1. | 32 | 4. | 12 | 7. | 48 | 10. | 28 | 15. | 12 |
| 25 | Dom | 17. | 42. | 54,4 | 4. | 9,3 | 1. | 32 | 4. | 12 | 7. | 48 | 10. | 28 | 15. | 12 |
| 26 | Lun. | 17. | 38. | 43,1 | 4. | 9,2 | 1. | 33 | 4. | 13 | 7. | 47 | 10. | 27 | 15. | 13 |
| 27 | Mar. | 17. | 34. | 33,9 | 4. | 9,0 | 1. | 33 | 4. | 13 | 7. | 47 | 10. | 27 | 15. | 13 |
| 28 | Mer. | 17. | 30. | 24,9 | 4. | 8,8 | 1. | 34 | 4. | 13 | 7. | 47 | 10. | 28 | 15. | 13 |
| 29 | Jov. | 17. | 26. | 16,1 | 4. | 8,6 | 1. | 34 | 4. | 13 | 7. | 47 | 10. | 28 | 15. | 13 |
| 30 | Ven. | 17. | 22. | 7,5 | 4. | 8,4 | 1. | 35 | 4. | 13 | 7. | 47 | 10. | 28 | 15. | 13 |

| Dies mensis | Dies hebdomadae | Longitudo Lunae Meridie | | | Longitudo Lunae media nocte | | | Latitudo Lunae Meridie | | | Latitudo Lunae med. noct. | | | Paral- laxis Lunae Meridie | | Paral- laxis Lunae media nocte | |
|-------------|-----------------|-------------------------|-----|--------|-----------------------------|-----|--------|------------------------|-------|------|---------------------------|-----|-------|-------------------------------|-------|-----------------------------------|----|
| | | S. | G. | M. S. | S. | G. | M. S. | G. | M. S. | G. | M. S. | G. | M. S. | M. S. | M. S. | | |
| 1 | Jov. | 4. | 14. | 15. 4 | 4. | 20. | 42. 59 | 1. | 45. | 29 A | 2. | 17. | 46 A | 56. | 58 | 56. | 32 |
| 2 | Ven. | 4. | 27. | 5. 13 | 5. | 3. | 22. 19 | 2. | 47. | 47 | 3. | 15. | 20 | 56. | 8 | 55. | 47 |
| 3 | Sat. | 5. | 9. | 34. 46 | 5. | 15. | 43. 12 | 3. | 40. | 15 | 4. | 2. | 22 | 55. | 25 | 55. | 6 |
| 4 | Dom | 5. | 21. | 48. 9 | 5. | 27. | 50. 15 | 4. | 21. | 32 | 4. | 37. | 38 | 54. | 50 | 54. | 37 |
| 5 | Lun. | 6. | 3. | 50. 6 | 6. | 9. | 48. 14 | 4. | 50. | 34 | 5. | 0. | 16 | 54. | 26 | 54. | 18 |
| 6 | Mar | 6. | 15. | 45. 11 | 6. | 21. | 41. 26 | 5. | 6. | 41 | 5. | 9. | 48 | 54. | 11 | 54. | 8 |
| 7 | Mer | 6. | 27. | 37. 26 | 7. | 3. | 33. 36 | 5. | 9. | 36 | 5. | 6. | 4 | 54. | 6 | 54. | 6 |
| 8 | Jov. | 7. | 9. | 30. 21 | 7. | 15. | 28. 14 | 4. | 59. | 13 | 4. | 49. | 5 | 54. | 8 | 54. | 12 |
| 9 | Ven. | 7. | 21. | 26. 56 | 7. | 27. | 27. 21 | 4. | 35. | 46 | 4. | 19. | 20 | 54. | 18 | 54. | 25 |
| 10 | Sat. | 8. | 3. | 29. 28 | 8. | 9. | 33. 29 | 3. | 59. | 56 | 3. | 57. | 43 | 54. | 34 | 54. | 43 |
| 11 | Dom | 8. | 15. | 39. 38 | 8. | 21. | 47. 59 | 3. | 12. | 50 | 2. | 45. | 32 | 54. | 54 | 55. | 6 |
| 12 | Lun. | 8. | 27. | 58. 48 | 9. | 4. | 12. 10 | 2. | 16. | 6 | 1. | 44. | 50 | 55. | 19 | 55. | 32 |
| 13 | Mar | 9. | 10. | 28. 9 | 9. | 16. | 46. 56 | 1. | 12. | 2 | 0. | 38. | 5 | 55. | 46 | 56. | 1 |
| 14 | Mer | 9. | 23. | 8. 40 | 9. | 29. | 33. 32 | 0. | 3. | 20 | 0. | 31. | 45 B | 56. | 16 | 56. | 31 |
| 15 | Jov. | 10. | 6. | 1. 4C | 10. | 12. | 33. 17 | 1. | 6. | 46 B | 1. | 41. | 14 | 56. | 46 | 57. | 2 |
| 16 | Ven. | 10. | 19. | 8. 26 | 10. | 25. | 47. 20 | 2. | 14. | 41 | 2. | 46. | 38 | 57. | 19 | 57. | 36 |
| 17 | Sat. | 11. | 2. | 30. 10 | 11. | 9. | 17. 23 | 3. | 16. | 38 | 3. | 44. | 10 | 57. | 52 | 58. | 9 |
| 18 | Dom | 11. | 16. | 7. 55 | 11. | 23. | 2. 55 | 4. | 8. | 49 | 4. | 30. | 6 | 58. | 26 | 58. | 42 |
| 19 | Lun. | 0. | C. | 2. 8 | 0. | 7. | 5. 28 | 4. | 47. | 37 | 5. | 0. | 57 | 58. | 58 | 59. | 13 |
| 20 | Mar | 0. | 14. | 12. 36 | 0. | 21. | 23. 18 | 5. | 9. | 48 | 5. | 13. | 54 | 59. | 27 | 59. | 41 |
| 21 | Mer | 0. | 28. | 37. 18 | 1. | 5. | 54. 3 | 5. | 13. | 4 | 5. | 7. | 14 | 59. | 52 | 60. | 2 |
| 22 | Jov. | 1. | 13. | 12. 59 | 1. | 20. | 33. 20 | 4. | 56. | 22 | 4. | 40. | 38 | 60. | 8 | 60. | 12 |
| 23 | Ven. | 1. | 27. | 54. 28 | 2. | 5. | 15. 25 | 4. | 20. | 14 | 3. | 55. | 34 | 60. | 14 | 60. | 14 |
| 24 | Sat. | 2. | 12. | 35. 26 | 2. | 19. | 53. 32 | 3. | 26. | 59 | 2. | 55. | 8 | 60. | 6 | 59. | 59 |
| 25 | Dom | 2. | 27. | 8. 52 | 3. | 4. | 20. 38 | 2. | 20. | 39 | 1. | 44. | 9 | 59. | 46 | 59. | 31 |
| 26 | Lun. | 3. | 11. | 28. 11 | 3. | 18. | 30. 57 | 1. | 6. | 25 | 0. | 28. | 2 | 59. | 13 | 58. | 57 |
| 27 | Mar | 3. | 25. | 28. 24 | 4. | 2. | 20. 17 | 0. | 10. | 21 A | 0. | 48. | 4 A | 58. | 31 | 58. | 7 |
| 28 | Mer | 4. | 9. | 6. 23 | 4. | 15. | 46. 42 | 1. | 24. | 36 | 1. | 59. | 28 | 57. | 43 | 57. | 18 |
| 29 | Jov. | 4. | 22. | 21. 11 | 4. | 28. | 50. 4 | 2. | 32. | 12 | 3. | 2. | 29 | 56. | 53 | 56. | 31 |
| 30 | Ven. | 5. | 5. | 13. 27 | 5. | 11. | 31. 47 | 3. | 30. | 5 | 3. | 54. | 50 | 56. | 7 | 55. | 46 |

| Dies hebdomadae Dies mensis | Diameter horiz. Lunae Meridie | | horiz. Lunae media nocte | | Declinatio Lunae in Meridia- no | | Ortus Lunae | | Transitus Lunae per Meridia- num | | Occasus Lunae | |
|--------------------------------|--|----|-----------------------------------|----|---|------|----------------|------|--|------|------------------|------|
| | M. | S. | M. | S. | G. | M. | H. | M. | H. | M. | H. | M. |
| 1 Jov. | 31. | 14 | 31. | 0 | 13. | 58 B | 9. | 20 M | 4. | 26 V | 11. | 40 V |
| 2 Ven. | 30. | 47 | 30. | 35 | 8. | 43 | 10. | 50 | 5. | 22 | * M * | |
| 3 Sat. | 30. | 24 | 30. | 13 | 3. | 12 | 11. | 37 | 6. | 4 | 0. | 2 |
| 4 Dom | 30. | 4 | 29. | 57 | 2. | 14 A | 0. | 41 V | 6. | 45 | 0. | 19 |
| 5 Lun. | 29. | 51 | 29. | 47 | 7. | 33 | 1. | 44 | 7. | 26 | 0. | 37 |
| 6 Mar | 29. | 43 | 29. | 41 | 12. | 30 | 2. | 45 | 8. | 7 | 1. | 0 |
| 7 Mer | 29. | 40 | 29. | 40 | 17. | 0 | 3. | 50 | 8. | 49 | 1. | 17 |
| 8 Jov. | 29. | 41 | 29. | 43 | 20. | 46 | 4. | 54 | 9. | 34 | 1. | 38 |
| 9 Ven. | 29. | 47 | 29. | 50 | 23. | 41 | 5. | 57 | 10. | 21 | 2. | 5 |
| 10 Sat. | 29. | 55 | 30. | 0 | 25. | 28 | 6. | 58 | 11. | 11 | 2. | 39 |
| 11 Dom | 30. | 6 | 30. | 13 | * * | | 7. | 55 | * M * | | 3. | 21 |
| 12 Lun. | 30. | 20 | 30. | 27 | 25. | 58 | 8. | 43 | 0. | 3 | 4. | 12 |
| 13 Mar | 30. | 35 | 30. | 43 | 25. | 5 | 9. | 35 | 0. | 56 | 5. | 13 |
| 14 Mer | 30. | 51 | 30. | 59 | 22. | 53 | 10. | 2 | 1. | 48 | 6. | 17 |
| 15 Jov. | 31. | 7 | 31. | 16 | 19. | 24 | 10. | 29 | 2. | 39 | 7. | 25 |
| 16 Ven. | 31. | 26 | 31. | 35 | 14. | 48 | 10. | 54 | 3. | 28 | 8. | 39 |
| 17 Sat. | 31. | 44 | 31. | 53 | 9. | 27 | 11. | 14 | 4. | 16 | 9. | 50 |
| 18 Dom | 32. | 3 | 32. | 11 | 3. | 22 | 11. | 36 | 5. | 3 | 11. | 6 |
| 19 Lun. | 32. | 20 | 32. | 28 | 2. | 50 B | 11. | 58 | 5. | 50 | 0. | 16 V |
| 20 Mar | 32. | 36 | 32. | 43 | 8. | 59 | * M * | | 6. | 38 | 1. | 32 |
| 21 Mer | 32. | 50 | 32. | 55 | 14. | 51 | 0. | 22 | 7. | 29 | 2. | 50 |
| 22 Jov. | 32. | 58 | 33. | 0 | 19. | 51 | 0. | 51 | 8. | 24 | 4. | 9 |
| 23 Ven. | 33. | 1 | 32. | 58 | 23. | 41 | 1. | 31 | 9. | 24 | 5. | 26 |
| 24 Sat | 32. | 56 | 32. | 54 | 25. | 42 | 2. | 19 | 10. | 26 | 6. | 36 |
| 25 Dom | 32. | 48 | 32. | 39 | 25. | 47 | 3. | 19 | 11. | 29 | 7. | 36 |
| 26 Lun | 32. | 28 | 32. | 17 | 23. | 59 | 4. | 29 | 0. | 31 V | 8. | 25 |
| 27 Mar | 32. | 5 | 31. | 52 | 20. | 40 | 5. | 41 | 1. | 28 | 9. | 5 |
| 28 Mer | 31. | 39 | 31. | 25 | 16. | 11 | 6. | 55 | 2. | 20 | 9. | 35 |
| 29 Jov. | 31. | 11 | 30. | 59 | 11. | 1 | 8. | 6 | 3. | 8 | 9. | 58 |
| 30 Ven. | 30. | 46 | 30. | 35 | 5. | 29 | 9. | 16 | 3. | 53 | 10. | 18 |

| Dies mens. | Longitudo Planetarum | Latitudo Planetarum | Declinatio Planetarum | Ortus Planetarum | Transp. Planet. per Meridianum | Occasus Planetarum |
|------------|----------------------|---------------------|-----------------------|------------------|--------------------------------|--------------------|
| | S. G. M. | G. M. | G. M. | H. M. | H. M. | H. M. |

URANUS.

| | | | | | | |
|----|-----------|---------|----------|--------|---------|----------|
| 1 | 3. 18. 49 | 0. 27 B | 22. 36 B | 7. 0 M | 2. 44 V | 10. 28 V |
| 16 | 3. 19. 38 | 0. 27 | 22. 29 | 6. 2 | 1. 45 | 9. 28 |

SATURNUS.

| | | | | | | |
|----|------------|---------|----------|----------|---------|---------|
| 1 | 10. 17. 8 | 0. 54 A | 16. 34 A | 11. 48 V | 4. 41 M | 9. 34 M |
| 7 | 10. 17. 3 | 0. 55 | 16. 37 | 11. 23 | 4. 16 | 9. 9 |
| 13 | 10. 16. 55 | 0. 56 | 16. 40 | 10. 59 | 3. 51 | 8. 43 |
| 19 | 10. 16. 43 | 0. 57 | 16. 44 | 10. 33 | 3. 25 | 8. 17 |
| 25 | 10. 16. 29 | 0. 57 | 16. 50 | 10. 8 | 2. 59 | 7. 50 |

JUPITER.

| | | | | | | |
|----|-----------|--------|----------|---------|---------|---------|
| 1 | 1. 8. 20 | 1. 3 A | 13. 14 B | 2. 48 M | 9. 46 M | 4. 44 V |
| 7 | 1. 9. 28 | 1. 3 | 13. 39 | 2. 26 | 9. 26 | 4. 26 |
| 13 | 1. 10. 44 | 1. 3 | 14. 2 | 2. 4 | 9. 6 | 4. 6 |
| 19 | 1. 11. 56 | 1. 4 | 14. 24 | 1. 42 | 8. 46 | 3. 50 |
| 25 | 1. 13. 7 | 1. 4 | 14. 45 | 1. 21 | 8. 26 | 3. 31 |

MARS.

| | | | | | | |
|----|-----------|---------|----------|---------|---------|----------|
| 1 | 4. 3. 38 | 1. 26 B | 20. 46 B | 8. 13 M | 3. 47 V | 11. 21 V |
| 7 | 4. 7. 10 | 1. 23 | 19. 51 | 8. 7 | 3. 27 | 11. 7 |
| 13 | 4. 10. 44 | 1. 21 | 19. 51 | 8. 2 | 3. 27 | 10. 52 |
| 19 | 4. 14. 20 | 1. 18 | 17. 47 | 7. 57 | 3. 16 | 10. 36 |
| 25 | 4. 17. 56 | 1. 15 | 16. 39 | 7. 52 | 3. 6 | 10. 20 |

VENUS.

| | | | | | | |
|----|-----------|--------|----------|---------|---------|---------|
| 1 | 2. 29. 41 | 1. 1 B | 24. 29 B | 5. 27 M | 1. 21 V | 9. 15 V |
| 7 | 3. 7. 0 | 1. 12 | 24. 26 | 5. 34 | 1. 28 | 9. 22 |
| 13 | 3. 14. 18 | 1. 22 | 24. 4 | 5. 43 | 1. 35 | 9. 27 |
| 19 | 3. 21. 36 | 1. 30 | 23. 14 | 5. 55 | 1. 42 | 9. 29 |
| 25 | 3. 28. 52 | 1. 36 | 21. 59 | 6. 7 | 1. 48 | 9. 29 |

MERCURIUS.

| | | | | | | |
|----|-----------|---------|----------|---------|----------|---------|
| 1 | 1. 16. 58 | 3. 28 A | 13. 36 B | 3. 24 M | 10. 24 M | 5. 24 V |
| 7 | 1. 24. 7 | 2. 49 | 16. 5 | 3. 18 | 10. 29 | 5. 40 |
| 13 | 2. 3. 5 | 1. 52 | 18. 58 | 3. 16 | 10. 41 | 6. 6 |
| 19 | 2. 13. 46 | 0. 45 | 21. 44 | 3. 23 | 11. 2 | 6. 41 |
| 25 | 2. 25. 56 | 0. 23 B | 23. 47 | 3. 40 | 11. 30 | 7. 20 |

ECLIPSES SATELLITUM JOVIS.

| <i>Dies mensis</i> | I. Satelles. | | | <i>Dies</i> | II. Satelles | | | <i>Dies</i> | III. Satelles. | | | |
|--------------------|-------------------|-----------|-----------|-------------|-------------------|-----------|-----------|-------------|-----------------------|-----------|-----------|------|
| | <i>Emerfiones</i> | | | | <i>Emerfiones</i> | | | | <i>Imersf. Emerf.</i> | | | |
| | <i>H.</i> | <i>M.</i> | <i>S.</i> | | <i>H.</i> | <i>M.</i> | <i>S.</i> | | <i>H.</i> | <i>M.</i> | <i>S.</i> | |
| 2 | 17. | 43. | 59. | 4 | 0. | 1. | 6. | 1 | 6. | 0. | 6. | I |
| 4 | 12. | 12. | 16. | 7 | 13. | 18. | 21. | 1 | 7. | 42. | 6. | E |
| 6 | 6. | 40. | 33. | 11 | 2. | 35. | 36. | 8 | 9. | 59. | 54. | I |
| 8 | 1. | 8. | 48. | 14 | 15. | 52. | 52. | 8 | 11. | 41. | 18. | E |
| 9 | 19. | 37. | 3 | 18 | 5. | 10. | 7. | 15 | 13. | 59. | 25. | I |
| 11 | 14. | 5. | 17. | 21 | 18. | 27. | 22. | 15 | 15. | 40. | 16. | E |
| 13 | 8. | 33. | 31. | 25 | 7. | 44. | 37. | 22 | 17. | 58. | 46. | I |
| 15 | 3. | 1. | 42. | 28 | 21. | 1. | 53. | 22 | 19. | 39. | 6. | E |
| 16 | 21. | 29. | 52. | | | | | 29 | 21. | 58. | 5. | I |
| 18 | 15. | 58. | 1. | | | | | 29 | 23. | 87. | 51. | E |
| 20 | 10 | 26. | 9. | | | | | | | | | |
| 22 | 4 | 54. | 17. | | | | | <i>Dies</i> | IV. Satelles. | | | |
| 23 | 23 | 22. | 25. | | | | | | <i>Conjunctiões.</i> | | | |
| 25 | 17 | 50. | 34. | | | | | 5 | 20. | 57. | 24. | sup. |
| 27 | 12. | 18. | 44. | | | | | 13 | 6. | 37. | 24. | inf. |
| 29 | 6. | 46. | 55. | | | | | 22 | 17. | 16. | 24. | sup. |
| | | | | | | | | 20 | 2. | 43. | 25. | inf. |

| <i>Dies</i> | <i>Diameter Solis</i> | <i>Mora transitus Solis per Meridian.</i> | <i>Motus borarius Solis</i> | <i>Logarithmus distantiae Solis a terra posita media 100000.</i> | <i>Longitudo Nodi Lunae</i> |
|-------------|-----------------------|---|-----------------------------|--|-----------------------------|
| | <i>M. S.</i> | <i>M. S.</i> | <i>M. S.</i> | | <i>S. G. M.</i> |
| 1 | 31. 34,8 | 2. 16, 4 | 2. 23, 7 | 5.006367. | 9. 25. 58 |
| 4 | 31. 34,2 | 2. 16, 7 | 2. 23, 5 | 5.006526. | 9. 25. 48 |
| 7 | 31. 33,6 | 2. 16, 9 | 2. 23, 4 | 5.006668. | 9. 25. 39 |
| 10 | 31. 33,0 | 2. 17, 1 | 2. 23, 3 | 5.006795. | 9. 25. 29 |
| 13 | 31. 31,4 | 2. 17, 2 | 2. 23, 2 | 5.006908. | 9. 25. 20 |
| 16 | 31. 31,9 | 2. 17, 3 | 2. 23, 1 | 5.007012. | 9. 25. 10 |
| 19 | 31. 31,6 | 2. 17, 4 | 2. 23, 0 | 5.007102. | 9. 25. 1 |
| 22 | 31. 31,3 | 2. 17, 4 | 2. 23, 0 | 5.007173. | 9. 25. 51 |
| 25 | 31. 31,1 | 2. 17, 4 | 2. 23, 0 | 5.007221. | 9. 25. 41 |
| 28 | 31. 31,0 | 2. 17, 3 | 2. 23, 0 | 5.007245. | 9. 25. 38 |

POSITIONES SATELLITUM JOVIS

| | Oriens | 3. ^a Mane | Occidens |
|----|----------|----------------------|-----------|
| 1 | | ○ | .4 |
| 2 | .3 .2 | ○ | 4. |
| 3 | .3 | ○ | 4. |
| 4 | 1.0 .1 | ○ | 2. 4. |
| 5 | .2 .3 | ○ | .4 |
| 6 | .4 | ○ | 1. .3 |
| 7 | 4. .1 | ○ | .2 .3 |
| 8 | 4. | ○ | 1. 31. 10 |
| 9 | 4. .2 .1 | ○ | 10 |
| 10 | .4 .1 | ○ | .2 1. |
| 11 | 4. .1 | ○ | 2. |
| 12 | .4 2 3 | ○ | 10 |
| 13 | .4 .2 | ○ | .1 .3 |
| 14 | .1 | ○ | .4 .2 1. |
| 15 | | ○ | 2. .1 1 4 |
| 16 | 10 .2 .1 | ○ | .4 |
| 17 | .1 | ○ | .2 2. .4 |
| 18 | .3 | ○ | 2. 4. |
| 19 | .3 .2 | ○ | 1. 4. |
| 20 | 1.0 .2 | ○ | .3 4. |
| 21 | .1 | ○ | 4 3 .3 |
| 22 | | ○ | 4. 2 1 1. |
| 23 | .4 2. .1 | ○ | 1. |
| 24 | 4. .1 | ○ | 1. 1.0 |
| 25 | 4. .1 | ○ | 2. |
| 26 | 4. .3 .2 | ○ | .1 |
| 27 | 4 .2 .2 | ○ | 1.0 |
| 28 | .4 .2 | ○ | .2 .3 |
| 29 | .4 | ○ | 3 1 1. |
| 30 | .2 .1 .4 | ○ | 1. |

| Dies | Phenomena & Observationes Solis | Dies | Phenomena & Observationes Luna |
|------|---|------|--|
| | Sol in parallelo | | Luna |
| 6 | μ & n Geminorum culm. 23 ^h 0' & 22 ^h 52' | 2 | Primus quadrans 22 ^h 51' |
| 8 | α Arietis & δ Geminorum culm. 18 ^h 39' & 0 ^h 4' | 5 | Apogea |
| 9 | γ Cancrī culm. 1 ^h 13' | 7 | ad ν & α Scorpi 10 ^h 0' & 13 ^h 50' |
| 11 | β Herculis culm. 8 ^h 55' | 8 | ad A Ophiuci 10 ^h 0' |
| 13 | δ Leonis culm. 3 ^h 29' | 9 | ad λ Sagittarii 17 ^h 21' |
| 18 | γ Leonis culm. 2 ^h 14' | 10 | Plenilunium 23 ^h 12' |
| 21 | Arcturi culm. 6 ^h 0' | | Eclipsis Lunae Mediolani invisibilis. <i>Vide supra.</i> |
| 22 | in signo Leonis 7 ^h 58' | 13 | ad λ Capri 11 ^h 2' |
| 24 | γ Herculis culm. 7 ^h 53' | 14 | ad θ Aquarii 1 ^h 35' |
| 24 | Eclipsis Solis Mediolani invisibilis. <i>Vide supra.</i> | 17 | ad n Piscium 21 ^h 46' |
| 25 | ζ Bootis culm. 5 ^h 22' | 18 | Ultimus quadrans 1 ^h 17' |
| | | 20 | Perigea ad n Tauri 5 ^h 21' |
| | | 22 | ad 125. Tauri 0 ^h 24' |
| | | 23 | ad ϵ & δ Geminor. 1 ^h 6' & 15 ^h 53' |
| | | 24 | Novilunium 21 ^h 25' |
| | | | Eclip. Sol. Med. invisibilis <i>Vid. supr.</i> |
| | | 26 | ad A Leonis 19 ^h 0' |
| | | 28 | ad e & v Leonis 15 ^h 30' & 16 ^h 48' |
| | | 30 | ad ψ Virginis 9 ^h 24' |
| | | | <i>Planetae in parallelis fixurum.</i> Uran δ & 84. Gemin. 7 & 2. μ Canc Saturnus, Sirii, δ Aquarii, δ Capri, α Crateris, γ Capri. Jupiter γ Tauri. α & γ Delphini, β Leonis, Aldebaran β Serpentis. Mars ι γ & α Delphini. γ Tauri, ϵ Aquilae, α Herculis & γ Pegasi; 13. α Leonis α Ophiuci, α Cancri, δ Serpentis, θ & ρ Leonis, ζ & α Pegasi, β Canis Minoris. Venus Arcturi, β Arietis, γ Herculis, n Bootis, ϵ Tauri, γ Arietis, n & θ Leonis, δ Tauri, γ Geminor. 12. γ & β Serpentis, α Tauri, β Leonis, γ & α Delphini, ϵ Aquilae, ζ Bootis, α Herculis, α & γ Pegasi, ζ & δ Delphini, ζ Aquilae, α Leonis, α Ophiuci, α Delphini, γ Aquilae, ζ & α Pegasi, β Canis minoris & Aquilae. Mercur. ζ Leon n Taur. α Ariet. β Herc. 14. Arct. β Ariet. γ Herc. ϵ Peg. α Sag. γ , α Serp. α Tau. α Delphin. α Her. α Peg. α Leon. α Oph. |
| | Phenomena & Observationes Planetarum | | |
| 2 | Mercurius in conjunctione superiore cum Sole. | | |
| 6 | Venus ad 80. Geminor. diff. lat. 5' | | |
| 7 | Venus ad 83. Geminor. diff. lat. 16' | | |
| 10 | Mars ad α Leonis diff. lat. 40' | | |
| 13 | Mercurius ad praesepe Cancrī diff. lat. 17' & c. | | |
| 13 | Uranus in conjunctione cum Sole | | |
| 19 | Venus ad α & 34. Leonis diff. lat. 10' 6' & 23' | | |
| 20 | Mars ad ρ Leonis diff. lat. 54' | | |
| 24 | Saturnus ad ι Capri diff. lat. 17' | | |
| 26 | Mercurius ad α Leon. diff. lat. 13' | | |
| 27 | Venus ad Martis diff. lat. 19' | | |
| 30 | Venus ad χ Leonis diff. lat. 2' | | |
| 31 | Mercurius ad ρ Leonis diff. lat. 6' | | |

| Dies mensis | Dies hebdomadae | Æquatio addenda tempore vero ut habeatur medium | | Differrentia | Longitudo Solis | | | | Ascensio recta Solis | | | Declinatio Solis Borealis | | |
|-------------|-----------------|---|----------|--------------|-----------------|-----|-----|----|----------------------|-----|----|---------------------------|-----|----|
| | | M. | S. | | S. | S. | G. | M. | S. | G. | M. | S. | G. | M. | S. |
| 1 | Sat. | + | 3. 21. 7 | 11, 7 | 3. | 9. | 39. | 6 | 100. | 30. | 13 | 23. | 7. | 0 |
| 2 | Dom. | | 3. 33, 1 | 11, 4 | 3. | 10. | 36. | 19 | 101. | 32. | 13 | 23. | 2. | 39 |
| 3 | Lun. | | 3. 44, 2 | 11, 1 | 3. | 11. | 33. | 31 | 102. | 34. | 9 | 22. | 57. | 53 |
| 4 | Mar. | | 3. 55, 0 | 10, 8 | 3. | 12. | 30. | 43 | 103. | 36. | 0 | 22. | 52. | 43 |
| 5 | Mer. | | 4. 5. 5 | 10, 5 | 3. | 13. | 27. | 55 | 104. | 37. | 46 | 22. | 47. | 10 |
| 6 | Jov. | | 4. 15, 7 | 9, 8 | 3. | 14. | 25. | 7 | 105. | 39. | 26 | 22. | 41. | 13 |
| 7 | Ven. | | 4. 25, 5 | 9, 4 | 3. | 15. | 22. | 18 | 106. | 41. | 0 | 22. | 34. | 53 |
| 8 | Sat. | | 4. 34, 9 | 9, 0 | 3. | 16. | 19. | 29 | 107. | 42. | 23 | 22. | 28. | 9 |
| 9 | Dom. | | 4. 43, 9 | 8, 5 | 3. | 17. | 16. | 40 | 108. | 43. | 52 | 22. | 21. | 2 |
| 10 | Lun. | | 4. 52, 4 | 8, 0 | 3. | 18. | 13. | 51 | 109. | 45. | 8 | 22. | 13. | 31 |
| 11 | Mar. | | 5. 0. 4 | 7, 6 | 3. | 19. | 11. | 3 | 110. | 46. | 18 | 22. | 5. | 37 |
| 12 | Mer. | | 5. 8, 0 | 7, 2 | 3. | 20. | 8. | 15 | 111. | 47. | 22 | 21. | 57. | 21 |
| 13 | Jov. | | 5. 15, 0 | 6, 7 | 3. | 21. | 5. | 28 | 112. | 48. | 19 | 21. | 48. | 43 |
| 14 | Ven. | | 5. 21, 9 | 6, 2 | 3. | 22. | 2. | 42 | 113. | 49. | 9 | 21. | 39. | 49 |
| 15 | Sat. | | 5. 28, 1 | 5, 8 | 3. | 23. | 59. | 56 | 114. | 49. | 52 | 21. | 30. | 18 |
| 16 | Dom. | | 5. 33, 9 | | 3. | 23. | 57. | 11 | 115. | 50. | 28 | 21. | 20. | 34 |
| 17 | Lun. | | 5. 39, 3 | 5, 4 | 3. | 24. | 54. | 26 | 116. | 50. | 56 | 21. | 10. | 16 |
| 18 | Mar. | | 5. 44, 2 | 4, 9 | 3. | 25. | 51. | 42 | 117. | 51. | 17 | 20. | 59. | 57 |
| 19 | Mer. | | 5. 48, 5 | 4, 3 | 3. | 26. | 49. | 0 | 118. | 51. | 30 | 20. | 49. | 7 |
| 20 | Jov. | | 5. 52, 3 | 3, 8 | 3. | 27. | 46. | 18 | 119. | 51. | 35 | 20. | 37. | 56 |
| | | | | 3, 2 | | | | | | | | | | |
| 21 | Ven. | | 5. 55, 5 | 2, 7 | 3. | 28. | 43. | 37 | 120. | 51. | 32 | 20. | 26. | 24 |
| 22 | Sat. | | 5. 58, 2 | 2, 2 | 3. | 29. | 40. | 57 | 121. | 51. | 21 | 20. | 14. | 31 |
| 23 | Dom. | | 6. 0, 4 | 1, 6 | 4. | 0. | 38. | 18 | 122. | 51. | 2 | 20. | 2. | 18 |
| 24 | Lun. | | 6. 2, 0 | 1, 0 | 4. | 1. | 35. | 40 | 123. | 50. | 35 | 19. | 49. | 4 |
| 25 | Mar. | | 6. 3, 0 | 0, 5 | 4. | 2. | 33. | 3 | 124. | 49. | 59 | 19. | 36. | 5 |
| 26 | Mer. | | 6. 3, 5 | | 4. | 3. | 30. | 26 | 125. | 49. | 14 | 19. | 23. | 7 |
| 27 | Jov. | | 6. 3, 3 | 0, 2 | 4. | 4. | 27. | 50 | 126. | 48. | 20 | 19. | 10. | 7 |
| 28 | Ven. | | 6. 2, 5 | 0, 8 | 4. | 5. | 25. | 14 | 127. | 47. | 17 | 18. | 56. | 1 |
| 29 | Sat. | | 6. 1, 1 | 1, 4 | 4. | 6. | 22. | 39 | 128. | 46. | 4 | 18. | 42. | 1 |
| 30 | Dom. | | 5. 59, 0 | 2, 1 | 4. | 7. | 20. | 5 | 129. | 44. | 42 | 18. | 27. | 3 |
| 31 | Lun. | | 5. 50, 3 | 2, 7 | 4. | 8. | 17. | 31 | 130. | 43. | 10 | 18. | 12. | 9 |
| | | | | 3, 2 | | | | | | | | | | |

| Dies mensis | Dies hebdomadae | Distantia sektionis γ a Sole | | | Diffe- rentia | Inji- tium Crepu- sculi | Ortus Centri Solis | Occu- sus Centri Solis | Fimis Crepu- sculi | Hora Italica Meridi- diei |
|-------------|-----------------|---|-----|------|------------------|----------------------------------|--------------------------|---------------------------------|--------------------------|------------------------------------|
| | | H. | M. | S. | | | | | | |
| 1 | Sat. | 17. | 17. | 59,1 | | 1. 36 | 4. 14 | 7. 46 | 10. 24 | 15. 14 |
| 2 | Dom | 17. | 13. | 51,0 | 4. 8,1 | 1. 37 | 4. 14 | 7. 46 | 10. 23 | 15. 14 |
| 3 | Lun. | 17. | 9. | 43,3 | 4. 7,7 | 1. 38 | 4. 14 | 7. 26 | 10. 22 | 15. 15 |
| 4 | Mar. | 17. | 5. | 36,0 | 1. 7,3 | 1. 39 | 4. 14 | 7. 46 | 10. 21 | 15. 15 |
| 5 | Mer. | 17. | 1. | 29,0 | 4. 7,0 | 1. 40 | 4. 15 | 7. 47 | 10. 20 | 15. 16 |
| 6 | Jov. | 16. | 57. | 22,3 | 4. 6,7 | 1. 41 | 4. 15 | 7. 45 | 10. 19 | 15. 16 |
| 7 | Ven. | 16. | 53. | 16,0 | 4. 6,3 | 1. 42 | 4. 16 | 7. 44 | 10. 18 | 15. 17 |
| 8 | Sat. | 16. | 49. | 10,1 | 4. 5,9 | 1. 43 | 4. 16 | 7. 44 | 10. 17 | 15. 18 |
| 9 | Dom | 16. | 45. | 4,6 | 4. 5,5 | 1. 45 | 4. 17 | 7. 43 | 10. 15 | 15. 19 |
| 10 | Lun. | 16. | 40. | 59,5 | 4. 5,1 | 1. 46 | 4. 18 | 7. 42 | 10. 14 | 15. 20 |
| 11 | Mar. | 16. | 36. | 54,8 | 4. 4,7 | 1. 48 | 4. 18 | 7. 42 | 10. 12 | 15. 21 |
| 12 | Mer. | 16. | 32. | 50,5 | 4. 4,3 | 1. 50 | 4. 19 | 7. 41 | 10. 10 | 15. 22 |
| 13 | Jov. | 16. | 28. | 46,7 | 4. 3,8 | 1. 52 | 4. 20 | 7. 40 | 10. 8 | 15. 23 |
| 14 | Ven. | 16. | 24. | 43,4 | 4. 3,3 | 1. 54 | 4. 21 | 7. 39 | 10. 6 | 15. 24 |
| 15 | Sat. | 16. | 20. | 40,6 | 4. 2,8 | 1. 56 | 4. 22 | 7. 38 | 10. 4 | 15. 25 |
| 16 | Dom | 16. | 16. | 38,2 | 4. 2,4 | 1. 58 | 4. 23 | 7. 37 | 10. 2 | 15. 26 |
| 17 | Lun. | 16. | 12. | 36,3 | 4. 1,9 | 2. 0 | 4. 24 | 7. 36 | 10. 0 | 15. 28 |
| 18 | Mar. | 16. | 8. | 34,9 | 4. 1,4 | 2. 2 | 4. 25 | 7. 35 | 9. 58 | 15. 29 |
| 19 | Mer. | 16. | 4. | 34,0 | 4. 0,9 | 2. 4 | 4. 26 | 7. 34 | 9. 56 | 15. 30 |
| 20 | Jov. | 16. | 0. | 33,7 | 4. 0,3 | 2. 6 | 4. 27 | 7. 33 | 9. 54 | 15. 31 |
| 21 | Ven. | 15. | 56. | 33,9 | 3. 59,8 | 2. 8 | 4. 28 | 7. 32 | 9. 52 | 15. 32 |
| 22 | Sat. | 15. | 52. | 34,6 | 3. 59,3 | 2. 10 | 4. 29 | 7. 31 | 9. 50 | 15. 34 |
| 23 | Dom | 15. | 48. | 35,9 | 3. 58,7 | 2. 12 | 4. 30 | 7. 30 | 9. 48 | 15. 35 |
| 24 | Lun. | 15. | 44. | 37,7 | 3. 58,2 | 2. 14 | 4. 31 | 7. 29 | 9. 46 | 15. 36 |
| 25 | Mar. | 15. | 40. | 40,1 | 3. 57,6 | 2. 16 | 4. 32 | 7. 28 | 9. 44 | 15. 37 |
| 26 | Mer. | 15. | 36. | 43,1 | 3. 57,0 | 2. 18 | 4. 33 | 7. 27 | 9. 41 | 15. 39 |
| 27 | Jov. | 15. | 32. | 46,7 | 3. 55,4 | 2. 20 | 4. 34 | 7. 26 | 9. 40 | 15. 40 |
| 28 | Ven. | 15. | 28. | 50,9 | 3. 55,8 | 2. 22 | 4. 35 | 7. 25 | 9. 38 | 15. 41 |
| 29 | Sat. | 15. | 24. | 55,7 | 3. 54,2 | 2. 24 | 4. 36 | 7. 24 | 9. 36 | 15. 43 |
| 30 | Dom | 15. | 21. | 1,2 | 3. 53,5 | 2. 26 | 4. 37 | 7. 23 | 9. 34 | 15. 44 |
| 31 | Lun. | 15. | 17. | 7,3 | 3. 53,9 | 2. 28 | 4. 38 | 7. 22 | 9. 32 | 15. 45 |
| | | | | | 3. 53,3 | | | | | |

| Dies mensis | Dies hebdomadae | Longitudo | Longitudo | Latitudo | Latitudo | Paral- | Paral- |
|-------------|-----------------|----------------|-------------------|---------------|------------------|---------------------|-------------------------|
| | | Lunae Meridie | Lunae media nocte | Lunae Meridie | Lunae med. noct. | laxis Lunae Meridie | laxis Lunae media nocte |
| | | S. G. M. S. | S. G. M. S. | G. M. S. | G. M. S. | M. S. | M. S. |
| 1 | Sat. | 5. 17. 45. 36 | 5. 23. 55. 22 | 4. 16. 26 A | 4. 34. 49 A | 55. 26 | 55. 8 |
| 2 | Dom | 6. 0. 1. 34 | 6. 6. 4. 46 | 4. 49. 54 | 5. 1. 36 | 54. 53 | 54. 40 |
| 3 | Lun. | 6. 12. 5. 21 | 6. 18. 4. 0 | 5. 9. 55 | 5. 14. 49 | 54. 29 | 54. 22 |
| 4 | Mar | 6. 24. 1. 24 | 6. 29. 58. 6 | 5. 16. 19 | 5. 14. 25 | 54. 17 | 54. 14 |
| 5 | Mer | 7. 5. 54. 32 | 7. 11. 51. 16 | 5. 9. 10 | 5. 0. 36 | 54. 13 | 54. 15 |
| 6 | Jov. | 7. 17. 48. 49 | 7. 23. 47. 40 | 4. 48. 46 | 4. 33. 44 | 54. 19 | 54. 45 |
| 7 | Ven. | 7. 29. 48. 26 | 8. 5. 51. 14 | 4. 15. 38 | 4. 54. 35 | 54. 34 | 54. 44 |
| 8 | Sat. | 8. 11. 56. 21 | 8. 18. 4. 19 | 3. 30. 45 | 3. 4. 19 | 54. 56 | 55. 9 |
| 9 | Dom | 8. 24. 15. 25 | 9. 0. 29. 47 | 2. 35. 28 | 2. 4. 29 | 55. 24 | 55. 39 |
| 10 | Lun. | 9. 6. 47. 37 | 9. 13. 9. 1 | 1. 31. 44 | 0. 57. 33 | 55. 55 | 56. 11 |
| 11 | Mar | 9. 19. 34. 3 | 9. 26. 2. 45 | 0. 22. 17 | 0. 13. 36 B | 56. 27 | 56. 44 |
| 12 | Mer | 10. 2. 35. 10 | 10. 9. 11. 14 | 0. 49. 41 B | 1. 25. 25 | 57. 0 | 57. 16 |
| 13 | Jov. | 10. 15. 50. 51 | 10. 22. 33. 55 | 2. 0. 20 | 2. 33. 52 | 57. 31 | 57. 46 |
| 14 | Ven. | 10. 29. 20. 18 | 11. 6. 9. 50 | 3. 5. 31 | 3. 34. 45 | 58. 0 | 58. 13 |
| 15 | Sat. | 11. 13. 2. 25 | 11. 19. 57. 46 | 4. 1. 8 | 4. 24. 6 | 58. 25 | 58. 36 |
| 16 | Dom | 11. 26. 55. 42 | 0. 3. 55. 59 | 4. 43. 28 | 4. 58. 39 | 58. 46 | 58. 55 |
| 17 | Lun. | 0. 10. 58. 26 | 0. 18. 2. 47 | 5. 9. 26 | 5. 15. 35 | 59. 3 | 59. 11 |
| 18 | Mar | 0. 25. 8. 40 | 1. 2. 15. 51 | 5. 16. 57 | 5. 13. 28 | 59. 17 | 59. 22 |
| 19 | Mer | 1. 9. 24. 1 | 1. 16. 32. 46 | 5. 5. 9 | 4. 52. 7 | 59. 25 | 59. 28 |
| 20 | Jov. | 1. 23. 41. 54 | 2. 0. 50. 52 | 4. 34. 30 | 4. 12. 36 | 59. 29 | 59. 28 |
| 21 | Ven. | 2. 7. 59. 17 | 2. 15. 6. 41 | 3. 46. 51 | 3. 17. 39 | 59. 25 | 59. 24 |
| 22 | Sat. | 2. 22. 12. 45 | 2. 29. 16. 57 | 2. 45. 29 | 2. 10. 56 | 59. 14 | 59. 6 |
| 23 | Dom | 3. 6. 18. 48 | 3. 1. 17. 52 | 1. 34. 30 | 0. 56. 52 | 58. 55 | 58. 42 |
| 24 | Lun. | 3. 20. 13. 45 | 3. 27. 6. 3 | 0. 18. 48 | 0. 19. 20 | 58. 27 | 58. 10 |
| 25 | Mar | 4. 3. 54. 32 | 4. 10. 38. 53 | 0. 56. 40 A | 1. 32. 58 A | 57. 53 | 57. 33 |
| 26 | Mer | 4. 17. 18. 45 | 4. 23. 54. 22 | 7. 26 | 2. 39. 52 | 57. 14 | 56. 59 |
| 27 | Jov. | 5. 0. 24. 51 | 5. 6. 51. 9 | 3. 9. 48 | 3. 37. 0 | 56. 33 | 56. 12 |
| 28 | Ven. | 5. 13. 12. 56 | 5. 19. 30. 24 | 4. 1. 5 | 4. 21. 59 | 55. 54 | 55. 35 |
| 29 | Sat. | 5. 25. 43. 48 | 6. 1. 53. 29 | 4. 39. 34 | 4. 53. 44 | 55. 18 | 55. 3 |
| 30 | Dom | 6. 7. 59. 45 | 6. 14. 3. 35 | 5. 4. 24 | 5. 11. 34 | 54. 49 | 54. 37 |
| 31 | Lun. | 6. 20. 3. 57 | 6. 26. 2. 53 | 5. 15. 15 | 5. 15. 30 | 54. 28 | 54. 22 |

| Dies mensis | Diameter horiz. Lunae Meridie | | horiz. Lunae media noctis | | Declinatio Lunae in Meridiano | | Ortus Lunae | | Transitus Lunae per Meridianum | | Occasus Lunae | |
|----------------|--|----|------------------------------------|----|--|------|----------------|-------|---|-------|------------------|-------|
| | M. | S. | M. | S. | G. | M. | H. | M. | H. | M. | H. | M. |
| 1 Sat. | 30. | 24 | 30. | 13 | 0. | 4 A | 10. | 21 M | 4. | 35 V | 10. | 39 V |
| 2 Dom. | 30. | 6 | 29. | 59 | 5. | 37 | 11. | 13 | 5. | 16 | 10. | 59 |
| 3 Lun. | 29. | 53 | 29. | 49 | 10. | 44 | 0. | 28 V | 5. | 57 | 11. | 14 |
| 4 Mar. | 29. | 46 | 29. | 44 | 15. | 25 | 1. | 33 | 6. | 40 | 11. | 37 |
| 5 Mer. | 29. | 43 | 29. | 44 | 19. | 30 | 2. | 37 | 7. | 24 | | * M * |
| 6 Jov. | 29. | 47 | 29. | 50 | 22. | 45 | 3. | 41 | 8. | 10 | 0. | 1 |
| 7 Ven. | 29. | 55 | 30. | 1 | 24. | 58 | 4. | 40 | 8. | 53 | 0. | 33 |
| 8 Sat. | 30. | 7 | 30. | 41 | 26. | 0 | 5. | 38 | 9. | 49 | 1. | 11 |
| 9 Dom. | 30. | 23 | 30. | 31 | 25. | 40 | 6. | 34 | 10. | 43 | 1. | 57 |
| 10 Lun. | 30. | 40 | 30. | 48 | 23. | 51 | 7. | 18 | 11. | 36 | 2. | 54 |
| 11 Mar. | 30. | 57 | 31. | 6 | * | * | 7. | 55 | | * M * | 4. | 1 |
| 12 Mer. | 31. | 15 | 31. | 24 | 20. | 39 | 8. | 27 | 0. | 28 | 5. | 30 |
| 13 Jov. | 31. | 32 | 31. | 40 | 16. | 19 | 8. | 52 | 1. | 18 | 6. | 19 |
| 14 Ven. | 31. | 48 | 31. | 55 | 11. | 5 | 9. | 12 | 2. | 7 | 7. | 34 |
| 15 Sat. | 32. | 2 | 32. | 8 | 5. | 13 | 9. | 37 | 2. | 55 | 8. | 50 |
| 16 Dom. | 32. | 14 | 32. | 19 | 1. | 0 B | 10. | 0 | 2. | 43 | 10. | 1 |
| 17 Lun. | 32. | 23 | 32. | 27 | 7. | 14 | 10. | 22 | 4. | 32 | 11. | 16 |
| 18 Mar. | 32. | 31 | 32. | 33 | 15. | 16 | 10. | 49 | 5. | 22 | 0. | 32 V |
| 19 Mer. | 32. | 35 | 32. | 37 | 18. | 25 | 11. | 24 | 6. | 15 | 1. | 42 |
| 20 Jov. | 32. | 37 | 32. | 37 | 22. | 30 | | * M * | 7. | 11 | 3. | 7 |
| 21 Ven. | 32. | 35 | 32. | 33 | 25. | 8 | 0. | 8 | 2. | 9 | 4. | 17 |
| 22 Sat. | 32. | 29 | 32. | 25 | 26. | 0 | 1. | 0 | 9. | 10 | 5. | 20 |
| 23 Dom. | 32. | 19 | 32. | 11 | 25. | 4 | 2. | 4 | 10. | 11 | 6. | 13 |
| 24 Lun. | 32. | 3 | 31. | 54 | 28. | 26 | 3. | 15 | 11. | 10 | 6. | 58 |
| 25 Mar. | 31. | 45 | 31. | 34 | 18. | 19 | 4. | 28 | 0. | 5 V | 7. | 31 |
| 26 Mer. | 31. | 43 | 31. | 11 | 13. | 27 | 5. | 43 | 0. | 56 | 7. | 56 |
| 27 Jov. | 31. | 0 | 30. | 49 | 8. | 0 | 6. | 53 | 1. | 42 | 8. | 19 |
| 28 Ven. | 30. | 39 | 30. | 29 | 2. | 20 | 8. | 1 | 2. | 26 | 8. | 38 |
| 29 Sat. | 30. | 19 | 30. | 11 | 3. | 18 A | 9. | 8 | 3. | 8 | 8. | 58 |
| 30 Dom. | 30. | 3 | 29. | 57 | 8. | 43 | 10. | 12 | 3. | 50 | 9. | 16 |
| 31 Lun. | 29. | 52 | 29. | 49 | 15. | 37 | 11. | 16 | 4. | 32 | 9. | 38 |

| Dies men. | Longitudo Planeta- rum | Ordo Planeta- rum | Distans- tio Pla- netarum | Ortus Planeta- rum | Transit. Planet. per Me- ridianum | Occasus Planeta- rum |
|----------------------------|------------------------------|-------------------------|---------------------------------|--------------------------|--|----------------------------|
| | S. G. M. | G. M. | G. M. | H. M. | H. M. | H. M. |
| U R A N U S . | | | | | | |
| 1 | 3. 20. 31 | 0. 27 B | 22. 25 B | 5. 5M | 0. 47 V | 8. 29 V |
| 16 | 3. 21. 26 | 0. 27 | 22. 13 | 4. 7 | 11. 49M | 7. 13 |
| S A T U R N U S . | | | | | | |
| 1 | 10. 16. 8 | 0. 58 A | 16. 57 A | 9. 40 V | 2. 31M | 7. 20M |
| 7 | 10. 15. 49 | 0. 59 | 17. 3 | 9. 14 | 2. 5 | 6. 56 |
| 13 | 10. 15. 27 | 1. 0 | 17. 14 | 8. 50 | 1. 40 | 6. 30 |
| 19 | 10. 15. 5 | 1. 1 | 17. 18 | 8. 25 | 1. 14 | 6. 3 |
| 25 | 10. 14. 39 | 1. 1 | 17. 26 | 8. 0 | 0. 49 | 5. 38 |
| J U P I T E R . | | | | | | |
| 1 | 1. 14. 15 | 1. 5 A | 15. 9 A | 0. 58M | 8. 5M | 3. 12M |
| 7 | 1. 15. 17 | 1. 5 | 15. 24 | 0. 37 | 7. 45 | 2. 53 |
| 13 | 1. 16. 17 | 1. 6 | 15. 40 | 0. 16 | 7. 25 | 2. 34 |
| 19 | 1. 17. 13 | 1. 7 | 15. 55 | 11. 54 V | 7. 4 | 2. 14 |
| 25 | 1. 18. 3 | 1. 8 | 16. 9 | 11. 33 | 6. 44 | 1. 55 |
| M A R S . | | | | | | |
| 1 | 4. 21. 34 | 1. 12 B | 15. 27 B | 7. 46M | 2. 55 V | 10. 4V |
| 7 | 4. 25. 14 | 1. 9 | 14. 12 | 7. 42 | 2. 45 | 9. 48 |
| 13 | 4. 28. 55 | 1. 6 | 12. 54 | 7. 37 | 2. 34 | 9. 31 |
| 19 | 5. 2. 36 | 1. 3 | 11. 32 | 7. 33 | 2. 24 | 9. 15 |
| 25 | 5. 6. 20 | 1. 0 | 10. 8 | 7. 29 | 2. 14 | 8. 59 |
| V E N U S . | | | | | | |
| 1 | 4. 6. 9 | 1. 40 B | 20. 21 B | 6. 22M | 1. 54 V | 9. 26 V |
| 7 | 4. 13. 24 | 1. 40 | 18. 25 | 6. 37 | 1. 59 | 9. 21 |
| 13 | 4. 20. 38 | 1. 38 | 16. 11 | 6. 51 | 2. 3 | 9. 15 |
| 19 | 4. 27. 51 | 1. 33 | 13. 42 | 7. 6 | 2. 7 | 9. 8 |
| 25 | 5. 5. 2 | 1. 25 | 11. 0 | 7. 21 | 2. 10 | 8. 59 |
| M E R C U R I U S . | | | | | | |
| 1 | 3. 8. 53 | 1. 16 B | 24. 26 B | 4. 8M | 0. 2 V | 7. 56 V |
| 7 | 3. 21. 42 | 1. 45 | 23. 27 | 4. 40 | 0. 25 | 8. 16 |
| 13 | 4. 3. 42 | 1. 48 | 21. 6 | 5. 19 | 0. 55 | 8. 31 |
| 19 | 4. 14. 39 | 1. 29 | 17. 53 | 5. 55 | 1. 15 | 8. 35 |
| 25 | 4. 24. 31 | 0. 53 | 14. 12 | 6. 26 | 1. 29 | 8. 32 |

ECLIPSES SATELLITUM JOVIS.

| Dies mensis | I. Satelles . | | | Dies | II. Satelles | | | Dies | III. Satelles . | | | | |
|-------------|---------------|-----|-----|------|--------------|-----|-----|------|-----------------|----------------|-----|-----|------|
| | Immerfiones | | | | Imm. Emerf. | | | | Imerf. Emerf. | | | | |
| | H. | M. | S. | | H. | M. | S. | | H. | M. | S. | | |
| 1 | 1. | 15. | 5. | 2 | 10. | 19. | 6. | I | 7 | 1. | 57. | 33. | I |
| 2 | 19. | 43. | 15. | 5 | 23. | 37. | 0. | I | 7 | 3. | 36. | 45. | E |
| 4 | 14.* | 11. | 26. | 9 | 12. | 54. | 39. | I | 14 | 5. | 57. | 6. | I |
| 6 | 8. | 39. | 39. | 9 | 15.* | 21. | 1. | E | 14 | 7. | 36. | 0. | E |
| 8 | 3. | 7. | 53. | 13 | 2. | 12. | 24. | I | 21 | 10. | 6. | 58. | I |
| 9 | 21. | 36. | 7. | 13 | 4. | 38. | 47. | E | 21 | 11. | 35. | 34. | E |
| 11 | 16. | 4. | 20. | 16 | 15.* | 30. | 16. | I | 23 | 13. | 57. | 17. | I |
| 13 | 10. | 32. | 34. | 16 | 17. | 56. | 41. | E | 28 | 15. | 35. | 35. | E |
| 15 | 5. | 0. | 50. | 20 | 4. | 48. | 17. | I | | | | | |
| 16 | 23. | 29. | 8. | 20 | 7. | 14. | 44. | E | | | | | |
| 18 | 17. | 57. | 27. | 23 | 18. | 6. | 27. | I | | | | | |
| 20 | 12. | 25. | 48. | 23 | 20. | 32. | 55. | E | Dies | IV. Satelles . | | | |
| 22 | 6. | 54. | 11. | 27 | 7. | 24. | 46. | I | Conjunctiones. | | | | |
| 24 | 1. | 22. | 35. | 27 | 9. | 51. | 14. | E | | | | | |
| 26 | 19. | 51. | 0. | 30 | 20. | 43. | 15. | I | 9 | 13. | 12. | 24. | sup. |
| 27 | 14.* | 19. | 26. | 30 | 23. | 9. | 44. | E | 17 | 10. | 18. | 24. | inf. |
| 29 | 8. | 37. | 54. | | | | | | 25 | 8. | 31. | 24. | sup. |
| 31 | 3. | 16. | 23. | | | | | | | | | | |

| Dies | Diameter Solis | Mora transitus Solis per Meridian. | Motus horarius Solis | Logarithmus distantie Solis a terra posita media 10000. | Longitudo Nodi Lunae |
|------|----------------|------------------------------------|----------------------|---|----------------------|
| | M. S. | M. S. | M. S. | | S. G. M. |
| 1 | 31. 31,0 | 2. 17, 0 | 2. 23, 0 | 5.007245. | 9. 24. 22 |
| 4 | 31. 31,1 | 2. 16, 8 | 2. 23, 0 | 5.007222. | 9. 24. 12 |
| 7 | 31. 31,2 | 2. 16, 6 | 2. 23, 0 | 5.007181. | 9. 24. 3 |
| 10 | 31. 31,4 | 2. 16, 2 | 2. 23, 1 | 5.007130. | 9. 23. 53 |
| 13 | 31. 31,7 | 2. 15, 8 | 2. 23, 1 | 5.007065. | 9. 23. 44 |
| 16 | 31. 32,0 | 2. 15, 4 | 2. 23, 1 | 5.006986. | 9. 23. 34 |
| 19 | 31. 32,4 | 2. 15, 0 | 2. 23, 2 | 5.006893. | 9. 23. 25 |
| 22 | 31. 33,0 | 2. 14, 5 | 2. 23, 3 | 5.006782. | 9. 23. 15 |
| 25 | 31. 33,6 | 2. 14, 0 | 2. 23, 4 | 5.006645. | 9. 23. 6 |
| 28 | 31. 34,3 | 2. 13, 5 | 2. 23, 5 | 5.006486. | 9. 22. 57 |

POSITIONES SATELLITUM JOVIS

| | Oriens | 3. ^h Mane | Occidens |
|----|--------|----------------------|-------------|
| 1 | | 1. 2 | 0 . 4. 1 |
| 2 | | 1. 1 | 0 . 2 4. |
| 3 | 20 | . 3 | 0 1. 4. |
| 4 | | . 2 1♄ | 0 4. |
| 5 | 10 | | 0 . 2 3. 4. |
| 6 | 1. 0 | | 0 2. 3. 4. |
| 7 | | 2. 1. | 0 3. 4. |
| 8 | | 2. | 0 1. 4. |
| 9 | 4♄ | 3. 1. | 0 2. 4. |
| 10 | 20 | . 4. | 0 1. |
| 11 | 4. | . 3 1♄ | 0 |
| 12 | . 4 | | 0 2♄ 1. 1 |
| 13 | 4. | . 1 | 0 . 2 . 3 |
| 14 | . 4 | . 2 1. | 0 3. |
| 15 | 4. | . 2 3. | 0 . 1 |
| 16 | | . 4. 3 1. | 0 . 2 |
| 17 | | 3. . 4 | 0 2. 1 |
| 18 | | 2. . 3. 1 | 0 . 4 |
| 19 | 2. 0 | | 0 1. 3 4. |
| 20 | | . 1 | 0 2. . 3 4. |
| 21 | 20 | 1. | 0 3. 4. |
| 22 | 10 | . 2 | 0 1. 4. |
| 23 | | . 3 1. | 0 2. 4. |
| 24 | | 3. 1. | 0 2. 1 4. |
| 25 | | 2. 1♄ 3 | 0 4. |
| 26 | | 4♄ 2 | 0 1♄ 3. 0 |
| 27 | | . 1 | 0 . 2 . 3 |
| 28 | . 4 | . 2 | 0 3. 10 |
| 29 | 4. | 2. 1. | 0 . 1 10 |
| 30 | 4. | 3. 1. | 0 . 2 |
| 31 | . 4 | 3. | 0 3♄ 1 |

| Phenomena & Observationes Solis | | Phenomena & Observationes Lunae | |
|--------------------------------------|--|---|--|
| Sol in parallelo | | Luna | |
| 6 | θ Leonis, γ Geminor. & γ Serp. culm. 1 ^h 54', 21 ^h 14' & 6 ^h 37' | 1 | Primus quadrans 1 ^h 56' |
| 7 | β Serpent. & α Tauri culm. 6 ^h 19' & 19 ^h 8' | 2 | Apogea ad 88. Librae 6 ^h 56' |
| 8 | β Leonis culm. 3 ^h 22' | 3 | ad π, σ, & α Scorpi. 8 ^h 23', 18 ^h 6', 22 ^h 0' |
| 10 | γ Delphini culm. 11 ^h 11' | 6 | ad λ Sagittarii 1 ^h 51' |
| 11 | α Delphini & γ Tauri culm. 11 ^h 0' & 18 ^h 37' | 9 | Plenilunium 10 ^h 22' |
| 12 | ε Aquilae, ζ Bootis & α Herc. culm. 9 ^h 17', 4 ^h 58' & 7 ^h 32' | 10 | ad θ & φ Aquarii 8 ^h 56' & 10 ^h 16' |
| 13 | δ Delphini culm. 10 ^h 57' | 14 | ad η Piscium 3 ^h 19' |
| 14 | α & γ Pegasi, ζ & β Delphini culm. 11 ^h 14', 14 ^h 22', 10 ^h 45' & 10 ^h 47' | 15 | Perigea . . . ad ε Arietis 1 ^h 33' |
| 17 | α Leonis culm. 0 ^h 7' | 16 | Ultimus quadrans 5 ^h 43' |
| 18 | α Ophiuci culm. 7 ^h 31' | 16 | ad η Tauri 11 ^h 7' |
| 20 | ε Virginis culm. 2 ^h 51' | 18 | ad 125 & 132 Taur. 6 ^h 41' & 10 ^h 15' |
| 22 | in signo Virginis 14 ^h , 16 ^h | 19 | ad ε Geminorum 7 ^h 56' |
| 23 | δ Serpentis culm. 5 ^h 13' | 23 | Novilunium 9 ^h 0' |
| 25 | ε Delphini culm. 10 ^h 1' | 25 | ad Mercurii 4 ^h 24' |
| 26 | γ Aquilae, β Cancri, ζ Pegasi 9 ^h 13', 21 ^h 39' & 12 ^h 6' | 29 | Apogea |
| 30 | ε Pegasi & β Canis 10 ^h 54', & 20 ^h 35' | 31 | ad α Scorpii Imm. 5 ^h 12' dist. 1' Em. 6 ^h 36' |
| 31 | α Aquilae culm. 8 ^h 55' | | Planetæ in parallelis fixurum. Uran. p & 104. Gemin. & 2. μ Canc. Saturn. γ Capri, β Can. maj & Lep. Jupiter β & γ Serpentis. γ Geminorum, θ Leonis, δ Tauri. Mars 1. β Can. min. α Aquil. α Orionis, α Serp. 7. ξ Hydr. γ Orion 12. β Aquil. Proc. ε Serp. β Ophiuci, δ Virg. 20. θ Serp. α Ceti, β Virg. γ Ophiuci, δ Aquilae, γ Ceti, γ Piscium, η Antinoi. |
| Phenomena & Observationes Planetarum | | Venus 1. α Orionis, α Serp. ξ Hydr. γ Orion β Aquil. Proc. ε Serp. β Ophiuci, θ Serp. α Ceti, β Virg γ Ophiuci, δ Antinoi; 16. γ Virg δ & ε Orion. δ Ceti, α Aquar. γ & 1 Antin. 2. & η Orion. γ Aquar. μ 2. η Serpen. δ & ε Ophiuc. λ Antinoi, β Eridani, β & φ Aquarii. | |
| 2 | Mars α Leonis diff. lat. 24' | Mercur. 2. ε Pegasi, β Canis min. α Aquilae, α Orionis, α Serpen. ξ Hydr. γ Orion. 8. β Aquil Proc. ε Serp. β Ophiuci, θ Serp. α Ceti; 13 γ Ophiuci, δ Aquilae, γ Ceti. γ & α Pisc. η, ε Virg. η Ant. 20. δ Orion. δ Ceti, α Aquar. γ & 1 Ant. 2. Orion. | |
| 3 | Venus ad σ Leonis diff. lat. 33' | | |
| 5 | Oppositio Saturni. | | |
| 8 | Saturnus ad 31. Capri diff. lat. 36' | | |
| 9 | Mars ad γ Leonis diff. lat. 50' | | |
| 10 | Venus ad β Virginis diff. lat. 10' | | |
| 10 | Mercur. in elongatione maxima | | |
| 13 | Mercur. ad 79. Leonis diff. lat. 7' | | |
| 16 | Venus ad η Virginis diff. lat. 49' | | |
| 19 | Mercur. ad υ Leonis diff. lat. 10' | | |
| 22 | Mars ad β Virginis diff. lat. 4' | | |
| 25 | Mercurius Stationarius. | | |

| Dies mensis | Dies hebdomadae | Æquatio addenda tempori vero ut habeatur medium | | Differrentia | Longitudo Solis | | | | Ascensio recta Solis | | | Declinatio Solis Australis | | |
|-------------|-----------------|---|-------|--------------|-----------------|-----|-----|----|----------------------|-----|----|----------------------------|-----|----|
| | | M. | S. | | S. | S. | G. | M. | S. | G. | M. | S. | G. | M. | S. |
| 1 | Mar | + 5. | 53. 1 | 3, 2 | 4. | 9 | 14. | 58 | 131. | 41. | 29 | 17. | 57. | 46 |
| 2 | Mer | 5. | 49. 3 | 3, 8 | 4. | 10. | 12. | 26 | 132. | 39. | 39 | 17. | 43. | 24 |
| 3 | Jov. | 5. | 44. 8 | 4, 5 | 4. | 11. | 9. | 54 | 133. | 37. | 40 | 17. | 26. | 35 |
| 4 | Ven. | 5. | 39. 7 | 5, 1 | 4. | 12. | 7. | 23 | 134. | 35. | 31 | 17. | 10. | 49 |
| 5 | Sat. | 5. | 33. 9 | 5, 8 | 4. | 13. | 4. | 52 | 135. | 33. | 12 | 16. | 54. | 36 |
| | | | | 6, 4 | | | | | | | | | | |
| 6 | Dom | 5. | 27. 4 | 7, 0 | 4. | 14. | 2. | 22 | 136. | 30. | 44 | 16. | 38. | 7 |
| 7 | Lun | 5. | 20. 8 | 7, 7 | 4. | 14. | 59. | 53 | 137. | 28. | 7 | 16. | 21. | 22 |
| 8 | Mar | 5. | 12. 8 | 8, 2 | 4. | 15. | 57. | 25 | 138. | 25. | 21 | 16. | 4. | 22 |
| 9 | Mer | 5. | 4. 6 | 8, 7 | 4. | 16. | 54. | 58 | 139. | 22. | 27 | 15. | 47. | 6 |
| 10 | Jov | 4. | 55. 9 | 9, 2 | 4. | 17. | 52. | 33 | 140. | 19. | 24 | 15. | 29. | 34 |
| | | | | 9, 8 | | | | | | | | | | |
| 11 | Ven | 4. | 46. 7 | 10, 4 | 4. | 18. | 50. | 9 | 141. | 16. | 13 | 15. | 11. | 47 |
| 12 | Sat. | 4. | 36. 5 | 10, 9 | 4. | 19. | 47. | 47 | 142. | 12. | 54 | 14. | 53. | 46 |
| 13 | Dom | 4. | 26. 5 | 10, 9 | 4. | 20. | 45. | 26 | 143. | 9. | 27 | 14. | 35. | 30 |
| 14 | Lun | 4. | 15. 6 | 11, 4 | 4. | 21. | 43. | 7 | 144. | 5. | 52 | 14. | 17. | 0 |
| 15 | Mar | 4. | 4. 2 | 11, 8 | 4. | 22. | 40. | 49 | 145. | 2. | 9 | 13. | 58. | 17 |
| | | | | 12, 3 | | | | | | | | | | |
| 16 | Mer | 3. | 57. 4 | 12, 3 | 4. | 23. | 38. | 33 | 145. | 58. | 18 | 12. | 39. | 20 |
| 17 | Jov. | 3. | 40. 1 | 12, 8 | 4. | 24. | 36. | 19 | 146. | 54. | 20 | 13. | 30. | 10 |
| 18 | Ven. | 3. | 27. 3 | 13, 3 | 4. | 25. | 34. | 7 | 147. | 50. | 15 | 13. | 0. | 47 |
| 19 | Sat. | 3. | 14. 0 | 13, 8 | 4. | 26. | 31. | 56 | 148. | 46. | 3 | 12. | 41. | 11 |
| 20 | Dom | 3. | 0. 2 | 14, 3 | 4. | 27. | 29. | 47 | 149. | 41. | 44 | 12. | 21. | 23 |
| | | | | 14, 7 | | | | | | | | | | |
| 21 | Lun. | 2. | 45. 9 | 15, 2 | 4. | 28. | 27. | 40 | 150. | 37. | 18 | 12. | 1. | 24 |
| 22 | Mar | 2. | 31. 2 | 15, 6 | 4. | 29. | 25. | 34 | 151. | 32. | 46 | 11. | 41. | 13 |
| 23 | Mer | 2. | 16. 0 | 15, 6 | 5. | 0. | 23. | 30 | 152. | 28. | 7 | 11. | 20. | 5 |
| 24 | Jov. | 2. | 0. 4 | 16, 0 | 5. | 1. | 21. | 27 | 153. | 23. | 21 | 11. | 0. | 18 |
| 25 | Ven | 1. | 44. 4 | 16, 4 | 5. | 2. | 19. | 26 | 154. | 18. | 28 | 10. | 39. | 34 |
| | | | | 16, 7 | | | | | | | | | | |
| 26 | Sat. | 1. | 28. 0 | 17, 1 | 5. | 3. | 17. | 26 | 155. | 13. | 29 | 10. | 18. | 49 |
| 27 | Dom | 1. | 11. 3 | 17, 6 | 5. | 4. | 15. | 27 | 156. | 8. | 25 | 9. | 57. | 37 |
| 28 | Lun. | 0. | 54. 2 | 18, 0 | 5. | 5. | 13. | 30 | 157. | 3. | 15 | 9. | 26. | 24 |
| 29 | Mar | 0. | 36. 6 | 18, 0 | 5. | 6. | 11. | 34 | 157. | 57. | 59 | 9. | 15. | 2 |
| 30 | Mer | 0. | 18. 6 | 18, 3 | 5. | 7. | 9. | 39 | 158. | 52. | 37 | 8. | 53. | 31 |
| 31 | Jov. | 0. | 0. 3 | 18, 6 | 5. | 8. | 7. | 45 | 159. | 47. | 10 | 8. | 31. | 52 |

| Dies mensis | Dies hebdomadae | Distantia sectionis a Sole | | | Differrentia | Injunctium Crepusculi | Ortus Centri Solis | Occasus Centri Solis | Finis Crepusculi | Hora Italica Meridiei | |
|-------------|-----------------|----------------------------|-----|------|--------------|-----------------------|--------------------|----------------------|------------------|-----------------------|----|
| | | H. | M. | S. | | | | | | M. | S. | H. | M. |
| 1 | Mar. | 15. | 13. | 14,0 | | 2. 30 | 4. 30 | 7. 20 | 9. 30 | 15. | 47 |
| 2 | Mer. | 15. | 9. | 21,4 | 3. 52,6 | 2. 32 | 4. 42 | 7. 18 | 9. 28 | 15. | 49 |
| 3 | Jov. | 15. | 5. | 29,3 | 3. 52,1 | 2. 34 | 4. 43 | 7. 17 | 9. 26 | 15. | 50 |
| 4 | Ven. | 15. | 1. | 37,9 | 3. 54,4 | 2. 36 | 4. 44 | 7. 16 | 9. 24 | 15. | 51 |
| 5 | Sat. | 14. | 57. | 47,2 | 3. 50,7 | 2. 38 | 4. 45 | 7. 15 | 9. 22 | 15. | 53 |
| 6 | Dom. | 14. | 53. | 57,1 | 3. 49,5 | 2. 41 | 4. 46 | 7. 14 | 9. 19 | 15. | 54 |
| 7 | Lun. | 14. | 50. | 7,6 | 3. 49,0 | 2. 43 | 4. 48 | 7. 12 | 9. 17 | 15. | 56 |
| 8 | Mar. | 14. | 46. | 18,6 | 3. 48,4 | 2. 45 | 4. 49 | 7. 11 | 9. 15 | 15. | 57 |
| 9 | Mer. | 14. | 42. | 30,2 | 3. 47,8 | 2. 47 | 4. 50 | 7. 10 | 9. 13 | 15. | 59 |
| 10 | Jov. | 14. | 38. | 42,4 | 3. 47,3 | 2. 49 | 4. 52 | 7. 8 | 9. 11 | 16. | 1 |
| 11 | Ven. | 14. | 34. | 55,1 | 3. 46,7 | 2. 52 | 4. 53 | 7. 7 | 9. 8 | 16. | 3 |
| 12 | Sat. | 14. | 31. | 8,4 | 3. 46,1 | 2. 54 | 4. 55 | 7. 5 | 9. 6 | 16. | 5 |
| 13 | Dom. | 14. | 27. | 22,2 | 3. 45,7 | 2. 56 | 4. 56 | 7. 4 | 9. 4 | 16. | 7 |
| 14 | Lun. | 14. | 23. | 36,5 | 3. 45,1 | 2. 58 | 4. 58 | 7. 2 | 9. 2 | 16. | 9 |
| 15 | Mar. | 14. | 19. | 51,4 | 3. 44,6 | 2. 0 | 4. 59 | 7. 1 | 9. 0 | 16. | 10 |
| 16 | Mer. | 14. | 16. | 6,8 | 3. 44,1 | 3. 2 | 5. 0 | 7. 0 | 8. 58 | 16. | 12 |
| 17 | Jov. | 14. | 12. | 22,7 | 3. 43,7 | 3. 4 | 5. 1 | 6. 59 | 8. 56 | 16. | 14 |
| 18 | Ven. | 14. | 8. | 39,0 | 3. 43,2 | 3. 6 | 5. 3 | 6. 57 | 8. 54 | 16. | 16 |
| 19 | Sat. | 14. | 4. | 55,8 | 3. 42,7 | 3. 8 | 5. 4 | 6. 56 | 8. 52 | 16. | 18 |
| 20 | Dom. | 14. | 1. | 13,1 | 3. 42,3 | 3. 10 | 5. 5 | 6. 55 | 8. 50 | 16. | 20 |
| 21 | Lun. | 13. | 57. | 30,8 | 3. 41,9 | 3. 13 | 5. 7 | 6. 53 | 8. 47 | 16. | 22 |
| 22 | Mar. | 13. | 53. | 48,9 | 3. 41,4 | 3. 15 | 5. 8 | 6. 52 | 8. 45 | 16. | 24 |
| 23 | Mer. | 13. | 50. | 7,5 | 3. 40,9 | 3. 17 | 5. 10 | 6. 50 | 8. 43 | 16. | 26 |
| 24 | Jov. | 13. | 46. | 26,6 | 3. 40,5 | 3. 19 | 5. 11 | 6. 49 | 8. 41 | 16. | 28 |
| 25 | Ven. | 13. | 42. | 46,1 | 3. 40,1 | 3. 21 | 5. 13 | 6. 47 | 8. 39 | 16. | 30 |
| 26 | Sat. | 13. | 39. | 6,0 | 3. 39,7 | 3. 23 | 5. 14 | 6. 46 | 8. 37 | 16. | 32 |
| 27 | Dom. | 13. | 35. | 26,3 | 3. 39,3 | 3. 25 | 5. 16 | 6. 44 | 8. 35 | 16. | 34 |
| 28 | Lun. | 13. | 31. | 47,0 | 3. 38,9 | 3. 27 | 5. 17 | 6. 43 | 8. 33 | 16. | 35 |
| 29 | Mar. | 13. | 28. | 8,1 | 3. 38,5 | 3. 29 | 5. 19 | 6. 41 | 8. 31 | 16. | 37 |
| 30 | Mer. | 13. | 24. | 29,6 | 3. 38,2 | 3. 31 | 5. 21 | 6. 39 | 8. 29 | 16. | 39 |
| 31 | Jov. | 13. | 20. | 51,4 | 3. 37,9 | 3. 33 | 5. 22 | 6. 38 | 8. 27 | 16. | 41 |

| Dies mensis | Dies hebdomadae | Longitudo Lunae Meridie | | | Longitudo Lunae media nocte | | | Latitudo Lunae Meridie | | | Latitudo Lunae med. noct. | | | Paral- laxis Lunae Meridie | | Paral- laxis Lunae media nocte | |
|-------------|-----------------|-------------------------|-----|--------|-----------------------------|-----|--------|------------------------|-------|------|---------------------------|---------|--------|-------------------------------|--------|-----------------------------------|--|
| | | S. | G. | M. S. | S. | G. | M. S. | G. | M. S. | G. | M. S. | G. | M. S. | M. S. | M. S. | | |
| 1 | Mar | 7. | 2. | 0. 20 | 7. | 7. | 56. 46 | 5. | 12. | 21 A | 5. | 5. | 52 A | 54. 17 | 54. 16 | | |
| 2 | Mer | 7. | 13. | 53. 3 | 7. | 19. | 49. 46 | 4. | 56. | 8 | 4. | 43. 12 | 54. 16 | 54. 20 | | | |
| 3 | Jov. | 7. | 25. | 47. 22 | 8. | 1. | 46. 27 | 4. | 27. | 10 | 4. | 8. 10 | 54. 25 | 54. 34 | | | |
| 4 | Ven. | 8. | 7. | 47. 28 | 8. | 13. | 51. 13 | 3. | 46. | 20 | 3. | 21. 51 | 54. 45 | 54. 57 | | | |
| 5 | Sat. | 8. | 19. | 57. 47 | 8. | 26. | 8. 11 | 2. | 54. | 51 | 2. | 25. 34 | 55. 12 | 55. 29 | | | |
| 6 | Dom | 9. | 2. | 22. 29 | 9. | 8. | 41. 6 | 1. | 54. | 14 | 1. | 21. 10 | 55. 47 | 56. 6 | | | |
| 7 | Lun. | 9. | 15. | 4. 23 | 9. | 21. | 32. 33 | 0. | 46. | 42 | 0. | 11. 14 | 56. 26 | 56. 47 | | | |
| 8 | Mar | 9. | 28. | 5. 38 | 10. | 4. | 43. 42 | 0. | 24. | 49 B | 1. | 0. 56 B | 57. 7 | 57. 28 | | | |
| 9 | Mer | 10. | 11. | 26. 42 | 10. | 18. | 14. 27 | 1. | 36. | 41 | 2. | 11. 27 | 57. 48 | 58. 6 | | | |
| 10 | Jov. | 10. | 25. | 6. 44 | 11. | 2. | 3. 10 | 2. | 44. | 39 | 3. | 15. 40 | 58. 23 | 58. 39 | | | |
| 11 | Ven. | 11. | 9. | 3. 15 | 11. | 16. | 6. 33 | 3. | 44. | 7 | 4. | 9. 22 | 58. 53 | 59. 4 | | | |
| 12 | Sat. | 11. | 23. | 12. 27 | 0. | 0. | 20. 20 | 4. | 30. | 55 | 4. | 48. 21 | 59. 14 | 59. 21 | | | |
| 13 | Dom | 0. | 7. | 29. 48 | 0. | 14. | 40. 11 | 5. | 1. | 16 | 5. | 9. 29 | 59. 26 | 59. 38 | | | |
| 14 | Lun. | 0. | 21. | 50. 47 | 0. | 29. | 1. 7 | 5. | 12. | 54 | 5. | 11. 28 | 59. 30 | 59. 39 | | | |
| 15 | Mar | 1. | 6. | 10. 46 | 1. | 13. | 19. 22 | 5. | 5. | 9 | 4. | 54. 7 | 59. 28 | 59. 35 | | | |
| 16 | Mer | 1. | 20. | 26. 28 | 1. | 27. | 31. 50 | 4. | 38. | 36 | 4. | 18. 52 | 59. 19 | 59. 27 | | | |
| 17 | Jov. | 2. | 4. | 35. 12 | 2. | 11. | 36. 25 | 3. | 55. | 19 | 3. | 28. 21 | 59. 5 | 59. 57 | | | |
| 18 | Ven. | 2. | 18. | 35. 21 | 2. | 25. | 31. 52 | 2. | 58. | 23 | 2. | 25. 58 | 58. 48 | 58. 38 | | | |
| 19 | Sat. | 3. | 2. | 25. 48 | 3. | 9. | 17. 5 | 1. | 51. | 36 | 1. | 15. 51 | 58. 27 | 58. 15 | | | |
| 20 | Dom | 3. | 16. | 5. 39 | 3. | 22. | 51. 25 | 0. | 39. | 20 | 0. | 2. 32 | 58. 2 | 57. 44 | | | |
| 21 | Lun. | 2. | 29. | 34. 18 | 4. | 6. | 14. 12 | 0. | 34. | 2 A | 1. | 9. 51 A | 57. 34 | 57. 19 | | | |
| 22 | Mar | 4. | 12. | 51. 3 | 4. | 19. | 24. 44 | 1. | 44. | 24 | 2. | 17. 14 | 57. 4 | 56. 47 | | | |
| 23 | Mer | 4. | 25. | 55. 8 | 5. | 2. | 22. 12 | 2. | 47. | 57 | 3. | 16. 13 | 56. 32 | 56. 15 | | | |
| 24 | Jov. | 5. | 8. | 45. 56 | 5. | 15. | 6. 13 | 3. | 41. | 44 | 4. | 4. 15 | 55. 59 | 55. 42 | | | |
| 25 | Ven. | 5. | 21. | 23. 11 | 5. | 27. | 36. 53 | 4. | 23. | 34 | 4. | 39. 33 | 55. 28 | 55. 14 | | | |
| 26 | Sat. | 6. | 3. | 47. 19 | 6. | 9. | 54. 41 | 4. | 52. | 6 | 5. | 1. 12 | 55. 0 | 54. 47 | | | |
| 27 | Dom | 6. | 15. | 59. 19 | 6. | 22. | 1. 28 | 5. | 6. | 47 | 5. | 8. 54 | 55. 39 | 54. 28 | | | |
| 28 | Lun. | 6. | 28. | 1. 20 | 7. | 3. | 59. 28 | 5. | 7. | 37 | 5. | 2. 59 | 54. 20 | 54. 19 | | | |
| 29 | Mar | 7. | 9. | 56. 4 | 7. | 15. | 51. 55 | 4. | 55. | 6 | 4. | 44. 3 | 54. 12 | 54. 14 | | | |
| 30 | Mer | 7. | 21. | 47. 23 | 7. | 27. | 43. 5 | 3. | 29. | 59 | 4. | 13. 1 | 54. 13 | 54. 17 | | | |
| 31 | Jov. | 8. | 3. | 39. 35 | 8. | 9. | 37. 32 | 3. | 53. | 14 | 3. | 50. 49 | 54. 24 | 54. 24 | | | |

| Dies hebdomadae Dies mensis | Diameter horiz. Lunae Meridie | | horiz. Lunae media nocte | | Declinatio Lunae in Meridia- no | | Ortus Lunae | | Transitus Lunae per Meridia- num | | Occasus Lunae | |
|--------------------------------|--|----|-----------------------------------|----|---|------|----------------|-------|--|------|------------------|-------|
| | M. | S. | M. | S. | G. | M. | H. | M. | H. | M. | H. | M. |
| 1 Mar | 29. | 46 | 29. | 45 | 17. | 54 A | 0. | 22 V | 5. | 16 V | 10. | 0 V |
| 2 Mer | 29. | 45 | 29. | 48 | 21. | 32 | 1. | 28 | 6. | 2 | 10. | 28 |
| 3 Jov. | 29. | 51 | 29. | 55 | 24. | 10 | 2. | 30 | 6. | 50 | 11. | 6 |
| 4 Ven. | 30. | 1 | 30. | 8 | 25. | 41 | 3. | 27 | 7. | 39 | 11. | 48 |
| 5 Sat. | 30. | 16 | 30. | 25 | 25. | 55 | 4. | 22 | 8. | 30 | | * M * |
| 6 Dom | 30. | 35 | 30. | 46 | 24. | 44 | 5. | 9 | 9. | 23 | 0. | 40 |
| 7 Lun. | 30. | 57 | 31. | 9 | 22. | 11 | 5. | 52 | 10. | 17 | 1. | 42 |
| 8 Mar | 31. | 20 | 31. | 31 | 18. | 17 | 6. | 27 | 11. | 9 | 2. | 50 |
| 9 Mer | 31. | 42 | 31. | 52 | * | * | 6. | 54 | * M * | | 4. | 1 |
| 10 Jov. | 32. | 1 | 32. | 10 | 13. | 15 | 7. | 31 | 0. | 0 | 5. | 5 |
| 11 Ven. | 32. | 17 | 32. | 23 | 7. | 29 | 7. | 55 | 0. | 50 | 6. | 22 |
| 12 Sat. | 32. | 29 | 32. | 33 | 1. | 14 | 8. | 17 | 1. | 39 | 7. | 37 |
| 13 Dum | 32. | 36 | 32. | 37 | 5. | 9 B | 8. | 42 | 2. | 28 | 8. | 52 |
| 14 Lun. | 32. | 38 | 32. | 37 | 11. | 20 | 9. | 7 | 3. | 19 | 10. | 10 |
| 15 Mar | 32. | 37 | 32. | 35 | 16. | 51 | 9. | 38 | 4. | 12 | 11. | 30 |
| 16 Mer | 32. | 31 | 32. | 28 | 21. | 19 | 10. | 15 | 5. | 8 | 0. | 49 V |
| 17 Jov. | 32. | 24 | 32. | 19 | 24. | 26 | 11. | 2 | 6. | 6 | 2. | 5 |
| 18 Ven. | 32. | 15 | 32. | 9 | 25. | 51 | 11. | 56 | 7. | 6 | 3. | 15 |
| 19 Sat. | 32. | 3 | 31. | 57 | 25. | 31 | | * M * | 8. | 5 | 4. | 11 |
| 20 Dom | 31. | 50 | 31. | 41 | 23. | 29 | 1 | 3 | 9. | 4 | 4. | 57 |
| 21 Lun | 31. | 34 | 31. | 26 | 20. | 4 | 2. | 16 | 10. | 0 | 5. | 34 |
| 22 Mar | 31. | 17 | 31. | 8 | 15. | 32 | 3. | 27 | 10. | 50 | 6. | 2 |
| 23 Mer | 30. | 59 | 30. | 51 | 10. | 23 | 4. | 39 | 11. | 38 | 6. | 25 |
| 24 Jov | 30. | 42 | 30. | 33 | 4. | 47 | 5. | 59 | 0. | 24 V | 6. | 47 |
| 25 Ven | 30. | 25 | 30. | 17 | 0. | 52 A | 6. | 55 | 1. | 7 | 7. | 7 |
| 26 Sat. | 30. | 10 | 30. | 3 | 6. | 21 | 8. | 0 | 1. | 49 | 7. | 28 |
| 27 Dom | 29. | 58 | 29. | 52 | 11. | 21 | 9. | 6 | 2. | 32 | 7. | 46 |
| 28 Lun. | 29. | 48 | 29. | 45 | 16. | 7 | 10. | 12 | 3. | 15 | 8. | 7 |
| 29 Mar | 29. | 43 | 29. | 43 | 19. | 4 | 11. | 10 | 4. | 0 | 8. | 40 |
| 30 Mer | 29. | 44 | 29. | 46 | 23. | 9 | 0. | 19 V | 4. | 48 | 9. | 7 |
| 31 Jov. | 29. | 50 | 29. | 55 | 25. | 8 | 1. | 22 | 5. | 37 | 9. | 48 |

| <i>Dies mens.</i> | <i>Longitudo Planetarum</i> | <i>Latitudo Planetarum</i> | <i>Declinatio Planetarum</i> | <i>Ortus Planetarum</i> | <i>Transit. Planet. per Meridianum</i> | <i>Occasus Planetarum</i> |
|---------------------------|-----------------------------|----------------------------|------------------------------|-------------------------|--|---------------------------|
| | <i>S. G. M.</i> | <i>G. M.</i> | <i>G. M.</i> | <i>H. M.</i> | <i>H. M.</i> | <i>H. M.</i> |
| U R A N U S. | | | | | | |
| 1 | 3. 22. 24 | 0. 28 B | 22. 4 B | 3. 9M | 10. 50M | 6. 31 V |
| 16 | 3. 23. 16 | 0. 28 | 21. 55 | 2. 17 | 9. 57 | 5. 37 |
| S A T U R N U S. | | | | | | |
| 1 | 10. 14. 9 | 1. 2 A | 17. 26 A | 7. 31 V | 0. 19M | 5. 7M |
| 7 | 10. 13. 42 | 1. 3 | 17. 44 | 7. 7 | 11. 55 V | 4. 43 |
| 13 | 10. 13. 15 | 1. 3 | 17. 52 | 6. 43 | 11. 30 | 4. 71 |
| 19 | 10. 12. 49 | 1. 4 | 18. 0 | 6. 19 | 11. 5 | 3. 51 |
| 25 | 10. 12. 24 | 1. 4 | 18. 7 | 5. 55 | 10. 41 | 3. 27 |
| J U P I T E R. | | | | | | |
| 1 | 1. 18. 56 | 1. 9 A | 16. 22 B | 11. 5 V | 6. 18M | 1. 31 V |
| 7 | 1. 19. 36 | 1. 10 | 16. 22 | 10. 44 | 5. 57 | 1. 10 |
| 13 | 1. 20. 10 | 1. 11 | 16. 40 | 10. 23 | 5. 37 | 0. 50 |
| 19 | 1. 20. 38 | 1. 12 | 16. 46 | 10. 2 | 5. 16 | 0. 30 |
| 25 | 1. 20. 59 | 1. 13 | 16. 51 | 9. 41 | 4. 56 | 0. 11 |
| M A R S. | | | | | | |
| 1 | 5. 10. 42 | 0. 57 B | 8. 27 B | 7. 25M | 2. 3 V | 8. 41 V |
| 7 | 5. 14. 28 | 0. 54 | 6. 57 | 7. 22 | 1. 54 | 8. 26 |
| 13 | 5. 18. 16 | 0. 50 | 5. 25 | 7. 20 | 1. 45 | 8. 11 |
| 19 | 5. 22. 5 | 0. 47 | 3. 52 | 7. 18 | 1. 37 | 7. 56 |
| 25 | 5. 25. 5 | 0. 44 | 2. 18 | 7. 16 | 1. 28 | 7. 40 |
| V E N U S. | | | | | | |
| 1 | 5. 13. 24 | 1. 13 B | 7. 40 B | 7. 39M | 2. 14 V | 8. 49 V |
| 7 | 5. 20. 32 | 0. 59 | 4. 39 | 7. 55 | 2. 17 | 8. 39 |
| 13 | 5. 27. 38 | 0. 42 | 1. 35 | 8. 11 | 2. 20 | 8. 29 |
| 19 | 6. 4. 41 | 0. 23 | 1. 30 A | 8. 26 | 2. 23 | 8. 20 |
| 25 | 6. 11. 43 | 0. 3 | 4. 36 | 8. 42 | 2. 26 | 8. 10 |
| M E R C U R I U S. | | | | | | |
| 1 | 5. 4. 40 | 0. 6 A | 9. 43 B | 6. 56M | 1. 39 V | 8. 23 V |
| 7 | 5. 12. 4 | 1. 6 | 6. 2 | 7. 14 | 1. 42 | 8. 10 |
| 13 | 5. 18. 4 | 2. 9 | 2. 44 | 7. 26 | 1. 40 | 7. 54 |
| 19 | 5. 22. 11 | 3. 12 | 0. 9 | 7. 28 | 1. 31 | 7. 34 |
| 25 | 5. 23. 41 | 4. 3 | 1. 12 A | 7. 15 | 1. 13 | 7. 11 |

ECLIPSES SATELLITUM JOVIS.

| Dies mensis | I. Satelles . | | | Dies | II. Satelles | | | Dies | III. Satelles . | | | | |
|-------------|---------------|-----|-----|------|--------------|-----|-----|------|-----------------|----------------|-----|-----|------|
| | Immerfiones | | | | Imm. Emerf. | | | | Imerf. Emerf. | | | | |
| | H. | M. | S. | | H. | M. | S. | | H. | M. | S. | | |
| 1 | 21. | 44. | 55. | 3 | 10. | 1. | 54. | I | 4 | 17. | 58. | 2. | I |
| 3 | 16.* | 17. | 29. | 3 | 12.* | 28. | 27. | E | 4 | 19. | 36. | 2. | E |
| 5 | 10. | 42. | 5. | 6 | 23. | 20. | 41. | I | 11 | 21. | 59. | 13. | I |
| 7 | 5. | 10. | 44. | 7 | 1. | 47. | 16. | E | 11 | 23. | 36. | 59. | E |
| 8 | 23. | 39. | 23 | 10 | 12.* | 39. | 35. | I | 12 | 2. | 0. | 49. | I |
| 10 | 18. | 8. | 2. | 10 | 15.* | 6. | 12. | E | 19 | 3. | 38. | 29. | E |
| 12 | 18.* | 36. | 44. | 14 | 1. | 58. | 37. | I | 26 | 6. | 17. | 47. | I |
| 14 | 7. | 5. | 29. | 14 | 4. | 25. | 15. | E | 26 | 7. | 40. | 21. | E |
| 16 | 1. | 34. | 14. | 17 | 15.* | 17. | 48. | I | | | | | |
| 17 | 20. | 3. | 1. | 17 | 17. | 44. | 26. | E | | | | | |
| 19 | 14.* | 31. | 50. | | Immerfiones | | | | | | | | |
| 21 | 9. | 0. | 39. | 21 | 4. | 57. | 6. | | Dies | IV. Satelles . | | | |
| 23 | 3. | 29. | 31. | 24 | 17. | 56. | 27. | | | Conjunctiones. | | | |
| 24 | 21. | 58. | 25. | 28 | 7. | 15. | 56. | | | | | | |
| 26 | 16.* | 27. | 19. | 31 | 20. | 35. | 33. | | 2 | 17. | 18. | 24. | inf. |
| 28 | 10.* | 56. | 14. | | | | | | 11 | 3. | 12. | 24. | sup. |
| 30 | 5. | 25. | 10. | | | | | | 19 | 11.* | 33. | 24. | inf. |
| 31 | 23. | 54. | 8. | | | | | | 27 | 21. | 3. | 24. | sup. |

| Dies | Diameter Solis | Mora transitus Solis per Meridian. | Motus borarius Solis | Logarithmus distantiae Solis a terra posita media 100000. | Longitudo Nodi Lunae |
|------|----------------|------------------------------------|----------------------|---|----------------------|
| | M. S. | M. S. | M. S. | | S. G. M. |
| 1 | 31. 35,3 | 2. 12, 8 | 2. 23, 6 | 5.006238. | 9. 22. 44 |
| 4 | 31. 36,2 | 2. 12, 3 | 2. 23, 7 | 5.006035. | 9. 22. 34 |
| 7 | 31. 37,1 | 2. 11, 8 | 2. 23, 9 | 5.005820. | 9. 22. 25 |
| 10 | 31. 38,2 | 2. 11, 3 | 2. 24, 1 | 5.005597. | 9. 22. 15 |
| 13 | 31. 39,4 | 2. 10, 8 | 2. 24, 3 | 5.005365. | 9. 22. 6 |
| 16 | 31. 40,6 | 2. 10, 4 | 2. 24, 4 | 5.005120. | 9. 21. 56 |
| 19 | 31. 41,7 | 2. 10, 0 | 2. 24, 6 | 5.004863. | 9. 21. 47 |
| 22 | 31. 42,9 | 2. 9, 6 | 2. 24, 8 | 5.004587. | 9. 21. 37 |
| 25 | 31. 44,1 | 2. 9, 2 | 2. 25, 0 | 5.004293. | 9. 21. 28 |
| 28 | 31. 45,4 | 2. 8, 8 | 2. 25, 2 | 5.003991. | 9. 21. 18 |

POSITIONES SATELLITUM JOVIS

| | Oriens | 3. ^h Mane | Occidens |
|----|--------|----------------------|---------------|
| 1 | .4 | 2♄ 1. | ○ |
| 2 | | .4 .2 | ○ .1 |
| 3 | 4.0 | .1 | ○ .2.3 |
| 4 | | .2 | ○ 1. 4. 3. |
| 5 | 10 | .2 | ○ 3. .4 |
| 6 | | 3. 1. | ○ 2. 4. |
| 7 | | 1. | ○ .1 2. 4. |
| 8 | | .1.1.1. | ○ 4. |
| 9 | 1.0 | .2. | ○ 1. 4. |
| 0 | | .1 | ○ 2♄ 3 4. |
| 1 | 20 | | ○ 4♄ 1 1. |
| 2 | | 2. .4 .1.1 | ○ 3. |
| 3 | | 4. 1. | ○ .2 |
| 4 | .4 | 3. | ○ .1 2. |
| 5 | 4. | 3. .2 1. | ○ |
| 6 | 4. | .2 .1 | ○ .1 |
| 7 | 4. | .1 | ○ .2 .3 |
| 8 | | .4 | ○ 2. 1. 3. |
| 9 | | 2. .4 .1 | ○ 3. |
| 20 | 10 | 3. | ○ 2. 4.0 |
| 21 | | 1. | ○ .1 2. .4 |
| 22 | | .3 .2 1. | ○ .4 |
| 23 | | .2 .3 | ○ .1 .4 |
| 24 | | 1. | ○ 3♄ 3 4. |
| 25 | | | ○ 2. 1. .1 4. |
| 26 | | 2. 1. | ○ 3. 4. |
| 27 | 1.0 | 3. | ○ 1. 4. |
| 28 | | .2 | ○ 4. 2. 1.0 |
| 29 | | .3 4. 2. 1. | ○ |
| 30 | | .2.3. | ○ .1 |
| 31 | 4. | 1 | ○ 3♄ 3 |

| <i>Die</i> | <i>Phenomena & Observationes Solis</i> |
|------------|---|
| | Sol in parallelo |
| 3 | α Orion. & α Serp. culm. 18 ^h 48' & 4 ^h 40' |
| 6 | γ Orion., β Aquilae, & Procyon culm. 18 ^h 8', 8 ^h 40' & 20 ^h 21' |
| 8 | ϵ Serpentis culm. 4 ^h 29' |
| 10 | β Oph. & δ Virg. 6 ^h 14' & 1 ^h 27' |
| 13 | α Ceti & β Virg. culm. 15 ^h 16' & 0 ^h 8' |
| 15 | γ Ophiuci & δ Aquil. culm. 6 ^h 1' & 7 ^h 38' |
| 16 | γ Ceti culm. 14 ^h 51' |
| 18 | α Piscium culm. 14 ^h 2' |
| 20 | n & ζ Virg. n Antin. culm. 0 ^h 15' 1 ^h 30' 7 ^h 47' |
| 22 | in signo Librae 10 ^h 39' |
| 23 | δ Orion. & ρ Ceti 17 ^h 13' & 14 ^h 22' |
| 25 | ϵ Orionis, α Aquarii, γ Antinoi. culm. 17 ^h 11' 9 ^h 42' & 7 ^h 48' |
| 26 | ι Antinoi culm. 7 ^h 9' |
| 27 | ζ Orionis culm. 17 ^h 8' |
| 28 | γ Aquar. & n Orion. culm. 9 ^h 47' 16 ^h 49' |
| 29 | μ & n Serp. culm. 3 ^h 12' & 5 ^h 43' |
| 30 | δ Ophiuci culm. 3 ^h 34' |

| <i>Die</i> | <i>Phenomena & Observationes Lunae</i> |
|------------|---|
| | Luna |
| 2 | ad λ Sagittarii 10 ^h 50' |
| 5 | ad Saturni 9 ^h 42' |
| 6 | ad θ Aquarii 18 ^h 20' |
| 7 | Plenilunium 20 ^h 17' |
| 8 | ad λ & 19. Piscium 9 ^h 16' & 12 ^h 5' |
| 10 | ad n Piscium 10 ^h 34' |
| 12 | Perigea ad n Tauri 17 ^h 3' |
| 13 | ad χ Tauri 6 ^h 42' |
| 14 | Ultimus quadrans 11 ^h 46' |
| 14 | ad 125. & 132. Tauri 12 ^h 17', & 15 ^h 48' |
| 15 | ad ϵ Geminorum 13 ^h 31' |
| 16 | ad δ Geminorum 4 ^h 46' |
| 18 | ad ξ Leonis 17 ^h 7' |
| 19 | ad π Leonis 7 ^h 38' |
| 21 | Novilunium 23 ^h 10' |
| 26 | Apogea |
| 27 | ad σ & α Scorpii 9 ^h 57' & 13 ^h 56' |
| 28 | ad θ Ophiuci 13 ^h 27' |
| 29 | ad λ Sagittarii 19 ^h 13' |
| 30 | Primus quadrans 3 ^h 33' |

Planetae in parallelis fixarum.

Uranus ρ & 104. Geminorum, & 2 μ Cancrī.
 Saturnus β Canis, α Leporis, χ Librae, γ Scorpii.
 Jupiter δ Tauri, θ Leonis, γ Geminorum, γ Serpentis, β Serpentis, α Tauri.
 Mars n Antinoi, ζ Virg. δ , ϵ Orionis, α Aquarii, γ Antin, n Orion. n Serp. β Eridani, β Aquarii.
 Venus β Orionis, β Librae, α Virg. ζ Ophiuci, δ Eridani; 10. ϵ Ceti, α Capri, γ Eridani, α Librae, γ Canis; 19. Sirii, δ Capri, α Crateris, β Canis, α Leporis; 25. β Scorpii, β Ceti, 54. Eridani.
 Mercurius 10. δ Virginis, β Ophiuci, ϵ Serpentis, Procyon, β Aquilae, γ Orionis, ξ Hydrae, α Serpentis, α Orionis.

| <i>Die</i> | <i>Phenomena & Observationes Planetarum</i> |
|------------|---|
| 1 | Mercur ad ν Leon. diff. lat. 10 10' |
| 2 | Mars ad n Virginis diff. lat. 43' |
| 3 | Venus ad h Virgin. diff. lat. 8' |
| 6 | Mercur. in conjunctione infer. |
| 17 | Mercurius Stationarius |
| 18 | Mercur. ad 65. Leonis diff. lat. 1' |
| 22 | Venus ad 10. Librae diff. lat. 5' |
| 22 | Mercur. in maxima elongatione |
| 22 | Saturnus ad θ Capri diff. lat. 33' |
| 25 | Mercur. ad σ Leonis diff. lat. 22' |
| 25 | Venus ad 1. 2. ι Libr. diff. lat. 15' & 39' |

| Dies mensis | Dies hebdomadae | Æquatio subtrahenda a tempore vero ut habeatur medium | | Diffe- rentia | Longitudo Solis | | | | Ascensio recta Solis | | | Declinatio Solis Borealis | | |
|-------------|-----------------|--|-------|------------------|--------------------|-----|-----|----|-------------------------|-----|----|---------------------------------|--------|----|
| | | M. | S. | S. | S. | G. | M. | S. | G. | M. | S. | G. | M. | S. |
| | | | | | | | | | | | | | | |
| 1 | Ven. | 0. | 18, 3 | 18, 6 | 5. | 9 | 5. | 53 | 160. | 41. | 38 | 8. | 10. 5 | |
| 2 | Sat. | 0. | 37, 3 | 19, 0 | 5. | 10. | 4. | 2 | 161. | 36. | 2 | 7. | 48.10 | |
| 3 | Dom. | 0. | 56, 6 | 19, 3 | 5. | 11. | 2. | 13 | 162. | 30. | 21 | 7. | 26. 8 | |
| 4 | Lun. | 1. | 16, 1 | 19, 5 | 5. | 12. | 0. | 25 | 163. | 24. | 36 | 7. | 3. 58 | |
| 5 | Mar. | 1. | 35, 6 | 19, 7 | 5. | 12. | 58. | 39 | 164. | 18. | 48 | 6. | 41.41 | |
| 6 | Mer. | 1. | 55, 7 | 19, 9 | 5. | 13. | 56. | 55 | 165. | 12. | 56 | 6. | 19.18 | |
| 7 | Jov. | 2. | 15, 1 | 20, 1 | 5. | 14. | 55. | 12 | 166. | 7. | 1 | 5. | 56.49 | |
| 8 | Ven. | 2. | 36, 1 | 20, 3 | 5. | 15. | 53. | 31 | 167. | 1. | 3 | 5. | 34. 14 | |
| 9 | Sat. | 2. | 56, 1 | 20, 5 | 5. | 16. | 51. | 53 | 167. | 55. | 3 | 5. | 11.33 | |
| 10 | Dom. | 3. | 17, 2 | 20, 6 | 5. | 17. | 50. | 16 | 168. | 49. | 4 | 4. | 48.46 | |
| 11 | Lun. | 3. | 38, 0 | 20, 8 | 5. | 18. | 48. | 42 | 169. | 43. | 0 | 4. | 25.54 | |
| 12 | Mar. | 3. | 58, 7 | 20, 7 | 5. | 19. | 47. | 10 | 170. | 36. | 56 | 4. | 2. 58 | |
| 13 | Mer. | 4. | 19, 5 | 20, 8 | 5. | 20. | 45. | 40 | 171. | 30. | 50 | 3. | 39.57 | |
| 14 | Jov. | 4. | 40, 5 | 21, 0 | 5. | 21. | 44. | 12 | 172. | 24. | 43 | 3. | 16. 52 | |
| 15 | Ven. | 5. | 1, 5 | 21, 0 | 5. | 22. | 42. | 47 | 173. | 18. | 36 | 2. | 13.43 | |
| 16 | Sat. | 5. | 22, 5 | 21, 0 | 5. | 23. | 41. | 24 | 174. | 12. | 29 | 2. | 30.31 | |
| 17 | Dom. | 5. | 43, 5 | 21, 0 | 5. | 24. | 40. | 3 | 175. | 6. | 22 | 2. | 7. 16 | |
| 18 | Lun. | 6. | 4, 4 | 20, 9 | 5. | 25. | 38. | 44 | 176. | 0. | 16 | 1. | 43.58 | |
| 19 | Mar. | 6. | 25, 2 | 20, 8 | 5. | 26. | 37. | 38 | 176. | 54. | 11 | 1. | 20.37 | |
| 20 | Mer. | 6. | 46, 0 | 20, 8 | 5. | 27. | 36. | 14 | 177. | 48. | 7 | 0. | 57.14 | |
| 21 | Jov. | 7. | 6, 7 | 20, 7 | 5. | 28. | 35. | 1 | 178. | 42. | 4 | 0. | 33.50 | |
| 22 | Ven. | 7. | 27, 3 | 20, 6 | 5. | 29. | 33. | 51 | 179. | 36. | 2 | 0. | 10. 44 | |
| 23 | Sat. | 7. | 47, 8 | 20, 5 | 6. | 0. | 32. | 43 | 180. | 30. | 1 | 0. | 13. 3 | |
| 24 | Dom. | 8. | 8, 3 | 20, 5 | 6. | 1. | 31. | 37 | 181. | 24. | 2 | 0. | 50.50 | |
| 25 | Lun. | 8. | 28, 6 | 20, 3 | 6. | 2. | 30. | 32 | 182. | 18. | 6 | 0. | 59.57 | |
| 26 | Mar. | 8. | 48, 8 | 20, 2 | 6. | 3. | 29. | 29 | 183. | 12. | 12 | 1. | 23.23 | |
| 27 | Mer. | 9. | 8, 8 | 20, 0 | 6. | 4. | 28. | 27 | 184. | 6. | 20 | 1. | 40.49 | |
| 28 | Jov. | 9. | 28, 5 | 19, 7 | 6. | 5. | 27. | 27 | 185. | 0. | 31 | 2. | 10.14 | |
| 29 | Ven. | 9. | 48, 0 | 19, 5 | 6. | 6. | 26. | 29 | 185. | 54. | 45 | 2. | 34. 38 | |
| 30 | Sat. | 10. | 7, 3 | 19, 3 | 6. | 7. | 25. | 33 | 186. | 49. | 3 | 2. | 57. 0 | |
| 31 | | | | 19, 0 | | | | | | | | | | |

Aurelius

| Dies mensis | Dies hebdomadae | Distantia sektionis γ a Sole | | | Diffe- rentia | Ini- tium Crepu- sculi | Ortus Centri Solis | Occa- sus Centri Solis | Finit Crepu- sculi | H:va Italica Meri- dies | |
|-------------|-----------------|---|-----|------|------------------|---------------------------------|--------------------------|---------------------------------|--------------------------|----------------------------------|----|
| | | H. | M. | S. | | | | | | M. | S. | H. | M. | H. | M. |
| 1 | Ven. | 13. | 17. | 13,5 | | 3. 37 | 5. 23 | 6. 57 | 8. 25 | 16. | 43 |
| 2 | Sat. | 13. | 13. | 35,9 | 3. 37,6 | 3. 35 | 5. 25 | 6. 35 | 8. 23 | 16. | 45 |
| 3 | Dom. | 13. | 9. | 58,6 | 3. 37,3 | 3. 39 | 5. 27 | 6. 33 | 8. 21 | 16. | 47 |
| 4 | Lun. | 13. | 6. | 21,6 | 3. 37,0 | 3. 42 | 5. 29 | 6. 31 | 8. 18 | 16. | 49 |
| 5 | Mar. | 13. | 2. | 44,8 | 3. 36,8 | 3. 44 | 5. 30 | 6. 30 | 8. 16 | 16. | 51 |
| 6 | Mer. | 12. | 59. | 8.2 | 3. 36,6 | | | | | | |
| 7 | Jov. | 12. | 55. | 31,9 | 3. 36,3 | 3. 46 | 5. 31 | 6. 29 | 8. 14 | 16. | 53 |
| 8 | Ven. | 12. | 51. | 55,8 | 3. 36,1 | 3. 48 | 5. 33 | 6. 27 | 8. 12 | 16. | 55 |
| 9 | Sat. | 12. | 48. | 19,8 | 3. 36,0 | 3. 50 | 5. 35 | 6. 25 | 8. 10 | 16. | 57 |
| 10 | Dom. | 12. | 44. | 43,9 | 3. 35,9 | 3. 52 | 5. 36 | 6. 24 | 8. 8 | 16. | 59 |
| | | | | | 3. 35,8 | 3. 54 | 5. 38 | 6. 22 | 8. 6 | 17. | 1 |
| 11 | Lun. | 12. | 41. | 8,1 | | | | | | | |
| 12 | Mar. | 12. | 37. | 32,4 | 3. 35,7 | 3. 56 | 5. 41 | 6. 11 | 8. 4 | 17. | 3 |
| 13 | Mer. | 12. | 33. | 56,7 | 3. 35,7 | 3. 58 | 5. 42 | 6. 19 | 8. 2 | 17. | 5 |
| 14 | Jov. | 12. | 30. | 21,1 | 3. 35,6 | 3. 0 | 5. 44 | 6. 18 | 8. 0 | 17. | 7 |
| 15 | Ven. | 12. | 26. | 45,6 | 3. 35,5 | 3. 2 | 5. 45 | 6. 16 | 7. 58 | 17. | 9 |
| | | | | | 3. 35,5 | 3. 4 | 5. 47 | 6. 15 | 7. 56 | 17. | 11 |
| 16 | Sat. | 12. | 23. | 10,1 | | | | | | | |
| 17 | Dom. | 12. | 19. | 34,6 | 3. 35,5 | 3. 6 | 5. 48 | 6. 13 | 7. 54 | 17. | 13 |
| 18 | Lun. | 12. | 15. | 59,0 | 3. 35,6 | 3. 8 | 5. 50 | 6. 12 | 7. 52 | 17. | 15 |
| 19 | Mar. | 12. | 12. | 23,3 | 3. 35,7 | 4. 10 | 5. 51 | 6. 10 | 7. 50 | 17. | 17 |
| 20 | Mer. | 12. | 8. | 47,5 | 3. 35,7 | 4. 12 | 5. 53 | 6. 7 | 7. 48 | 17. | 18 |
| | | | | | 3. 35,8 | 4. 14 | 5. 55 | 6. 5 | 7. 46 | 17. | 20 |
| 21 | Jov. | 12. | 5. | 11,7 | | | | | | | |
| 22 | Ven. | 12. | 1. | 35,9 | 3. 35,8 | 4. 15 | 5. 57 | 6. 3 | 7. 45 | 17. | 22 |
| 23 | Sat. | 11. | 58. | 0,0 | 3. 35,9 | 4. 17 | 5. 58 | 6. 2 | 7. 43 | 17. | 24 |
| 24 | Dom. | 11. | 54. | 24,0 | 3. 36,0 | 4. 18 | 5. 59 | 6. 1 | 7. 42 | 17. | 26 |
| 25 | Lun. | 11. | 50. | 47,8 | 3. 36,2 | 4. 19 | 6. 0 | 6. 0 | 7. 41 | 17. | 28 |
| | | | | | 3. 36,4 | 4. 21 | 6. 1 | 5. 59 | 7. 39 | 17. | 29 |
| 26 | Mar. | 11. | 47. | 11,4 | | | | | | | |
| 27 | Mer. | 11. | 43. | 34,8 | 3. 36,6 | 4. 22 | 6. 3 | 5. 57 | 7. 38 | 17. | 31 |
| 28 | Jov. | 11. | 39. | 58,0 | 3. 36,8 | 4. 24 | 6. 5 | 5. 55 | 7. 36 | 17. | 33 |
| 29 | Ven. | 11. | 36. | 21,0 | 3. 37,0 | 4. 25 | 6. 6 | 5. 54 | 7. 35 | 17. | 35 |
| 30 | Sat. | 11. | 33. | 43,8 | 3. 37,2 | 4. 27 | 6. 8 | 5. 52 | 7. 33 | 17. | 37 |
| | | | | | 3. 37,5 | 4. 29 | 6. 9 | 5. 51 | 7. 31 | 17. | 38 |

| Dies mensis | Dies hebdomadae | Longitudo Lunae Meridie | Longitudo Lunae media nocte | Latitudo Lunae Meridie | Latitudo Lunae med. noct. | Paral- laxis Lunae Meri- die | Paral- laxis Lunae media nocte |
|-------------|-----------------|-------------------------|-----------------------------|------------------------|---------------------------|------------------------------------|-----------------------------------|
| | | S. G. M. S. | S G. M. S. | G.M.S. | G.M.S. | M.S. | H S |
| 1 | Ven. | 8.15.37.36 | 8.21.40.23 | 3. 6. 4A | 2. 39. 6A | 54.46 | 55. 0 |
| 2 | Sat. | 8.27.46.31 | 9. 3.56.34 | 2. 9. 59 | 1.39. 0 | 55.17 | 55.36 |
| 3 | Dom | 9.10.11. 9 | 9.16.30.52 | 1. 6. 27 | 0. 32. 40 | 55.57 | 56.19 |
| 4 | Lun. | 9.22.56. 4 | 9.29.27.12 | 0. 1. 55B | 0. 36. 56B | 56.43 | 57. 8 |
| 5 | Mar | 10. 6. 4.31 | 10.12.48.13 | 1.11. 59 | 1.46. 34 | 57.33 | 57.59 |
| 6 | Mer | 10.19.38.19 | 10.26.34.24 | 2.20. 2 | 2.52. 4 | 58.23 | 58.46 |
| 7 | Jov. | 11. 3.36.58 | 11.10.44.43 | 3.21. 53 | 3.48. 59 | 59. 7 | 59.27 |
| 8 | Ven. | 11.17.57.22 | 11.25.14. 1 | 4.12. 33 | 4.32.17 | 59.43 | 59.57 |
| 9 | Sat. | 0. 2.33.59 | 0. 9.55.59 | 4.47. 41 | 4.53.22 | 60. 7 | 60.14 |
| 10 | Dom | 0.17.19.10 | 0.24.42.37 | 5. 4. 7 | 5. 4.46 | 60.17 | 60.17 |
| 11 | Lun. | 1. 2. 5. 5 | 1. 9.25.45 | 5. 0. 24 | 4.51. 7 | 60.14 | 60. 8 |
| 12 | Mar | 1.16.43.55 | 1.23.54. 0 | 4.37. 2 | 4.18.26 | 59.59 | 59.48 |
| 13 | Mer | 2. 1.10.50 | 2. 8.18. 6 | 3.56. 3 | 3.30.18 | 59.34 | 59.21 |
| 14 | Jov. | 2.15.21.28 | 2.22.20.34 | 3. 1. 29 | 2.30.13 | 59. 5 | 58.49 |
| 15 | Ven. | 2.29.15.22 | 3. 6. 6. 0 | 1.57. 1 | 1.22.28 | 58.32 | 58.14 |
| 16 | Sat. | 3.12.52.34 | 3.19.35.16 | 0.47. 5 | 0.11.26 | 57.57 | 57.40 |
| 17 | Dom | 3.26.14.17 | 4. 2.49.48 | 0.24. 3 | 0.58.51A | 57.22 | 57. 6 |
| 18 | Lun. | 4. 9.21.58 | 4.15.50.59 | 1.32.34A | 2. 4.46 | 56.50 | 56.34 |
| 19 | Mar | 4.22.17. 2 | 4.28.40.16 | 2.35. 4 | 3. 3. 7 | 56.19 | 56. 3 |
| 20 | Mer | 5. 5. 0.49 | 5.11.18.45 | 3.28.42 | 3.51.30 | 55.49 | 55.35 |
| 21 | Jov. | 5.17.34. 6 | 5.23.47. 1 | 4.11.18 | 4.27.57 | 55.21 | 55. 8 |
| 22 | Ven. | 5.29.57.26 | 6. 6. 5.27 | 4.41.18 | 4.51.17 | 54.57 | 54.46 |
| 23 | Sat. | 6.12.11.15 | 6.18.14.53 | 4.57.52 | 5. 1. 2 | 54.30 | 54.26 |
| 24 | Dom | 6.24.16.26 | 7. 0.16. 6 | 5. 0.48 | 4.57.13 | 54.19 | 54.12 |
| 25 | Lun. | 7. 6.14. 4 | 7.12.10.38 | 4.50.22 | 4.40.23 | 54. 8 | 54. 4 |
| 26 | Mar | 7.18. 6. 9 | 7.24. 1. 0 | 4.27.24 | 4.11.33 | 54. 3 | 54. 4 |
| 27 | Mer | 7.29.55.27 | 8. 5.50. 3 | 3.53. 0 | 3.31.55 | 54. 6 | 54.11 |
| 28 | Jov. | 8.11.45.25 | 8.17.42. 8 | 3. 8. 29 | 2.42.52 | 54.19 | 54.28 |
| 29 | Ven. | 8.23.40.40 | 8.29.41.43 | 2.15.22 | 1.46. 9 | 54.40 | 54.55 |
| 30 | Sat. | 9. 5.46. 1 | 9.11.54.16 | 1.15.28 | 0.43.33 | 55.12 | 55.32 |

| Dies mensis | Diameter horiz. Lunae Meridie | | horiz. Lunae media nocte | | Declinatio Lunae in Meridiano | | Ortus Lunae | | Transitus Lunae per Meridianum | | Occasus Lunae | |
|-------------|-------------------------------|----|--------------------------|----|-------------------------------|------|-------------|------|--------------------------------|------|---------------|------|
| | M. | S. | M. | S. | G. | M. | H. | M. | H. | M. | H. | M. |
| 1 Ven. | 30. | 2 | 30. | 10 | 25. | 50 A | 2. | 17 V | 6. | 27 V | 10. | 36 V |
| 2 Sat. | 30. | 19 | 30. | 29 | 25. | 16 | 3. | 8 | 7. | 19 | 11. | 34 |
| 3 Dom | 30. | 41 | 30. | 53 | 23. | 24 | 3. | 51 | 8. | 11 | * M * | |
| 4 Lun. | 31. | 6 | 31. | 20 | 20. | 1 | 4. | 30 | 9. | 4 | 0. | 37 |
| 5 Mar | 31. | 34 | 31. | 48 | 15. | 42 | 5. | 1 | 9. | 56 | 1. | 48 |
| 6 Mer | 32. | 1 | 32. | 14 | 10. | 18 | 5. | 28 | 10. | 46 | 3. | 2 |
| 7 Ven. | 32. | 25 | 32. | 36 | 4. | 8 | 5. | 51 | 11. | 36 | 4. | 16 |
| 8 Ven. | 32. | 45 | 32. | 52 | * | * | 6. | 14 | * M * | | 5. | 35 |
| 9 Sat. | 32. | 58 | 33. | 2 | 2. | 21 B | 6. | 38 | 0. | 26 | 6. | 52 |
| 10 Dom | 33. | 3 | 33. | 3 | 8. | 51 | 7. | 5 | 1. | 18 | 8. | 11 |
| 11 Lun. | 33. | 2 | 32. | 58 | 14. | 49 | 7. | 36 | 2. | 12 | 9. | 33 |
| 12 Mar | 32. | 54 | 32. | 48 | 19. | 48 | 8. | 13 | 3. | 9 | 10. | 54 |
| 13 Mer | 32. | 40 | 32. | 33 | 23. | 30 | 9. | 3 | 4. | 8 | 0. | 11 V |
| 14 Jov. | 32. | 24 | 32. | 15 | 25. | 31 | 10. | 0 | 5. | 9 | 1. | 18 |
| 15 Ven. | 32. | 6 | 31. | 56 | 25. | 36 | 11. | 5 | 6. | 9 | 2. | 15 |
| 16 Sat | 31. | 47 | 31. | 38 | 24. | 7 | * M * | | 7. | 8 | 3. | 5 |
| 17 Dom | 21. | 28 | 31. | 18 | 21. | 8 | 0. | 13 | 8. | 3 | 3. | 43 |
| 18 Lun. | 21. | 10 | 31. | 1 | 17. | 0 | 1. | 25 | 8. | 55 | 4. | 15 |
| 19 Mar | 20. | 53 | 30. | 44 | 12. | 10 | 2. | 36 | 9. | 43 | 4. | 39 |
| 20 Mer | 20. | 36 | 30. | 29 | 6. | 48 | 3. | 45 | 10. | 29 | 5. | 1 |
| 21 Jov | 30. | 21 | 30. | 13 | 1. | 17 | 4. | 52 | 11. | 12 | 5. | 20 |
| 22 Ven | 30. | 8 | 30. | 2 | 4. | 17 A | 5. | 57 | 11. | 54 | 5. | 40 |
| 23 Sat | 29. | 56 | 29. | 51 | 9. | 30 | 7. | 3 | 0. | 37 V | 5. | 59 |
| 24 Dom | 29. | 47 | 29. | 44 | 14. | 20 | 8. | 8 | 1. | 20 | 6. | 22 |
| 25 Lun. | 29. | 41 | 29. | 38 | 18. | 30 | 9. | 13 | 2. | 5 | 6. | 47 |
| 26 Mar | 29. | 38 | 29. | 38 | 21. | 51 | 10. | 17 | 2. | 51 | 7. | 17 |
| 27 Mer | 29. | 40 | 29. | 43 | 24. | 16 | 11. | 19 | 3. | 39 | 7. | 55 |
| 28 Jov. | 29. | 47 | 29. | 52 | 25. | 30 | 0. | 15 V | 4. | 58 | 8. | 41 |
| 29 Ven. | 29. | 59 | 30. | 7 | 25. | 34 | 1. | 6 | 5. | 19 | 9. | 32 |
| 30 Sat. | 30. | 16 | 30. | 27 | 24. | 36 | 1. | 56 | 6. | 11 | 10. | 21 |

| Diermen. | Longitudo | Latitudo | Declina- | Ortus | Transit. | Occasus |
|----------|-----------|----------|----------|----------|----------|----------|
| | Planeta- | Planeta- | tio Pla- | Planeta- | Planet. | Planeta- |
| | rum | rum | netarum | rum | per Me- | rum |
| | ridianum | | | | | |
| | S. G. M. | G. M. | G. M. | H. M. | H. M. | H. M. |

URANUS.

| | | | | | | |
|----|-----------|---------|----------|---------|--------|---------|
| 1 | 3. 24. 5 | 0. 28 B | 21. 47 B | 1. 22 M | 9. 1 M | 4. 40 V |
| 16 | 3. 24. 43 | 0. 29 | 21. 41 | 0. 31 | 8. 10 | 3. 49 |

SATURNUS.

| | | | | | | |
|----|------------|--------|----------|---------|----------|---------|
| 1 | 10. 11. 57 | 1. 4 A | 18. 15 A | 5. 29 V | 10. 14 V | 2. 59 M |
| 7 | 10. 11. 35 | 1. 4 | 18. 21 | 5. 6 | 9. 51 | 2. 36 |
| 13 | 10. 11. 17 | 1. 4 | 18. 25 | 4. 44 | 9. 28 | 2. 13 |
| 19 | 10. 11. 1 | 1. 4 | 18. 31 | 4. 22 | 9. 6 | 1. 50 |
| 25 | 10. 10. 48 | 1. 4 | 18. 34 | 4. 1 | 8. 44 | 1. 29 |

JUPITER.

| | | | | | | |
|----|-----------|---------|----------|---------|---------|----------|
| 1 | 1. 21. 16 | 1. 14 A | 16. 55 B | 9. 16 V | 4. 31 M | 11. 46 M |
| 7 | 1. 21. 22 | 1. 14 | 16. 56 | 8. 55 | 4. 10 | 11. 25 |
| 13 | 1. 21. 21 | 1. 15 | 16. 55 | 8. 33 | 3. 48 | 11. 3 |
| 19 | 1. 21. 13 | 1. 16 | 16. 51 | 8. 11 | 3. 26 | 10. 41 |
| 25 | 1. 20. 58 | 1. 17 | 16. 46 | 7. 49 | 3. 4 | 10. 19 |

MARS.

| | | | | | | |
|----|-----------|---------|---------|---------|---------|---------|
| 1 | 6. 0. 25 | 0. 41 B | 0. 27 B | 7. 15 M | 1. 20 V | 7. 25 V |
| 7 | 6. 4. 19 | 0. 37 | 1. 9 A | 7. 14 | 1. 12 | 7. 11 |
| 13 | 6. 8. 14 | 0. 34 | 2. 45 | 7. 13 | 1. 5 | 6. 57 |
| 19 | 6. 12. 11 | 0. 31 | 4. 21 | 7. 13 | 0. 58 | 6. 43 |
| 25 | 6. 16. 9 | 0. 28 | 5. 56 | 7. 12 | 0. 51 | 6. 30 |

VENUS.

| | | | | | | |
|----|-----------|---------|--------|--------|---------|---------|
| 1 | 6. 19. 52 | 0. 24 A | 8. 9 A | 9. 1 M | 2. 30 V | 7. 59 V |
| 7 | 6. 26. 43 | 0. 48 | 11. 5 | 9. 17 | 2. 34 | 7. 51 |
| 13 | 7. 3. 40 | 1. 13 | 13. 54 | 9. 33 | 2. 38 | 7. 43 |
| 19 | 7. 10. 29 | 1. 38 | 16. 32 | 9. 49 | 2. 42 | 7. 35 |
| 25 | 7. 17. 12 | 2. 2 | 18. 56 | 10. 5 | 2. 47 | 7. 29 |

MERCURIUS.

| | | | | | | |
|----|-----------|---------|---------|---------|----------|---------|
| 1 | 5. 21. 8 | 4. 23 A | 0. 31 A | 6. 26 M | 0. 37 V | 6. 38 V |
| 7 | 5. 15. 39 | 3. 36 | 2. 20 B | 5. 37 | 11. 50 M | 6. 3 |
| 13 | 5. 10. 35 | 1. 51 | 5. 53 | 4. 47 | 11. 14 | 5. 41 |
| 19 | 5. 10. 0 | 0. 2 B | 7. 51 | 4. 23 | 10. 58 | 5. 30 |
| 25 | 5. 14. 53 | 1. 20 | 7. 11 | 4. 26 | 10. 58 | 5. 32 |

ECLIPSES SATELLITUM JOVIS.

| <i>Dies mensis</i> | I. Satelles. | | | <i>Dies</i> | II. Satelles | | | <i>Dies</i> | III. Satelles. | | |
|--------------------|--------------------|-----------|-----------|-------------|--------------------|-----------|-----------|-------------|-----------------------|-----------|-----------|
| | <i>Immerfiones</i> | | | | <i>Immerfiones</i> | | | | <i>Immerf. Emerf.</i> | | |
| | <i>H.</i> | <i>M.</i> | <i>S.</i> | | <i>H.</i> | <i>M.</i> | <i>S.</i> | | <i>H.</i> | <i>M.</i> | <i>S.</i> |
| 2 | 18. | 23. | 6. | 4 | 9. | 55. | 15. | 8 | 10. | 5. | 4. I |
| 4 | 12.* | 52. | 3. | 7 | 23. | 15. | 4. | 2 | 11.* | 42. | 34. E |
| 6 | 7. | 21. | 4. | 11 | 12.* | 34. | 56. | 9 | 14.* | 7. | 38. I |
| 8 | 1. | 50. | 6. | 15 | 1. | 54. | 50. | 9 | 15.* | 45. | 2. E |
| 9 | 20. | 19. | 8. | 18 | 15* | 14. | 47. | 16 | 18. | 10. | 14. I |
| 11 | 14.* | 48. | 9. | 22 | 4. | 34. | 42. | 16 | 19. | 47. | 44. E |
| 13 | 9. | 17. | 13. | 25 | 17. | 54. | 36. | 23 | 22. | 12. | 50. I |
| 15 | 3. | 46. | 15. | 29 | 7. | 14. | 26. | 23 | 23. | 50. | 28. E |
| 16 | 22. | 15. | 18. | | | | | | | | |
| 18 | 16.* | 44. | 20. | | | | | | | | |
| 20 | 11.* | 13. | 23. | | | | | | | | |
| 22 | 5. | 42. | 25. | | | | | <i>Dies</i> | IV. Satelles. | | |
| 24 | 0. | 11. | 26. | | | | | | <i>Conjunctiones.</i> | | |
| 25 | 18. | 40. | 27. | | | | | 5 | 4. | 53.24 | inf. |
| 27 | 13.* | 9. | 28. | | | | | 13 | 12. | 59.24 | sup. |
| 29 | 7. | 38. | 28. | | | | | 21 | 21. | 14.24 | inf. |
| | | | | | | | | 30 | 5. | 48.44 | sup. |

| <i>Dies</i> | <i>Diameter Solis</i> | <i>Mora transitus Solis per Meridian.</i> | <i>Motus horarius Solis</i> | <i>Logarithmus distantiae Solis a terra posita media 100000.</i> | <i>Longitudo Nodi Lunae</i> |
|-------------|-----------------------|---|-----------------------------|--|-----------------------------|
| | <i>M. S.</i> | <i>M. S.</i> | <i>M. S.</i> | | <i>S. G. M.</i> |
| 1 | 31. 47,4 | 2. 8, 4 | 2. 25, 4 | 5.003544. | 9. 21. 6 |
| 4 | 31. 48,8 | 2. 8, 2 | 2. 25, 6 | 5.003209. | 9. 20. 56 |
| 7 | 31. 50,3 | 2. 8, 1 | 2. 25, 8 | 5.002871. | 9. 20. 47 |
| 10 | 31. 51,9 | 2. 8, 0 | 2. 26, 3 | 5.002530. | 9. 20. 37 |
| 13 | 31. 53,4 | 2. 8, 0 | 2. 29, 4 | 5.002188. | 9. 20. 28 |
| 16 | 31. 54,9 | 2. 8, 0 | 2. 26, 6 | 5.001840. | 9. 20. 18 |
| 19 | 31. 56,3 | 2. 7, 9 | 2. 26, 8 | 5.001482. | 9. 20. 9 |
| 22 | 31. 57,8 | 2. 7, 9 | 2. 27, 1 | 5.001114. | 9. 20. 0 |
| 25 | 31. 59,4 | 2. 8, 0 | 2. 27, 4 | 5.000736. | 9. 19. 50 |
| 28 | 32. 1,1 | 2. 8, 0 | 2. 27, 6 | 5.000351. | 9. 19. 40 |

POSITIONES SATELLITUM JOVIS

| | <i>Oriens</i> | <i>1.^h Mane</i> | <i>Occidens</i> | |
|----|---------------|----------------------------|-----------------|-------------|
| 1 | 4. | | ○ | .1 2. .3 |
| 2 | .4 | 2. .1 | ○ | 3. |
| 3 | .4 | .2 | ○ | 1 2 3 |
| 4 | .4 1. | 1. | ○ | 2. |
| 5 | 3 1. | .4 1 2 | ○ | |
| 6 | | .1 2. | ○ | .4 1.0 |
| 7 | 1.0 | 1. | ○ | .2 .4 |
| 8 | | | ○ | 1. 2. 3 |
| 9 | | 2. 1. | ○ | 3. 4. |
| 10 | | .2 | ○ | 1 2 3 4. |
| 11 | | 1. 1. | ○ | .2 4. |
| 12 | 20 | 3. | ○ | .1 4. 10 |
| 13 | | .1 2. 1. | ○ | 4. |
| 14 | 4 2 | 1. | ○ | .1 2. 3 1.0 |
| 15 | | 4. | ○ | .1 2. 3 |
| 16 | | 4. 2 1 | ○ | .3 |
| 17 | 4. | .2 | ○ | .1 3. |
| 18 | 4. | 1 2 1 | ○ | .1 2. |
| 19 | 4. | 1. | ○ | 2. 1. |
| 20 | .4 | .1 2. .1 | ○ | |
| 21 | | .4 1 2 1 | ○ | 1.0 |
| 22 | | .4 | ○ | .1 2 3 |
| 23 | | 2 1 1 | ○ | .4 .3 |
| 24 | | .2 | ○ | .1 3. .4 |
| 25 | | 3 1 1 | ○ | .2 .4 |
| 26 | | 3. | ○ | 2 1 4. |
| 27 | | .1 2. .1 | ○ | 4. |
| 28 | 10 | .1 2. | ○ | 4. |
| 29 | | .1 2. | ○ | .1 .3 2. 4. |
| 30 | | 2 1 1 | ○ | 4. .3 |

| Dies | Phenomena & Observationes Solis | Dies | Phenomena & Observationes Luna |
|------|---|------|--|
| | Sol in parallelo | | |
| 1 | ♌ Serpentis culm. 5 ^h 16' | 3 | ad λ Capri 13 ^h 47' |
| | in media distantia a terra | 4 | ad θ Aquarii 4 ^h 45' |
| 3 | ε Ophiuci culm. 3 ^h 26' | 7 | ad η Piscium 20 ^h 20' |
| 5 | λ Antin. & β Erid. culm. 6 ^h 6' | 7 | Plenilunium 5 ^h 36' |
| 7 | ι Orionis culm. 16 ^h 27' | 9 | Perigea ad Jovis 13 ^h 42' |
| 9 | β Aquarii culm. 8 ^h 17' | 10 | ad η Tauri 1 ^h 5' . . . ad X Tauri 1 ^h 14' |
| 12 | α Hydrae culm. 20 ^h 0' | 11 | ad 125. & 132. Tauri 18 ^h 56' & 2 ^h 26' |
| 14 | Rigel & β Librae culm. 15 ^h 42' & 1 ^h 45' | 12 | ad ε Geminorum 19 ^h 39' |
| 17 | ♌ Erid. & α Orion. culm. 13 ^h 31' & 16 ^h 3' | 13 | ad δ Geminorum 10 ^h 38' |
| 18 | α Virginis, ζ Ophiuci, & ι Erid. culm. 1 ^h 38', 2 ^h 50' & 13 ^h 45' | 14 | Ultimus quadrans 20 ^h 30' |
| 20 | δ Eridani culm. 13 ^h 43' | 14 | ad θ Cancrī 17 ^h 27' |
| 22 | η Ceti culm. 11 ^h 5' | 15 | ad ξ Leonis 22 ^h 53' |
| 22 | in signo Scorpii 18 ^h 33' | 16 | ad ζ & π Leonis 3 ^h 47' & 13 ^h 20' |
| 26 | ε Cete culm. 12 ^h 2' | 18 | ad ε Leonis 13 ^h 33' |
| | α Capri culm. 5 ^h 55' | 21 | Novilunium 15 ^h 51' |
| 30 | γ Libr. & γ Erid. culm. 1 ^h 12' & 13 ^h 25' | 23 | Apogea |
| | | 24 | ad σ & α Scorpii 16 ^h 35' & 20 ^h 34' |
| | | 25 | ad θ Ophiuci 20 ^h 9' |
| | | 26 | ad Veneris 23 ^h 41' |
| | | 27 | ad λ Sagittarii 2 ^h 13' |
| | | 29 | Primus quadrans 19 ^h 54' |
| | | 31 | ad θ Aquarii 14 ^h 26' |
| | | | <i>Planctae in parallelis fixarum.</i> Uran p & 124 Gemin & 2 μ Canc. Saturn β Canis, α Leporis & Librae, γ Scorpii. Jupiter δ Tauri, θ Leonis, γ Geminorum, γ & β Serpentis, α Tauri, β Leonis. Mars φ Aquarii, β Orionis, ξ Eridani, α Virginis, ζ Ophiuci, η Ceti, α Capri, γ Eridani. Venus β Leporis, ε Corvi, δ Scorpii, γ Hydrae, γ Leporis, β & α Corvi, ρ, ζ Navis, θ Ophiuci, γ & σ Scorpii, π, α Scorpi, δ Canis, σ, φ Sagittarii. Mercur δ Virg., δ Serpen., α Ceti, β Virg., γ Oph. δ Aquil., ζ Ceti, η Antin., δ Orion, δ Ceti, ζ Orion., η Serpentis, β Eridani, Rigel. |
| Dies | Phenomena & Observationes Planetarum | | |
| 1 | Mercur. ad β Virginis diff. lat. 10 10' | | |
| 4 | Mercur. ad r Virginis diff. lat. 56' | | |
| 6 | Mercur. ad η Virginis diff. lat. 29' | | |
| 7 | Venus ad δ Scorpii diff. lat. 54' | | |
| 13 | Venus ad α Scorpii diff. lat. 10 22' | | |
| 13 | Mercur. ad θ Virginis diff. lat. 17' | | |
| 16 | Saturnus Stationarius | | |
| 21 | Mercur. in conjunctione Super. | | |
| 22 | Mars ad λ Virginis diff. lat. 18' | | |
| 26 | Mercurius ad Martis diff. lat. 5' | | |
| 30 | Uranus Stationarius | | |
| 31 | Venus in maxima elongatione | | |

| Dies mensis | Dies hebdomadae | Æquatio subtrahenda a tempore vero ut habeatur medium | | Differrentia | Longitudo Solis | | | | Astenſio recta Solis | | | Declinatio Solis Australis | | |
|-------------|-----------------|---|-------|--------------|-----------------|-----|-----|----|----------------------|-----|----|----------------------------|-----|----|
| | | M. | S. | | S. | S. | G. | M. | S. | G. | M. | S. | | |
| 1 | Dom | 10. | 26, 3 | 19, 0 | 6. | 8 | 24. | 38 | 187. | 43. | 25 | 3. | 20. | 20 |
| 2 | Lun. | 10. | 45, 0 | 18, 7 | 6. | 9. | 23. | 45 | 188. | 37. | 51 | 3. | 43. | 38 |
| 3 | Mar | 11. | 3, 5 | 18, 5 | 6. | 10. | 22. | 54 | 189. | 32. | 22 | 4. | 6. | 54 |
| 4 | Mer | 11. | 21, 6 | 18, 1 | 6. | 11. | 22. | 5 | 190. | 26. | 58 | 4. | 30. | 7 |
| 5 | Jov. | 11. | 39, 4 | 17, 8 | 6. | 12. | 21. | 18 | 191. | 21. | 39 | 4. | 53. | 16 |
| 6 | Ven. | 11. | 56, 9 | 17, 5 | 6. | 13. | 20. | 33 | 192. | 16. | 25 | 5. | 16. | 22 |
| 7 | Sat. | 12. | 13, 9 | 17, 0 | 6. | 14. | 19. | 50 | 193. | 11. | 17 | 5. | 39. | 24 |
| 8 | Dom | 12. | 30, 5 | 16, 6 | 6. | 15. | 19. | 9 | 194. | 6. | 16 | 6. | 2. | 22 |
| 9 | Lun. | 12. | 46, 6 | 16, 1 | 6. | 16. | 18. | 30 | 195. | 1. | 22 | 6. | 25. | 15 |
| 10 | Mar | 13. | 2, 5 | 15, 6 | 6. | 17. | 17. | 54 | 195. | 56. | 35 | 6. | 48. | 3 |
| 11 | Mer | 13. | 17, 5 | 15, 1 | 6. | 18. | 17. | 20 | 196. | 51. | 56 | 7. | 10. | 45 |
| 12 | Jov | 13. | 31, 9 | 14, 6 | 6. | 19. | 16. | 49 | 197. | 47. | 24 | 7. | 33. | 21 |
| 13 | Ven | 13. | 45, 9 | 14, 0 | 6. | 20. | 16. | 20 | 198. | 43. | 0 | 7. | 55. | 51 |
| 14 | Sat. | 13. | 59, 4 | 13, 5 | 6. | 21. | 15. | 53 | 199. | 38. | 44 | 8. | 18. | 15 |
| 15 | Dom | 14. | 12, 5 | 13, 1 | 6. | 22. | 15. | 29 | 200. | 34. | 37 | 8. | 40. | 32 |
| 16 | Lun. | 14. | 25, 0 | 12, 5 | 6. | 23. | 15. | 7 | 201. | 30. | 39 | 9. | 2. | 43 |
| 17 | Mar | 14. | 36, 7 | 11, 7 | 6. | 24. | 14. | 48 | 202. | 26. | 51 | 9. | 24. | 46 |
| 18 | Mer | 14. | 47, 8 | 11, 1 | 6. | 25. | 14. | 31 | 203. | 23. | 12 | 9. | 46. | 40 |
| 19 | Jov. | 14. | 58, 4 | 10, 6 | 6. | 26. | 14. | 16 | 204. | 19. | 12 | 10. | 8. | 25 |
| 20 | Ven | 15. | 8, 3 | 9, 9 | 6. | 27. | 14. | 3 | 205. | 16. | 21 | 10. | 30. | 1 |
| 21 | Sat. | 15. | 17, 5 | 9, 2 | 6. | 28. | 13. | 52 | 206. | 13. | 10 | 10. | 51. | 28 |
| 22 | Dom | 15. | 26, 1 | 8, 6 | 6. | 29. | 13. | 43 | 207. | 10. | 9 | 11. | 12. | 46 |
| 23 | Lun. | 15. | 34, 0 | 7, 9 | 7. | 0. | 13. | 36 | 208. | 7. | 19 | 11. | 33. | 54 |
| 24 | Mar | 15. | 41, 2 | 7, 2 | 7. | 1. | 13. | 31 | 209. | 4. | 39 | 11. | 54. | 51 |
| 25 | Mer | 15. | 47, 7 | 6, 5 | 7. | 2. | 13. | 27 | 210. | 2. | 9 | 12. | 15. | 37 |
| 26 | Jov. | 15. | 53, 6 | 5, 9 | 7. | 3. | 13. | 25 | 210. | 59. | 50 | 12. | 36. | 11 |
| 27 | Ven. | 15. | 58, 7 | 5, 1 | 7. | 4. | 13. | 24 | 211. | 57. | 41 | 12. | 56. | 33 |
| 28 | Sat. | 16. | 3, 1 | 4, 4 | 7. | 5. | 13. | 25 | 212. | 55. | 43 | 13. | 16. | 43 |
| 29 | Dom | 16. | 6, 7 | 3, 6 | 7. | 6. | 13. | 28 | 213. | 53. | 57 | 13. | 36. | 41 |
| 30 | Lun. | 16. | 9, 6 | 2, 9 | 7. | 7. | 13. | 32 | 214. | 52. | 22 | 13. | 56. | 26 |
| 31 | Mar | 16. | 11, 7 | 2, 1 | 7. | 8. | 13. | 38 | 215. | 50. | 59 | 14. | 15. | 57 |
| | | | | 1, 4 | | | | | | | | | | |

| Dies mensis | Dies hebdomade | Distantia sectionis Y a Sole | | | Differrentia | | Initium Crepusculi | | Ortus Centri Solis | | Occasus Centri Solis | | Finis Crepusculi | | Hora Italica Meridiei | |
|-------------|----------------|------------------------------|-----|------|--------------|------|--------------------|----|--------------------|----|----------------------|----|------------------|----|-----------------------|----|
| | | H. | M. | S. | M. | S. | H. | M. | H. | M. | H. | M. | H. | M. | H. | M. |
| 1 | Dom | 11. | 29. | 6,3 | | | 4. | 31 | 6. | 11 | 5. | 49 | 7. | 29 | 17. | 40 |
| 2 | Lun | 11. | 25. | 28,5 | 3. | 37,8 | 4. | 33 | 6. | 13 | 5. | 47 | 7. | 27 | 17. | 42 |
| 3 | Mar. | 11. | 21. | 50,4 | 3. | 38,1 | 4. | 35 | 6. | 15 | 5. | 46 | 7. | 25 | 17. | 44 |
| 4 | Mer. | 11. | 18. | 12,0 | 3. | 38,4 | 4. | 36 | 6. | 16 | 5. | 44 | 7. | 24 | 17. | 46 |
| 5 | Jov. | 11. | 14. | 33,3 | 3. | 38,7 | 4. | 38 | 6. | 17 | 5. | 43 | 7. | 22 | 17. | 47 |
| | | | | | 3. | 39,0 | | | | | | | | | | |
| 6 | Ven. | 11. | 10. | 54,3 | 3. | 39,3 | 4. | 39 | 6. | 18 | 5. | 42 | 7. | 21 | 17. | 48 |
| 7 | Sat. | 11. | 7. | 14,9 | 3. | 39,9 | 4. | 41 | 6. | 20 | 5. | 40 | 7. | 19 | 17. | 50 |
| 8 | Dom | 11. | 3. | 35,0 | 3. | 40,2 | 4. | 42 | 6. | 22 | 5. | 39 | 7. | 18 | 17. | 51 |
| 9 | Lun. | 10. | 59. | 54,6 | 3. | 40,4 | 4. | 44 | 6. | 23 | 5. | 37 | 7. | 16 | 17. | 53 |
| 10 | Mar. | 10. | 56. | 13,7 | 3. | 40,9 | 4. | 44 | 6. | 24 | 5. | 36 | 7. | 15 | 17. | 54 |
| | | | | | 3. | 41,1 | | | | | | | | | | |
| 11 | Mer. | 10. | 52. | 32,3 | | | 4. | 46 | 6. | 25 | 5. | 35 | 7. | 14 | 17. | 55 |
| 12 | Jov. | 10. | 48. | 50,4 | 3. | 41,9 | 4. | 48 | 6. | 27 | 5. | 33 | 7. | 12 | 17. | 57 |
| 13 | Ven. | 10. | 45. | 8,0 | 3. | 42,4 | 4. | 49 | 6. | 28 | 5. | 32 | 7. | 11 | 17. | 58 |
| 14 | Sat. | 10. | 41. | 25,0 | 3. | 43,0 | 4. | 50 | 6. | 30 | 5. | 30 | 7. | 10 | 18. | 0 |
| 15 | Dom | 10. | 37. | 41,4 | 3. | 43,6 | 4. | 51 | 6. | 31 | 5. | 29 | 7. | 9 | 18. | 1 |
| | | | | | 3. | 44,1 | | | | | | | | | | |
| 16 | Lun. | 10. | 33. | 57,3 | 3. | 44,7 | 4. | 53 | 6. | 32 | 5. | 28 | 7. | 7 | 18. | 2 |
| 17 | Mar. | 10. | 30. | 12,6 | 3. | 45,4 | 4. | 54 | 6. | 33 | 5. | 26 | 7. | 6 | 18. | 4 |
| 18 | Mer. | 10. | 26. | 27,2 | 3. | 45,4 | 4. | 56 | 6. | 36 | 5. | 14 | 7. | 4 | 18. | 5 |
| 19 | Jov. | 10. | 22. | 41,2 | 3. | 46,0 | 4. | 57 | 6. | 38 | 5. | 12 | 7. | 3 | 18. | 8 |
| 20 | Ven. | 10. | 18. | 54,6 | 3. | 46,6 | 4. | 59 | 6. | 40 | 5. | 20 | 7. | 1 | 18. | 10 |
| | | | | | 3. | 47,3 | | | | | | | | | | |
| 21 | Sat. | 10. | 15. | 7,3 | | | 5. | 1 | 6. | 42 | 5. | 18 | 6. | 59 | 18. | 12 |
| 22 | Dom | 10. | 11. | 19,3 | 3. | 48,0 | 5. | 2 | 6. | 43 | 5. | 17 | 6. | 58 | 18. | 13 |
| 23 | Lun | 10. | 7. | 30,7 | 3. | 48,6 | 5. | 4 | 6. | 45 | 5. | 15 | 6. | 56 | 18. | 15 |
| 24 | Mar. | 10. | 3. | 41,4 | 3. | 49,3 | 5. | 5 | 6. | 47 | 6. | 13 | 6. | 55 | 18. | 17 |
| 25 | Mer. | 9. | 59. | 51,4 | 3. | 50,0 | 5. | 7 | 6. | 48 | 5. | 12 | 6. | 53 | 18. | 18 |
| | | | | | 3. | 50,7 | | | | | | | | | | |
| 26 | Jov. | 9. | 56. | 0,7 | 3. | 51,4 | 5. | 8 | 6. | 49 | 5. | 11 | 6. | 52 | 18. | 19 |
| 27 | Ven. | 9. | 52. | 9,3 | 3. | 52,2 | 5. | 9 | 6. | 51 | 5. | 9 | 6. | 51 | 18. | 21 |
| 28 | Sat. | 9. | 48. | 17,1 | 3. | 52,9 | 5. | 10 | 6. | 52 | 5. | 8 | 6. | 50 | 18. | 22 |
| 29 | Dom | 9. | 44. | 24,2 | 3. | 53,7 | 5. | 12 | 6. | 54 | 5. | 6 | 6. | 48 | 18. | 24 |
| 30 | Lun. | 9. | 40. | 30,5 | 3. | 54,4 | 5. | 13 | 6. | 56 | 5. | 4 | 6. | 47 | 18. | 27 |
| 31 | Mar. | 9. | 36. | 36,1 | 3. | 55,2 | 5. | 15 | 6. | 57 | 5. | 3 | 6. | 45 | | |

| Dies mensis | Dies hebdomadae | Longitudo Lunae Meridie | | | Longitudo Lunae media nocte | | | Latitudo Lunae Meridie | | | Latitudo Lunae med. noct. | | | Paral- laxis Lunae Meri- die | Paral- laxis Lunae media noctē | | | | | | |
|-------------|-----------------|-------------------------|-----|-----|-----------------------------|-----|-----|------------------------|----|----|---------------------------|----|----|--|--|----|----|-----|----|-----|----|
| | | S. | G. | M. | S. | S. | G. | M. | S. | G. | M. | S. | G. | M. | S. | M. | S. | | | | |
| 1 | Dom | 9. | 18. | 6. | 54 | 9. | 24. | 24. | 43 | 0 | 10. | 45 | A | 0. | 22. | 39 | B | 55. | 53 | 56. | 17 |
| 2 | Lun. | 10. | 0. | 48. | 21 | 10. | 7. | 18. | 24 | 0 | 56 | 13 | | 1. | 29. | 34 | | 56. | 43 | 57. | 10 |
| 3 | Mar | 10. | 13. | 55. | 8 | 10. | 20. | 39. | 3 | 2 | 2. | 19 | | 2. | 33. | 54 | | 57. | 37 | 58. | 6 |
| 4 | Mer | 10. | 27. | 20. | 16 | 11. | 4. | 29. | 13 | 3. | 3. | 51 | | 3. | 31. | 33 | | 58. | 34 | 59. | 2 |
| 5 | Jov. | 11. | 11. | 35. | 9 | 11. | 18. | 48 | 11 | 3 | 56. | 25 | | 4. | 17. | 58 | | 59. | 28 | 59. | 53 |
| 6 | Ven. | 11. | 26. | 7. | 21 | 0. | 5. | 32. | 3 | 4. | 35. | 33 | | 4. | 48. | 45 | | 60. | 14 | 60. | 33 |
| 7 | Sat. | 0. | 11. | 1. | 25 | 0 | 18. | 34. | 0 | 4. | 57. | 5 | | 5. | 0. | 18 | | 60. | 47 | 60. | 58 |
| 8 | Dom | 0. | 26. | 8. | 36 | 1. | 3. | 43. | 44 | 4. | 58. | 16 | | 4. | 51. | 2 | | 61. | 3 | 61. | 4 |
| 9 | Lun. | 1. | 11. | 18. | 9 | 1. | 18. | 50. | 32 | 4. | 38 | 38 | | 4. | 21. | 26 | | 61. | 1 | 60. | 53 |
| 10 | Mar | 1. | 26. | 19. | 48 | 2. | 3. | 41. | 56 | 3. | 59. | 46 | | 3. | 34. | 15 | | 60. | 41 | 60. | 26 |
| 11 | Mer | 2. | 11. | 5. | 5 | 2. | 18. | 19. | 46 | 3. | 5. | 23 | | 2. | 33. | 52 | | 60. | 9 | 59. | 48 |
| 12 | Jov. | 2. | 25. | 28. | 39 | 3. | 2. | 31. | 38 | 2. | 0. | 18 | | 1. | 25. | 20 | | 59. | 27 | 59. | 4 |
| 13 | Ven. | 3. | 9. | 28. | 26 | 3. | 16. | 19. | 20 | 0. | 49. | 34 | | 0. | 13. | 33 | | 58. | 40 | 58. | 16 |
| 14 | Sat. | 3. | 23. | 4. | 40 | 3 | 29. | 44. | 44 | 0. | 22. | 9 | A | 0. | 57. | 4 | A | 57. | 52 | 57. | 29 |
| 15 | Dom | 4. | 6. | 19. | 46 | 4. | 12. | 50. | 10 | 1. | 30. | 48 | | 2. | 2. | 57 | | 57. | 65 | 56. | 45 |
| 16 | Lun. | 4. | 19. | 16. | 21 | 4. | 25. | 38. | 42 | 2. | 33. | 7 | | 3. | 1. | 0 | | 56. | 25 | 56. | 6 |
| 17 | Mar | 5. | 1. | 57. | 32 | 5. | 8. | 13. | 14 | 3. | 26. | 26 | | 3. | 49. | 8 | | 55. | 48 | 55. | 32 |
| 18 | Mer | 5. | 14. | 26. | 9 | 5. | 20. | 36. | 34 | 4. | 8. | 54 | | 4. | 25. | 34 | | 55. | 17 | 55. | 7 |
| 19 | Jov. | 5. | 26. | 44. | 42 | 6. | 2. | 50. | 47 | 4. | 39. | 1 | | 4. | 49. | 11 | | 54. | 51 | 54. | 40 |
| 20 | Ven. | 6. | 8. | 55. | 3 | 6. | 14. | 57. | 36 | 4. | 55. | 59 | | 4. | 59. | 25 | | 54. | 30 | 54. | 22 |
| 21 | Sat. | 6. | 20. | 58. | 34 | 6. | 26. | 58. | 54 | 4. | 59. | 30 | | 4. | 56. | 16 | | 54. | 15 | 54. | 8 |
| 22 | Dom | 7. | 5. | 56. | 21 | 7. | 8. | 53. | 31 | 4. | 49. | 46 | | 4. | 40. | 5 | | 54. | 3 | 55. | 0 |
| 23 | Lun. | 7. | 14. | 49. | 40 | 7. | 20. | 45. | 0 | 4. | 27. | 21 | | 4. | 11. | 44 | | 53. | 57 | 53. | 57 |
| 24 | Mar | 7. | 26. | 39. | 46 | 7. | 2. | 34. | 13 | 3 | 53. | 25 | | 3. | 32. | 35 | | 53. | 57 | 53. | 59 |
| 25 | Mer | 8. | 8. | 28. | 40 | 8. | 14. | 23. | 28 | 3 | 9. | 24 | | 2. | 44. | 6 | | 54. | 35 | 54. | 8 |
| 26 | Jov. | 8. | 20. | 19. | 1 | 8. | 26. | 15. | 47 | 2. | 16. | 56 | | 1. | 48. | 9 | | 54. | 16 | 54. | 25 |
| 27 | Ven. | 9. | 2. | 14. | 15 | 9. | 8. | 14. | 35 | 1. | 18. | 1 | | 0. | 46. | 46 | | 54. | 36 | 54. | 49 |
| 28 | Sat. | 9. | 14. | 18. | 26 | 9. | 20. | 25. | 25 | 0. | 14. | 45 | | 0. | 17. | 46 | B | 55. | 65 | 55. | 24 |
| 29 | Dom | 9. | 26. | 36. | 28 | 10. | 2. | 52. | 10 | 0. | 50. | 28 | B | 1. | 22. | 59 | | 55. | 44 | 56. | 7 |
| 30 | Lun. | 10. | 9. | 13. | 47 | 10. | 15. | 40. | 16 | 1. | 54. | 59 | | 2. | 26. | 1 | | 56. | 31 | 56. | 58 |
| 31 | Mar. | 10. | 22. | 13. | 43 | 10. | 28. | 54. | 12 | 2. | 55. | 36 | | 3. | 23. | 16 | | 57. | 25 | 57. | 54 |

| Dies hebdomadae Dies mensis | Diameter horiz. Lunae Meridie | | horiz. Lunae media nocte | | Declinatio Lunae in Meridia- no | | Ortus Lunae | | Transitus Lunae per Meridia- num | | Occasus Lunae | |
|--------------------------------|--|----|-----------------------------------|----|---|------|----------------|-------|--|-------|------------------|-------|
| | M. | S. | M. | S. | G. | M. | H. | M. | H. | M. | H. | M. |
| 1 Dom | 30. | 38 | 30. | 52 | 21. | 33 A | 2. | 36 V | 7. | 3 V | 11. | 39 V |
| 2 Lun. | 31. | 6 | 31. | 21 | 17. | 45 | 3. | 7 | 7. | 53 | | * M + |
| 3 Mar | 31. | 36 | 31. | 52 | 12. | 55 | 3. | 55 | 8. | 43 | 0. | 50 |
| 4 Mer | 32. | 7 | 32. | 22 | 7. | 11 | 3. | 59 | 9. | 32 | 2. | 3 |
| 5 Jov. | 32. | 37 | 32. | 49 | 0. | 55 | 4. | 23 | 10. | 22 | 3. | 17 |
| 6 Ven. | 33. | 2 | 33. | 12 | 5. | 29 B | 4. | 47 | 11. | 13 | 4. | 34 |
| 7 Sat. | 33. | 20 | 33. | 25 | * | * | 5. | 14 | | * M + | 5. | 52 |
| 8 Dom | 33. | 29 | 33. | 29 | 11. | 58 | 5. | 43 | 0. | 7 | 7. | 14 |
| 9 Lun. | 33. | 28 | 33. | 23 | 17. | 34 | 6. | 20 | 1. | 4 | 8. | 38 |
| 10 Mar | 33. | 17 | 33. | 8 | 21. | 58 | 7. | 7 | 2. | 4 | 9. | 57 |
| 11 Mer | 32. | 59 | 32. | 48 | 24. | 43 | 8. | 4 | 3. | 7 | 11. | 13 |
| 12 Jov. | 32. | 36 | 32. | 23 | 25. | 27 | 9. | 7 | 4. | 10 | 0. | 15 V |
| 13 Ven. | 32. | 10 | 31. | 57 | 24. | 31 | 10. | 17 | 5. | 11 | 1. | 10 |
| 14 Sat. | 31. | 44 | 31. | 31 | 21. | 54 | 11. | 27 | 6. | 8 | 1. | 51 |
| 15 Dom | 31. | 18 | 31. | 9 | 18. | 7 | | * M + | 7. | 1 | 2. | 26 |
| 16 Lun. | 30. | 55 | 30. | 46 | 13. | 28 | 0. | 36 | 7. | 50 | 2. | 58 |
| 17 Mar | 30. | 36 | 30. | 27 | 8. | 17 | 1. | 46 | 8. | 36 | 3. | 14 |
| 18 Mer | 30 | 19 | 30 | 11 | 2. | 55 | 2. | 53 | 9. | 19 | 3. | 34 |
| 19 Jov. | 30. | 5 | 29. | 59 | 2. | 32 A | 3. | 56 | 10. | 1 | 3. | 55 |
| 20 Ven. | 29. | 54 | 29. | 49 | 7. | 51 | 5. | 1 | 10. | 43 | 4. | 12 |
| 21 Sat. | 29. | 45 | 29. | 41 | 12. | 45 | 6. | 5 | 11. | 25 | 4. | 35 |
| 22 Dom | 29. | 38 | 29. | 36 | 17. | 5 | 7. | 10 | 0. | 9 V | 4. | 58 |
| 23 Lun. | 29. | 35 | 29. | 35 | 20. | 39 | 8. | 15 | 0. | 55 | 5. | 27 |
| 24 Mar | 29. | 35 | 29. | 36 | 23. | 22 | 9. | 17 | 1. | 42 | 6. | 3 |
| 25 Mer | 29. | 38 | 29. | 41 | 24. | 58 | 10. | 13 | 2. | 30 | 6. | 44 |
| 26 Jov. | 29. | 45 | 29. | 50 | 25. | 22 | 11. | 7 | 3. | 20 | 7. | 33 |
| 27 Ven. | 29. | 56 | 30. | 3 | 24. | 32 | 11. | 55 | 4. | 11 | 8. | 30 |
| 28 Sat. | 30. | 13 | 30. | 23 | 22. | 26 | 0. | 36 V | 5. | 1 | 9. | 32 |
| 29 Dom | 30. | 34 | 30. | 47 | 19. | 11 | 1. | 11 | 5. | 50 | 10. | 38 |
| 30 Lun | 30. | 59 | 31. | 15 | 14. | 53 | 1. | 59 | 6. | 38 | 11. | 47 |
| 31 Mar | 31. | 29 | 31. | 45 | 9. | 44 | 2. | 5 | 7. | 56 | | * M + |

| Diebus. | Longitudo | Latitudo | Declina- | Ortus | Transit. | Occasus |
|--------------------|-----------------|-----------------|---------------------|-----------------|--------------------------------|-----------------|
| | Planeta- rum | Planeta- rum | tio Plan- etarum | Planeta- rum | Planet. per Me- ridianum | Planeta- rum |
|  | \| S. G. M. \| | G. M. \| | G. M. \| | H. M. \| | H. M. \| | H. M. |
| U R A N U S. | | | | | | |
| 1 | 3. 25 12 | o. 29 B | 21. 36 B | 11. 40 V | 7. 18 M | 2. 56 V |
| 16 | 3. 25. 31 | o. 29 | 21. 33 | 10. 46 | 6. 24 | 2. 2 |
| S A T U R N U S. | | | | | | |
| 1 | 10. 10. 38 | 1. 4 A | 18. 37 A | 3. 28 V | 8. 21 V | 1. 4 M |
| 7 | 10. 10. 32 | 1. 4 | 18. 39 | 3. 16 | 7. 59 | o. 42 |
| 13 | 10. 10. 30 | 1. 4 | 18. 39 | 2. 53 | 7. 37 | o. 20 |
| 19 | 10. 10. 30 | 1. 4 | 18. 39 | 2. 31 | 7. 14 | 11. 57 V |
| 25 | 10. 10. 35 | 1. 3 | 18. 37 | 2. 9 | 6. 52 | 11. 35 |
| J U P I T E R. | | | | | | |
| 1 | 1. 30. 36 | 1. 18 A | 16. 40 B | 7. 27 V | 2. 41 M | 9. 54 M |
| 7 | 1. 20. 8 | 1. 19 | 16. 32 | 7. 3 | 2. 17 | 9. 31 |
| 13 | 1. 19. 34 | 1. 19 | 16. 23 | 6. 40 | 1. 53 | 9. 5 |
| 19 | 1. 18. 53 | 1. 19 | 16. 11 | 6. 15 | 1. 27 | 8. 59 |
| 25 | 1. 18. 10 | 1. 19 | 16. 0 | 5. 51 | 1. 2 | 8. 13 |
| M A R S. | | | | | | |
| 1 | 6. 20. 9 | o. 34 B | 7. 31 A | 7. 12 M | o. 44 V | 6. 16 V |
| 7 | 6. 24. 10 | o. 21 | 9. 3 | 7. 11 | o. 37 | 6. 3 |
| 13 | 6. 28. 14 | o. 18 | 10. 35 | 7. 11 | o. 30 | 5. 49 |
| 19 | 7. 2. 19 | o. 14 | 12. 4 | 7. 10 | o. 23 | 5. 36 |
| 25 | 7. 6. 26 | o. 11 | 13. 31 | 7. 9 | o. 16 | 5. 23 |
| V E N U S. | | | | | | |
| 1 | 7. 23. 52 | 2. 7 A | 21. 8 A | 10. 21 M | 2. 52 V | 7. 25 V |
| 7 | 8. 0. 25 | 2. 49 | 23. 1 | 10. 37 | 2. 58 | 7. 19 |
| 13 | 8. 6. 50 | 3. 10 | 24. 36 | 10. 50 | 3. 3 | 7. 16 |
| 19 | 8. 13. 6 | 3. 27 | 25. 49 | 11. 1 | 3. 7 | 7. 13 |
| 25 | 8. 19. 12 | 3. 41 | 26. 42 | 11. 10 | 3. 11 | 7. 12 |
| M E R C U R I U S. | | | | | | |
| 1 | 5 23. 29 | 1. 53 B | 4. 19 B | 4. 49 M | 11. 10 M | 5. 31 V |
| 7 | 6. 3. 40 | 1. 51 | 0. 15 | 5. 22 | 11. 26 | 5. 30 |
| 13 | 6. 14. 9 | 1. 29 | 4. 13 A | 5. 56 | 11. 42 | 5. 28 |
| 19 | 6. 24. 23 | o. 55 | 3. 37 | 6. 29 | 11. 57 | 5. 25 |
| 25 | 7 4. 50 | o. 16 | 12. 44 | 6. 58 | o. 8 | 5. 18 |

ECLIPSES SATELLIFUM JOVIS.

| <i>Dies mensis</i> | I. Satelles . | | <i>Dies</i> | II. Satelles | | <i>Dies</i> | III. Satelles . | |
|--------------------|--------------------|--------------|-------------|--------------------|--------------|-------------|-----------------------|--------------|
| | <i>Immerfiones</i> | | | <i>Immerfiones</i> | | | <i>Imersf. Emerf.</i> | |
| | <i>H.</i> | <i>M. S.</i> | | <i>H.</i> | <i>M. S.</i> | | <i>H.</i> | <i>M. S.</i> |
| 1 | 2. | 7. 28. | 2 | 20. | 34. 20 | 1 | 2. 15. 15. I | |
| 2 | 20. | 36. 30. | 6 | 9 * | 54. 13 | 1 | 3. 53. 1. E | |
| 4 | 15.* | 5. 28. | 9 | 23. | 13. 57 | 8 | 6. 17. 20. I | |
| 6 | 9.* | 34. 27. | 13 | 12.* | 53. 39 | 8 | 7. 55. 10. E | |
| 8 | 4 | 3. 25 | 17 | 1 | 53. 11 | 15 | 10.*19. 24. I | |
| 9 | 22. | 32. 24. | 20 | 15.* | 12. 39 | 15 | 11.*57. 24. E | |
| 11 | 17.* | 1. 19. | 24 | 4. | 31. 58 | 22 | 14.*21. 0. I | |
| 13 | 11.* | 30. 13. | 27 | 17.* | 51. 10 | 22 | 15.*59. 19. E | |
| 15 | 5. | 58. 8 | 31 | 7. | 10. 15 | 29 | 18.*22. 7. I | |
| 17 | 0. | 1. 0. | | | | 29 | 20. 0. 45. E | |
| 18 | 18. | 56. 49. | | | | | | |
| 20 | 13.* | 25. 40. | | | | <i>Dies</i> | IV. Satelles . | |
| 22 | 7. | 54. 23 | | | | | <i>Confunctiones.</i> | |
| 24 | 2. | 23. 11. | | | | 8 | 12.*34.24 inf. | |
| 25 | 20. | 51. 53. | | | | 16 | 20. 44.24. sup. | |
| 27 | 15 * | 20. 38. | | | | 25 | 3. 2.24. inf. | |
| 29 | 9.* | 49. 17. | | | | | | |
| 31 | 4. | 17. 53. | | | | | | |

| <i>Dies</i> | <i>Diameter Solis</i> | <i>Mora transitus Solis per Meridian.</i> | <i>Motus horarius Solis</i> | <i>Logarithmus distantiae Solis a terra posita media 100000.</i> | <i>Longitudo Nodi Lunae</i> |
|-------------|-----------------------|---|-----------------------------|--|-----------------------------|
| | <i>M. S.</i> | <i>M. S.</i> | <i>M. S.</i> | | <i>S. G. M.</i> |
| 1 | 32. 2,8 | 2. 8, 4 | 2. 27, 8 | 4 999964. | 9. 19. 30 |
| 4 | 32. 4,5 | 2. 8, 7 | 2. 28, 1 | 4 999583. | 9. 19. 21 |
| 7 | 32. 6,2 | 2. 9, 0 | 2. 28, 4 | 4 999208. | 9. 19. 11 |
| 10 | 32. 8,0 | 2. 9, 4 | 2. 28, 6 | 4 998841. | 9. 19. 2 |
| 13 | 32. 7,0 | 2. 9, 8 | 2. 28, 9 | 4 998477. | 9. 18. 52 |
| 16 | 32. 11,3 | 2. 10, 3 | 2. 29, 1 | 4 998117. | 9. 18. 43 |
| 19 | 32. 12,9 | 2. 10, 8 | 2. 29, 3 | 4 997758. | 9. 18. 33 |
| 22 | 32. 14,5 | 2. 11, 4 | 2. 29, 5 | 4 997401. | 9. 18. 24 |
| 25 | 32. 16,2 | 2. 12, 0 | 2. 29, 3 | 4 997040. | 9. 18. 14 |
| 28 | 32. 17,7 | 2. 12, 6 | 2. 30, 0 | 4 996682. | 9. 18. 4 |

POSITIONES SATELLITUM JOVIS

Oriens

1^a Mars

Occidens

| | <i>Oriens</i> | <i>1^a Mars</i> | <i>Occidens</i> |
|----|---------------|---------------------------|-----------------|
| 1 | | 4. ○ .1 | .1 |
| 2 | | 4. 1.1. ○ .2 | .2 |
| 3 | 4. | 1. ○ 1.2. | 1.2. |
| 4 | 4. | .1 2. .1 ○ | |
| 5 | 4. | .2 .1 ○ 1. | 1. |
| 6 | .4 | .1 ○ 2. 1 | 2. 1 |
| 7 | .4 | 1. 1. ○ | |
| 8 | | 2. 1. 4. ○ .1 1. | .1 1. |
| 9 | 4. 1 | 1. 1. ○ 2. | 2. |
| 10 | | ○ .1 2. .4 | .1 2. .4 |
| 11 | | 1. 2. .1 ○ | .4 |
| 12 | | 2. 1. ○ 1. | .4 |
| 13 | | .1 ○ .1 2. | .4 |
| 14 | 10 10 | ○ | .1 4. |
| 15 | | 2. ○ .1 1. 4. | 1. 4. |
| 16 | | 1. 1. ○ .2 4. | 4. |
| 17 | | 1. ○ 4. 2. 2. | .2 2. |
| 18 | | .1 4. 2. 1. ○ | |
| 19 | 4. | 3. 1. ○ 1. | 1. |
| 20 | 4 | .1 ○ .1 .2 | .1 .2 |
| 21 | 4. | ○ 2. .1 | .1 |
| 22 | 4. | 2. ○ 1. | 1. |
| 23 | .4 | .1 ○ 1. | 1. |
| 24 | .4 1. | ○ .1 2 | .1 2 |
| 25 | .1 | .4 1. 2. ○ | |
| 26 | | 2. 1. ○ .4 1 | .4 1 |
| 27 | | .1 ○ .1 .2 .1 | .1 .2 .1 |
| 28 | | ○ 1. 1. 1. 4. | 1. 1. 4. |
| 29 | | 1. .1 ○ 1. | 1. |
| 30 | | 1. 1. 1. ○ .1 .2 4. | .1 .2 4. |

| <i>Dies</i> | <i>Phenomena & Observationes Solis</i> |
|-------------|--|
| | Sol in parallelo |
| 1 | 53° Eridani culm. 13 ^h 57' |
| 2 | α Librae culm. 0 ^h 5' |
| 3 | δ Corvi & γ Canis culm. 21 ^h 38' & 16 ^h 15' |
| 7 | η Oph. & β Capri culm. 2 ^h 20' & 5 ^h 30' |
| 6 | γ Corvi & Sirii culm. 14 ^h 12' & 15 ^h 42' |
| 7 | in nodo descend. Mercurii |
| 9 | α Crat. & δ Aqrar. culm. 19 ^h 45' & 7 ^h 41' |
| 11 | γ Capr. & β Canis culm. 6 ^h 18' & 15 ^h 2' |
| 12 | α Leporis culm. 14 ^h 8' |
| 17 | β Scorp. β & θ Ceti culm. 0 ^h 18' 8 ^h 57', 9 ^h 38' |
| 21 | in signo Sagittarii 14 ^h 45' 54° Eridani culm. 12 ^h 38' |
| 25 | δ & β Lep. culm. 13 ^h 32' & 13 ^h 9' |
| 27 | ε Corvi culm. 19 ^h 40' |

| <i>Dies</i> | <i>Phenomena & Observationes Planetarum</i> |
|-------------|--|
| 2 | Mars ad α Librae diff. lat. 18' |
| 3 | Mercur. ad 2. 1 Librae diff. lat. 50' |
| 4 | Saturnus ad θ Capri diff. lat. 32' |
| 7 | Mars in conjunctione cum Sole |
| 8 | Oppositio Jovis |
| 10 | Mercur. ad δ Scorpii diff. lat. 28' |
| 14 | Venus ad φ Sagittarii diff. lat. 5' |
| 16 | Venus ad σ Sagittarii diff. lat. 20' |
| 20 | Mars ad x Librae diff. lat. 5' |
| 22 | Venus ad ψ Sagittarii diff. lat. 32' |
| 23 | Mars ad λ Librae diff. lat. 13' |
| 26 | Venus ad 1. 2. 3. x Sagittarii diff. lat. 46', 49', 10 16' |
| 29 | Mars ad 1. 2. ω Scorpii diff. lat. 29' & 16' |

| <i>Dies</i> | <i>Phenomena & Observationes Luna</i> |
|-------------|--|
| | Luna |
| 2 | ad λ & 19. Piscium 6 ^h 39' & 9 ^h 32' |
| 4 | ad η Piscium 7 ^h 35' |
| 5 | Pleilunium 15 ^h 1' |
| 6 | Perigea ad η Tauri 11 ^h 36' |
| 8 | ad 125. Tauri 4 ^h 6' |
| 9 | ad ε Geminorum 3 ^h 57' & 18 ^h 25' |
| 12 | Ultimus Quadrans 8 ^h 43' |
| 12 | ad ξ & ο Leonis 5 ^h 6' & 9 ^h 54' |
| 12 | ad π Leonis Imm. 18 ^h 11' dist. 4' Em. 19 ^h 27' |
| 14 | ad ε Leonis 19 ^h 16' |
| 20 | Novilunium 10 ^h 23' . . Apogea |
| 21 | ad Mercurii 23 ^h 48' |
| 25 | ad λ Sagittarii 8 ^h 4' |
| 27 | ad θ Aquarii 21 ^h 51' |
| 28 | ad x Aquarii 9 ^h 4' |
| 28 | Primus quadrans 9 ^h 51' |
| 29 | ad x Piscium 9 ^h 0' |

Planetae in parallelis fixurum .

Uranus p & 104. Geminorum & 4. u. Cancri.
 Saturnus γ Scorpii, x Librae, α Leporis, β Canis.
 Jupiter α Tauri, β Leonis, γ & α Delphini, γ Tauri, ε Aquilae, ζ Bootis, α Herculis.
 Mars α Librae, γ Canis, Sirii, α Crateris, β Canis, β Scorpii, β Ceti, 54. Eridani.
 Venus τ Scorpii, θ Canis, σ, σ Sagittarii, δ Canis, α & π Scorpii, λ Sagittarii, L Eridani, σ Scorpii, θ Ophiuci.
 Mercurius α Leporis, β Scorpii, β Ceti, 54. Eridani, δ, β Leporis, μ. π Sagittarii, ε, β, α Corvi, δ Scorpii, γ Hydrae, φ Sagittarii, ρ, 2. Navis, γ & φ Scorpii, θ Ophiuci, L Eridani, π & α Scorpii, λ Sagittarii, δ Canis.

| Dies mensis | Dies hebdomadae | Æquatio subtrahenda a tempore vero ut habeatur medium | | Differentia | Longitudo Solis | | | | Astenſio recta Solis | | | Declinatio Solis Auſtralis | | |
|-------------|-----------------|---|-------|-------------|-----------------|-----|-----|----|----------------------|-----|----|----------------------------|-----|----|
| | | M. | S. | S. | S. | G. | M. | S. | G. | M. | S. | G. | M. | S. |
| 1 | Mer | 16. | 13, 1 | 1, 4 | 7. | 9. | 13. | 46 | 216. | 49. | 47 | 14. | 35. | 14 |
| 2 | Jov. | 16. | 13, 6 | 0, 5 | 7. | 10. | 13. | 55 | 217. | 48. | 46 | 14. | 54. | 17 |
| 3 | Ven. | 16. | 13, 3 | 0, 3 | 7. | 11. | 14. | 6 | 218. | 47. | 59 | 15. | 13. | 5 |
| 4 | Sat. | 16. | 13, 2 | 1, 1 | 7. | 12. | 14. | 18 | 219. | 47. | 23 | 15. | 31. | 38 |
| 5 | Dom | 16. | 10, 4 | 1, 8 | 7. | 13. | 14. | 32 | 220. | 46. | 59 | 15. | 49. | 56 |
| 6 | Lun. | 16. | 7, 7 | 2, 7 | 7. | 14. | 14. | 48 | 221. | 46. | 48 | 16. | 7. | 58 |
| 7 | Mar | 16. | 4, 2 | 3, 5 | 7. | 15. | 15. | 6 | 222. | 46. | 50 | 16. | 25. | 44 |
| 8 | Mer | 15. | 59, 8 | 4, 4 | 7. | 16. | 15. | 26 | 223. | 47. | 5 | 16. | 43. | 14 |
| 9 | Jov | 15. | 54, 5 | 5, 3 | 7. | 17. | 15. | 48 | 224. | 47. | 32 | 17. | 0. | 27 |
| 10 | Ven | 15. | 48, 4 | 6, 1 | 7. | 18. | 16. | 12 | 225. | 48. | 12 | 17. | 17. | 22 |
| 11 | Sat. | 15. | 41, 4 | 7, 0 | 7. | 19. | 16. | 38 | 226. | 49. | 5 | 17. | 33. | 59 |
| 12 | Dom. | 15. | 33, 5 | 7, 9 | 7. | 20. | 17. | 6 | 227. | 50. | 12 | 17. | 50. | 15 |
| 13 | Lun. | 15. | 24, 7 | 8, 8 | 7. | 21. | 17. | 36 | 228. | 51. | 33 | 18. | 6. | 19 |
| 14 | Mar | 15. | 15, 0 | 9, 7 | 7. | 22. | 18. | 8 | 229. | 53. | 7 | 18. | 22. | 1 |
| 15 | Mer | 15. | 4, 5 | 10, 5 | 7. | 23. | 18. | 42 | 230. | 54. | 53 | 18. | 37. | 23 |
| 16 | Jov. | 14. | 53, 2 | 11, 3 | 7. | 24. | 19. | 17 | 231. | 56. | 52 | 18. | 52. | 25 |
| 17 | Ven. | 14. | 41, 0 | 12, 2 | 7. | 25. | 19. | 54 | 232. | 59. | 4 | 19. | 7. | 4 |
| 18 | Sat. | 14. | 28, 0 | 13, 0 | 7. | 26. | 20. | 33 | 234. | 1. | 28 | 19. | 21. | 51 |
| 19 | Dom | 14. | 14, 1 | 13, 9 | 7. | 27. | 21. | 14 | 235. | 4. | 6 | 19. | 35. | 52 |
| 20 | Lun | 13. | 59, 4 | 14, 7 | 7. | 28. | 21. | 56 | 236. | 6. | 55 | 19. | 49. | 12 |
| 21 | Mar | 13. | 43, 9 | 15, 5 | 7. | 29. | 22. | 39 | 237. | 9. | 56 | 20. | 2. | 20 |
| 22 | Mer | 13. | 27, 7 | 16, 2 | 8. | 0. | 23. | 24 | 238. | 13. | 9 | 20. | 15. | 26 |
| 23 | Jov. | 13. | 10, 7 | 17, 0 | 8. | 1. | 24. | 10 | 239. | 16. | 34 | 20. | 27. | 59 |
| 24 | Ven. | 12. | 52, 9 | 17, 8 | 8. | 2. | 24. | 57 | 240. | 20. | 11 | 20. | 40. | 9 |
| 25 | Sat. | 12. | 34, 3 | 18, 6 | 8. | 3. | 25. | 45 | 241. | 23. | 59 | 20. | 51. | 56 |
| 26 | Dom | 12. | 11, 9 | 19, 4 | 8. | 4. | 26. | 34 | 242. | 27. | 57 | 21. | 3. | 20 |
| 27 | Lun. | 11. | 54, 8 | 20, 1 | 8. | 5. | 27. | 24 | 243. | 32. | 6 | 21. | 14. | 20 |
| 28 | Mar | 11. | 34, 1 | 20, 7 | 8. | 6. | 28. | 15 | 244. | 36. | 25 | 21. | 24. | 56 |
| 29 | Mer | 11. | 12, 8 | 21, 3 | 8. | 7. | 29. | 6 | 245. | 40. | 54 | 21. | 35. | 7 |
| 30 | Jov. | 10. | 50, 9 | 21, 9 | 8. | 8. | 29. | 58 | 246. | 45. | 33 | 21. | 44. | 53 |
| | | | | 22, 6 | | | | | | | | | | |

| Dies mensis | Dies hebdomadae | Distantia sectionis γ a Sole | | | Differrentia | Initium Crepusculi | Ortus Centri Solis | Occasus Centri Solis | Finis Crepusculi | Hera Italica Meridiei | |
|-------------|-----------------|-------------------------------------|-----|------|--------------|--------------------|--------------------|----------------------|------------------|-----------------------|--------|
| | | H. | M. | S. | | | | | | M. | S. | H. | M. |
| 1 | Mer | 9. | 32. | 40,9 | | 5. 16 | 6. 58 | 5. 2 | 6. 44 | 18. 28 | |
| 2 | Jov. | 9. | 28. | 44,9 | 3. | 56,0 | 5. 18 | 7. 0 | 5. 0 | 6. 42 | 18. 30 |
| 3 | Ven. | 9. | 24. | 48,1 | 3. | 56,8 | 5. 19 | 7. 1 | 4. 59 | 6. 41 | 18. 31 |
| 4 | Sat. | 9. | 20. | 50,5 | 3. | 57,6 | 5. 20 | 7. 3 | 4. 57 | 6. 40 | 18. 33 |
| 5 | Dom | 9. | 16. | 52,1 | 3. | 58,4 | 5. 21 | 7. 4 | 4. 56 | 6. 39 | 18. 34 |
| 6 | Lun | 9. | 12. | 52,8 | 3. | 59,3 | | | | | |
| 7 | Mar. | 9. | 8. | 52,7 | 4. | 0,1 | 5. 22 | 7. 5 | 4. 55 | 6. 38 | 18. 35 |
| 8 | Mer. | 9. | 8. | 52,7 | 4. | 1,0 | 5. 24 | 7. 6 | 4. 54 | 6. 26 | 18. 36 |
| 9 | Jov. | 9. | 4. | 51,7 | 4. | 1,8 | 5. 25 | 7. 8 | 4. 52 | 6. 35 | 18. 38 |
| 10 | Mer. | 9. | 0. | 49,9 | 4. | 2,7 | 5. 26 | 7. 9 | 4. 51 | 6. 34 | 18. 39 |
| 11 | Ven. | 8. | 56. | 47,2 | 4. | 3,6 | 5. 27 | 7. 10 | 4. 50 | 6. 33 | 18. 40 |
| 12 | Sat. | 8. | 52. | 45,6 | | | 5. 28 | 7. 12 | 4. 48 | 6. 32 | 18. 42 |
| 13 | Dom | 8. | 48. | 39,1 | 4. | 4,5 | 5. 29 | 7. 13 | 4. 47 | 6. 31 | 18. 43 |
| 14 | Lun. | 8. | 44. | 33,7 | 4. | 5,4 | 5. 30 | 7. 14 | 4. 46 | 6. 30 | 18. 44 |
| 15 | Mar. | 8. | 40. | 27,5 | 4. | 6,2 | 5. 31 | 7. 15 | 4. 45 | 6. 29 | 18. 45 |
| 16 | Mer. | 8. | 36. | 20,5 | 4. | 7,0 | 5. 32 | 7. 16 | 4. 44 | 6. 28 | 18. 46 |
| 17 | Jov. | 8. | 32. | 15,6 | 4. | 7,9 | | | | | |
| 18 | Ven. | 8. | 28. | 10,6 | 4. | 8,8 | 5. 33 | 7. 17 | 4. 43 | 6. 27 | 18. 47 |
| 19 | Sat. | 8. | 28. | 3,8 | 4. | 9,7 | 5. 34 | 7. 19 | 4. 41 | 6. 26 | 18. 49 |
| 20 | Dom | 8. | 23. | 54,1 | 4. | 9,7 | 5. 35 | 7. 20 | 4. 40 | 6. 25 | 18. 50 |
| 21 | Lun. | 8. | 19. | 43,6 | 4. | 10,5 | 5. 36 | 7. 21 | 4. 39 | 6. 24 | 18. 51 |
| 22 | Mar. | 8. | 15. | 32,3 | 4. | 11,3 | 5. 37 | 7. 22 | 4. 38 | 6. 23 | 18. 52 |
| 23 | Mer. | 8. | 11. | 20,2 | 4. | 12,1 | | | | | |
| 24 | Mer. | 8. | 7. | 7,3 | 4. | 12,9 | 5. 38 | 7. 23 | 4. 37 | 6. 22 | 18. 53 |
| 25 | Jov. | 8. | 2. | 53,7 | 4. | 13,6 | 5. 38 | 7. 24 | 4. 36 | 6. 22 | 18. 54 |
| 26 | Ven. | 7. | 58. | 39,3 | 4. | 14,4 | 5. 39 | 7. 25 | 4. 35 | 6. 21 | 18. 55 |
| 27 | Sat. | 7. | 54. | 24,1 | 4. | 15,2 | 5. 40 | 7. 26 | 4. 34 | 6. 20 | 18. 56 |
| 28 | Dom | 7. | 50. | 8,2 | 4. | 15,9 | 5. 40 | 7. 27 | 4. 33 | 6. 20 | 18. 57 |
| 29 | Lun. | 7. | 45. | 51,6 | 4. | 16,6 | 5. 41 | 7. 28 | 4. 32 | 6. 19 | 18. 58 |
| 30 | Mar. | 7. | 41. | 34,2 | 4. | 17,3 | 5. 42 | 7. 29 | 4. 31 | 6. 18 | 18. 59 |
| 31 | Mer. | 7. | 37. | 16,4 | 4. | 17,9 | 5. 43 | 7. 30 | 4. 30 | 6. 17 | 19. 0 |
| 32 | Jov. | 7. | 32. | 57,8 | 4. | 18,6 | 5. 43 | 7. 31 | 4. 29 | 6. 17 | 19. 1 |
| 33 | | | | | 4. | 19,3 | 5. 44 | 7. 32 | 4. 28 | 6. 16 | 19. 2 |

| Dies mensis | Dies hebdomadae | Longitudo Lunae Meridie | Longitudo Lunae media nocte | Latitudo Lunae Meridie | Latitudo Lunae med. noct. | Paral- laxis Lunae Meri- die | Paral- laxis Lunae media nocte |
|-------------|-----------------|-------------------------|-----------------------------|------------------------|---------------------------|--|--|
| | | S. G. M. S. | S. G. M. S. | G. M. S. | G. M. S. | M. S. | M. S. |
| 1 | Mer | 11. 5. 41. 57 | 11. 12. 37. 18 | 3. 48. 35 B | 4. 11. 0 B | 58. 23 | 58. 52 |
| 2 | Jov. | 11. 19. 40. 11 | 11. 26. 50. 31 | 4. 30. 6 | 4. 45. 19 | 59. 20 | 59. 48 |
| 3 | Ven. | 0. 4. 8. 10 | 0. 11. 32. 22 | 4. 56. 8 | 5. 2. 11 | 60. 13 | 60. 36 |
| 4 | Sat. | 0. 19. 2. 23 | 0. 26. 36. 58 | 5. 3. 9 | 4. 58. 49 | 60. 55 | 61. 11 |
| 5 | Dom | 1. 4. 15. 6 | 1. 11. 55. 8 | 4. 49. 8 | 4. 54. 15 | 61. 22 | 61. 27 |
| 6 | Lun. | 1. 19. 35. 51 | 1. 27. 15. 35 | 4. 14. 20 | 3. 49. 54 | 61. 28 | 61. 24 |
| 7 | Mar | 2. 4. 52. 54 | 2. 12. 26. 31 | 3. 21. 21 | 2. 49. 29 | 61. 15 | 61. 1 |
| 8 | Mer | 2. 19. 55. 24 | 2. 27. 18. 41 | 2. 14. 57 | 1. 38. 34 | 60. 43 | 60. 22 |
| 9 | Jov. | 3. 4. 35. 37 | 3. 11. 45. 52 | 1. 0. 59 | 0. 22. 58 | 59. 58 | 59. 31 |
| 10 | Ven. | 3. 18. 49. 6 | 3. 25. 45. 24 | 0. 14. 49 | 0. 51. 48 A | 59. 4 | 58. 56 |
| 11 | Sat. | 4. 2. 34. 53 | 4. 9. 17. 51 | 1. 27. 26 A | 2. 1. 18 | 58. 8 | 57. 39 |
| 12 | Dom | 4. 15. 54. 35 | 4. 22. 25. 33 | 2. 33. 1 | 3. 2. 16 | 57. 12 | 56. 47 |
| 13 | Lun. | 4. 28. 51. 6 | 5. 5. 11. 48 | 3. 28. 47 | 3. 52. 22 | 56. 22 | 55. 59 |
| 14 | Mar | 5. 11. 28. 13 | 5. 17. 40. 51 | 4. 12. 52 | 4. 30. 9 | 55. 38 | 55. 20 |
| 15 | Mer | 5. 23. 50. 1 | 5. 29. 56. 13 | 4. 44. 8 | 4. 54. 45 | 55. 3 | 54. 49 |
| 16 | Jov. | 6. 6. 0. 0 | 6. 12. 1. 44 | 5. 1. 58 | 5. 5. 45 | 54. 36 | 54. 25 |
| 17 | Ven. | 6. 18. 1. 43 | 6. 24. 0. 17 | 5. 6. 9 | 5. 3. 12 | 54. 16 | 54. 0 |
| 18 | Sat. | 6. 29. 57. 40 | 7. 5. 54. 9 | 4. 56. 56 | 4. 47. 29 | 54. 3 | 54. 0 |
| 19 | Dom | 7. 11. 50. 4 | 7. 17. 45. 32 | 4. 34. 54 | 4. 19. 21 | 53. 57 | 53. 56 |
| 20 | Lun. | 7. 23. 49. 51 | 7. 29. 36. 43 | 4. 0. 58 | 3. 40. 1 | 53. 56 | 53. 57 |
| 21 | Mar | 8. 5. 31. 29 | 8. 11. 27. 16 | 3. 16. 36 | 2. 51. 0 | 54. 0 | 54. 4 |
| 22 | Mer | 8. 17. 23. 36 | 8. 23. 20. 44 | 2. 23. 27 | 1. 54. 15 | 54. 9 | 54. 16 |
| 23 | Jov. | 8. 29. 19. 0 | 9. 5. 18. 43 | 1. 23. 39 | 0. 51. 57 | 54. 24 | 54. 35 |
| 24 | Ven. | 9. 11. 20. 9 | 9. 17. 23. 43 | 0. 19. 29 | 0. 13. 25 B | 54. 44 | 54. 57 |
| 25 | Sat. | 9. 23. 29. 53 | 9. 29. 39. 5 | 0. 46. 27 B | 1. 19. 15 | 55. 11 | 55. 27 |
| 26 | Dom | 10. 5. 51. 46 | 10. 12. 8. 26 | 1. 51. 27 | 2. 22. 40 | 55. 44 | 56. 4 |
| 27 | Lun. | 10. 18. 29. 29 | 10. 24. 55. 36 | 2. 52. 30 | 3. 20. 32 | 56. 25 | 56. 47 |
| 28 | Mar | 11. 1. 27. 6 | 11. 8. 4. 32 | 3. 46. 23 | 4. 9. 36 | 57. 11 | 57. 39 |
| 29 | Mer | 11. 14. 48. 8 | 11. 21. 38. 18 | 4. 29. 48 | 4. 46. 28 | 58. 2 | 58. 29 |
| 30 | Jov. | 11. 28. 35. 8 | 0. 5. 38. 44 | 4. 59. 16 | 5. 7. 43 | 58. 55 | 59. 21 |

| Dies mensis | Diameter horis. Lunae Meridie | | horis. Lunae media nocte | | Declinatio Lunae in Meridiano | | Ortus Lunae | | Transitus Lunae per Meridianum | | Occasus Lunae | |
|-------------|-------------------------------|----|--------------------------|----|-------------------------------|------|-------------|------|--------------------------------|------|---------------|------|
| | M. | S. | M. | S. | G. | M. | H. | M. | H. | M. | H. | M. |
| 1 Mer | 32. | 1 | 32. | 17 | 3. | 44 A | 2. | 28 V | 8. | 14 V | 0. | 59M |
| 2 Jov. | 32. | 32 | 32. | 48 | 2. | 51 B | 2. | 49 | 9. | 3 | 2. | 14 |
| 3 Ven. | 33. | 1 | 33. | 14 | 8. | 52 | 3. | 12 | 9. | 53 | 3. | 30 |
| 4 Sat. | 33. | 24 | 33. | 33 | 14. | 40 | 3. | 41 | 10. | 48 | 4. | 47 |
| 5 Dom | 33. | 39 | 33. | 42 | 19. | 46 | 4. | 14 | 11. | 47 | 6. | 8 |
| 6 Lun. | 33. | 43 | 33. | 41 | * | * | 4. | 57 | * M * | | 7. | 31 |
| 7 Mar | 33. | 37 | 33. | 28 | 23. | 23 | 5. | 50 | 0. | 50 | 8. | 50 |
| 8 Mer | 33. | 18 | 33. | 6 | 29. | 8 | 6. | 51 | 1. | 54 | 10. | 2 |
| 9 Jov. | 32. | 53 | 32. | 38 | 25. | 0 | 8. | 3 | 2. | 59 | 11. | 3 |
| 10 Ven. | 32. | 23 | 32. | 8 | 22. | 54 | 9. | 16 | 4. | 0 | 11. | 49 |
| 11 Sat. | 31. | 53 | 31. | 37 | 19. | 27 | 10. | 27 | 4. | 56 | 0. | 26 V |
| 12 Dom | 31. | 22 | 31. | 8 | 14. | 55 | 11. | 38 | 5. | 47 | 0. | 57 |
| 13 Lun. | 30. | 54 | 30. | 42 | 9. | 45 | * | M * | 6. | 35 | 1. | 19 |
| 14 Mar | 30. | 30 | 30. | 20 | 4. | 24 | 0. | 48 | 7. | 19 | 1. | 40 |
| 15 Mer | 30. | 11 | 30. | 3 | 1. | 1 A | 1. | 49 | 8. | 0 | 2. | 1 |
| 16 Jov. | 29. | 56 | 29. | 50 | 6. | 19 | 2. | 51 | 8. | 41 | 2. | 20 |
| 17 Ven. | 29. | 45 | 29. | 42 | 11. | 18 | 3. | 55 | 9. | 23 | 2. | 39 |
| 18 Sat. | 29. | 38 | 29. | 36 | 15. | 46 | 5. | 0 | 10. | 6 | 3. | 3 |
| 19 Dom | 29. | 34 | 29. | 34 | 19. | 37 | 6. | 2 | 10. | 50 | 3. | 28 |
| 20 Lun. | 29. | 34 | 29. | 35 | 22. | 32 | 7. | 6 | 11. | 37 | 4. | 2 |
| 21 Mar | 29. | 37 | 29. | 39 | 24. | 29 | 8. | 5 | 0. | 25 V | 4. | 41 |
| 22 Mer | 29. | 42 | 29. | 45 | 25. | 13 | 9. | 1 | 1. | 14 | 5. | 27 |
| 23 Jov. | 29. | 50 | 29. | 55 | 24. | 45 | 9. | 49 | 2. | 4 | 6. | 20 |
| 24 Ven. | 30. | 1 | 30. | 8 | 23. | 3 | 10. | 31 | 2. | 54 | 7. | 23 |
| 25 Sat. | 30. | 16 | 30. | 24 | 20. | 11 | 11. | 8 | 3. | 43 | 8. | 26 |
| 26 Dom | 30. | 34 | 30. | 44 | 16. | 17 | 11. | 39 | 4. | 31 | 9. | 33 |
| 27 Lun. | 30. | 55 | 31. | 8 | 11. | 29 | 0. | 3 V | 5. | 17 | 10. | 42 |
| 28 Mar | 31. | 21 | 31. | 35 | 6. | 1 | 0. | 24 | 6. | 2 | 11. | 53 |
| 29 Mer | 31. | 50 | 32. | 4 | 0. | 13 | 0. | 45 | 6. | 48 | * M * | |
| 30 Jov. | 32. | 19 | 32. | 33 | 5. | 48 B | 1. | 10 | 7. | 36 | 1. | 2 |

| Dies mens. | Longitudo | Latitudo | Declina- | Ortus | Transit. | Occus |
|---------------------------|-----------------|-----------------|---------------------|-----------------|--------------------------------|-----------------|
| | Planeta- rum | Planeta- rum | tio Pla- netarum | Planeta- rum | Planet. per Me- ridianum | Planeta- rum |
|  | \| S. G. M. \| | \| G. M. \| | \| G. M. \| | \| H. M. \| | \| H. M. \| | \| H. M. \| |
| U R A N U S. | | | | | | |
| 1 | \| 3. 25. 37 \| | \| 0. 30 B \| | \| 21. 32 B \| | \| 9. 46 V \| | \| 5. 24 M \| | \| 1. 2 V \| |
| 16 | \| 3. 25. 30 \| | \| 0. 31 \| | \| 21. 34 \| | \| 8. 44 \| | \| 4. 22 \| | \| 0. 0 M \| |
| S A T U R N U S. | | | | | | |
| 1 | \| 10. 10. 45 \| | \| 1. 3 A \| | \| 18. 35 A \| | \| 1. 42 V \| | \| 6. 26 V \| | \| 11. 9 V \| |
| 7 | \| 10. 10. 56 \| | \| 1. 3 \| | \| 18. 31 \| | \| 1. 20 \| | \| 6. 3 \| | \| 10. 46 \| |
| 13 | \| 10. 11. 14 \| | \| 1. 3 \| | \| 18. 26 \| | \| 0. 55 \| | \| 5. 39 \| | \| 10. 23 \| |
| 19 | \| 10. 11. 33 \| | \| 1. 3 \| | \| 18. 24 \| | \| 0. 32 \| | \| 5. 16 \| | \| 10. 0 \| |
| 25 | \| 10. 11. 55 \| | \| 1. 3 \| | \| 18. 15 \| | \| 0. 7 \| | \| 4. 58 \| | \| 9. 37 \| |
| J U P I T E R. | | | | | | |
| 1 | \| 1. 17. 14 \| | \| 1. 19 A \| | \| 15. 44 B \| | \| 5. 21 V \| | \| 0. 31 M \| | \| 7. 41 M \| |
| 7 | \| 1. 16. 25 \| | \| 1. 19 \| | \| 15. 31 \| | \| 4. 55 \| | \| 0. 4 \| | \| 7. 15 \| |
| 13 | \| 1. 15. 37 \| | \| 1. 18 \| | \| 15. 18 \| | \| 4. 29 \| | \| 11. 37 V \| | \| 6. 45 \| |
| 19 | \| 1. 14. 49 \| | \| 1. 17 \| | \| 15. 5 \| | \| 4. 2 \| | \| 11. 9 \| | \| 6. 16 \| |
| 25 | \| 1. 14. 4 \| | \| 1. 16 \| | \| 14. 52 \| | \| 3. 35 \| | \| 10. 41 \| | \| 5. 47 \| |
| M A R S. | | | | | | |
| 1 | \| 7. 11. 16 \| | \| 0. 6 B \| | \| 15. 8 A \| | \| 7. 8 M \| | \| 0. 8 V \| | \| 5. 8 V \| |
| 7 | \| 7. 15. 27 \| | \| 0. 3 \| | \| 16. 26 \| | \| 7. 6 \| | \| 0. 1 \| | \| 4. 55 \| |
| 13 | \| 7. 19. 39 \| | \| 0. 1 A \| | \| 17. 41 \| | \| 7. 4 \| | \| 11. 52 M \| | \| 4. 41 \| |
| 19 | \| 7. 23. 53 \| | \| 0. 4 \| | \| 18. 50 \| | \| 7. 2 \| | \| 11. 44 \| | \| 4. 26 \| |
| 25 | \| 7. 28. 8 \| | \| 0. 8 \| | \| 19. 54 \| | \| 6. 59 \| | \| 11. 36 \| | \| 4. 13 \| |
| V E N U S. | | | | | | |
| 1 | \| 8. 26. 1 \| | \| 3. 51 A \| | \| 27. 15 A \| | \| 11. 17 M \| | \| 3. 15 V \| | \| 7. 13 V \| |
| 7 | \| 9. 1. 32 \| | \| 3. 54 \| | \| 27. 22 \| | \| 11. 18 \| | \| 3. 16 \| | \| 7. 14 \| |
| 13 | \| 9. 6. 41 \| | \| 3. 49 \| | \| 27. 7 \| | \| 11. 15 \| | \| 3. 14 \| | \| 7. 13 \| |
| 19 | \| 9. 11. 22 \| | \| 3. 36 \| | \| 26. 34 \| | \| 11. 9 \| | \| 3. 10 \| | \| 7. 11 \| |
| 25 | \| 9. 15. 26 \| | \| 3. 14 \| | \| 25. 46 \| | \| 10. 57 \| | \| 3. 3 \| | \| 7. 9 \| |
| M E R C U R I U S. | | | | | | |
| 1 | \| 7. 14. 32 \| | \| 0. 31 A \| | \| 17. 0 A \| | \| 7. 53 M \| | \| 0. 24 V \| | \| 5. 15 V \| |
| 7 | \| 7. 24. 53 \| | \| 3. 54 \| | \| 20. 8 \| | \| 8. 2 \| | \| 0. 38 \| | \| 5. 14 \| |
| 13 | \| 8. 4. 2 \| | \| 7. 49 \| | \| 22. 40 \| | \| 8. 28 \| | \| 0. 51 \| | \| 5. 12 \| |
| 19 | \| 8. 12. 58 \| | \| 3. 36 \| | \| 24. 50 \| | \| 8. 52 \| | \| 1. 5 \| | \| 5. 18 \| |
| 25 | \| 8. 21. 38 \| | \| 3. 14 \| | \| 25. 35 \| | \| 9. 10 \| | \| 1. 17 \| | \| 5. 24 \| |

ECLIPSES SATELLITUM JOVIS.

| Dies mensis | I. Satelles. | | Dies | II. Satelles | | Dies | III. Satelles. | |
|-------------|--------------|---------|------|--------------|--------|------|----------------|--------------|
| | Immerfiones | | | Immerfiones | | | Immerf. Emerf. | |
| | H. | M. S. | | H. | M. S. | | H. | M. S. |
| 1 | 23. | 46. 31. | 3 | 20. | 29. 4 | 5 | 22. | 22. 39. I |
| 3 | 17.* | 15. 3. | 7 | 9. | 47. 50 | 6 | 0. | 1. 44. E |
| 5 | 11.* | 43. 18. | | Emerfiones | | 13 | 2. | 22. 38. I |
| 7 | 6.* | 12. 7. | 11 | 1. | 34. 19 | 13 | 4. | 2. 2. E |
| | Emerfiones | | 14 | 14.* | 53. 42 | 20 | 6.* | 20. 2. I |
| 9 | 2. | 48. 11. | 18 | 4. | 11. 0 | 20 | 8.* | 1. 52. E |
| 10 | 21. | 16. 36. | 21 | 17.* | 29. 10 | 27 | 10.* | 20. 41. I |
| 12 | 15.* | 45. 1. | 25 | 6.* | 47. 6 | 27 | 12.* | 1. 3. E |
| 14 | 10.* | 13. 21. | 28 | 20. | 4. 56 | | | |
| 16 | 4. | 41. 41. | | | | | | |
| 17 | 23. | 9. 58. | | | | | | |
| 19 | 17.* | 38. 13. | | | | Dies | IV. Satelles. | |
| 21 | 12.* | 6. 27. | | | | | Conjunctiões. | |
| 23 | 6. | 34. 27. | | | | 2 | 10.* | 58. 24. fup. |
| 25 | 1. | 8. 47. | | | | 10 | 17.* | 1. 24. inf. |
| 26 | 19. | 30. 53. | | | | 19 | 0. | 58. 24. fup. |
| 28 | 13.* | 59. 0. | | | | 27 | 7.* | 3. 24. inf. |
| 30 | 8.* | 27. 6 | | | | | | |

| Dies | Diameter Solis | Mora transitus Solis per Meridian. | Motus horarius Solis | Logarithmus distantiae Solis a terra posita media 100000. | Longitudo Nodi Lunae |
|------|----------------|------------------------------------|----------------------|---|----------------------|
| | M. S. | M. S. | M. S. | | S. G. M. |
| 1 | 32. 19,8 | 2. 13, 6 | 2. 30, 4 | 4. 996226. | 9. 17. 52 |
| 4 | 32. 20,9 | 2. 14, 3 | 2. 30, 6 | 4. 995898. | 9. 17. 42 |
| 7 | 32. 22,1 | 2. 15, 0 | 2. 30, 8 | 4. 995589. | 9. 17. 33 |
| 10 | 32. 23,5 | 2. 15, 7 | 2. 31, 1 | 4. 995295. | 9. 17. 23 |
| 13 | 32. 24,9 | 2. 16, 4 | 2. 31, 3 | 4. 995018. | 9. 17. 14 |
| 16 | 32. 26,2 | 2. 17, 1 | 2. 31, 5 | 4. 994751. | 9. 17. 4 |
| 19 | 32. 27,4 | 2. 17, 8 | 2. 31, 7 | 4. 994493. | 9. 16. 55 |
| 22 | 32. 28,6 | 2. 18, 4 | 2. 31, 9 | 4. 994245. | 9. 16. 45 |
| 25 | 32. 29,6 | 2. 19, 0 | 2. 32, 0 | 4. 994004. | 9. 16. 36 |
| 28 | 32. 30,5 | 2. 19, 6 | 2. 32, 1 | 4. 993781. | 9. 16. 26 |

POSITIONES SATELLITUM JOVIS

| | Oriens | I ^h Mane | Occidens |
|----|--------|---------------------|----------|
| 1 | | 1.2 | 1.4 |
| 2 | 3.0 | 1. | 4.2 |
| 3 | | 4. | 1.2.3 |
| 4 | 4. | 2.1 | 3. |
| 5 | 4. | 2. | 1.3. |
| 6 | 4. | 2.1 | 2. |
| 7 | 4. | 3. | 2. |
| 8 | 4. | 3.2 | 1. |
| 9 | | 4.1.2 | 2. |
| 10 | | 4. | 1.2.3.4 |
| 11 | | 1.2. | 4.3 |
| 12 | | 2. | 1.3.4 |
| 13 | | 3.1 | 2.4 |
| 14 | 10 | 1. | 2.4 |
| 15 | | 1.2.3 | 1.4 |
| 16 | 2.0 | 1.1 | 4. |
| 17 | | 2.1 | 1.2.3.4 |
| 18 | | 2.1 | 4.3 |
| 19 | | 2.2 | 1.2.3.4 |
| 20 | | 4.1 | 2.3.4 |
| 21 | 4. | 1. | 2.3.4 |
| 22 | 4. | 1.2. | 1.2.3.4 |
| 23 | 4. | 1.1 | 1.2.3.4 |
| 24 | 4. | 1.2. | 1.2.3.4 |
| 25 | | 1.2. | 1.2.3.4 |
| 26 | | 4.2 | 1.2.3. |
| 27 | 4.0 | 1.1 | 2. |
| 28 | | 1. | 1.2.3.4 |
| 29 | | 2.1 | 1.4 |
| 30 | 10 | 1.2 | 4. |

| Dies | Phenomena & Observationes Solis | Dies | Phenomena & Observationes Luna |
|------|--|------|--|
| | Sol in parallelo | | Luna |
| 1 | ♄ Scorpii & ♃ Hydrae culm. 23 ^h 11' & 20 ^h 31' | 1 | ad η Piscium 17 ^h 57' |
| 2 | ♂ Corvi culm. 19 ^h 42' | 3 | ad η Tauri 23 ^h 0' |
| 4 | in nodo descendentē Urani. | 4 | Perigea |
| 5 | ♃ Leporis culm. 13 ^h 42' | 5 | Plenilunium 1 ^h 9' . . . ad 135. Tauri 15 ^h 11' |
| 6 | in nodo descendentē Veneris. | 5 | ad 132. Tauri Imm. 19 ^h 6') d. 10' Em. 19 ^h 56') |
| 20 | Eclipsis Solis Mediolani invisibilis. Vide supra. | 6 | ad ε Geminorum 14 ^h 30' |
| 20 | α Corvi culm. 17 ^h 57' | 7 | ad δ Geminorum 4 ^h 32' |
| 21 | in signo Capri 3 ^h 10' | 8 | ad θ Cancri 9 ^h 24' |
| 29 | in nodo descendentē Jovis. | 9 | ad ξ Leonis Imm. 11 ^h 31') dist. 12' Em. 12 ^h 10') |
| 30 | in Perigeo. | | ad ο Leonis Imm. 17 ^h 10') dist. 4' Em. 18 ^h 22') |
| | | 12 | Ultimus quadrans ο Leonis 1 ^h 51' . . . ad ρ Leonis 1 ^h 51' |
| | | 17 | Apogea ad A Scorpii 16 ^h 12' |
| | | 20 | Novilunium 5 ^h 25' |
| | | 25 | ad θ Aquarii 3 ^h 21' |
| | | 27 | Primus quadrans 20 ^h 56' |
| | | 29 | ad η Piscium 2 ^h 2' |
| | | 30 | ad ε Arietis 13 ^h 58' |
| | | 31 | Perigea ad η Tauri 8 ^h 53' |
| | | | Planetas in parallelis fixurum. Uranus ρ & 104. Geminorum & 2. μ Cancri. Saturnus γ Scorpii, κ Librae, α Leporis, β Canis, γ & δ Capri, α Crat. Jupiter ε Aquilae, 2 Bootis, α Herculis, δ Delphini, α Pegasi. Mars 54. Eridani, δ, β Leporis, π Sagittarii, ε Corvi, δ Scorpii, γ Hydrae, β & α Corvi. Venus σ, γ Scorpii, θ Ophiuci, ξ ρ Navis, α, β Corvi, γ Leporis, γ Hydrae, δ Scorpii, ο, π, μ Sagitt. ε Corvi, β, δ Lepor b Canis, 54 Eridani, λ Librae, θ & β Ceti. Mercurius δ Canis, α & π Scorpii, λ Eridani, θ Ophiuci, σ & γ Scorpii, ξ & ρ Navis, α & β Corvi, γ Leporis, ο Sagittarii, γ Hydrae, δ Scorpii, ε Corvi, π μ Sagittarii, β, δ Leporis, b Canis, 54 Eridani. |
| Dies | Phenomena & Observationes Planetarum | | |
| 4 | Mercur. ad λ Sagittarii diff. lat. 7' | | |
| 5 | Mercur. in maxima elongatione | | |
| 16 | Jupiter ad σ Arietis diff. lat. 7' | | |
| 16 | Venus Stationaria. | | |
| 23 | Mercur. in conjunctione infer. | | |
| 24 | Mars ad β Ophiuci diff. lat. 29' | | |
| 28 | Saturnus ad ε Capri diff. lat. 17' | | |

| Dies mensis | Dies hebdomadae | Æquatio subtrahenda a tempore vero ut habeatur medium | Diffe- rentia | Longitudo Solis | | | Ascensio recta Solis | | | Declinatio Solis Australis | | |
|-------------|-----------------|--|------------------|--------------------|-----|--------|-------------------------|--------|-----|----------------------------------|----|----|
| | | | | M. | S. | S. | S. | G. | M. | S. | G. | M. | S. |
| 1 | Ven. | -10. 28. 3 | 22, 6 | 8. | 9. | 30. 51 | 247. | 50. 22 | 21. | 54. 14 | | |
| 2 | Sat. | 10. 5. 1 | 23, 2 | 8. | 10. | 31. 45 | 248. | 55. 20 | 22. | 3. 10 | | |
| 3 | Dom. | 9. 41. 3 | 23, 8 | 8. | 11. | 32. 40 | 250. | 0. 27 | 22. | 31. 41 | | |
| 4 | Lun. | 9. 16. 9 | 24, 4 | 8. | 12. | 33. 36 | 251. | 5. 42 | 22. | 19. 46 | | |
| 5 | Mar. | -8. 51. 9 | 25, 0 | 8. | 13. | 34. 33 | 252. | 11. 6 | 22. | 27. 25 | | |
| 6 | Mer. | 8. 26. 4 | 26, 0 | 8. | 14. | 35. 31 | 253. | 16. 38 | 22. | 34. 31 | | |
| 7 | Jov. | 8. 0. 4 | 26, 5 | 8. | 15. | 36. 30 | 254. | 22. 18 | 22. | 41. 14 | | |
| 8 | Ven. | 7. 33. 9 | 27, 0 | 8. | 16. | 37. 30 | 255. | 28. 5 | 22. | 47. 43 | | |
| 9 | Sat. | 7. 6. 5 | 27, 4 | 8. | 17. | 38. 31 | 256. | 33. 59 | 22. | 53. 38 | | |
| 10 | Dom. | -6. 39. 4 | 27, 8 | 8. | 18. | 39. 33 | 257. | 40. 0 | 22. | 59. 8 | | |
| 11 | Lun. | 6. 11. 7 | 28, 2 | 8. | 19. | 40. 36 | 258. | 46. 7 | 22. | 3. 19 | | |
| 12 | Mar. | 5. 42. 5 | 20, 6 | 8. | 20. | 41. 40 | 259. | 52. 19 | 22. | 8. 21 | | |
| 13 | Mer. | 5. 14. 9 | 28, 9 | 8. | 21. | 42. 45 | 260. | 58. 37 | 22. | 18. 31 | | |
| 14 | Jov. | 4. 46. 0 | 29, 1 | 8. | 22. | 43. 51 | 262. | 3. 0 | 22. | 16. 4 | | |
| 15 | Ven. | 4. 16. 9 | 29, 4 | 8. | 23. | 45. 0 | 263. | 11. 28 | 22. | 19. 13 | | |
| 16 | Sat. | 3. 47. 5 | 29, 6 | 8. | 24. | 46. 8 | 264. | 18. 0 | 22. | 21. 54 | | |
| 17 | Dom. | 3. 17. 9 | 29, 9 | 8. | 25. | 47. 17 | 265. | 24. 35 | 22. | 24. 3 | | |
| 18 | Lun. | 3. 48. 0 | 30, 1 | 8. | 26. | 48. 26 | 266. | 31. 12 | 22. | 25. 47 | | |
| 19 | Mar. | 3. 18. 9 | 30, 2 | 8. | 27. | 49. 36 | 267. | 37. 51 | 22. | 27. 3 | | |
| 20 | Mer. | 1. 47. 8 | 30, 1 | 8. | 28. | 50. 46 | 268. | 44. 31 | 22. | 27. 4 | | |
| 21 | Jov. | 1. 17. 7 | 30, 2 | 8. | 29. | 51. 56 | 269. | 51. 12 | 22. | 28. 1 | | |
| 22 | Ven. | 0. 47. 5 | 30, 2 | 9. | 0. | 53. 8 | 270. | 57. 54 | 22. | 27. 33 | | |
| 23 | Sat. | 0. 17. 3 | 30, 1 | 9. | 1. | 54. 19 | 271. | 4. 37 | 22. | 27. 5 | | |
| 24 | Dom. | 0. 12. 8 | 30, 1 | 9. | 2. | 55. 31 | 273. | 11. 19 | 22. | 26. 1 | | |
| 25 | Lun. | 0. 42. 9 | 29, 9 | 9. | 3. | 56. 42 | 274. | 17. 59 | 22. | 24. 2 | | |
| 26 | Mar. | 1. 12. 8 | 29, 7 | 9. | 4. | 57. 53 | 275. | 24. 37 | 22. | 22. 4 | | |
| 27 | Mer. | 1. 42. 5 | 29, 5 | 9. | 5. | 59. 4 | 276. | 31. 18 | 22. | 19. 5 | | |
| 28 | Jov. | 2. 12. 0 | 29, 2 | 9. | 7. | 0. 15 | 277. | 37. 44 | 22. | 16. 2 | | |
| 29 | Ven. | 2. 41. 2 | 28, 9 | 9. | 8. | 1. 26 | 278. | 44. 13 | 22. | 12. 8 | | |
| 30 | Sat. | 3. 10. 1 | 28, 6 | 9. | 9. | 2. 36 | 279. | 50. 23 | 22. | 9. 1 | | |
| 31 | Dom. | 3. 38. 7 | 28, 4 | 9. | 10. | 3. 45 | 280. | 56. 58 | 22. | 5. 10 | | |

| Dies mensis | Dies hebdomadae | Distantia sectionis Y a Sole | | | Differrentia | Initium Crepusculi | Ortus Centri Solis | Occus Centri Solis | Finis Crepusculi | Hora Italica Meridies | | | | | | |
|-------------|-----------------|------------------------------|-----|------|--------------|--------------------|--------------------|--------------------|------------------|-----------------------|----|----|----|----|-----|----|
| | | H. | M. | S. | | | | | | | | | | | | |
| 1 | Ven. | 7. | 28. | 38,5 | 4. | 19,9 | 5. | 45 | 6. | 33 | 4. | 27 | 6. | 15 | 19. | 3 |
| 2 | Sat. | 7. | 24. | 18,6 | 4. | 20,5 | 5. | 45 | 7. | 33 | 4. | 27 | 6. | 15 | 19. | 3 |
| 3 | Dom | 7. | 19. | 58,1 | 4. | 21,0 | 5. | 46 | 7. | 24 | 4. | 26 | 6. | 14 | 19. | 4 |
| 4 | Lun. | 7. | 15. | 37,1 | 4. | 21,6 | 5. | 46 | 7. | 35 | 4. | 25 | 6. | 14 | 19. | 5 |
| 5 | Mar. | 7. | 11. | 15,5 | 4. | 22,1 | 5. | 47 | 7. | 36 | 4. | 24 | 6. | 13 | 19. | 6 |
| 6 | Mer. | 7. | 6. | 53,4 | 4. | 22,6 | 5. | 47 | 7. | 36 | 4. | 24 | 6. | 13 | 19. | 6 |
| 7 | Jov. | 7. | 2. | 30,8 | 4. | 23,1 | 5. | 48 | 7. | 37 | 4. | 23 | 6. | 12 | 19. | 7 |
| 8 | Ven. | 6. | 58. | 7,7 | 4. | 23,6 | 5. | 49 | 7. | 37 | 4. | 23 | 6. | 11 | 19. | 7 |
| 9 | Sat. | 6. | 53. | 44,1 | 4. | 24,1 | 5. | 49 | 7. | 38 | 4. | 22 | 6. | 11 | 19. | 8 |
| 10 | Dom | 6. | 49. | 20,0 | 4. | 24,5 | 5. | 50 | 7. | 39 | 4. | 21 | 6. | 10 | 19. | 9 |
| 11 | Lun. | 6. | 44. | 55,5 | 4. | 24,9 | 5. | 50 | 7. | 39 | 4. | 21 | 6. | 10 | 19. | 9 |
| 12 | Mar. | 6. | 40. | 30,6 | 4. | 25,2 | 5. | 50 | 7. | 39 | 4. | 21 | 6. | 10 | 19. | 9 |
| 13 | Mer. | 6. | 36. | 5,4 | 4. | 25,5 | 5. | 50 | 7. | 40 | 4. | 20 | 6. | 10 | 19. | 10 |
| 14 | Jov. | 6. | 31. | 39,9 | 4. | 25,8 | 5. | 51 | 7. | 40 | 4. | 20 | 6. | 9 | 19. | 10 |
| 15 | Ven. | 6. | 27. | 14,1 | 4. | 26,1 | 5. | 51 | 7. | 40 | 4. | 20 | 6. | 9 | 19. | 10 |
| 16 | Sat. | 6. | 22. | 48,0 | 4. | 26,3 | 5. | 51 | 7. | 41 | 4. | 19 | 6. | 9 | 19. | 11 |
| 17 | Dom | 6. | 18. | 21,7 | 4. | 26,5 | 5. | 52 | 7. | 41 | 4. | 19 | 6. | 8 | 19. | 11 |
| 18 | Lun. | 6. | 13. | 55,2 | 4. | 26,6 | 5. | 52 | 7. | 41 | 4. | 19 | 6. | 8 | 19. | 11 |
| 19 | Mar. | 6. | 9. | 28,6 | 4. | 26,6 | 5. | 52 | 7. | 42 | 4. | 18 | 6. | 8 | 19. | 12 |
| 20 | Mer. | 6. | 5. | 1,9 | 4. | 26,7 | 5. | 52 | 7. | 42 | 4. | 18 | 6. | 8 | 19. | 12 |
| 21 | Jov. | 6. | 0. | 35,2 | 4. | 26,8 | 5. | 52 | 7. | 42 | 4. | 18 | 6. | 8 | 19. | 12 |
| 22 | Ven. | 5. | 56. | 5,4 | 4. | 26,9 | 5. | 52 | 7. | 42 | 4. | 18 | 6. | 8 | 19. | 12 |
| 23 | Sat. | 5. | 51. | 41,5 | 4. | 26,8 | 5. | 52 | 7. | 42 | 4. | 18 | 6. | 8 | 19. | 12 |
| 24 | Dom | 5. | 47. | 14,7 | 4. | 26,7 | 5. | 52 | 7. | 42 | 4. | 18 | 6. | 8 | 19. | 12 |
| 25 | Lun. | 5. | 42. | 48,0 | 4. | 26,5 | 5. | 51 | 7. | 41 | 4. | 19 | 6. | 9 | 19. | 11 |
| 26 | Mar. | 5. | 38. | 21,5 | 4. | 26,3 | 5. | 51 | 7. | 41 | 4. | 19 | 6. | 9 | 19. | 11 |
| 27 | Mer. | 5. | 33. | 55,2 | 4. | 26,1 | 5. | 51 | 7. | 41 | 4. | 19 | 6. | 9 | 19. | 11 |
| 28 | Jov. | 5. | 29. | 29,1 | 4. | 25,9 | 5. | 50 | 7. | 40 | 4. | 20 | 6. | 10 | 19. | 10 |
| 29 | Ven. | 5. | 25. | 3,2 | 4. | 25,7 | 5. | 50 | 7. | 40 | 4. | 20 | 6. | 10 | 19. | 10 |
| 30 | Sat. | 5. | 20. | 37,5 | 4. | 25,4 | 5. | 50 | 7. | 39 | 4. | 21 | 6. | 10 | 19. | 9 |
| 31 | Dom | 5. | 16. | 12,1 | 4. | 25,4 | 5. | 50 | 7. | 39 | 4. | 21 | 6. | 10 | 19. | 9 |

| Dies mensis | Dies hebdomadae | Longitudo Lunae Meridie | | | | Longitudo Lunae media nocte | | | | Latitudo Lunae Meridie | | | Latitudo Lunae med. noct. | | | Paral. Lunae Meridie | | Paral. Lunae media nocte | | | |
|-------------|-----------------|-------------------------|-----|-----|----|-----------------------------|-----|-----|----|------------------------|-----|----|---------------------------|----|-----|----------------------|----|--------------------------|----|-----|----|
| | | S. | G. | M. | S. | S. | G. | M. | S. | G. | M. | S. | G. | M. | S. | M. | S. | M. | S. | | |
| 1 | Ven. | 0. | 12 | 48. | 57 | 0. | 20. | 5. | 27 | 5. | 11. | 35 | B | 5. | 10. | 32 | B | 59. | 46 | 60. | 9 |
| 2 | Sat. | 0. | 27. | 27. | 50 | 1. | 4. | 55. | 15 | 5. | 4. | 19 | | 4. | 52. | 52 | | 60. | 29 | 60. | 49 |
| 3 | Dom | 1. | 12. | 27. | 3 | 1. | 20. | 1. | 56 | 4. | 36. | 20 | | 4. | 14. | 54 | | 61. | 3 | 61. | 14 |
| 4 | Lun. | 1. | 27. | 38. | 47 | 2. | 5. | 16. | 9 | 3. | 48. | 47 | | 3. | 18. | 34 | | 61. | 19 | 61. | 20 |
| 5 | Mar | 2. | 12. | 52. | 55 | 2. | 20 | 27. | 39 | 2. | 44. | 46 | | 2. | 8. | 12 | | 61. | 17 | 61. | 8 |
| 6 | Mer | 2. | 27. | 59. | 8 | 3. | 5. | 26. | 16 | 1. | 29. | 34 | | 0. | 49. | 45 | | 60. | 54 | 60. | 37 |
| 7 | Jov. | 3. | 12. | 48. | 4 | 3. | 20. | 3. | 52 | 0. | 9. | 32 | | 0. | 30 | 19 | A | 60. | 16 | 59. | 51 |
| 8 | Ven. | 3. | 27. | 13. | 9 | 4. | 4. | 15. | 38 | 1. | 9. | 7 | A | 1. | 46. | 15 | | 59. | 25 | 58. | 56 |
| 9 | Sat. | 4. | 11. | 11. | 2 | 4. | 17. | 59. | 29 | 2. | 21. | 15 | | 2. | 53. | 39 | | 58. | 27 | 57. | 58 |
| 10 | Dom | 4. | 24. | 41. | 8 | 5. | 1. | 16. | 19 | 3. | 23. | 6 | | 3. | 49. | 22 | | 57. | 29 | 57. | 0 |
| 11 | Lun. | 5. | 7. | 45. | 16 | 5. | 14. | 8. | 31 | 4. | 12. | 15 | | 4. | 31. | 39 | | 56. | 33 | 56. | 8 |
| 12 | Mar | 5. | 20. | 26. | 33 | 5. | 26. | 39. | 56 | 4. | 47. | 30 | | 4. | 59. | 45 | | 55. | 45 | 55. | 49 |
| 13 | Mer | 6. | 2. | 49. | 14 | 6. | 8. | 54. | 59 | 5. | 8. | 23 | | 5. | 13. | 26 | | 55. | 6 | 54. | 49 |
| 14 | Jov. | 6. | 14. | 57. | 4 | 6. | 20. | 57. | 51 | 5. | 14. | 58 | | 5. | 13. | 2 | | 54. | 35 | 54. | 23 |
| 15 | Ven. | 6. | 26. | 56. | 2 | 7. | 2. | 52. | 42 | 5. | 7. | 43 | | 4. | 59. | 6 | | 54. | 15 | 54. | 9 |
| 16 | Sat. | 7. | 8. | 48. | 22 | 7. | 14. | 43. | 26 | 4. | 47. | 17 | | 4. | 32. | 25 | | 54. | 4 | 54. | 1 |
| 17 | Dom | 7. | 20. | 38. | 19 | 7. | 26. | 33. | 21 | 4. | 14. | 39 | | 3. | 54. | 8 | | 54. | 0 | 54. | 2 |
| 18 | Lun. | 8. | 2. | 28. | 51 | 8. | 8. | 25. | 5 | 3. | 31. | 4 | | 3. | 5. | 39 | | 54. | 4 | 54. | 8 |
| 19 | Mar | 8. | 14. | 22. | 22 | 8. | 20. | 20. | 54 | 2. | 38. | 8 | | 2. | 8. | 45 | | 54. | 14 | 54. | 26 |
| 20 | Mer | 8. | 26. | 20. | 56 | 9. | 2. | 22. | 40 | 1. | 37. | 48 | | 1. | 5. | 36 | | 54. | 28 | 54. | 37 |
| 21 | Jov. | 9. | 8. | 26. | 14 | 9. | 14. | 31. | 54 | 0. | 32. | 28 | | 0. | 1. | 14 | B | 54. | 47 | 54. | 55 |
| 22 | Ven. | 9. | 20. | 39. | 52 | 9. | 26. | 50. | 20 | 0. | 35. | 9 | B | 1. | 8. | 54 | | 55. | 9 | 55. | 21 |
| 23 | Sat. | 10. | 3. | 3. | 31 | 10. | 9. | 19. | 39 | 1. | 42. | 6 | | 2. | 14. | 21 | | 55. | 35 | 55. | 56 |
| 24 | Dom | 10. | 15. | 38. | 57 | 10. | 22. | 1. | 42 | 2. | 45. | 14 | | 3. | 14. | 20 | | 56. | 5 | 56. | 24 |
| 25 | Lun. | 10. | 28. | 28. | 7 | 11. | 4. | 58. | 29 | 3. | 41. | 16 | | 4. | 5. | 38 | | 56. | 37 | 56. | 54 |
| 26 | Mar. | 11. | 11. | 33. | 1 | 11. | 18. | 12. | 0 | 4. | 27. | 4 | | 4. | 45. | 7 | | 57. | 14 | 57. | 39 |
| 27 | Mer | 11. | 24. | 55. | 31 | 0. | 1. | 43. | 49 | 4. | 59. | 31 | | 5. | 9. | 52 | | 57. | 53 | 58. | 11 |
| 28 | Jov. | 0. | 6. | 36. | 56 | 0. | 15. | 34. | 57 | 5. | 15. | 57 | | 5. | 17. | 32 | | 58. | 33 | 58. | 54 |
| 29 | Ven. | 0. | 22. | 37. | 49 | 0. | 29. | 45. | 22 | 5. | 14. | 17 | | 5. | 6. | 16 | | 59. | 14 | 59. | 31 |
| 30 | Sat. | 1. | 6. | 57. | 18 | 1. | 14. | 13. | 16 | 4. | 53. | 23 | | 4. | 35. | 46 | | 59. | 50 | 60. | 1 |
| 31 | Dom | 1. | 21. | 32. | 52 | 1. | 28. | 55. | 44 | 4. | 13. | 19 | | 3. | 46. | 43 | | 60. | 18 | 60. | 29 |

| Dies mensis | Dies hebdomadae | Diameter horiz. Lunae Meridie | | horiz. Lunae media nocte | | Declinatio Lunae in Meridiano | | Ortus Lunae | | Transitus Lunae per Meridianum | | Occasus Lunae | |
|-------------|-----------------|-------------------------------|----|--------------------------|----|-------------------------------|------|-------------|----------------|--------------------------------|----------------|---------------|----------------|
| | | M. | S. | M. | S. | G. | M. | H. | M. | H. | M. | H. | M. |
| 1 | Ven. | 32. | 46 | 32. | 59 | 11. | 49 B | 1. | 24 V | 8. | 26 V | 2. | 14 M |
| 2 | Sat. | 33. | 10 | 33. | 21 | 17. | 15 | 2. | 0 | 9. | 21 | 3. | 33 |
| 3 | Dom | 33. | 29 | 33. | 35 | 21. | 40 | 2. | 35 | 10. | 20 | 4. | 54 |
| 4 | Lun. | 33. | 37 | 33. | 38 | 24. | 29 | 3. | 24 | 11. | 23 | 6. | 14 |
| 5 | Mar | 33. | 36 | 33. | 31 | + | + | 4. | 23 | + | M ⁺ | 7. | 26 |
| 6 | Mer | 33. | 24 | 33. | 14 | 25. | 14 | 5. | 30 | 0. | 28 | 8. | 32 |
| 7 | Jov. | 33. | 3 | 33. | 49 | 24. | 2 | 0. | 42 | 1. | 32 | 9. | 29 |
| 8 | Ven. | 32. | 35 | 32. | 19 | 21. | 4 | 7. | 57 | 2. | 32 | 10. | 13 |
| 9 | Sat. | 32. | 3 | 32. | 47 | 16. | 51 | 9. | 11 | 3. | 27 | 10. | 46 |
| 10 | Dom | 31. | 31 | 31. | 15 | 11. | 46 | 10. | 25 | 4. | 18 | 11. | 32 |
| 11 | Lun. | 31. | 0 | 30. | 47 | 6. | 21 | 11. | 32 | 5. | 5 | 11. | 33 |
| 12 | Mar | 30. | 34 | 30. | 23 | 0. | 46 A | + | M ⁺ | 5. | 48 | 11. | 53 |
| 13 | Mer | 30. | 13 | 30. | 3 | 4. | 40 A | 0. | 35 | 6. | 30 | 0. | 15 V |
| 14 | Jov. | 29. | 56 | 29. | 49 | 9. | 46 | 1. | 35 | 7. | 11 | 0. | 25 |
| 15 | Ven | 29. | 45 | 29. | 42 | 14. | 30 | 2. | 41 | 7. | 53 | 0. | 54 |
| 16 | Sat. | 29. | 39 | 29. | 37 | 18. | 29 | 3. | 45 | 8. | 37 | 1. | 20 |
| 17 | Dom | 29. | 37 | 29. | 38 | 21. | 44 | 4. | 48 | 9. | 23 | 1. | 50 |
| 18 | Lun. | 29. | 39 | 29. | 41 | 24. | 1 | 5. | 48 | 10. | 10 | 2. | 28 |
| 19 | Mar | 29. | 44 | 29. | 48 | 25. | 11 | 6. | 43 | 10. | 58 | 3. | 11 |
| 20 | Mer | 29. | 52 | 29. | 57 | 25. | 8 | 7. | 35 | 11. | 48 | 4. | 3 |
| 21 | Jov. | 30. | 2 | 30. | 8 | 23. | 41 | 8. | 20 | 0. | 39 V | 5. | 3 |
| 22 | Ven. | 30. | 14 | 30. | 22 | 21. | 7 | 8. | 58 | 1. | 28 | 6. | 5 |
| 23 | Sat. | 30. | 29 | 30. | 37 | 17. | 29 | 9. | 30 | 2. | 16 | 7. | 12 |
| 24 | Dom | 30. | 41 | 30. | 54 | 12. | 56 | 9. | 56 | 3. | 3 | 8. | 22 |
| 25 | Lun | 31. | 3 | 31. | 14 | 7. | 44 | 10 | 17 | 3. | 48 | 9. | 31 |
| 26 | Mar. | 31. | 23 | 31. | 34 | 2. | 5 | 10. | 28 | 4. | 23 | 10. | 41 |
| 27 | Mer. | 31. | 45 | 31. | 56 | 3. | 53 B | 10. | 69 | 5. | 19 | 11. | 51 |
| 28 | Jov. | 32. | 7 | 32. | 18 | 9. | 40 | 11. | 22 | 6. | 6 | + | M ⁺ |
| 29 | Ven. | 32. | 29 | 32. | 39 | 15. | 8 | 11. | 48 | 6. | 56 | 1. | 2 |
| 30 | Sat. | 32. | 49 | 32. | 57 | 19. | 50 | 0. | 19 V | 7. | 51 | 2. | 16 |
| 31 | Dom | 33. | 4 | 33. | 10 | 23. | 18 | 0. | 56 | 8. | 50 | 3. | 35 |

| Dies mens. | Longitudo | Latitudo | Declina- | Ortus | Transit. | Occasus |
|------------|-----------------|-----------------|---------------------|-----------------|-------------------------------|-----------------|
| | Planeta- rum | Planeta- rum | tio Pla- netarum | Planeta- rum | Phæet. per Me- ridianum | Planeta- rum |
| | S. G. M. | G. M. | G. M. | H. M. | H. M. | H. M. |

URANUS.

| | | | | | | |
|----|-----------|---------|----------|---------|---------|----------|
| 1 | 3. 25. 11 | 0. 31 B | 21. 38 B | 7. 40 V | 3. 18 M | 10. 56 V |
| 16 | 3. 24. 43 | 0. 31 | 21. 44 | 6. 31 | 2. 10 | 9. 49 |

SATURNUS.

| | | | | | | |
|----|------------|--------|---------|----------|---------|---------|
| 1 | 10. 12. 21 | 1. 2 A | 18. 7 A | 11. 42 M | 4. 28 V | 9. 14 V |
| 7 | 10. 12. 49 | 1. 2 | 17. 59 | 11. 28 | 4. 4 | 8. 52 |
| 13 | 10. 12. 21 | 1. 2 | 17. 60 | 10. 53 | 3. 40 | 8. 27 |
| 19 | 10. 13. 54 | 1. 2 | 17. 40 | 10. 23 | 3. 16 | 8. 4 |
| 25 | 10. 14. 29 | 1. 2 | 17. 30 | 10. 3 | 2. 51 | 7. 39 |

JUPITER.

| | | | | | | |
|----|-----------|---------|----------|--------|----------|---------|
| 1 | 1. 12. 22 | 1. 14 A | 14. 41 B | 2. 8 V | 10. 13 V | 5. 18 M |
| 7 | 1. 12. 45 | 1. 13 | 14. 31 | 2. 40 | 9. 44 | 4. 49 |
| 13 | 1. 12. 15 | 1. 12 | 14. 24 | 2. 12 | 9. 16 | 4. 20 |
| 19 | 1. 11. 50 | 1. 10 | 14. 18 | 1. 45 | 8. 48 | 3. 51 |
| 25 | 1. 11. 33 | 1. 8 | 14. 14 | 1. 16 | 8. 19 | 3. 22 |

MARS.

| | | | | | | |
|----|-----------|---------|----------|---------|----------|--------|
| 1 | 8. 2. 27 | 0. 12 A | 20. 52 A | 6. 57 M | 11. 20 M | 4. 2 V |
| 7 | 8. 6. 46 | 0. 15 | 21. 43 | 6. 53 | 11. 21 | 3. 49 |
| 13 | 8. 11. 7 | 0. 19 | 22. 27 | 6. 49 | 11. 13 | 3. 37 |
| 19 | 8. 15. 30 | 0. 23 | 23. 8 | 6. 43 | 11. 5 | 3. 26 |
| 25 | 8. 19. 55 | 0. 26 | 23. 31 | 6. 38 | 10. 57 | 3. 16 |

VENUS.

| | | | | | | |
|----|-----------|---------|----------|----------|---------|--------|
| 1 | 9. 18. 43 | 2. 39 A | 24. 47 A | 10. 39 M | 2. 51 V | 7. 3 V |
| 7 | 9. 21. 0 | 1. 52 | 23. 40 | 10. 16 | 2. 34 | 6. 52 |
| 13 | 9. 22. 4 | 0. 49 | 22. 28 | 9. 48 | 2. 12 | 6. 26 |
| 19 | 9. 21. 43 | 0. 29 B | 21. 14 | 9. 12 | 1. 43 | 6. 13 |
| 25 | 9. 19. 55 | 1. 59 | 20. 1 | 8. 30 | 1. 7 | 5. 44 |

MERCURIUS.

| | | | | | | |
|----|-----------|---------|----------|---------|----------|---------|
| 1 | 8. 29. 42 | 2. 22 B | 25. 50 A | 9. 21 M | 1. 27 V | 5. 33 V |
| 7 | 9. 6. 23 | 1. 54 | 25. 13 | 9. 21 | 1. 30 | 5. 29 |
| 13 | 9. 9. 51 | 0. 48 A | 23. 54 | 9. 3 | 1. 49 | 5. 35 |
| 19 | 9. 7. 28 | 1. 1 | 22. 15 | 8. 17 | 0. 42 | 5. 7 |
| 25 | 8. 29. 54 | 2. 43 | 20. 45 | 6. 59 | 11. 32 M | 4. 5 |

ECLIPSES SATELLITUM JOVIS.

| Dies mensis | I. Satelles . | | | Dies | II. Satelles | | | Dies | III. Satelles . | | |
|----------------|---------------|-----|-----|------|--------------|-----|----|------|-----------------|-------|-------|
| | Immerfiones | | | | Emerfiones | | | | Imersf. Emerf. | | |
| | H. | M. | S. | | H. | M. | S. | | H. | M. | S. |
| 2 | 9. | 55. | 4. | 8 | 9. | 22. | 42 | 4 | 14.* | 19. | 9. I |
| 3 | 21. | 23. | 7. | 5 | 22. | 40. | 15 | 4 | 16.* | 0. | 2. E |
| 5 | 15.* | 51. | 8. | 9 | 11.* | 57. | 42 | 11 | 18. | 17. | 6. I |
| 7 | 10.* | 19. | 8. | 13 | 1. | 15. | 7 | 11 | 19. | 58. | 29. E |
| 9 | 4. | 47. | 8. | 16 | 14.* | 38. | 25 | 18 | 23. | 14. | 50. I |
| 10 | 23. | 15. | 6. | 20 | 3. | 49. | 38 | 18 | 23. | 56. | 46. E |
| 12 | 17.* | 43. | 3. | 23 | 17. | 7. | 50 | 26 | 2. | 12. | 38. I |
| 14 | 12.* | 10. | 59. | 27 | 6.* | 24. | 2 | 26 | 3. | 55. | 11. E |
| 16 | 6.* | 38. | 55. | 30 | 19. | 41. | 14 | | | | |
| 18 | 1. | 6. | 51. | | | | | | | | |
| 19 | 19. | 34. | 48. | | | | | | | | |
| 21 | 14.* | 2. | 46. | | | | | Dies | IV. Satelles . | | |
| 23 | 18.* | 30. | 44. | | | | | | Conjunctions. | | |
| 25 | 2. | 58. | 42. | | | | | 6 | 15.* | 14.24 | sup. |
| 26 | 21. | 26. | 40. | | | | | 13 | 21. | 41.24 | inf. |
| 28 | 15. | 54. | 38. | | | | | 22 | 6.* | 24.24 | sup. |
| 30 | 10.* | 22. | 37. | | | | | 30 | 13.* | 22.24 | inf. |

| Dies | Diameter Solis | Mora transitus Solis per Meridian. | Motus horarius Solis | Logarithmus distantiae Solis a terra posita media 100000. | Longitudo Nodi Lunae |
|------|-------------------|---|----------------------------|---|-------------------------|
| | M. S. | M. S. | M. S. | | S. G. M. |
| 1 | 32. 31,4 | 2. 20, 2 | 2. 32, 2 | 4.992572. | 9. 16. 16 |
| 4 | 32. 32,3 | 2. 20, 7 | 2. 32, 4 | 4.992390. | 9. 16. 7 |
| 7 | 32. 33,0 | 2. 21, 2 | 2. 32, 5 | 4.992230. | 9. 15. 57 |
| 10 | 32. 33,7 | 2. 21, 5 | 2. 32, 6 | 4.992095. | 9. 15. 48 |
| 13 | 32. 34,3 | 2. 21, 8 | 2. 32, 7 | 4.992979. | 9. 15. 38 |
| 16 | 32. 34,8 | 2. 21, 9 | 2. 32, 7 | 4.992884. | 9. 15. 29 |
| 19 | 32. 35,2 | 2. 22, 0 | 2. 32, 8 | 4.992803. | 9. 15. 19 |
| 22 | 32. 35,5 | 2. 22, 0 | 2. 32, 8 | 4.992727. | 9. 15. 10 |
| 25 | 32. 35,6 | 2. 22, 0 | 2. 32, 9 | 4.992683. | 9. 15. 0 |
| 28 | 32. 35,7 | 2. 22, 0 | 2. 32, 9 | 4.992650. | 9. 14. 51 |

POSITIONES SATELLITUM JOVIS
Oriens 8^a Vespere *Occidens*

| | | | | | | |
|----|---------|--|-------------|---|----------|-------|
| 1 | | | | ○ | 1 2 3 4 | |
| 2 | 20 | | 1. | ○ | | 3. |
| 3 | | | .2 | ○ | .1 | 3. 4. |
| 4 | | | .1 | ○ | 1. 2. | 4. |
| 5 | | | .1 | ○ | 4. 1. 2. | |
| 6 | | | 1. 4 | ○ | 2. 3. | |
| 7 | | | 4. .1 .2 | ○ | | 10 |
| 8 | .4 | | | ○ | .1 .2 | .3 |
| 9 | | | .1 | ○ | | .1 20 |
| 10 | .4 | | .2 | ○ | .1 | 3. |
| 11 | .4 | | 1. | ○ | 1 2 3 | |
| 12 | | | .4 1. | ○ | 1. 2. | |
| 13 | | | 1. 2 3 4 .1 | ○ | | |
| 14 | | | .1 2. | ○ | .4 | 10 |
| 15 | 1.0 | | | ○ | 1 .2 .4 | |
| 16 | | | 1. | ○ | 2. | .3 .4 |
| 17 | | | 2. | ○ | .1 2 | 3. 10 |
| 18 | | | 1. | ○ | .2 3. | |
| 19 | | | .1 | ○ | 1. 2. | 4. |
| 20 | | | 1. 2. 1 | ○ | | 4. |
| 21 | | | 1. 2. | ○ | 1. 4. | |
| 22 | 1.0 1.0 | | | ○ | .2 | 4. |
| 23 | | | 4. 4. | ○ | 2. .1 | |
| 24 | | | 4. 1. | ○ | .1 | 1. |
| 25 | 4. | | 1. | ○ | 1. | 10 |
| 26 | 4. | | 3. | ○ | .1 2. | |
| 27 | .4 | | 3. 1 2 | ○ | | |
| 28 | | | .1 .2 | ○ | 1. | |
| 29 | | | .4 .1 | ○ | .2 | 10 |
| 30 | | | .4 | ○ | .2 .1 | 10 |
| 31 | | | 2. | ○ | .4 .1 | 10 |

Positiones mediae 300. principa-
lium stellarum fixarum pro 1. Jan.
1786, ex Catalogo *D. de la Caille*
computatae secundum earum ascen-
sionem rectam declinationem, lon-
gitudinem, latitudinem & angulum
positionis, quibus adjiciuntur varia-
tiones annuae, aberrationes maxi-
mae lucis, & argumenta aberratio-
nis in ascensionem rectam, & de-
clinationem.

Positiones mediae 300 principalium stellarum fixarum

| NOMEN SIDERIS | Ascensio recta . | | Va- riatio annua S. | Aber. max. S. | Argum. aberra- tionis S. G. M. |
|---|------------------|--------------|------------------------------|---------------------|---|
| | H. M. S. | G. M. S. | | | |
| γ Pegasi <i>Algenib.</i> 2 | 0. 2. 14 | 0. 33. 34,6 | 46,2 | 18,7 | 3. 0. 32 |
| α Phoenicis 2. 3 | 0. 15. 40 | 3. 54. 59,9 | 44,9 | 25,3 | 3. 4. 13 |
| δ Andromedae 3 | 0. 27. 55 | 6. 58. 41,6 | 47,5 | 21,1 | 3. 7. 32 |
| α Cassiopeae 3 | 0. 28. 27 | 7. 6. 48,6 | 49,6 | 32,3 | 3. 7. 41 |
| ε Ceti 4 | 0. 32. 50 | 8. 12. 37,0 | 45,2 | 19,4 | 3. 8. 53 |
| γ Cassiopeae 3 | 0. 43. 55 | 10. 58. 44,6 | 52,5 | 36,2 | 3. 11. 52 |
| α Urae min. <i>Polaris.</i> 2 | 0. 48. 51 | 12. 18. 48,8 | 176,4 | 566,3 | 3. 13. 8 |
| ε Andromedae 5 | 0. 57. 35 | 14. 23. 42,9 | 49,5 | 22,3 | 3. 15. 37 |
| η Ceti 3. 4 | 0. 57. 41 | 14. 25. 19,9 | 45,1 | 18,8 | 3. 15. 38 |
| δ Cassiopeae 5 | 1. 11. 56 | 17. 58. 55,9 | 56,3 | 36,0 | 3. 19. 24 |
| θ Ceti 3. 4 | 1. 13. 21 | 18. 20. 16,0 | 45.1 | 18,7 | 3. 19. 43 |
| ε Cassiopeae 5 | 1. 39. 11 | 24. 47. 40,7 | 62,7 | 40,5 | 3. 26. 28 |
| α Trianguli bor. 3. 4 | 1. 40. 55 | 25. 13. 51,7 | 50,7 | 21,2 | 3. 27. 7 |
| γ Arietis 4 | 1. 41. 48 | 25. 27. 5,8 | 49,0 | 19,6 | 3. 27. 22 |
| ε Arietis 3. 4 | 1. 42. 50 | 25. 42. 34,4 | 49,2 | 19,8 | 3. 27. 52 |
| γ Andromedae 2 | 1. 50. 50 | 27. 42. 25,0 | 54,2 | 24,9 | 3. 29. 44 |
| α Piscium 3 | 1. 51. 0 | 27. 44. 56,8 | 46,4 | 18,7 | 3. 29. 46 |
| α Arietis 3 | 1. 55. 8 | 28. 47. 6,6 | 50,1 | 20,2 | 4. 0. 40 |
| ε Trianguli bor. 4 | 1. 56. 51 | 29. 12. 49,0 | 52,7 | 22,6 | 4. 1. 18 |
| γ 4 | 2. 4. 39 | 31. 9. 38,2 | 52,8 | 22,4 | 4. 3. 19 |
| θ Ceti var. | 2. 8. 28 | 32. 7. 7,0 | 45,4 | 18,9 | 4. 4. 20 |
| δ 3 | 2. 28. 29 | 37. 7. 13,3 | 46,6 | 19,0 | 4. 9. 26 |
| ε 3 | 2. 29. 14 | 37. 18. 27,1 | 43,4 | 19,4 | 4. 9. 59 |
| γ 3 | 2. 32. 14 | 38. 3. 34,2 | 46,6 | 19,0 | 4. 10. 25 |
| Lilii Borea 4 | 2. 35. 10 | 38. 47. 23,0 | 52,9 | 21,1 | 4. 11. 9 |
| Lilii Austrina 4 | 2. 37. 25 | 39. 21. 11,5 | 52,4 | 23,0 | 4. 11. 44 |
| γ Persei 3 | 2. 49. 24 | 42. 21. 5,6 | 63,7 | 31,5 | 4. 14. 44 |
| θ Eridani 5 | 2. 50. 10 | 42. 32. 29,0 | 34,3 | 25,4 | 4. 14. 58 |
| α Ceti 2 | 2. 51. 7 | 42. 46. 42,8 | 46,9 | 19,2 | 4. 15. 11 |
| ε Persei <i>Algol.</i> 2 | 2. 54. 19 | 43. 34. 37,8 | 57,8 | 25,0 | 4. 15. 58 |
| α Fornacis 3. 4 | 3. 2. 59 | 45. 44. 45,5 | 37,9 | 22,1 | 4. 18. 10 |
| ε Eridani 3 | 3. 5. 28 | 46. 21. 54,5 | 43,6 | 19,5 | 4. 18. 46 |
| α Persei 2 | 3. 9. 9 | 47. 17. 13,5 | 63,0 | 29,2 | 4. 19. 40 |
| ε Eridani 3 | 3. 22. 54 | 50. 43. 34,3 | 43,3 | 19,7 | 4. 23. 5 |
| δ Persei 3 | 3. 27. 45 | 51. 56. 20,0 | 63,0 | 28,5 | 4. 24. 14 |

pro 1. Jan. 1786. ex catalogo D. de la Caille computatae &c.

| Declinatio | Variatio annua | Aberr. SOL. | Argum. aberrationis | Longitudo | Latitudo | Angulus positionis |
|--------------|----------------|-------------|---------------------|----------------|------------|--------------------|
| G. M. S. | S | S. | S. G. M. | S. G. M. S. | G. M. S. | G. M. S. |
| 13.59.39.6 B | +20,0 | 9,1 | 4. 2. 6 | 0. 6. 10. 38 | 12.35.38 B | 24. 5. 8 |
| 43.27.52,2 A | -20,0 | 15,2 | 6. 25. 46 | 11. 12. 28. 6 | 40.35.48 A | 31. 33. 24 |
| 29.41.19,7 B | +19,0 | 11,4 | 4. 29. 19 | 0 18. 49. 50 | 24.20.50 B | 25. 43. 5 |
| 55.21.39,8 B | +19,9 | 16,6 | 5. 20. 41 | 1. 4. 49. 5 | 46.36.18 B | 35. 7. 11 |
| 19. 9.52,5 A | -19,8 | 0,6 | 7. 22. 10 | 11. 29. 34. 11 | 20.47. 2 A | 24. 56. 21 |
| 59.33 13,2 B | +19,7 | 17,0 | 5. 26. 27 | 1. 10. 57. 54 | 48.47.33 B | 36. 24. 28 |
| 88. 9.52,4 B | +19,6 | 19,9 | 5. 10. 22 | 2. 25. 34. 25 | 56. 4 21 B | 73. 42. 14 |
| 34.28 57,9 B | +19,4 | 11,6 | 5. 10. 0 | 0. 27. 35. 11 | 25.56.19 B | 25. 23. 54 |
| 11.19. 7,1 A | -19,4 | 9,5 | 8. 6. 21 | 0. 8. 45. 44 | 16. 6 44 A | 23. 40. 10 |
| 59. 7. 0,3 B | +19,1 | 16,5 | 6. 2. 36 | 1. 14. 56. 23 | 46.23.33 B | 33. 19. 3 |
| 9.17.32 0 A | -19,0 | 9,3 | 3. 10. 44 | 0. 13. 14. 45 | 15.46. 3 A | 23. 8. 6 |
| 62 36.23 1 B | +18,2 | 16,4 | 5. 17. 1 | 1. 21. 47. 29 | 47.31.23 B | 32. 22. 29 |
| 28.30.56,1 B | +18,2 | 9,2 | 5. 9. 14 | 1. 3. 53. 11 | 16.47.46 B | 22. 6. 31 |
| 18.14.30,5 B | +18,1 | 7,6 | 4. 17. 52 | 1. 0. 11. 49 | 7. 9 19 B | 21. 15. 7 |
| 19.45.26,1 B | +18,1 | 7,8 | 4. 21. 39 | 1. 0. 58. 53 | 8.28.44 B | 21. 16. 27 |
| 41.17.42,6 B | +17,8 | 11,7 | 5. 28. 10 | 1. 11. 13. 51 | 27.47.15 B | 23 29 26 |
| 1.43.29,3 B | +17,8 | 7,7 | 3. 3. 53 | 0.26.23.14 | 9. 4.36 A | 20. 54. 10 |
| 22.26.41,6 B | +17,6 | 7,8 | 4. 29. 8 | 1. 4. 40 17 | 9.57.31 B | 20 45. 50 |
| 33.58. 2,9 B | +17,5 | 9,9 | 5. 26. 30 | 1. 9. 21. 50 | 20.33.53 B | 21. 47. 22 |
| 32.50.58,7 B | +17,5 | 9,4 | 5. 20. 28 | 1. 10. 32. 12 | 18.55.48 B | 21. 7. 12 |
| 3.57.14,7 A | -17,0 | 8,7 | 8. 22. 15 | 0.28.31.55 | 15.56.20 A | 20. 32. 4 |
| 0.36. 8,1 A | -16,0 | 9,1 | 8. 28. 47 | 1. 4. 34. 53 | 14.28.57 A | 19. 8. 55 |
| 12.47.13,8 A | -16,0 | 10,8 | 8. 10. 57 | 1. 0. 20. 25 | 26. 0.16 A | 20. 38. 23 |
| 2.19.39,0 B | +16,0 | 7,5 | 2. 4. 49 | 1. 6. 27. 16 | 12. 0.38 A | 18.42. 3 |
| 28.20.58,3 B | +15,7 | 7,6 | 5. 18. 2 | 1. 15. 22. 6 | 12.28.17 B | 18. 37. 32 |
| 26.22. 7,9 B | +15,5 | 7,2 | 5. 13. 54 | 1. 15. 12. 55 | 0.26 5 B | 18. 15. 1 |
| 52.39.15,4 B | +14,9 | 12,8 | 6. 22. 54 | 1. 27. 2. 39 | 44.30 7 B | 20. 55. 38 |
| 41.10.10,9 A | -14,8 | 17,2 | 7. 25. 32 | 0.20.15.11 | 57.45.34 A | 29 45. 45 |
| 3.14.18,9 B | +14,8 | 7,3 | 3. 6. 30 | 1. 11. 19. 52 | 12.36.16 A | 17. 25. 54 |
| 40. 7. 5,9 B | +14,5 | 9,6 | 6. 12. 18 | 1. 23. 11. 12 | 2.24. 3 B | 18. 11. 9 |
| 29.50.45,0 A | -14,0 | 15,1 | 8. 2. 29 | 1. 1. 32. 56 | 4.44.37 A | 23. 2. 16 |
| 9.37.29,9 A | -13,8 | 10,3 | 8. 17. 4 | 1. 10. 49. 57 | 25.56.57 A | 17. 47. 55 |
| 49. 5. 5,1 B | +13,6 | 11,4 | 6. 25. 45 | 1. 29. 6 1 | 30. 5.51 B | 18. 11. 12 |
| 10.11.30,9 A | -12,7 | 10,6 | 8. 17. 46 | 1. 15. 14. 44 | 27.45.37 A | 16 33. 11 |
| 47. 5.12,6 B | +12,4 | 10,4 | 6. 29. 37 | 2. 1. 49. 5 | 27.16.31 B | 16. 2. 86 |

Positiones mediae 300. principalium stellarum fixarum

| NOMEN SIDERIS | Ascensio recta | | Va- tas io nua S | Aber- max S | Argum. Aberra- tionis S. G. M. | |
|-----------------------------------|----------------|-----------|---------------------------|-------------------|---|-----------|
| | H. M. S. | S. G. M. | | | | |
| b Plejadum <i>Electra</i> | 5 | 3. 33. 11 | 53. 2. 56,8 | 53,0 | 21,1 | 4. 25. 19 |
| δ Eridani : . . . | 3 | 3. 33. 2 | 53. 15. 26,3 | 45,2 | 19,7 | 4. 25. 32 |
| n Plejadum <i>Alcyone</i> | 3 | 3. 34. 47 | 53. 41. 52,3 | 53,1 | 21,1 | 4. 25. 27 |
| f . . . <i>Atlas</i> . . . | 5 | 3. 36. 28 | 54. 7. 0,7 | 53,1 | 21,1 | 4. 26. 22 |
| ζ Perfei | 3 | 3. 40. 43 | 55. 10. 40,7 | 56,1 | 22,7 | 4. 27. 23 |
| f Eridiani | 4 | 3. 40. 43 | 55. 10. 41,1 | 33,2 | 24,8 | 4. 27. 35 |
| ε Perfei | 3 | 3. 43. 33 | 55. 53. 10,2 | 59,7 | 25,2 | 4. 28. 4 |
| l Eridani | 4 | 3. 44. 37 | 56. 9. 11,0 | 38,3 | 21,5 | 4. 28. 10 |
| γ | 3 | 3. 48. 4 | 57. 1. 0,0 | 41,9 | 20,1 | 4. 29. 11 |
| o | 4 | 4. 1. 27 | 60. 21. 43,9 | 43,9 | 19,7 | 5. 2. 23 |
| γ Tauri | 3 | 4. 3. 38 | 60. 54. 26,3 | 50,9 | 20,3 | 5. 3. 51 |
| δ Eridani | 3 | 4. 9. 49 | 62. 27. 16,6 | 34,0 | 23,8 | 5. 4. 23 |
| δ Tauri praeced. | 4 | 4. 10. 37 | 62. 39. 10,6 | 51,6 | 20,6 | 5. 4. 33 |
| δ . . . sequens . . | 4 | 4. 11. 47 | 62. 56. 47,1 | 51,1 | 20,5 | 5. 4. 50 |
| ε Tauri | 4 | 4. 16. 8 | 64. 2. 0,1 | 52,2 | 20,8 | 5. 5. 52 |
| α . . . <i>Aldebaran</i> | 1 | 4. 23. 39 | 65. 54. 53,1 | 51,4 | 20,5 | 5. 7. 39 |
| v Eridani | 3 | 4. 27. 15 | 66. 48. 47,8 | 35,1 | 23,0 | 5. 8. 30 |
| 53 ^a Eridani | 3 | 4. 28. 24 | 67. 6. 7,3 | 41,3 | 20,4 | 5. 8. 45 |
| 54 ^a Eridani | 3 | 4. 31. 7 | 67. 46. 48,3 | 39,4 | 21,0 | 5. 9. 25 |
| l Tauri | 4 | 4. 50. 20 | 72. 34. 52,9 | 53,6 | 21,3 | 5. 13. 53 |
| ε Eridani | 3 | 4. 57. 21 | 74. 20. 21,7 | 44,3 | 20,0 | 5. 15. 32 |
| α Aurigae <i>Capella</i> | 1 | 5. 0. 54 | 75. 13. 29,2 | 66,0 | 28,5 | 5. 16. 19 |
| ε Orionis <i>Rigel</i> . | 1 | 5. 4. 17 | 76. 4. 7,8 | 43,3 | 20,1 | 5. 17. 7 |
| ε Tauri | 2 | 5. 12. 46 | 78. 11. 29,3 | 56,7 | 22,7 | 5. 19. 4 |
| γ Orionis | 2 | 5. 13. 40 | 78. 24. 58,8 | 48,3 | 20,0 | 5. 19. 17 |
| n Orionis | 3 | 5. 13. 44 | 78. 25. 55,3 | 45,2 | 19,0 | 5. 19. 18 |
| ε Leporis | 3 | 5. 19. 5 | 79. 46. 10,2 | 38,6 | 21,3 | 5. 20. 33 |
| δ Orionis | 2 | 5. 21. 6 | 80. 16. 27,2 | 46,0 | 20,0 | 5. 21. 1 |
| α Leporis | 3 | 5. 23. 19 | 80. 49. 41,2 | 39,7 | 21,0 | 5. 21. 32 |
| ζ Tauri | 3 | 5. 24. 52 | 81. 12. 55,5 | 53,7 | 21,3 | 5. 21. 58 |
| l Orionis | 3 | 5. 24. 59 | 81. 14. 42,2 | 44,0 | 20,0 | 5. 21. 55 |
| ε | 2 | 5. 25. 22 | 81. 20. 35,4 | 45,7 | 19,8 | 5. 22. 0 |
| ζ | 2 | 5. 29. 59 | 82. 29. 50,1 | 45,4 | 20,0 | 5. 23. 4 |
| α Columbae | 2 | 5. 31. 55 | 82. 58. 46,8 | 32,6 | 24,2 | 5. 23. 31 |
| γ Leporis | 3 | 5. 35. 34 | 83. 53. 29,5 | 37,9 | 21,6 | 5. 24. 20 |

pro I. Jan. 1786. ex Catalogo D. de la Caille computatae &c.

| <i>Declinatio</i> | <i>Variatio annua</i> | <i>Aberr. max.</i> | <i>Argum. aberrationis</i> | <i>Longitudo</i> | <i>Latitudo</i> | <i>Angulus positionis</i> |
|-------------------|-----------------------|--------------------|----------------------------|--------------------|-----------------|---------------------------|
| <i>G. M. S.</i> | <i>S.</i> | <i>S.</i> | <i>S. G. M.</i> | <i>S. G. M. S.</i> | <i>G. M. S.</i> | <i>G. M. S.</i> |
| 23.26.13,2 B | +12,1 | 5,0 | 5.12.44 | 1.26.25.28 | 4.10.26B | 13.53.26 |
| 10.30.15,7 A | -12,0 | 10,7 | 8.18.15 | 1.17.51.41 | 28.45.13A | 15.47.13 |
| 23.25.50,3 B | +11,9 | 4,9 | 5.13.0 | 1.27.0.15 | 4.1.34B | 13.40.27 |
| 23.23.9,1 B | +11,8 | 4,8 | 5.13.2 | 1.27.22.9 | 3.53.31B | 13.31.59 |
| 31.14.1,3 B | +11,5 | 6,0 | 6.9.26 | 2.0.8.14 | 21.18.19B | 13.24.41 |
| 38.16.59,8 A | -11,5 | 17,1 | 8.5.34 | 1.7.31.47 | 55.35.0A | 23.43.42 |
| 39.22.34,3 B | +11,3 | 7,9 | 6.5.54 | 2.2.41.37 | 19.5.13B | 13.40.23 |
| 25.15.23,3 A | -11,2 | 14,5 | 8.10.50 | 1.15.51.27 | 43.40.24A | 17.51.41 |
| 14.7.43,3 A | -10,9 | 11,7 | 8.16.57 | 1.20.52.13 | 33.13.23A | 15.1.21 |
| 7.23.34,8 A | -9,9 | 10,0 | 8.22.40 | 1.26.25.29 | 27.29.13d | 12.49.40 |
| 15.5.51,7 B | +9,5 | 4,3 | 4.5.12 | 2.2.48.35 | 5.45.31A | 10.51.58 |
| 34.19.48,2 A | -9,3 | 16,6 | 8.11.38 | 1.19.29.25 | 53.59.31A | 18.15.32 |
| 17.1.39,5 B | +9,2 | 3,9 | 4.13.22 | 2.3.52.35 | 3.59.44A | 10.34.8 |
| 16.56.6,2 B | +9,1 | 3,9 | 4.12.46 | 2.4.8.3 | 4.8.15A | 10.27.55 |
| 18.41.33,0 B | +8,8 | 3,6 | 4.21.9 | 2.5.28.11 | 2.35.34A | 10.3.14 |
| 16.4.1,9 B | +8,2 | 3,9 | 4.6.47 | 2.6.47.57 | 5.29.0A | 9.24.4 |
| 31.0.36,4 A | -7,9 | 16,0 | 8.15.17 | 1.26.53.24 | 51.50.48A | 14.42.21 |
| 14.43.58,0 A | -7,8 | 12,1 | 8.20.36 | 2.2.16.19 | 36.1.24A | 11.2.50 |
| 20.5.30,6 A | -7,6 | 11,0 | 8.23.2 | 2.1.44.13 | 41.24.28A | 11.36.9 |
| 21.16.8,4 B | +6,0 | 2,4 | 5.3.39 | 2.13.47.53 | 1.13.39B | 6.50.22 |
| 5.22.29,6 A | -5,4 | 9,6 | 8.26.59 | 2.12.17.53 | 27.53.18A | 6.59.13 |
| 35.45.55,0 B | +5,1 | 8,0 | 8.2.46 | 2.18.52.4 | 22.51.43B | 6.20.14 |
| 8.27.38,1 A | -4,9 | 10,6 | 8.26.8 | 2.13.50.36 | 31.9.13A | 6.26.3 |
| 28.24.31,7 B | +4,1 | 2,5 | 7.8.2 | 2.19.35.5 | 5.21.56B | 4.41.44 |
| 6.8.26,0 B | +4,1 | 6,0 | 3.4.6 | 2.17.57.35 | 16.50.53A | 4.47.38 |
| 2.36.28,0 A | -4,0 | 8,8 | 8.28.47 | 2.17.10.11 | 25.23.58A | 5.4.48 |
| 20.56.28,8 A | -3,6 | 13,9 | 8.24.45 | 2.16.41.5 | 43.56.29A | 5.37.48 |
| 0.28.13,2 A | -3,4 | 8,1 | 8.29.48 | 2.19.22.42 | 23.35.2A | 4.12.39 |
| 17.59.17,5 A | -4,2 | 13,1 | 8.25.43 | 2.18.23.44 | 41.5.29A | 4.49.57 |
| 20.59.48,1 B | +3,1 | 1,5 | 4.19.21 | 2.21.47.49 | 2.13.31A | 3.29.2 |
| 6.3.48,5 A | -3,1 | 9,8 | 8.28.8 | 2.20.0.43 | 29.13.25A | 3.59.2 |
| 1.21.8,6 A | -3,0 | 8,4 | 8.29.31 | 2.20.28.44 | 24.32.18A | 3.46.43 |
| 2.4.70,2 A | -2,6 | 8,6 | 8.29.22 | 2.21.42.0 | 25.19.32A | 3.17.55 |
| 34.11.50,4 A | -2,5 | 16,9 | 8.25.18 | 2.19.11.3 | 57.24.21A | 5.10.33 |
| 23.31.35,7 A | -2,2 | 14,3 | 8.26.43 | 2.21.53.27 | 45.49.36A | 3.20.14 |

Positiones mediae 300. principalium Stellarum fixarum

| NOMEN SYDERIS | Ascensio recta | | | | | | Va- riatio a ⁿ na S. | Aber. max. S. | Argum. aberra- tionis S. G. M. |
|---|----------------|-----|----|------|-----|------|--|---------------------|---|
| | H. | M. | S. | G. | M. | S. | | | |
| x Orionis 2. 3 | 5. | 37. | 38 | 84. | 24. | 28,3 | 42,7 | 20,2 | 5. 24. 49 |
| δ Leporis 2. 4 | 5. | 42. | 8 | 85. | 31. | 54,0 | 38,5 | 21,4 | 5. 25. 51 |
| ε Columbae 3 | 5. | 43. | 26 | 85. | 51. | 33,2 | 31,7 | 24,8 | 5. 26. 19 |
| α Orionis 1 | 5. | 43. | 36 | 85. | 53. | 56,0 | 48,7 | 20,0 | 5. 26. 10 |
| ε Aurigae 2. 3 | 5. | 43. | 46 | 85. | 56. | 34,1 | 66,0 | 28,1 | 5. 26. 12 |
| θ 2 | 5. | 45. | 8 | 86. | 16. | 53,8 | 61,3 | 25,0 | 5. 26. 31 |
| η Castoris 3. 4 | 6. | 1. | 57 | 90. | 29. | 21,7 | 54,5 | 20,0 | 6. 0. 23 |
| μ Pollucis 3. 4 | 6. | 10. | 0 | 92. | 30. | 4,2 | 54,5 | 20,6 | 6. 2. 13 |
| γ Canis maj. 2. 3 | 6. | 12. | 7 | 93. | 1. | 45,6 | 34,6 | 23,0 | 6. 2. 44 |
| ε 2. 3 | 6. | 13. | 17 | 93. | 19. | 15,0 | 39,7 | 21,0 | 6. 2. 52 |
| δ Columbae 4 | 6. | 14. | 19 | 93. | 34. | 44,8 | 33,0 | 23,9 | 6. 3. 14 |
| γ Pollucis . i 2. 3 | 6. | 25. | 16 | 96. | 19. | 6,2 | 52,1 | 20,8 | 6. 5. 45 |
| ε Castoris 3 | 6. | 30. | 41 | 97. | 41. | 25,7 | 55,5 | 22,1 | 6. 7. 0 |
| ν Navis 3 | 6. | 31. | 15 | 97. | 48. | 19,5 | 27,6 | 27,3 | 6. 7. 8 |
| α Canis maj. <i>Sirius</i> 1 | 6. | 35. | 45 | 98. | 56. | 14,0 | 40,2 | 20,8 | 6. 8. 9 |
| ε 3 | 6. | 50. | 14 | 102. | 33. | 24,6 | 35,0 | 22,7 | 6. 11. 31 |
| ε Pollucis 3 | 6. | 51. | 24 | 102. | 50. | 57,0 | 53,6 | 21,3 | 6. 11. 45 |
| b Canis maj. 4 | 6. | 53. | 12 | 103. | 18. | 1,0 | 35,9 | 22,4 | 6. 12. 11 |
| γ 4 | 6. | 54. | 5 | 103. | 31. | 10,1 | 40,8 | 20,6 | 6. 12. 23 |
| δ 2 | 6. | 59. | 42 | 104. | 55. | 28,2 | 36,7 | 22,1 | 6. 13. 42 |
| δ Pollucis 3 | 7. | 7. | 19 | 106. | 49. | 50,0 | 54,0 | 21,5 | 6. 15. 23 |
| π Navis 3 | 7. | 9. | 36 | 107. | 23. | 54,2 | 31,9 | 24,8 | 6. 16. 0 |
| ε Canis min. 3 | 7. | 15. | 33 | 108. | 53. | 11,6 | 49,1 | 20,1 | 6. 17. 23 |
| η Canis maj. 2 | 7. | 15. | 38 | 108. | 54. | 29,6 | 35,7 | 18,0 | 6. 17. 23 |
| α Castoris 1. 2 | 7. | 20. | 56 | 110. | 13. | 52,1 | 58,1 | 23,5 | 6. 18. 37 |
| σ Navis 3 | 7. | 22. | 28 | 110. | 36. | 56,8 | 28,7 | 27,0 | 6. 19. 0 |
| α Canis min. <i>Procyon</i> 1 | 7. | 28. | 7 | 112. | 1. | 47,3 | 48,0 | 19,9 | 6. 20. 18 |
| In ventre Monoc. 4 | 7. | 31. | 2 | 112. | 45. | 27,4 | 43,1 | 20,1 | 6. 20. 59 |
| ε Pollucis 2. 3 | 7. | 32. | 13 | 113. | 8. | 21,2 | 50,1 | 22,5 | 6. 21. 15 |
| ξ Navis 3. 4 | 7. | 40. | 18 | 115. | 4. | 33,7 | 37,9 | 21,3 | 6. 23. 11 |
| α 4 | 7. | 44. | 52 | 116. | 13. | 6,2 | 31,1 | 25,7 | 6. 24. 19 |
| ε 2 | 7. | 56. | 5 | 119. | 1. | 8,4 | 31,8 | 25,4 | 6. 26. 56 |
| ρ 3. 2 | 7. | 58. | 26 | 119. | 36. | 33,2 | 38,5 | 21,4 | 6. 27. 29 |
| ε Cancri 3. 4 | 8. | 4. | 54 | 121. | 13. | 33,3 | 49,1 | 19,9 | 6. 29. 0 |
| γ 4 | 8. | 30. | 53 | 127. | 43. | 15,8 | 52,6 | 21,0 | 7. 5. - |

pro 1. Jan. 1786. ex Catalogo D. de la Caille computatae &c.

| Declinatio G. M. S. | Variatio annua S. | Aberr. max. S. | Argum. aberra- tionis S. G. M. | Longitudo | | Latitudo G. M. S. | Angulus positionis G. M. S. |
|------------------------|-------------------------|----------------------|---|---------------|--------------|----------------------|-----------------------------------|
| | | | | S. G. M. S. | G. M. S. | | |
| 9. 45. 25,7 A | - 2,0 | 10, 9 | 8. 28. 15 | 2. 23. 25. 1 | 33. 6. 5 A | 2. 39. 20 | |
| 20. 54. 13,5 A | - 1,6 | 14, 0 | 8. 27. 42 | 2. 24. 9. 53 | 45. 17. 7 A | 2. 29. 7 | |
| 35. 51. 44,5 A | - 1,5 | 17, 2 | 8. 27. 8 | 2. 23. 25. 46 | 59. 14. 23 A | 3. 14. 21 | |
| 7. 21. 10,7 B | + 1,5 | 5, 6 | 3. 1. 55 | 2. 25. 46. 3 | 16. 3. 32 A | 1. 41. 56 | |
| 44. 54. 15,1 B | + 1,5 | 7, 3 | 8. 22. 11 | 2. 27. 55. 33 | 21. 28. 21 B | 1. 43. 41 | |
| 37. 10. 44,7 B | + 1,3 | 4, 8 | 8. 20. 21 | 2. 36. 57. 2 | 13. 44. 46 B | 1. 31. 26 | |
| 22. 33. 19,4 B | - 0,1 | 0, 3 | 8. 20. 12 | 3. 0. 27. 8 | 0. 55. 5 A | 0. 11. 41 | |
| 22. 36. 30,7 B | - 0,8 | 0, 4 | 1. 3. 22 | 3. 2. 18. 23 | 0. 50. 37 A | 0. 59. 45 | |
| 29. 58. 44,1 A | + 1,0 | 16, 0 | 9. 1. 55 | 3. 4. 24. 14 | 53. 24. 17 A | 2. 1. 24 | |
| 17. 51. 47,2 A | + 1,1 | 13, 2 | 9. 1. 30 | 3. 4. 12. 30 | 41. 17. 12 A | 1. 45. 38 | |
| 33. 20. 16,9 A | + 1,2 | 16, 7 | 9. 8. 19 | 3. 5. 27. 21 | 56. 44. 32 A | 2. 35. 54 | |
| 16. 34. 3,9 B | - 2,2 | 2, 5 | 2. 15. 43 | 3. 6. 6. 50 | 6. 46. 13 A | 2. 31. 47 | |
| 25. 19. 30,6 B | - 2,6 | 1, 3 | 11. 2. 57 | 3. 6. 57. 9 | 2. 2. 19 B | 3. 3. 27 | |
| 43. 1. 1,0 A | + 2,7 | 18, 2 | 9. 5. 47 | 3. 14. 11. 24 | 66. 6. 16 A | 7. 40. 27 | |
| 16. 25. 24,0 A | + 3,1 | 12, 8 | 9. 3. 54 | 3. 11. 8. 34 | 39. 32. 58 A | 4. 36. 9 | |
| 28. 41. 30,5 A | + 4,3 | 15, 7 | 9. 7. 36 | 3. 17. 47. 44 | 51. 23. 24 A | 7. 58. 36 | |
| 20. 52. 10,2 B | - 4,4 | 1, 9 | 1. 4. 0 | 3. 12. 0. 5 | 2. 4. 6 A | 5. 5. 5 | |
| 27. 38. 25,4 A | + 4,6 | 15, 4 | 9. 7. 53 | 3. 18. 35. 17 | 50. 15. 24 A | 8. 14. 24 | |
| 15. 19. 40,7 A | + 4,6 | 12, 4 | 9. 5. 40 | 3. 16. 37. 50 | 38. 1. 18 A | 6. 47. 17 | |
| 26. 3. 55,3 A | + 5,1 | 15, 1 | 9. 8. 36 | 3. 20. 25. 41 | 48. 29. 0 A | 8. 54. 9 | |
| 22. 21. 42,8 B | - 5,8 | 2, 3 | 0. 17. 12 | 3. 15. 51. 54 | 0. 12. 22 A | 6. 37. 20 | |
| 26. 43. 17,2 A | + 6,0 | 17, 2 | 9. 11. 57 | 3. 27. 20. 43 | 58. 33. 3 A | 13. 11. 41 | |
| 8. 42. 33,6 B | - 6,5 | 5, 3 | 2. 19. 26 | 3. 19. 12. 45 | 13. 30. 37 A | 7. 37. 11 | |
| 28. 53. 47,8 A | + 6,5 | 15, 7 | 9. 11. 29 | 3. 26. 34. 19 | 50. 38. 11 A | 11. 44. 30 | |
| 31. 20. 30,8 B | - 6,9 | 4, 4 | 10. 26. 1 | 3. 17. 15. 44 | 10. 4. 33 B | 8. 2. 30 | |
| 42. 52. 37,3 A | + 7,0 | 18, 2 | 9. 15. 16 | 3. 5. 46. 22 | 63. 48. 26 A | 18. 31. 30 | |
| 5. 46. 14,1 B | - 7,5 | 6, 3 | 2. 23. 4 | 3. 22. 50. 26 | 15. 58. 9 A | 8. 56. 22 | |
| 9. 3. 43,1 A | + 7,7 | 10, 6 | 9. 6. 35 | 3. 26. 18. 40 | 30. 28. 34 A | 10. 17. 52 | |
| 28. 31. 44,3 B | - 7,8 | 3, 9 | 11. 13. 58 | 3. 20. 16. 8 | 6. 40. 0 B | 9. 2. 8 | |
| 24. 20. 3,5 A | + 8,5 | 14, 5 | 9. 13. 52 | 4. 3. 4. 44 | 44. 57. 53 A | 13. 48. 20 | |
| 40. 1. 51,3 A | + 8,8 | 17, 6 | 9. 18. 46 | 4. 12. 8. 13 | 59. 43. 16 A | 20. 25. 33 | |
| 39. 24. 25,2 A | + 9,7 | 17, 5 | 9. 20. 38 | 4. 15. 36. 44 | 58. 21. 57 A | 21. 36. 56 | |
| 23. 41. 57,5 A | + 9,9 | 14, 3 | 9. 16. 7 | 4. 8. 25. 50 | 43. 17. 46 A | 15. 41. 14 | |
| 9. 49. 58,2 B | - 10,4 | 5, 5 | 2. 11. 7 | 4. 1. 16. 39 | 10. 18. 32 B | 12. 6. 54 | |
| 22. 13. 41,0 B | - 12,2 | 5, 0 | 0. 22. 4 | 4. 4. 33. 25 | 3. 10. 21 A | 14. 7. 35 | |

Positiones mediae 300. principalium stellarum fixarum

| NOMEN SYDERIS | | Ascensio recta | | | Variatio annua S. | Aber. max. S. | Argum. aberra- tionis S. G. M. |
|-----------------------------------|------|----------------|---------------|------|-------------------------|---------------------|---|
| | | H. M. S. | G. M. S. | | | | |
| ♂ Caneri | 4 | 8. 32. 30 | 128. 7. 38,4 | 51,6 | 20,5 | 7. 5. 41 | |
| ♁ Hydrae | 4. 5 | 8. 44. 4 | 131. 1. 2,4 | 47,9 | 19,4 | 7. 8. 31 | |
| ι Urfae maj. | 3 | 8. 44. 29 | 131. 7. 15,3 | 63,5 | 29,4 | 7. 8. 36 | |
| α Cancri | 5 | 8. 46. 46 | 131. 41. 34,6 | 49,5 | 19,8 | 7. 9. 11 | |
| κ Urfae maj. | 3. 4 | 8. 48. 55 | 132. 13. 46,4 | 62,7 | 28,8 | 7. 9. 11 | |
| λ Navis | 2. 3 | 9. 0. 9 | 135. 2. 10,4 | 33,1 | 26,1 | 7. 12. 31 | |
| α Hydrae | 2 | 9. 17. 5 | 139. 16. 18,3 | 44,4 | 19,2 | 7. 16. 45 | |
| θ Urfae maj. | 3 | 9. 18. 31 | 139. 37. 38,5 | 63,3 | 31,4 | 7. 17. 5 | |
| ο Leonis | 4 | 9. 29. 43 | 142. 25. 50,8 | 43,5 | 19,3 | 7. 19. 47 | |
| ε | 3 | 9. 33. 40 | 143. 25. 6,0 | 51,6 | 20,9 | 7. 20. 57 | |
| μ | 3 | 9. 40. 34 | 145. 8. 32,5 | 52,0 | 21,2 | 7. 22. 52 | |
| η | 3 | 9. 55. 38 | 148. 54. 33,2 | 49,4 | 19,8 | 7. 26. 37 | |
| α Leonis <i>Regulus</i> | 1 | 9. 46. 58 | 149. 14. 31,4 | 48,5 | 19,3 | 7. 26. 57 | |
| ζ | 3 | 10. 4. 45 | 151. 11. 15,3 | 50,6 | 20,6 | 7. 28. 59 | |
| γ | 3 | 10. 8. 9 | 152. 2. 9,6 | 49,8 | 20,0 | 7. 29. 52 | |
| ρ Leonis | 4 | 10. 21. 32 | 155. 22. 55,6 | 47,7 | 19,0 | 8. 3. 22 | |
| ε Urfae maj. | 2 | 10. 48. 44 | 162. 11. 1,2 | 55,8 | 34,5 | 8. 10. 38 | |
| α Crateris | 4 | 10. 49. 23 | 162. 20. 48,4 | 44,3 | 19,4 | 8. 10. 48 | |
| α Urfae maj. | 2 | 10. 50. 22 | 162. 35. 36,9 | 57,9 | 41,0 | 8. 11. 3 | |
| δ Leonis | 2. 3 | 11. 2. 54 | 165. 43. 24,7 | 48,1 | 19,9 | 8. 14. 22 | |
| θ | 3 | 11. 2. 59 | 165. 44. 50,4 | 47,6 | 19,3 | 8. 14. 27 | |
| α Hydrae | 4. 5 | 11. 21. 42 | 170. 25. 33,7 | 44,3 | 20,8 | 8. 19. 31 | |
| β | 3. 4 | 11. 22. 32 | 170. 37. 56,1 | 44,2 | 21,4 | 8. 19. 44 | |
| Leonis | 2 | 11. 38. 9 | 174. 32. 18,6 | 46,7 | 19,2 | 8. 23. 59 | |
| ε Virginis | 3 | 11. 39. 32 | 174. 53. 4,0 | 46,3 | 18,4 | 8. 24. 21 | |
| γ Urfae maj. | 2 | 11. 42. 29 | 175. 37. 21,5 | 48,4 | 31,9 | 8. 25. 9 | |
| α Corvi | 4 | 11. 57. 25 | 179. 21. 10,6 | 46,0 | 20,0 | 8. 29. 14 | |
| ε | 3. 4 | 11. 59. 10 | 179. 47. 26,9 | 46,1 | 19,7 | 8. 29. 44 | |
| δ Urfae maj. | 3 | 12. 4. 45 | 181. 11. 10,8 | 45,8 | 34,9 | 9. 1. 14 | |
| γ Corvi | 3 | 12. 4. 50 | 181. 12. 31,6 | 46,3 | 19,1 | 9. 1. 15 | |
| η Virginis | 3. 4 | 12. 8. 58 | 182. 14. 28,8 | 46,1 | 18,4 | 9. 2. 23 | |
| δ Corvi | 3. 4 | 12. 18. 50 | 184. 42. 29,1 | 46,6 | 19,0 | 9. 5. 4 | |
| ε | 3 | 12. 23. 11 | 185. 47. 44,5 | 47,0 | 19,8 | 9. 6. 15 | |
| γ Virginis | 3 | 12. 30. 52 | 187. 43. 3,2 | 46,2 | 18,4 | 9. 8. 20 | |
| ε Urfae maj. | 2 | 12. 24. 32 | 191. 7. 54,5 | 40,3 | 33,9 | 9. 12. 4 | |

pro 1. Jan. 1786. ex D. Catalogo de la Caille computatz &c.

| <i>Declinatio</i> | <i>Variatio annua</i> | <i>Max. Aberr.</i> | <i>Argum. aberrationis</i> | <i>Longitudo</i> | <i>Latitudo</i> | <i>Angulus positionis</i> |
|-------------------|-----------------------|--------------------|----------------------------|--------------------|-----------------|---------------------------|
| <i>G. M. S.</i> | <i>S.</i> | <i>S.</i> | <i>S. G. M.</i> | <i>S. G. M. S.</i> | <i>G. M. S.</i> | <i>G. M. S.</i> |
| 18.56. 0,7 B | - 12,3 | 4,9 | 1. 5. 23 | 4. 5. 43. 59 | 0. 4.18 B | 14.13. 8 |
| 6.45.23,5 B | - 13,1 | 6,4 | 2. 16. 10 | 4. 11. 35. 50 | 10.58.59 A | 15.26.34 |
| 48.53.11,6 B | - 13,2 | 11,2 | 11. 2. 19 | 3. 29. 49. 37 | 29.34.21 B | 17.31.42 |
| 12.40.40,0 B | - 13,3 | 5,6 | 1. 28. 28 | 4. 10. 29. 19 | 5. 5.53 A | 15.25.30 |
| 47.59.35,7 B | - 13,4 | 11,1 | 11. 4. 23 | 4. 0. 56. 25 | 28.57.33 B | 17.49. 3 |
| 42.34.31,9 A | + 14,2 | 17,5 | 10. 3. 9 | 5. 8. 15. 12 | 55.52.42 A | 30. 9. 36 |
| 7.44.16,7 A | + 15,2 | 9,7 | 9. 12. 5 | 4. 24. 18. 33 | 22.23.48 A | 19. 3. 15 |
| 52.38.48,6 B | - 15,2 | 13,0 | 11. 9. 3 | 4. 4. 19. 11 | 34.55.53 B | 21.43. 52 |
| 10.51.34,4 B | - 15,8 | 6,4 | 2. 2. 21 | 4. 21. 16. 14 | 3.46. 0 A | 18.27. 16 |
| 24.45. 2,5 B | - 16,1 | 7,2 | 0. 21. 28 | 3. 17. 42. 56 | 9.41.53 B | 18.56. 2 |
| 27. 0.25,4 B | - 16,4 | 7,8 | 11. 17. 29 | 4. 18. 27. 3 | 12.20.22 B | 19.22.43 |
| 17.43. 5,9 B | - 17,1 | 7,0 | 1. 11. 46 | 4. 24. 54. 49 | 4.51. 9 B | 20. 1. 4 |
| 13. 0.33,7 B | - 17,2 | 6,8 | 1. 25. 33 | 4. 26. 51. 25 | 0.27.33 B | 20. 0. 57 |
| 24.28.38,3 B | - 17,5 | 8,1 | 0. 26. 13 | 4. 24. 34. 6 | 11.50.58 B | 20.53. 26 |
| 20.55.15,1 B | - 17,7 | 7,7 | 1. 4. 38 | 4. 26. 36. 4 | 8.45.19 B | 20.51. 15 |
| 10.24.19,3 B | - 18,2 | 7,2 | 2. 2. 58 | 5. 3. 24. 3 | 0. 8.30 B | 21.13.44 |
| 57.31.31,2 B | - 19,1 | 16,1 | 11. 28. 18 | 4. 16. 24. 56 | 45. 6.31 B | 32.29. 57 |
| 17. 9.52,8 A | + 19,1 | 10,8 | 10. 1. 14 | 5. 20. 45. 12 | 22.42.45 A | 24.17.40 |
| 62.54.14,6 B | - 19,1 | 17,0 | 11. 25. 41 | 4. 12. 11. 10 | 49.40. 4 B | 35.57. 37 |
| 21.41.46,4 B | - 19,4 | 9,2 | 1. 8. 33 | 5. 8. 18. 19 | 14.19.48 B | 23.28. 20 |
| 16.55.57,8 B | - 19,4 | 8,4 | 1. 18. 48 | 5. 10. 25. 47 | 9.40.30 B | 23. 3. 17 |
| 28. 5.33,6 A | + 19,8 | 12,6 | 10. 17. 36 | 5. 3. 29. 6 | 29.21.55 A | 26.47. 9 |
| 30.40.24,6 A | + 19,8 | 13,1 | 10. 20. 11 | 6. 5. 2. 9 | 31.34.49 A | 27.28. 17 |
| 15.46.12,2 B | - 19,9 | 9,0 | 1. 22. 58 | 5. 18. 39. 7 | 12.17.13 B | 23.56. 26 |
| 2.58.27,5 B | - 19,9 | 7,9 | 2. 22. 27 | 5. 24. 7. 38 | 0.41.41 B | 23.21. 50 |
| 54.53. 7,4 B | - 20,0 | 16,7 | 0. 11. 48 | 4. 27. 26. 54 | 17. 7.23 B | 35.42. 35 |
| 23.31. 3,9 A | + 20,0 | 10,9 | 10. 17. 11 | 6. 9. 15. 49 | 21.44.21 A | 25.23. 25 |
| 21.25.42,9 A | + 20,0 | 10,4 | 10. 14. 25 | 6. 8. 41. 51 | 19.39.43 A | 25. 1. 17 |
| 58.13.23,7 B | - 20,0 | 17,6 | 0. 14. 50 | 4. 28. 1. 50 | 51.38.14 B | 39.54.47 |
| 16.21.11,5 A | + 20,0 | 9,4 | 10. 6. 42 | 6. 7. 45. 38 | 14.29.21 A | 24.17. 10 |
| 0.31.35,0 B | - 20,0 | 8,0 | 2. 28. 37 | 6. 1. 50. 49 | 1.22.31 B | 23.27. 35 |
| 15.19.15,3 A | + 20,0 | 9,0 | 10. 5. 48 | 6. 10. 28. 59 | 12.10.16 A | 23.57. 34 |
| 22.12.34,8 A | + 19,9 | 10,1 | 10. 18. 20 | 6. 14. 23. 22 | 18. 1.42 A | 24.37. 44 |
| 0.16.15,1 A | + 19,8 | 8,0 | 9. 0. 36 | 6. 7. 11. 22 | 2.48.56 B | 23.16. 38 |
| 57. 7.33,1 B | - 19,7 | 18,0 | 0.23. 50 | 5. 5. 53. 44 | 54.18.16 B | 42. 3. 3 |

Positiones mediae 300 principalium stellarum fixarum

| NOMEN SYDERIS | Ascensio recta . | | Variatio annua S. | Aber- max. S. | Argum. aberra- tionis S. G. M. |
|-------------------------------|------------------|---------------|-------------------------|---------------------|---|
| | H. M. S. | G. M. S. | | | |
| δ Virginis 3 | 12. 44. 51 | 191. 12. 50,1 | 45,8 | 18,4 | 9. 12. 8 |
| Cor. Caroli II. 3 | 12. 45. 20 | 191. 20. 3,3 | 42,9 | 23,9 | 9. 12. 27 |
| ε Virginis 3 | 12. 51. 31 | 192. 52. 49,5 | 45,2 | 18,9 | 9. 13. 56 |
| θ 3.4 | 12. 58. 54 | 194. 43. 24,1 | 46,5 | 18,5 | 9. 15. 55 |
| γ Hydrae 3 | 13. 7. 20 | 196. 49. 53,7 | 48,5 | 19,8 | 9. 18. 11 |
| ι Centauri 3 | 13. 8. 39 | 197. 9. 41,0 | 50,4 | 23,3 | 9. 18. 33 |
| α Virg. Spica 1.2 | 13. 13. 57 | 198. 29. 16,0 | 47,3 | 18,8 | 9. 19. 57 |
| Ursae maj. 2 | 13. 15. 15 | 198. 48. 48,8 | 36,6 | 33,2 | 9. 20. 19 |
| β Virginis 3 | 13. 23. 49 | 200. 57. 12,5 | 46,2 | 18,4 | 9. 22. 36 |
| ν Centauri 3.4 | 13. 36. 45 | 204. 11. 20,2 | 53,2 | 24,5 | 9. 26. 1 |
| μ Centauri 3.4 | 13. 36. 49 | 204. 12. 8,5 | 53,4 | 24,8 | 9. 26. 5 |
| ξ 4 | 13. 37. 8 | 204. 16. 55,3 | 53,6 | 21,8 | 9. 26. 7 |
| η Ursae maj. 2 | 13. 39. 7 | 204. 46. 38,0 | 36,0 | 29,3 | 9. 26. 40 |
| κ Centauri 4.5 | 13. 39. 34 | 204. 53. 25,0 | 51,4 | 21,5 | 9. 26. 45 |
| η Bootis 3 | 13. 44. 29 | 206. 7. 22,1 | 43,0 | 19,8 | 9. 28. 3 |
| θ Centauri 3 | 13. 54. 11 | 208. 32. 47,0 | 52,9 | 22,9 | 10. 0. 26 |
| α Draconis 3 | 13. 58. 36 | 209. 39. 4,0 | 24,5 | 45,1 | 10. 1. 42 |
| γ Virginis 4 | 14. 1. 31 | 210. 22. 40,5 | 47,8 | 19,0 | 10. 2. 30 |
| α Bootis Arcturus 1 | 14. 5. 57 | 211. 29. 22,0 | 42,3 | 20,0 | 10. 3. 39 |
| λ Virginis 4 | 14. 7. 24 | 211. 53. 25,6 | 48,5 | 19,3 | 10. 4. 5 |
| η Centauri 2.3 | 14. 22. 0 | 215. 29. 56,3 | 56,3 | 25,1 | 10. 7. 47 |
| γ Bootis 3 | 14. 23. 27 | 215. 51. 50,9 | 36,6 | 24,4 | 10. 8. 11 |
| δ 3 | 14. 30. 56 | 217. 43. 58,5 | 42,9 | 19,6 | 10. 10. 6 |
| ε 3 | 14. 35. 39 | 218. 54. 44,1 | 39,5 | 21,5 | 10. 11. 18 |
| α Librae 2.3 | 14. 39. 5 | 219. 46. 8,4 | 49,6 | 19,7 | 10. 12. 9 |
| ε Lupi 3 | 14. 44. 36 | 221. 9. 1,2 | 58,1 | 25,8 | 10. 13. 33 |
| κ Centauri 3 | 14. 45. 19 | 221. 19. 47,6 | 57,7 | 25,4 | 10. 15. 43 |
| γ Scorpionis 3.4 | 14. 51. 36 | 222. 53. 53,7 | 52,3 | 21,0 | 10. 15. 18 |
| ε Ursae min. 3 | 14. 51. 28 | 222. 51. 59,1 | 5,0 | 74,2 | 10. 15. 21 |
| ε Bootis 3 | 14. 53. 53 | 223. 28. 22,2 | 54,1 | 25,5 | 10. 15. 53 |
| ε Librae 2.3 | 15. 5. 31 | 226. 22. 45,4 | 48,3 | 19,4 | 10. 18. 47 |
| δ Bootis 3.4 | 15. 6. 53 | 226. 43. 9,2 | 36,3 | 23,2 | 10. 19. 7 |
| δ Lupi 3.4 | 15. 7. 24 | 226. 50. 59,3 | 58,3 | 25,2 | 10. 19. 13 |
| ε 3.4 | 15. 8. 14 | 227. 3. 31,2 | 60,2 | 26,7 | 10. 19. 25 |
| ι. γ Ursae min. pr. 4 | 15. 17. 23 | 229. 20. 49,7 | 2,4 | 64,7 | 10. 21. 47 |

pro 1. Jan. 1786. ex catalogo D. de la Caille computatae &c.

| Declinatio | Variatio annua | Aberr. max. | Argum. aberrationis | Longitudo | Latitudo | Angulus positionis |
|---------------|-------------------|----------------|------------------------|---------------|-------------|-----------------------|
| G. M. S. | S | S | S. G. M. | S. G. M. S. | G. M. S. | G. M. S. |
| 4.34. 0 8 B | -19,7 | 8,4 | 2. 19. 11 | 6. 8. 29. 44 | 8. 38. 29 B | 23. 16. 38 |
| 39.28 42,5 B | -19,6 | 15,1 | 1. 4. 10 | 5. 21. 34. 19 | 40. 7. 33 B | 30. 42. 8 |
| 12. 6. 53,1 B | -19,5 | 9,6 | 2. 4. 37 | 6 6 . 57. 40 | 16.13.13 B | 23. 51. 8 |
| 4.23.23 9 A | +19,4 | 7,7 | 9. 10. 59 | 6. 15. 15. 5 | 1.45.38 B | 12. 40. 8 |
| 22. 2. 12,3 A | +19,2 | 9,0 | 10. 23. 2 | 6. 24. 2. 0 | 13.43.26 A | 23. 6. 25 |
| 35 34 35,1 A | +19,2 | 9,6 | 10. 27. 40 | 7. 0. 10. 33 | 25.58.48 A | 25. 2. 45 |
| 10. 2. 15,9 A | +19,0 | 7,6 | 9. 25. 45 | 6. 20. 51. 30 | 2. 2. 5 A | 22. 12. 32 |
| 56. 2. 52 7 B | -19,0 | 18,3 | 1. 0. 44 | 5. 12. 38. 25 | 56.22. 4 B | 42. 53. 59 |
| 0 30.13,5 B | -18,7 | 8,0 | 2. 28. 46 | 6. 19. 9. 44 | 8.39 21 B | 22. 6. 5 |
| 40 26.48,0 A | +18,5 | 11,9 | 11. 24. 22 | 7. 8. 11. 0 | 28.14 31 A | 24. 21. 28 |
| 41.23.57 0 A | +18,2 | 12,1 | 11. 25. 20 | 7. 8. 33. 51 | 28.57.13 A | 24. 31. 52 |
| 33.21.25 5 A | +18,3 | 10,3 | 11. 15. 54 | 7. 5. 3. 9 | 21.54.50 A | 22. 58. 56 |
| 50.25.14,7 B | -18,2 | 17,8 | 1. 8. 8 | 5. 23. 54. 46 | 54 23 45 B | 38. 24. 5 |
| 31.55 27,9 A | +18 2 | 10,0 | 1. 14. 19 | 7. 4. 57. 26 | 20. 2. 46 A | 22. 37. 12 |
| 19.28 58,2 B | -18,0 | 11,8 | 1. 29. 29 | 6. 16. 19. 25 | 28. 6. 57 B | 23. 55 11 |
| 35.18. 9,1 A | +17,6 | 10,6 | 11. 21. 5 | 7. 9. 21. 16 | 22. 0. 30 A | 22. 10. 18 |
| 65.24.11,6 B | -17,4 | 19,6 | 1. 6. 10 | 5. 4. 24. 13 | 66.21.14 B | 59. 39. 16 |
| 9.16. 6,0 A | +17,3 | 6,9 | 9. 23. 30 | 7. 1. 30. 33 | 2. 55. 37 B | 20. 7. 29 |
| 20.19.22,4 B | -17,1 | 12,3 | 2. 1. 15 | 6. 21. 14. 58 | 30.54.51 B | 23. 19. 11 |
| 12.22.38,0 A | +17,0 | 6,8 | 10 2. 28 | 7. 3. 58. 2 | 0.30.40 B | 19.46. 2 |
| 41.12.19 0 A | +16,3 | 10,8 | 0. 5. 22 | 7. 17. 16. 19 | 25.28.57 A | 21. 3. 7 |
| 39.15. 4,8 B | -16,2 | 16,3 | 1. 21. 37 | 6. 14. 39. 24 | 49.33.30 B | 29. 50. 31 |
| 14.39.25,3 B | -15,9 | 11,8 | 2. 9. 11 | 7. 0. 1. 51 | 27.53.57 B | 20. 52. 53 |
| 27.59. 8,3 B | -15,6 | 14,3 | 1. 29. 33 | 6. 25. 6. 2 | 40.34.38 B | 24. 6. 27 |
| 15. 8. 25,4 A | +15,4 | 6,1 | 10. 10. 54 | 7. 12. 6. 4 | 0.21.55 B | 17. 49. 39 |
| 42.15.19,6 A | +15,1 | 10,4 | 0. 12. 17 | 7. 22. 2. 54 | 25. 0. 43 A | 19. 19. 30 |
| 41.13 50,2 A | +15,1 | 6,1 | 0. 11. 17 | 7. 21. 49. 0 | 25.59.59 A | 19. 6. 39 |
| 24.25.48,5 A | +14,7 | 6,4 | 0. 10. 54 | 7. 17. 42. 27 | 7. 36. 45 A | 17. 7. 3 |
| 75. 2. 2,5 B | -14,7 | 20,0 | 1. 14. 54 | 4. 10. 14. 30 | 72. 58. 0 B | 95. 1. 11 |
| 41.14.33,4 B | -14,5 | 17,2 | 1. 26. 11 | 6. 21. 13. 38 | 54.10 11 B | 29. 35. 19 |
| - 8.34 49,1 A | +13,8 | 6,3 | 9. 19. 11 | 7. 16. 23. 20 | 8.31 36 B | 16. 7. 54 |
| 34. 7. 26,6 B | -13,8 | 16,1 | 2. 1. 19 | 7. 0. 7. 38 | 48.59.29 B | 24. 55 31 |
| 33.54.25,9 A | +13,7 | 9,1 | 0. 15. 25 | 7. 21. 40. 39 | 21.23.38 A | 17. 0. 40 |
| 43.54.10,6 A | +13,7 | 10,1 | 0. 20. 5 | 7. 27. 8. 38 | 25.12.43 A | 17. 27. 24 |
| 72.36. 6,7 B | -13,1 | 20,0 | 1. 21. 33 | 4. 18. 33. 24 | 74.56.17 B | 93. 14. 49 |

Positiones mediae 300. principalium Stellarum fixarum

| NOMEN SIDERIS | Ascensio recta | | Va- riatio annua S | Aber- max S | Argu- mentis S. G. M. |
|------------------------|----------------|---------------|-----------------------------|-------------------|-----------------------------|
| | H. M. S. | S. G. M. | | | |
| ♁ Draconis . . . 3.4 | 15. 20. 11 | 230. 2. 50,7 | 19,8 | 38... | 10. 22. 26 |
| ♃ Lupi . . . 3 | 15. 20. 57 | 230. 14. 12,9 | 59,3 | 25,4 | 10. 22. 54 |
| ♂ Urfae min. feq. 3 | 15. 21. 12 | 230. 17. 56,5 | -3,1 | 64,7 | 10. 22. 43 |
| ♄ Librae . . . 4 | 15. 23. 35 | 230. 53. 45,0 | 50,0 | 20,0 | 10. 23. 14 |
| ♅ Serpentis . . . 3 | 15. 24. 36 | 231. 8. 58,0 | 43,0 | 19,7 | 10. 23. 29 |
| α Coronae . . . 2.3 | 15. 25. 38 | 231. 24. 26,3 | 38,0 | 21,8 | 10. 23. 44 |
| × Librae . . . 4 | 15. 29. 40 | 232. 21. 55,6 | 51,6 | 20,5 | 10. 24. 41 |
| α Serpentis . . . 2.3 | 15. 33. 44 | 233. 26. 5,3 | 44,1 | 19,6 | 10. 25. 43 |
| β . . . 3 | 15. 36. 19 | 234. 4. 44,0 | 41,5 | 20,3 | 10. 26. 20 |
| μ . . . 4 | 15. 38. 29 | 234. 37. 8,3 | 46,9 | 19,5 | 10. 26. 51 |
| ε . . . 3.4 | 15. 40. 9 | 235. 2. 19,0 | 44,7 | 19,6 | 10. 27. 16 |
| λ Librae . . . 4 | 15. 40. 57 | 235. 14. 10,1 | 51,9 | 20,6 | 10. 27. 27 |
| θ . . . 4 | 15. 41. 40 | 235. 25. 4,1 | 51,0 | 20,3 | 10. 27. 33 |
| ρ Scorpionis . . . 4 | 15. 43. 43 | 235. 55. 47,7 | 55,2 | 22,2 | 10. 28. 7 |
| π . . . 3.4 | 15. 45. 57 | 236. 29. 12,2 | 54,1 | 21,6 | 10. 28. 39 |
| ψ Librae . . . 4 | 15. 46. 15 | 236. 33. 57,8 | 50,2 | 20,1 | 10. 28. 43 |
| γ Serpentis . . . 3 | 15. 46. 35 | 236. 38. 37,8 | 41,2 | 20,3 | 10. 28. 49 |
| δ Scorpionis . . . 2 | 15. 47. 43 | 236. 55. 43,1 | 52,9 | 21,1 | 10. 29. 5 |
| ε . . . 2 | 15. 53. 2 | 238. 15. 25,6 | 52,1 | 20,7 | 11. 0. 21 |
| θ Draconis . . . 3.4 | 15. 57. 55 | 239. 28. 52,2 | 17,3 | 38,2 | 11. 1. 34 |
| ν Scorpionis . . . 4 | 15. 59. 35 | 239. 53. 48,5 | 52,1 | 20,7 | 11. 1. 55 |
| δ Ophiuci . . . 3 | 16. 3. 9 | 240. 47. 16,1 | 47,1 | 19,6 | 11. 2. 47 |
| ε . . . 3 | 16. 7. 1 | 241. 45. 17,8 | 47,4 | 19,7 | 11. 3. 44 |
| σ Scorpionis . . . 3.4 | 16. 8. 13 | 242. 3. 17,5 | 54,4 | 21,7 | 11. 3. 57 |
| γ Herculis . . . 3 | 16. 12. 29 | 243. 7. 18,5 | 39,8 | 20,9 | 11. 5. 1 |
| α Scorp. Antares . 1 | 16. 16. 19 | 244. 4. 51,0 | 54,9 | 21,9 | 11. 5. 54 |
| φ Ophiuci . . . 4 | 16. 18. 55 | 244. 43. 40,3 | 51,4 | 20,5 | 11. 6. 31 |
| ε Herculis . . . 3 | 16. 21. 5 | 245. 15. 42,8 | 38,8 | 21,3 | 11. 7. 5 |
| η Draconis . . . 3.4 | 16. 21. 7 | 245. 16. 49,5 | 11,9 | 42,0 | 11. 7. 5 |
| τ Scorpionis . . . 3.4 | 16. 22. 36 | 245. 38. 57,8 | 55,8 | 22,3 | 11. 7. 23 |
| ξ Ophiuci . . . 3 | 16. 25. 24 | 246. 20. 57,7 | 49,4 | 20,1 | 11. 8. 3 |
| ξ Herculis . . . 3 | 16. 33. 15 | 248. 18. 46,4 | 34,5 | 23,3 | 11. 9. 55 |
| η . . . 3.4 | 16. 35. 34 | 248. 53. 26,8 | 30,8 | 25,6 | 11. 10. 23 |
| ε Scorpionis . . . 3 | 16. 36. 22 | 249. 5. 32,2 | 58,7 | 23,8 | 11. 10. 26 |
| μ . . . 3 | 16. 37. 25 | 249. 21. 17,5 | 60,6 | 25,0 | 11. 10. 51 |

pro 1. Jan. 1786. ex Catalogo D. de la Caille computatae &c.

| <i>Declinatio</i> | <i>Variatio</i> | <i>Aberr.</i> | <i>Argum.</i> | <i>Longitudo</i> | <i>Latitudo</i> | <i>Angulus</i> |
|-------------------|-----------------|---------------|---------------------|--------------------|-----------------|-------------------|
| <i>G. M. S.</i> | <i>annua</i> | <i>max.</i> | <i>aberrationis</i> | | | <i>positionis</i> |
| | <i>S.</i> | <i>S.</i> | <i>S. G. M.</i> | <i>S. G. M. S.</i> | <i>G. M. S.</i> | <i>G. M. S.</i> |
| 59.43.16,0 B | - 12,9 | 19,6 | 1. 25. 31 | 6. 1. 52. 10 | 71. 5. 52 B | 52. 8. 28 |
| 40.25.48,0 A | + 12,8 | 8,9 | 0. 20. 16 | 7. 28. 31. 0 | 21. 12. 40 A | 15. 51. 37 |
| 72.35.46,1 B | - 12,8 | 20,0 | 1. 22. 26 | 4. 18. 30. 32 | 75. 13. 21 B | 94. 12. 9 |
| 14. 3 44,9 A | + 12,6 | 5,3 | 10. 5. 38 | 7. 22. 8. 48 | 4. 24. 47 B | 14. 35. 37 |
| 11.15.55,5 B | - 12,6 | 10,9 | 2. 16. 57 | 7. 15. 21. 1 | 28. 54. 30 B | 16. 35. 0 |
| 27.26.49,1 B | - 12,5 | 14,8 | 2. 7. 9 | 7. 9. 16. 19 | 44. 21. 4 B | 20. 19. 56 |
| 18.58.10,4 A | + 12,2 | 4,9 | 10. 24. 38 | 7. 24. 45. 31 | 0. 0. 50 B | 14. 3. 36 |
| 7. 6. 41,5 B | - 12,0 | 9,8 | 2. 21. 21 | 7. 19. 4. 21 | 25. 31. 54 B | 15. 14. 54 |
| 16. 6. 13,8 B | - 11,8 | 12,2 | 2. 14. 31 | 7. 16. 56. 29 | 34. 21. 20 B | 16. 26. 28 |
| 2.45.39,9 A | + 11,6 | 7,3 | 9. 4. 23 | 7. 22. 57. 12 | 16. 16. 15 B | 13. 54. 3 |
| 5. 8. 4,3 B | - 11,5 | 9,3 | 2. 23. 40 | 7. 21. 19. 37 | 24. 1. 45 B | 14. 28. 16 |
| 19.21.36,5 A | + 11,5 | 4,6 | 10. 26. 55 | 7. 27. 27. 20 | 0. 15. 54 B | 13. 7. 37 |
| 16. 5. 16,5 A | + 11,4 | 4,7 | 10. 12. 12 | 7. 26. 52. 53 | 3. 29. 28 B | 13. 4. 26 |
| 28.34.20,8 A | + 11,3 | 5,4 | 0. 2. 48 | 8. 0. 9. 48 | 8. 33. 56 A | 13. 2. 28 |
| 25.28.55,9 A | + 11,1 | 4,8 | 11. 22. 36 | 7. 29. 57. 19 | 5. 26. 33 A | 12. 45. 45 |
| 13.38.51,2 A | + 11,1 | 4,9 | 10. 2. 15 | 7. 27. 24. 47 | 6. 7. 1 B | 12. 45. 10 |
| 16.23. 4,3 B | - 11,0 | 12,4 | 2. 15. 26 | 7. 19. 43. 50 | 35. 18. 15 B | 15. 33. 59 |
| 21.59.51,7 A | + 11,0 | 4,4 | 11. 8. 11 | 7. 29. 35. 9 | 1. 57. 15 A | 12. 33. 39 |
| 19.12.16,3 A | + 10,6 | 4,2 | 10. 25. 20 | 8. 0. 12. 15 | 1. 2. 24 B | 12. 5. 48 |
| 59. 8. 16,1 B | - 10,2 | 19,7 | 2. 3. 41 | 6. 13. 41. 14 | 74. 26. 53 B | 48. 58. 24 |
| 18.53.23,9 A | + 10,1 | 4,0 | 10. 23. 20 | 8. 1. 39. 28 | 1. 39. 54 B | 11. 31. 42 |
| 2. 7. 40,0 A | + 9,8 | 7,1 | 9. 4. 17 | 7. 29. 18. 43 | 17. 16. 56 B | 11. 44. 45 |
| 4. 9. 21,5 A | + 9,5 | 6,8 | 9. 5. 48 | 8. 0. 30. 56 | 16. 28. 5 B | 11. 20. 8 |
| 25. 3. 41,0 A | + 9,4 | 4,0 | 11. 25. 34 | 8. 4. 48. 54 | 4. 0. 10 A | 10. 47. 18 |
| 19.40. 3,1 B | - 9,1 | 13,4 | 2. 16. 49 | 7. 26. 13. 7 | 40. 2. 7 B | 13. 26. 11 |
| 25.56.25,9 A | + 8,8 | 3,8 | 0. 0. 40 | 8. 6. 46. 41 | 4. 32. 12 A | 10. 3. 29 |
| 16. 7. 47,9 A | + 8,7 | 3,9 | 10. 7. 54 | 8. 5. 40. 48 | 5. 11. 48 B | 9. 50. 54 |
| 21.58. 5,4 B | - 8,4 | 14,0 | 2. 17. 12 | 7. 28. 6. 15 | 42. 44. 9 B | 12. 7. 0 |
| 62. 0. 3,8 B | - 8,4 | 19,8 | 2. 8. 10 | 6. 11. 22. 9 | 78. 26. 56 B | 56. 17. 2 |
| 27.45.12,7 A | + 8,3 | 3,9 | 0. 10. 39 | 8. 8. 28. 20 | 6. 5. 7 A | 9. 50. 24 |
| 10. 7. 7,3 A | + 8,1 | 5,8 | 9. 16. 4 | 8. 6. 14. 27 | 11. 25. 17 B | 9. 22. 55 |
| 31.59.51,1 B | - 7,4 | 16,4 | 2. 16. 3 | 7. 28. 31. 6 | 53. 7. 19 B | 14. 11. 51 |
| 39.20.27,0 A | - 7,2 | 17,6 | 2. 14. 57 | 7. 25. 45. 50 | 60. 19. 30 B | 16. 50. 33 |
| 33.53. 1,1 A | + 7,2 | 4,7 | 1. 6. 16 | 8. 12. 23. 26 | 11. 40. 56 A | 8. 20. 58 |
| 37.39.36,8 A | + 7,1 | 6,0 | 1. 14. 0 | 8. 13. 10. 20 | 15. 23. 17 A | 8. 22. 31 |

Positiones mediae 300. principalium stellarum fixarum

| NOMEN SYDERIS | Ascensio recta | | | | | | Va- Aber- viatio. max. | | Argum. aberra- tionis | |
|-------------------------|----------------|-----|----|------|-----|------|---------------------------|------|-----------------------------|--|
| | H. | M. | S. | G. | M. | S. | annua S. | S. | S. G. M. | |
| ♌ Scorpionis . . . 3 | 16. | 39. | 35 | 249. | 53. | 38,5 | 63,1 | 26,6 | 11. 11. 21 | |
| ♍ Herculis . . . 3 | 16. | 52. | 6 | 253. | 1. | 32,4 | 34,5 | 23,2 | 11. 14. 20 | |
| ♎ Scorpionis . . . 3.4 | 16. | 56. | 52 | 254. | 12. | 58,7 | 63,1 | 27,2 | 11. 15. 23 | |
| ♏ Ophiuci . . . 2.3 | 16. | 58. | 7 | 254. | 31. | 48,4 | 51,5 | 20,6 | 11. 15. 42 | |
| ♐ Herculis . . . 2.3 | 17. | 4. | 54 | 256. | 13. | 25,8 | 41,1 | 20,6 | 11. 17. 16 | |
| ♑ 3 | 17. | 7. | 15 | 256. | 48. | 48,1 | 37,0 | 22,0 | 11. 17. 50 | |
| ♒ Ophiuci . . . 3 | 17. | 8. | 53 | 257. | 13. | 19,8 | 55,2 | 21,9 | 11. 18. 10 | |
| ♓ Scorpionis . . . 3.4 | 17. | 16. | 15 | 259. | 3. | 38,7 | 61,0 | 25,0 | 11. 19. 32 | |
| ♈ 2.3 | 17. | 19. | 6 | 259. | 46. | 34,3 | 61,0 | 25,0 | 11. 20. 32 | |
| ♉ 2.3 | 17. | 21. | 58 | 260. | 29. | 32,4 | 62,5 | 27,2 | 11. 21. 11 | |
| ♊ Ophiuci . . . 2.3 | 17. | 25. | 0 | 261. | 15. | 3,0 | 41,7 | 20,4 | 11. 21. 56 | |
| ♋ Draconis . . . 3 | 17. | 25. | 37 | 261. | 24. | 14,9 | 20,3 | 32,8 | 11. 22. 4 | |
| ♌ Scorpionis . . . 2.3 | 17. | 27. | 58 | 261. | 59. | 35,8 | 62,2 | 25,7 | 11. 23. 31 | |
| ♍ 2 | 17. | 32. | 39 | 263. | 9. | 40,3 | 62,9 | 26,1 | 11. 23. 39 | |
| ♎ Ophiuci . . . 3 | 17. | 32. | 56 | 263. | 13. | 38,1 | 44,5 | 20,0 | 11. 23. 44 | |
| ♏ 3 | 17. | 37. | 11 | 264. | 17. | 44,4 | 45,2 | 20,0 | 11. 24. 42 | |
| ♐ Herculis . . . 3.4 | 17. | 38. | 6 | 264. | 31. | 29,0 | 35,6 | 22,6 | 11. 24. 56 | |
| ♑ 3 | 17. | 48. | 55 | 267. | 13. | 45,9 | 30,9 | 25,1 | 11. 27. 25 | |
| ♒ Serpentis . . . 4 | 17. | 49. | 11 | 267. | 17. | 49,9 | 47,4 | 20,0 | 11. 27. 23 | |
| ♓ Sagittar. praec. 4 | 17. | 51. | 22 | 267. | 50. | 26,5 | 57,5 | 23,1 | 11. 27. 56 | |
| ♈ sequens 3.4 | 17. | 52. | 4 | 268. | 1. | 7,2 | 57,9 | 23,2 | 11. 28. 7 | |
| ♉ Draconis . . . 3 | 17. | 51. | 47 | 267. | 54. | 34,8 | 20,9 | 32,1 | 11. 28. 3 | |
| ♊ Sagittarii . . . 4 | 18. | 0. | 59 | 270. | 14. | 38,8 | 53,9 | 21,4 | 0. 0. 9 | |
| ♋ 4 | 18. | 3. | 10 | 270. | 47. | 28,3 | 61,2 | 25,0 | 0. 0. 39 | |
| ♌ 3 | 18. | 7. | 17 | 271. | 49. | 12,6 | 57,7 | 23,1 | 0. 1. 37 | |
| ♍ 3 | 18. | 9. | 59 | 272. | 29. | 43,6 | 59,9 | 24,3 | 0. 2. 13 | |
| ♎ Serpentis . . . 3.4 | 18. | 10. | 16 | 272. | 34. | 7,4 | 47,2 | 20,0 | 0. 2. 18 | |
| ♏ Sagittarii . . . 3 | 18. | 14. | 47 | 273. | 41. | 37,6 | 55,7 | 22,2 | 0. 3. 19 | |
| ♐ Lirae Lucida . . . 1 | 18. | 29. | 41 | 277. | 25. | 15,3 | 30,3 | 25,6 | 0. 6. 47 | |
| ♑ Sagittarii . . . 3.4 | 18. | 32. | 17 | 278. | 4. | 22,8 | 56,4 | 22,5 | 0. 7. 20 | |
| ♒ Sagittarii . . . 2.3 | 18. | 42. | 0 | 280. | 29. | 56,2 | 56,0 | 23,3 | 0. 9. 35 | |
| ♓ Lirae 2.3 | 18. | 42. | 11 | 280. | 32. | 43,9 | 33,3 | 23,8 | 0. 9. 40 | |
| ♈ Serpentis . . . 4 | 18. | 45. | 35 | 281. | 23. | 46,4 | 44,8 | 20,0 | 0. 10. 25 | |
| ♉ Lirae 3 | 18. | 47. | 2 | 281. | 45. | 30,3 | 31,6 | 24,8 | 0. 10. 46 | |
| ♊ Sagittarii . . . 2 | 18. | 48. | 59 | 282. | 14. | 48,5 | 57,6 | 23,1 | 0. 11. 11 | |

pro 1. Jan. 1786. ex Catalogo D. de la Caille computatae &c.

| Declinatio G. M. S. | Variatio annua S. | Aberr. max. S. | Argum. aberra- tionis S. G. M. | Longitudo | | | Latitudo | | | Angulus positionis G. M. S. | | |
|------------------------|-------------------------|----------------------|---|---------------|-------------|------------|----------|-------|----|-----------------------------------|----|-------|
| | | | | S. | G. | M. S. | G. | M. S. | G. | M. S. | G. | M. S. |
| 41. 58. 15,4A | + 6,9 | 7, 2 | 1. 20. 26 | 8. 14. 15. 33 | 19. 35. 32A | 8. 21. 23 | | | | | | |
| 31. 15. 18,0B | - 5,9 | 16, 2 | 2. 19. 22 | 8. 5. 9. 44 | 53. 16. 45B | 11. 12. 51 | | | | | | |
| 42. 56. 0,2A | + 5,5 | 7, 2 | 2. 28. 56 | 8. 17. 45. 15 | 10. 7. 50A | 6. 37. 33 | | | | | | |
| 15. 26. 40,4A | + 5,4 | 3, 3 | 9. 25. 42 | 8. 14. 58. 50 | 7. 13. 23B | 6. 8. 51 | | | | | | |
| 14. 38. 51,3B | - 4,8 | 12, 3 | 2. 24. 21 | 8. 13. 9. 38 | 57. 19. 0B | 6. 50. 59 | | | | | | |
| 25. 6. 20,6B | - 4,6 | 14, 9 | 2. 22. 31 | 8. 12. 6. 10 | 47. 45. 39B | 7. 46. 8 | | | | | | |
| 24. 46. 1,2A | + 4,5 | 1, 9 | 0. 7. 47 | 8. 18. 24. 32 | 1. 48. 29d | 5. 3. 24 | | | | | | |
| 37. 6. 17,0A | + 3,8 | 4, 9 | 2. 2. 53 | 8. 21. 1. 39 | 13. 58. 25A | 4. 28. 3 | | | | | | |
| 36. 55. 46,9A | + 3,6 | 5, 0 | 2. 4. 22 | 8. 21. 36. 1 | 13. 45. 14A | 4. 10. 17 | | | | | | |
| 42. 50. 27,2A | + 3,3 | 6, 8 | 2. 10. 38 | 8. 22. 26. 46 | 19. 36. 14A | 4. 0. 19 | | | | | | |
| 18. 43. 56,2B | - 3,1 | 11, 8 | 2. 26. 45 | 8. 19. 26. 54 | 35. 53. 1B | 4. 17. 54 | | | | | | |
| 58. 28. 0,3B | - 3,0 | 19, 4 | 2. 22. 56 | 8. 8. 57. 14 | 75. 18. 43B | 13. 34. 44 | | | | | | |
| 38. 54. 0,4A | + 2,8 | 5, 5 | 2. 11. 5 | 8. 23. 28. 1 | 15. 36. 38A | 3. 19. 47 | | | | | | |
| 40. 1. 19,6A | + 2,4 | 5, 8 | 2. 14. 34 | 8. 24. 32. 15 | 16. 40. 47A | 2. 50. 17 | | | | | | |
| 4. 40. 13,6B | - 2,4 | 9, 4 | 2. 28. 50 | 8. 22. 21. 9 | 27. 57. 55B | 3. 2. 54 | | | | | | |
| 2. 48. 15,0B | - 2,0 | 11, 2 | 2. 29. 21 | 8. 23. 39. 0 | 26. 9. 2B | 2. 31. 40 | | | | | | |
| 27. 51. 55,8B | - 1,9 | 15, 0 | 2. 26. 41 | 8. 22. 15. 56 | 51. 11. 28B | 3. 28. 36 | | | | | | |
| 37. 17. 19,9B | - 1,0 | 17, 5 | 3. 19. 2 | 8. 25. 29. 27 | 60. 43. 3B | 2. 15. 25 | | | | | | |
| 3. 39. 31,7A | + 1,0 | 6, 8 | 9. 0. 31 | 8. 27. 8. 0 | 19. 47. 11B | 1. 8. 32 | | | | | | |
| 29. 33. 20,5A | + 0,8 | 2, 1 | 2. 19. 39 | 8. 28. 6. 41 | 6. 6. 45A | 0. 52. 53 | | | | | | |
| 30. 24. 20,2A | + 0,7 | 2, 4 | 2. 21. 22 | 8. 28. 16. 44 | 6. 56. 43A | 0. 47. 42 | | | | | | |
| 51. 31. 15,4B | - 0,7 | 19, 3 | 2. 28. 17 | 8. 24. 59. 2 | 74. 57. 23B | 3. 12. 32 | | | | | | |
| 21. 5. 54,9A | - 0,1 | 0, 8 | 8. 28. 31 | 9. 0. 13. 41 | 2. 22. 24B | 0. 5. 48 | | | | | | |
| 36. 48. 16,9A | - 0,2 | 4, 7 | 3. 1. 49 | 9. 0. 39. 3 | 13. 20. 0A | 0. 19. 26 | | | | | | |
| 29. 53. 57,1A | - 0,6 | 2, 2 | 3. 7. 42 | 9. 1. 35. 17 | 6. 26. 23A | 0. 43. 45 | | | | | | |
| 34. 27. 49,5A | - 0,8 | 3, 8 | 3. 7. 10 | 9. 2. 5. 45 | 11. 0. 26A | 1. 0. 44 | | | | | | |
| 2. 56. 0,0A | - 0,9 | 7, 0 | 8. 29. 38 | 9. 2. 44. 21 | 20. 30. 51B | 1. 5. 31 | | | | | | |
| 25. 31. 12,6A | - 1,3 | 0, 9 | 4. 7. 48 | 9. 3. 20. 7 | 2. 5. 27A | 1. 28. 17 | | | | | | |
| 38. 35. 27,0B | + 2,6 | 17, 7 | 3. 5. 13 | 9. 12. 18. 49 | 61. 44. 50B | 6. 14. 20 | | | | | | |
| 27. 11. 25,8A | - 2,8 | 1, 8 | 4. 16. 16 | 9. 7. 11. 34 | 3. 55. 19A | 3. 12. 53 | | | | | | |
| 26. 32. 41,3A | - 3,6 | 1, 9 | 4. 29. 49 | 9. 9. 23. 55 | 3. 24. 54A | 4. 10. 8 | | | | | | |
| 33. 7. 35,8B | + 3,4 | 16, 6 | 3. 6. 53 | 9. 15. 54. 55 | 56. 1. 1B | 7. 28. 59 | | | | | | |
| 3. 56. 25,2B | + 3,9 | 9, 2 | 3. 1. 40 | 9. 18. 46. 17 | 26. 54. 29B | 5. 3. 46 | | | | | | |
| 36. 38. 16,4B | + 4,1 | 17, 3 | 3. 8. 3 | 9. 18. 42. 23 | 59. 20. 51B | 9. 9. 38 | | | | | | |
| 30. 10. 4,7A | - 4,2 | 3, 0 | 24. 14. 52 | 9. 10. 39. 4 | 4. 8. 53A | 4. 53. 10 | | | | | | |

Positiones mediae 300. principalium stellarum fixarum

| NOMEN SYDERIS | Ascensio recta | | | | | | Va- riatio anua S. | Aber- max. S. | Argum. aberra- tionis S. G. M. |
|----------------------|----------------|-----|----|------|-----|------|-----------------------------|---------------------|---|
| | H. | M. | S. | G. | M. | S. | | | |
| ε Aquilae . . . 3.4 | 18. | 49. | 51 | 282. | 27. | 51,3 | 41,0 | 20,6 | 0. 11. 25 |
| γ Lirae 3 | 18. | 50. | 56 | 282. | 44. | 6,5 | 32,7 | 23,6 | 0. 11. 40 |
| σ Sagittarii . . . 4 | 18. | 51. | 51 | 282. | 57. | 49,2 | 54,1 | 21,4 | 0. 11. 51 |
| τ 4 | 18. | 53. | 34 | 283. | 23. | 34,5 | 56,5 | 22,6 | 0. 12. 15 |
| λ Antinoi . . . 3.4 | 18. | 54. | 54 | 283. | 43. | 25,9 | 47,9 | 20,0 | 0. 12. 39 |
| ζ Aquilae . . . 3.4 | 18. | 55. | 35 | 283. | 53. | 41,6 | 41,5 | 21,0 | 0. 12. 44 |
| π Sagittarii . . . 3 | 18. | 57. | 2 | 284. | 15. | 32,2 | 53,8 | 21,4 | 0. 13. 3 |
| α 4 | 19. | 9. | 2 | 287. | 15. | 26,7 | 62,8 | 26,3 | 0. 15. 49 |
| δ Draconis . . . 3 | 19. | 12. | 27 | 288. | 6. | 46,1 | 0,7 | 51,2 | 0. 16. 43 |
| δ Aquilae . . . 3 | 19. | 14. | 42 | 288. | 40. | 35,3 | 45,3 | 19,9 | 0. 17. 10 |
| ε Cygni 3 | 19. | 22. | 6 | 290. | 31. | 22,9 | 36,4 | 22,3 | 0. 18. 55 |
| ι Antinoi . . . 3.4 | 19. | 25. | 39 | 291. | 24. | 47,9 | 46,7 | 20,0 | 0. 19. 40 |
| α Sagittae . . . 4 | 19. | 30. | 33 | 292. | 38. | 9,9 | 40,3 | 20,7 | 0. 21. 2 |
| γ Aquilae . . . 3 | 19. | 36. | 5 | 294. | 1. | 12,6 | 42,9 | 20,0 | 0. 22. 7 |
| δ Cygni 3 | 19. | 48. | 17 | 294. | 34. | 21,2 | 28,2 | 27,7 | 0. 22. 43 |
| α Aquilae . . . 1.2 | 19. | 40. | 20 | 295. | 4. | 53,8 | 43,5 | 19,9 | 0. 23. 11 |
| η Antinoi . . . 3 | 19. | 41. | 34 | 295. | 23. | 36,1 | 46,0 | 19,7 | 0. 23. 23 |
| ε Aquilae . . . 3 | 19. | 44. | 48 | 296. | 12. | 6,0 | 44,3 | 19,8 | 0. 24. 14 |
| θ Antinoi . . . 3.4 | 20. | 0. | 16 | 300. | 3. | 56,0 | 46,6 | 19,6 | 0. 27. 55 |
| α Capricorni sequ. 3 | 20. | 6. | 10 | 301. | 32. | 31,9 | 50,2 | 20,1 | 0. 29. 19 |
| ε 3 | 20. | 8. | 58 | 302. | 14. | 35,3 | 50,9 | 20,3 | 0. 29. 59 |
| γ Cygni 3 | 20. | 14. | 33 | 303. | 38. | 12,9 | 52,4 | 25,3 | 1. 1. 22 |
| ε Delphini . . . 3.4 | 20. | 23. | 59 | 305. | 44. | 46,8 | 43,1 | 19,8 | 1. 3. 23 |
| γ 4 | 20. | 25. | 18 | 306. | 19. | 33,2 | 42,2 | 20,0 | 1. 3. 56 |
| ε 3 | 20. | 27. | 31 | 306. | 52. | 51,1 | 42,2 | 20,0 | 1. 4. 29 |
| α Delphini . . . 3 | 20. | 29. | 42 | 307. | 25. | 27,4 | 41,9 | 20,9 | 1. 5. 0 |
| δ 3.4 | 20. | 33. | 28 | 308. | 21. | 59,8 | 42,1 | 20,0 | 1. 5. 56 |
| α Cygni 2 | 20. | 34. | 8 | 308. | 32. | 2,7 | 50,7 | 27,2 | 1. 6. 6 |
| γ Delphini . . . 3.4 | 20. | 36. | 45 | 309. | 11. | 8,7 | 41,9 | 20,1 | 1. 6. 44 |
| ε Cygni 3 | 20. | 37. | 32 | 309. | 22. | 54,5 | 36,0 | 23,1 | 1. 6. 56 |
| ζ 3.4 | 21. | 3. | 50 | 315. | 57. | 23,4 | 38,5 | 22,0 | 1. 13. 26 |
| α Equlei 4 | 21. | 5. | 6 | 316. | 16. | 26,8 | 45,1 | 19,2 | 1. 13. 46 |
| ε Pegasi 4 | 21. | 12. | 10 | 318. | 2. | 23,7 | 41,6 | 19,3 | 1. 15. 31 |
| α Cephei 3 | 21. | 13. | 26 | 318. | 21. | 31,5 | 21,2 | 40,2 | 1. 15. 52 |
| ε Aquarii 3 | 21. | 20. | 18 | 320. | 4. | 25,9 | 47,6 | 19,2 | 1. 17. 34 |

pro 1 Jan. 1787. ex Catalogo D. de la Caille computatae &c.

| Declinatio G. M. S. | Variatio annua S | Aberr. max. S. | Argum. aberra- tionis S. G. M. | Longitudo | | Latitudo | | Angulus positiois | |
|------------------------|------------------------|----------------------|---|----------------|--------------|------------|----------|----------------------|----------|
| | | | | S. G. M. | S. G. M. | G. M. S. | G. M. S. | G. M. S. | G. M. S. |
| 14.47.30,7 B | + 4,3 | 12,3 | 3. 5. 7 | 9. 15. 17. 33 | 37. 36. 11 B | 6. 13. 45 | | | |
| 32.24.28,9 B | + 4,4 | 16,5 | 3. 8. 12 | 9. 18. 57. 20 | 55. 2. 38 B | 8. 48. 52 | | | |
| 22. 2 19,8 | - 4,5 | 1,8 | 6. 21. 55 | 9. 12. 0. 12 | 0 53. 38 B | 5. 7. 35 | | | |
| 27 57 48,8 A | - 4,6 | 2,6 | 4. 28. 17 | 9. 11. 51. 7 | 5. 2. 29 A | 5. 18. 49 | | | |
| 5.11.16,4 A | - 4,7 | 6,3 | 5. 26. 55 | 9. 14. 21. 8 | 17. 36. 7 B | 5. 26. 0 | | | |
| 15.33.35,9 B | + 4,8 | 11,9 | 3. 5. 22 | 9. 16. 49. 14 | 56. 13. 23 B | 6. 48. 33 | | | |
| 21 20 52,1 A | - 4,9 | 2,0 | 6. 27. 50 | 9. 12. 16. 0 | 1. 28. 7 B | 5. 38. 14 | | | |
| 41 59 52,3 A | - 5,9 | 6,7 | 4. 5. 13 | 9. 12. 38. 39 | 18. 20. 26 A | 7. 9. 4 | | | |
| 67 17 5,9 L | + 6,2 | 20 0 | 3. 16. 41 | 0. 14. 22. 23 | 82. 52. 52 B | 97. 40. 27 | | | |
| 7.42 7,4 L | + 6,4 | 8,8 | 3. 1. 58 | 9. 20. 38. 23 | 24. 50. 39 B | 8. 4. 47 | | | |
| 27 31 17,1 B | + 7,0 | 15,4 | 3. 12. 10 | 9. 28. 17. 8 | 48. 59. 43 B | 12. 17. 14 | | | |
| 1.44.48,7 A | - 7,3 | 6,8 | 8. 28. 15 | 9. 22. 51. 27 | 20. 2. 24 B | 8. 54. 15 | | | |
| 17.32. 4,6 B | + 7,7 | 12,9 | 3. 10. 42 | 9. 28. 6. 8 | 38. 49. 16 B | 11. 5. 22 | | | |
| 10. 6. 14,2 L | + 8,1 | 10,9 | 3. 7. 30 | 9. 27. 57. 38 | 31. 16. 16 B | 10. 56. 5 | | | |
| 44.36.59,4 B | + 8,3 | 18,3 | 3. 18. 32 | 10. 13. 18. 37 | 64. 26. 7 B | 22. 34. 15 | | | |
| 8.18.48,0 B | + 8,5 | 10,6 | 3. 6. 47 | 9. 28. 45. 14 | 9. 18. 46 B | 11. 9. 54 | | | |
| 0.28.14,5 B | + 8,6 | 8,1 | 3. 0. 29 | 9. 27. 27. 19 | 21. 33. 11 B | 10. 33. 45 | | | |
| 5.53.15,6 B | + 8,8 | 9,6 | 3. 5. 21 | 9. 29. 27. 4 | 26. 43. 10 B | 11. 21. 11 | | | |
| 1.26.35,5 A | - 10,0 | 7,6 | 8. 28. 5 | 10. 1. 55. 56 | 18. 45. 13 B | 12. 9. 45 | | | |
| 13.11.28,8 A | - 10,4 | 4,8 | 8. 0. 15 | 10. 0. 52. 11 | 6. 57. 18 B | 12. 7. 0 | | | |
| 15.26.38,4 A | - 10,7 | 4,5 | 7. 21. 16 | 10. 1. 3. 33 | 4. 36. 54 B | 12. 18. 34 | | | |
| 39.34.53, B | + 11,1 | 17,4 | 3. 25. 58 | 10. 21. 53. 50 | 57. 8. 36 B | 33. 59. 2 | | | |
| 10.35.19,6 B | + 11,7 | 10,8 | 3. 11. 28 | 10. 11. 5. 12 | 29. 5. 55 B | 15. 26. 38 | | | |
| 13.56.56,9 B | + 11,8 | 11,6 | 3. 14. 9 | 10. 12. 47. 3 | 32. 10. 40 B | 16. 11. 9 | | | |
| 13.51.43,5 B | + 12,0 | 11,6 | 3. 14. 19 | 10. 13. 21. 57 | 31. 56. 35 B | 16. 21. 33 | | | |
| 15.10. 7,4 B | + 12,2 | 11,8 | 3. 15. 25 | 10. 14. 24. 19 | 33. 2. 43 B | 16. 47. 1 | | | |
| 14.19. 2,6 B | + 12,4 | 11,7 | 3. 15. 13 | 10. 15. 8. 48 | 31. 58. 0 B | 16. 56. 38 | | | |
| 44.31.22,9 B | + 12,5 | 18,0 | 3. 20. 59 | 14. 2. 23. 34 | 59. 55. 6 B | 29. 40. 22 | | | |
| 15.21.56,5 B | + 12,6 | 11,9 | 3. 16. 16 | 10. 16. 24. 31 | 32. 44. 3 B | 17. 24. 29 | | | |
| 33.10.29,2 B | + 12,7 | 16,0 | 3. 25. 40 | 10. 24. 44. 24 | 49. 25. 43 B | 22. 51. 53 | | | |
| 29.21.20,1 B | + 14,4 | 15,0 | 3. 28. 4 | 11. 0. 4. 57 | 43. 42. 46 B | 23. 20. 2 | | | |
| 4.22.28,4 B | + 14,5 | 9,0 | 3. 7. 1 | 10. 20. 8. 6 | 20. 8. 55 B | 17. 51. 19 | | | |
| 88 53.49,5 B | + 14,9 | 12,5 | 3. 22. 40 | 10. 27. 19. 28 | 33. 18. 1 B | 20. 45. 16 | | | |
| 51.40.59,8 B | + 15,0 | 19,6 | 4. 12. 11 | 0. 9. 50. 54 | 68. 54. 46 B | 55. 49. 25 | | | |
| 6.30.11,7 A | - 15,4 | 6,8 | 8. 15. 10 | 10. 20. 24. 51 | 8. 37. 58 B | 17. 59. 45 | | | |

Positiones mediae 300. principalium stellarum fixarum

| NOMEN SYDERIS | Ascensio recta | | | | | Va- riatio inua S. | Aber- max. S. | Argum. aberra- tionis S G M | | | | | |
|------------------------|----------------|-----|-----|-----|------|-----------------------------|---------------------|--------------------------------------|------|------|----|-----|----|
| | H. | M. | S. | G. | M. | | | S. | S. | G. | M. | | |
| ε Cephei | 3. | 4 | 21. | 25. | 52 | 321. | 28. | 5,5 | 12,6 | 54,6 | 1. | 19. | 1 |
| γ Capricorni | 3 | 21. | 28. | 12 | 322. | 3. | 2,9 | 50,1 | 19,9 | 19,9 | 1 | 19. | 53 |
| ε Pegasi | 3 | 21. | 33. | 40 | 323. | 24. | 52,3 | 44,3 | 19,2 | 19,2 | 1. | 20. | 57 |
| μ Cygni | 3. | 4. | 21. | 34. | 34 | 323. | 38. | 34,3 | 39,9 | 21,4 | 1 | 21. | 12 |
| δ Capricorni | 3 | 21. | 35. | 12 | 323. | 48. | 2,9 | 49,8 | 19,8 | 19,8 | 1. | 21. | 20 |
| γ Gruis | 3 | 21. | 40. | 55 | 325. | 13. | 45,9 | 55,2 | 24,1 | 24,1 | 1. | 22. | 38 |
| α Aquarii | 3 | 21. | 54. | 48 | 328. | 41. | 53,4 | 46,4 | 18,8 | 18,8 | 1 | 26. | 23 |
| γ | 3 | 22. | 10. | 36 | 332. | 59. | 2,3 | 46,6 | 18,7 | 18,7 | 2. | 0. | 36 |
| ζ Pegasi | 3 | 22. | 30. | 46 | 337. | 41. | 32,7 | 44,9 | 18,9 | 18,9 | 2. | 5. | 50 |
| η | 3 | 22. | 32. | 59 | 338. | 14. | 45,2 | 32,0 | 21,8 | 21,8 | 2. | 6. | 26 |
| λ Aquarii | 4 | 22. | 41. | 23 | 340. | 20. | 49,3 | 47,2 | 18,3 | 18,3 | 2 | 8 | 40 |
| δ | 3 | 22. | 43. | 17 | 340. | 49. | 11,5 | 48,2 | 19,4 | 19,4 | 2. | 9. | 10 |
| Fomahant | 4 | 22. | 45. | 46 | 341. | 26. | 33,7 | 50,0 | 21,5 | 21,5 | 2. | 9 | 50 |
| ο Andromedae | 1 | 22. | 52. | 6 | 343. | 1. | 25,2 | 41,0 | 24,6 | 24,6 | 2 | 11. | 32 |
| ε Pegasi | 2 | 22. | 53. | 26 | 343. | 21. | 27,4 | 43,2 | 20,7 | 20,7 | 2. | 11 | 53 |
| α | 1 | 22. | 54. | 7 | 343. | 31. | 37,7 | 44,7 | 19,1 | 19,1 | 2. | 12. | 4 |
| φ Aquarii | 4. | 5 | 23. | 3. | 14 | 345. | 48. | 35,3 | 46,8 | 18,6 | 2. | 14. | 31 |
| γ Cephei | 3. | 4 | 23. | 30. | 42 | 352. | 40. | 33,0 | 35,5 | 78,2 | 2. | 21 | 59 |
| α Andromedae | 2 | 23. | 57. | 21 | 359. | 20. | 16,0 | 46,0 | 20,7 | 20,7 | 2. | 29. | 15 |
| β Cassiopeae | 2. | 3 | 23. | 57. | 48 | 359. | 27. | 5,7 | 45,8 | 34,6 | 2. | 29. | 20 |



pro 1. Jan. 1787. ex catalogo D. de la Caille computatae &c.

| Declinatio | | Variatio annua S | Aberr. max. S | Argum. aberra- tionis S. G. M. | Longitudo | | Latitudo | | Angulus positio- nis | |
|------------|-----|------------------------|---------------------|---|----------------|-------------|----------|------------|----------------------------|----------|
| G. M. S | | | | | S. G. M. | S. G. M. S. | G. M. S. | G. M. S. | G. M. S. | G. M. S. |
| 69.37.23 | 6 B | +15,7 | 19,9 | 4. 17. 23 | 1. 2. 38. 7 | 71. 8. 0 | B | 74. 25. 52 | | |
| 17.37.13,4 | A | -15,8 | 6,3 | 7. 11. 7 | 10. 18. 47. 23 | 2.32. 2 | A | 18. 19. 27 | | |
| 8.54. 8,8 | B | +16,1 | 9,9 | 3. 14. 31 | 10. 28. 54. 13 | 22. 6.58 | B | 20. 11. 40 | | |
| 27.46. 7,2 | B | +16,1 | 14,3 | 4. 1. 45 | 11. 7. 28. 52 | 39.31.49 | B | 24. 34. 30 | | |
| 17. 5.13,5 | A | -16,2 | 6,5 | 7. 12. 58 | 10. 20. 32. 41 | 2.33.35 | A | 18. 46. 4 | | |
| 38.21.38,3 | A | -16,4 | 10,2 | 5. 28. 20 | 10. 14. 14. 58 | 3. 1.32 | A | 20. 49. 27 | | |
| 1.21. 7,8 | A | -17,1 | 7,7 | 8. 26. 57 | 11. 0. 22. 17 | 10.10.29 | B | 20. 15. 44 | | |
| 2.27.31,8 | A | -17,8 | 7,6 | 8. 24. 13 | 11. 3. 43. 30 | 8.14.54 | B | 20. 56. 43 | | |
| 9.43.14,5 | B | +18,5 | 9,6 | 3. 19. 2 | 11. 13. 9. 54 | 17.41.31 | B | 22. 45. 15 | | |
| 29. 6.26,5 | b | +18,6 | 13,7 | 4. 11. 19 | 11. 22. 44. 51 | 35. 6.43 | B | 26. 53. 15 | | |
| 8.42.47,8 | A | -18,9 | 7,5 | 8. 7. 35 | 11. 8. 35. 26 | 0.22.52 | A | 22. 1. 59 | | |
| 16.57.15,1 | A | -18,9 | 8,0 | 7. 16. 42 | 11. 5. 53. 8 | 8.10.52 | A | 22. 20. 14 | | |
| 30.44.58,8 | A | -19,0 | 10,4 | 6. 21. 38 | 11. 0. 50. 45 | 21. 6.13 | A | 23. 52. 39 | | |
| 41.10.45,1 | B | +19,2 | 15,8 | 4. 22. 51 | 0. 4. 49. 6 | 43.44.46 | B | 31. 49. 28 | | |
| 26.55.26,1 | B | +19,2 | 12,8 | 4. 12. 24 | 11. 26. 23. 11 | 31. 8.12 | B | 26. 28. 10 | | |
| 14. 3.30,0 | B | +19,2 | 10,1 | 3. 27. 20 | 11. 20. 30. 25 | 19.24.46 | B | 23. 53. 22 | | |
| 7.11.51,0 | A | -19,4 | 7,7 | 8. 11. 37 | 11. 14. 9. 18 | 1. 2. 3 | A | 22. 43. 8 | | |
| 76.26. 6,5 | B | +19,9 | 19,7 | 5. 17. 50 | 1. 27. 6. 45 | 64.37.57 | B | 67. 14. 6 | | |
| 27.43.36,7 | B | +20,0 | 11,8 | 4. 22. 36 | 0. 11. 19. 56 | 25.41. 6 | B | 26. 13. 42 | | |
| 53.58.13,7 | B | +20,0 | 17,5 | 5. 15. 28 | 1. 2. 7. 35 | 51.13.24 | B | 39. 29. 42 | | |



DIFFERENTIAE MERIDIANORUM

*Inter Observatorium Mediolanense, & praecipua loca terrae
cum eorundem longitudine & latitudine.*

Ex tabulis Berolinensibus & D. LA LANDE.

| NOMINA L O C O R U M. | Differentia Meridianorum. | | | Longitudo | | Latitudo. | |
|--------------------------|------------------------------|-----|---------|-----------|----|-----------|---------|
| | H. | M. | S. | G. M. | G. | M. | S. |
| Aboa Finniae | 0. | 52. | 9. or. | 39. | 52 | 0. | 27. 0 B |
| Agra Mogolis | 3. | 30. | 11. or. | 94. | 24 | 26. | 43. 0 |
| Agrja Erlau | 0. | 44. | 5. or. | 37. | 52 | 47. | 42. 0 |
| Aleppum Syriae | 1. | 52. | 35. or. | 95. | 0 | 35. | 45. 23 |
| Alexandria Aegypti | 1. | 24. | 21. or. | 47. | 57 | 31. | 11. 20 |
| Alexandria Liguriae | 0. | 2. | 52. or. | 27. | 34 | 53. | 35. 0 |
| Amstelodamum | 0. | 17. | 13. oc. | 22. | 39 | 52. | 22. 45 |
| Ancona | 0. | 17. | 17. or. | 31. | 11 | 43. | 37. 54 |
| Antiffidorum Auxerre | 0. | 22. | 28. oc. | 21. | 14 | 47. | 47. 54 |
| Antuerpia | 0. | 19. | 12. oc. | 22. | 4 | 51. | 13. 35 |
| Aquae Sextiz Aix | 0. | 15. | 0. oc. | 23. | 7 | 43. | 31. 35 |
| Archangelus | 1. | 58. | 55. or. | 56. | 35 | 64. | 34. 0 |
| Ariminum | 0. | 13. | 56. or. | 30. | 20 | 44. | 3. 43 |
| Athenae Graeciae | 1. | 5 | 20. or. | 43. | 11 | 37. | 40. 0 |
| Avenio Avignon | 0. | 19. | 31. oc. | 22. | 29 | 43. | 57. 25 |
| Augusta Vindel. | 0. | 7. | 0. or. | 28. | 36 | 48. | 24. 0 |
| Aurelianum Orleans | 0. | 29. | 8. oc. | 19. | 34 | 47. | 54. 4 |
| Bafilea | 0. | 6. | 25. oc. | 25. | 15 | 47. | 55. 0 |
| Bajoce Bajoux | 0. | 39. | 36. oc. | 16. | 57 | 49. | 16. 30 |
| Bajonna | 0. | 42. | 45. oc. | 16. | 10 | 43. | 29. 21 |
| Belgradum | 0. | 49. | 5. or. | 36. | 7 | 45. | 3. 0 |
| Bergomum | 0. | 0. | 48. or. | 27. | 3 | 45. | 41. 0 |
| Berolinum | 0. | 17. | 0. or. | 31. | 6 | 52. | 31. 30 |
| Biterae Biziers | 0. | 23. | 55. oc. | 20. | 53 | 43. | 20. 20 |
| Bononia Italiae | 0. | 8. | 40. or. | 29. | 1 | 44. | 29. 36 |
| Brandeburgum | 0. | 13. | 52. or. | 30. | 19 | 52. | 27. 0 |
| Brixia | 0. | 3. | 0. or. | 27. | 36 | 45. | 51. 0 |
| Burdigala Bourdeaux | 0. | 39. | 4. oc. | 17. | 5 | 44. | 50. 18 |
| Burgum in Brellia | 0. | 39. | 1. oc. | 22. | 54 | 46. | 12. 30 |
| Brestia Brest | 0. | 52. | 48. oc. | 13. | 9 | 48. | 23. 0 |

NOMINA
LOCORUM.

| | Differentia Meridianorum. | | | Longitudo | Latitudo. |
|--------------------------|------------------------------|-----|---------|-----------|--------------|
| | H. | M. | S. | G. M. | G. M. S. |
| Buenos aires | 4. | 30. | 50. oc. | 319. 9. | 34. 35. 26 A |
| Cadomum Caen | 0. | 38. | 12. oc. | 17. 18. | 49. 11. 10B |
| Cajaneburgum | 1. | 14. | 17. or. | 45. 25. | 64. 13. 30 |
| Cairus Aegypti | 1. | 29. | 15. or. | 29. 10. | 30. 3. 12 |
| Caletum Calais | 0. | 39. | 21. oc. | 19. 31. | 50. 57. 31 |
| Capua | 0. | 19. | 0. or | 31. 36. | 41. 7. 0 |
| Caput bonae Spei | 0. | 36. | 50. or. | 36. 4. | 33. 35. 15 A |
| Caput Gallicum | 5. | 26. | 5. oc. | 305. 1 | 19. 46. 40B |
| Caput Viride | 1. | 45. | 25. oc. | 0. 30. | 14. 43. 0 |
| Cartagho Americae | 5. | 38. | 30. oc. | 302. 14. | 10. 26. 35 |
| Cayenna | 4. | 5. | 5. oc. | 325. 25. | 4. 56. 0 |
| Colonia | 0. | 8. | 25. oc. | 24. 45. | 50. 55. 0 |
| Conceptio Chili | 5. | 27. | 25. oc. | 305. 0. | 36. 42. 53 A |
| Constantinopolis | 1. | 19. | 0. or. | 46. 36. | 41. 1. 0 B |
| Cracovia | 0. | 42. | 35. or. | 37. 30. | 50. 10. 0 |
| Cremifanium Cremsmunster | 0. | 19. | 45. or. | 31. 48. | 48. 3. 36 |
| Cremona | 0. | 3. | 28. or. | 27. 43. | 45. 7. 49 |
| Curia Coira | 0. | 1. | 0. or. | 27. 6. | 46. 30. 0 |
| Dresda | 0. | 17. | 0. or | 31. 6. | 51. 6. 0 |
| Dunquerque | 0. | 27. | 15. oc. | 20. 2. | 51. 2. 4 |
| Edenburghum | 0. | 49. | 6. oc. | 14. 35. | 55. 58. 0 |
| Ferraria | 0. | 9. | 32. or. | 29. 14. | 44. 54. 0 |
| Florentia | 0. | 7. | 23. or. | 28. 40. | 43. 46. 30 |
| Francofurtum | 0. | 2. | 25. oc. | 26. 15. | 50. 6. 0 |
| Gades Cadice | 1. | 1. | 41. oc. | 11. 26. | 36. 31. 7 |
| Gedanum Danzica | 0. | 37. | 19. or. | 36. 11. | 54. 28. 23 |
| Geneva | 0. | 12. | 35. oc. | 23. 49. | 46. 12. 0 |
| Genua | 0. | 2. | 22. oc. | 26. 16. | 44. 25. 0 |
| Goa | 4. | 18. | 16. or. | 91. 25 | 15. 31. 0 A |
| Goritia | 0. | 17. | 34. or. | 31. 15. | 45. 57. 30 B |
| Gothenburgum | 0. | 9. | 50. or. | 20. 19. | 57. 42. 0 |
| Gottinga | 0. | 2. | 51. or. | 27. 34. | 51. 32. 0 |
| Gracium Gratz | 0. | 24. | 50. or. | 33. 4. | 47. 4. 18 |
| Greenovicum | 0. | 36. | 41. oc. | 17. 41. | 5. 28. 40 |

| NOMINA L O C O R U M . | Differentia Meridianorum . | | | Longitudo | Latitudo . |
|-------------------------------|-------------------------------|-----|---------|-----------|--------------|
| | H. | M. | S. | G. M. | G. M. S. |
| Gripwald | 0. | 17. | 43. or. | 31. 17 | 35. 54. 0 B |
| Haphnia <i>Copenbague</i> | 0. | 14. | 16. or. | 30. 25 | 55. 40. 45 |
| Havana | 6. | 3. | 56. oc. | 295. 52 | 23. 14. 50 |
| Herbipolis <i>Wurtsburg</i> | 0. | 4. | 10. oc. | 27. 54 | 49. 46. 6 |
| Hierofolima | 1. | 44. | 35. or. | 53. 0 | 31. 50. 0 |
| Imola | 0. | 10. | 31. or. | 29. 29 | 44. 21. 32 |
| Ingolftadium | 0. | 8. | 45. or. | 29. 2 | 48. 46. 0 |
| Insula Borbonica ad S. Dionif | 3. | 5. | 15. or. | 73. 10 | 20. 51. 43 A |
| Insula ferri ad Opp. | 1. | 47. | 0. oc. | 0. 6 | 27. 47. 20 B |
| Insula Galliae ad port. Ludov | 3. | 13. | 7. or. | 75. 8 | 20. 9. 45 A |
| S. Joleph in California | 7. | 55. | 24. oc. | 268. 0 | 23. 3. 36 B |
| Ifpahan | 2. | 54. | 35. or. | 70. 30 | 32. 35. 0 |
| Julia Caefarea <i>Algeri</i> | 0. | 27. | 54. oc. | 19. 53 | 36. 49. 30 |
| Kebecum | 5. | 16. | 17. oc. | 307. 47 | 46. 55. 0 |
| Leodium <i>Liegi</i> | 0. | 14. | 18. oc. | 23. 14 | 50. 38. 0 |
| Leopolis | 0. | 57. | 15. or. | 41. 42 | 49. 51. 40 |
| Leyda | 0. | 19. | 0. oc. | 22. 6 | 52. 8. 40 |
| Ligurnus | 0. | 4. | 0. or. | 27. 51 | 43. 32. 0 |
| Lima Peruvix | 5. | 44. | 3. oc. | 300. 50 | 12. 1. 15 A |
| Lipfia | 0. | 12. | 35. or. | 30. 0 | 51. 19. 14 B |
| Londinum | 0. | 37. | 6. oc. | 17. 35 | 51. 31. 0 |
| Luca | 0. | 4. | 24. or. | 27. 57 | 43. 49. 3 |
| Lugdunum | 0. | 17. | 6. oc. | 22. 20 | 45. 45. 51 |
| Lunden | 0. | 16. | 40. or. | 31. 1 | 55. 41. 36 |
| Lutetiae Parisiorum | 0. | 27. | 25. oc. | 20. 0 | 48. 50. 12 |
| Macaum | 6. | 58. | 20. or. | 131. 26 | 22. 12. 44 |
| Madras | 4. | 43. | 30. or. | 97. 43 | 13. 8. 0 |
| Macerata | 0. | 17. | 29. or. | 31. 13 | 43. 18. 36 |
| Malaca | 6. | 11. | 35. or. | 19. 45 | 2. 12. 0 |
| Manilla | 7. | 24. | 35. or. | 138. 0 | 14. 30. 0 |
| Mantua | 0. | 3. | 56. or. | 27. 50 | 45. 2. 0 |
| Martinica | 4. | 40. | 40. oc. | 316. 41 | 14. 43. 9 |
| Maffiliae | 0. | 15. | 16. oc. | 23. 2 | 43. 17. 45 |
| Matritum | 0. | 50. | 28. oc. | 14. 14 | 40. 25. 0 |
| Mediolanum | 0. | 0. | 0. | 26. 51 | 45. 27. 57 |

| NOMINA LOCORUM. | Differentia Meridianorum. | | | Longitudo | Latitudo. | | |
|----------------------------------|------------------------------|-----|---------|-----------|-----------|------|----|
| | H. | M. | S. | G. M. | G. | M. | S. |
| Melita | 0. | 21. | 9. or. | 32. 9. | 35. 54. | 0 | B |
| Messana | 0. | 24. | 29. or. | 32. 58. | 38. 21. | 0 | |
| Mexicum | 7. | 31. | 25. oc. | 274. 0. | 20. 0. | 0 | |
| Moguntia | 0. | 3. | 25. oc. | 25. 59. | 49. 54. | 0 | |
| Monachium Bav. | 0. | 9. | 15. or. | 29. 15. | 48. 9. | 55 | |
| Montpeffulaum <i>Montpellier</i> | 0. | 21. | 14. oc. | 21. 33. | 43. 36. | 33 | |
| Moscu | 1. | 54. | 20. or. | 55. 26. | 55. 45. | 20 | |
| Mutina | 0. | 8. | 4. or. | 28. 52. | 44. 34. | 0. | |
| Neapolis | 0. | 20. | 5. or. | 31. 52. | 40. 50. | 15 | |
| Nicea <i>Prov.</i> | 0. | 7. | 36. oc. | 24. 57. | 42. 41. | 54 | |
| Norimberga | 0. | 7. | 31. or. | 28. 44. | 49. 27. | 0 | |
| Oxonium <i>Oxford</i> | 0. | 41. | 45. oc. | 16. 25. | 51. 44. | 57 | |
| Padua | 0. | 10. | 57. or. | 29. 36. | 45. 22. | 26 | |
| Panormum | 0. | 16. | 16. or. | 50. 55. | 38. 9. | 0 | |
| Parma | 0. | 2. | 58. or. | 27. 35. | 44. 44. | 50 | |
| Pekinum | 7. | 9. | 10. or. | 134. 9. | 39. 54. | 13. | |
| Perufum | 0. | 14. | 57. or. | 30. 35. | 45. 33. | 54 | |
| Petropolis | 1. | 24. | 37. or. | 48. 0 | 59. 56. | 0 | |
| Philadelphia | 5. | 37. | 28. oc. | 302. 29 | 39. 56. | 55 | |
| Pisae | 0. | 5. | 4. or. | 28. 7. | 43. 43. | 7 | |
| Pistorium | 0. | 6. | 8. or. | 28. 23. | 43. 36. | 0 | |
| Placentia | 0. | 0. | 52. or. | 27. 4. | 45. 3. | 0 | |
| Pondicery | 4. | 43. | 5. or. | 97. 37. | 11. 56. | 30 | |
| Portobelo | 5. | 56. | 5. oc. | 297. 50. | 9. 33. | 5 | |
| Praga | 0. | 22. | 15. or. | 32. 25. | 50. 4. | 30 | |
| Quanton | 6. | 55. | 28. or. | 130. 43. | 23. 8. | 0 | |
| Quito | 5. | 48. | 25. oc. | 299. 45. | 0. 13. | 17 A | |
| Ravenna | 0. | 11. | 8. or. | 29. 38. | 44. 25. | 5 B | |
| Regium Lepidi | 0. | 6. | 20. or. | 28. 26. | 44. 39. | 0 | |
| Rio-Janeiro | 3. | 27. | 45. oc. | 334. 55. | 22. 54. | 10 A | |
| Roma | 0. | 13. | 12. or. | 30. 9. | 41. 53. | 54 B | |
| Rothomagnus <i>Roan</i> | 0. | 52. | 24. oc. | 18. 45. | 49. 26. | 43 | |
| Savona | 0. | 3. | 40. oc. | 25. 56. | 44. 18. | 0 | |
| Schwezingen | 0. | 2. | 10. oc. | 26. 19. | 49. 23. | 4 | |
| Senae | 0. | 7. | 44. or. | 28. 47. | 43. 20. | 0 | |

NOMINA
LOCORUM.

| | <i>Differentia Meridianorum.</i> | | | <i>Longitudo</i> | <i>Latitudo.</i> |
|---------------------------|--------------------------------------|-----------|-----------|------------------|------------------|
| | <i>H.</i> | <i>M.</i> | <i>S.</i> | <i>G. M.</i> | <i>G. M. S.</i> |
| Senoges <i>Sens</i> | 0. | 23. | 37. oc. | 20. 57 | 48. 11. 56 B |
| Siam | 6. | 6. | 35. or. | 118. 30 | 14. 18. 0 |
| Smirna | 1. | 12. | 32. or. | 44. 59 | 38. 28. 7 |
| Sokolmia | 0. | 35. | 25. or. | 35. 43 | 59. 20. 30 |
| Taurinum | 0. | 6. | 5. oc. | 25. 20 | 45. 4. 14 |
| Telo-Martius <i>Tolon</i> | 0. | 12. | 59. oc. | 23. 37 | 43. 7. 24 |
| Tergeste | 0. | 18. | 40. or. | 31. 31 | 45. 33. 0 |
| Ticinum | 0. | 0. | 1. oc. | 26. 51 | 45. 10. 59 |
| Tobolk | 3. | 56. | 55. or. | 186. 5 | 58. 12. 22 |
| Tolosa | 0. | 30. | 40. oc. | 19. 6 | 43. 35. 54 |
| Tornea | 1. | 0. | 3. or. | 41. 53 | 65. 50. 50 |
| Trajectum superius | 0. | 13. | 48. oc. | 23. 23 | 50. 49. 0 |
| Tridentum | 0. | 6. | 24. or. | 28. 27 | 46. 1. 0 |
| Tyrnavia | 0. | 53. | 30. or. | 35. 14 | 48. 23. 30 |
| Varavia | 0. | 47. | 55. or. | 38. 45 | 52. 14. 0 |
| Venetiae | 0. | 11. | 33. or. | 29. 45 | 45. 25. 0 |
| Vercelliae | 0. | 3. | 48. oc. | 25. 54 | 45. 13. 0 |
| Verona | 0. | 8. | 29. or. | 28. 58 | 45. 26. 26 |
| Verfailles | 0. | 28. | 16. oc. | 19. 47 | 48. 48. 19 |
| Vienna Austriae | 0. | 28. | 45. or. | 34. 2 | 48. 12. 32 |
| Viterbum | 0. | 12. | 7. or. | 29. 53 | 42. 24. 54 |
| Ultrajectum | 0. | 16. | 16. oc. | 22. 47 | 52. 6. 0 |
| Ulyippo | 1. | 13. | 20. oc. | 8. 31 | 38. 42. 20 |
| Urbium | 0. | 14. | 4. or. | 30. 22 | 43. 43. 36 |
| Upfala | 0. | 33. | 45. or. | 35. 25 | 59. 51. 50 |
| Uraniburgum | 0. | 14. | 45. or. | 30. 33 | 55. 54. 15 |
| Wardus | 1. | 27. | 39. or. | 48. 46 | 70. 22. 35 |
| Wilna | 1. | 5. | 5. or. | 43. 7 | 54. 41. 0 |
| Wirttemberga | 0. | 13. | 29. or. | 30. 14 | 51. 43. 10 |



1786.

121

A P P E N D I X
A D E P H E M E R I D E S

Anni 1786.

ÆQUINOCTIA VERNA

MEDIOLANI OBSERVATA

ab anno 1773. ad annum 1783.

A

OPUSCULUM

FRANCISCI REGGIO.

Distantiæ a vertice centri solis culminantis prope tempus æquinoctii observatæ apparentis suppeditant: elementa methodi satis cognitæ, quam persequar in hujusmodi determinatione, sunt latitudo Speculæ nostræ, quantitas refractionis mediæ astronomicæ, & parallaxis solis ad altitudinem æquatoris supra horizontem. Latitudinem nostram a libi definivi $45^{\circ} 27' 57''$; refractionem mediam $1^{\circ} 2' 8''$: parallaxi vero utar $6'' 2$, quæ nempe responder horizontali $8'' 8$. Elementa reliqua sunt motus solis diurnus juxta declinationem, ejusque semidiameter apprensens tempore æquinoctii; hæc pro tempore æquinoctii verni, de quo hic agitur, deprompsi ex Tabulis Caillii, motum scilicet diurnum juxta declinationem $23^{\circ} 41''$, semidiametrum $16' 5''$.

Distancia vera centri solis immediate ante vel post æquinoctium observata conferatur cum latitudine nostrâ; dein instituaturs sequens analogia ut $23^{\circ} 41''$: ad differentiam inventam inter distantiam solis a vertice, & latitudinem nostram: ita 24^h ad numerum horarum vel minu-

torum addendum, vel subducendum ab instanti meridiei prout distantia solis a vertice major vel minor inventa est latitudine, prodibit verum tempus, quo centrum solis fuit in æquatore.

Quam difficilis indaginis sit determinatio æquinoctii juxta hanc methodum quisque novit: errores enim insensibiles observationis, sensibiles admodum errores pariunt in ea determinatione; variatio e. g. unius alteriusve secundi in distantia a vertice observata variationem parit ultra unum vel duo minuta in tempore definito æquinoctii. Distantias a vertice licet metiamur sextante sextupedali, singulæ tamen laborare posse quatuor vel quinque secundorum incertitudine haud mirabuntur, qui praxim astronomicam norunt ob multiplices errorum fontes, quibus undique premitur sedulus licet, & exercitissimus observator. Hinc si duæ observationes in æquinoctii vicinia institutæ ad calculum vocentur vix unquam ex singulis prodibit idem æquinoctii instans. Hinc pro inveniendâ accuratâ quantitate anni solaris collatio instituitur inter æquinoctia longo, quam, fieri potest annorum intervallo a se diffita. Ob eandem causam motum solis juxta declinationem ex tabulis excerptere malui, quam ex observatione.

1773. 19. Mar. distan. vera a vertice centri Solis $45^{\circ} 47' 1'' , 4$

Latitudo Speculæ $45. 27. 57.$

Differentia - - - - - $\dagger 19. 4, 4$

Motui $19. 4, 4$ juxta declinationem respondent $19. 4, 4$

40," 8 addenda instanti observationis. Eodem anno 20. Martii distantia vera a vertice $45^{\circ} 23.' 23," 3$ differentia — $4.' 33," 7 = 4.^h 37.' 21," 5$ subducenda ab instanti observationis, atque inde ex postrema observatione æquinoctium incidit in diem 19. Martii $19.^h 22.' 38," 5$. Medium arithmeticum inter utramque determinationem $19.^h 21.' 9," 6$. t. v. & $19.^h 28.' 42,"$ t. m.

1775. 10. Martii distantia vera centri solis $45^{\circ} 5.' 19," 2$ differentia inter hanc & distantiam æquatoris $+ 7.' 23," 2 = 7.^h 28.' 6," 6$ hinc tempus æquinoctii 20. Martii $7.^h 28.' 6," 6$. Eodem anno die 21. Martii distantia vera a vertice centri solis $45^{\circ} 11.' 40," 8$ differentia inter distantiam æquatoris — $16.' 16," 2 = 16.^h 28.' 49," 8$. subducenda a meridie diei 21. Martii, atque inde æquinoctium 20. Martii $7.^h 31.' 10," 2$, medium inter utramque determinationem $7.^h 29.' 38," 4$. t. v. & $7.^h 36.' 59,"$ t. m.

1779. 20. Martii distantia vera centri solis $45^{\circ} 34.' 19,"$ differentia inter distan. æquatoris $+ 6.' 22," = 6.^h 27.' 6," 2$; atque adeo tempus æquinoctii 20. Martii $6.^h 27.' 6," 2$. t. v. & $6.^h 34.' 41.$ t. m.

Anno 1780. 19. Martii distantia a vertice centri solis $45^{\circ} 40.' 0," 8$ differentia inter hanc, & distantiam æquatoris $+ 12.' 3." 8 = 12.^h 13.' 28," 5$, æquinoctium igitur incidit in diem 19. Martii $12.^h 13.' 28," 5$. Eodem anno die 20. Martii distantia a vertice centri solis $45^{\circ} 16.' 17," 2$. differentia inter distantiam æquatoris — $11.^h 49.' 9,"$; atque adeo hora æquinoctii 19. Martii $12.^h 10.' 51,"$ medium inter primam, & alteram determinationem $12.^h 12.' 9," 7$. t. v. & $12.^h 19.' 45,"$ t. m.

Anno 1781. 20. Martii distantia vera centri solis a vertice $45^{\circ} 21' 59'' 9$; differentia inter distantiam æquatoris — $5' 57'' 1 = 6^h 1' 52'' 3$; ergo sol in æquatore die 19. Martii $17^h 58' 7'' 7$. t. v. & $18^h 5' 43''$ t. m.

Anno 1783. 20. Martii distantia vera a vertice centri solis $45^{\circ} 33' 44'' 4$. differentia; inter distantiam æquatoris $+ 5^h 47'' 4 = 5^h 52' 1'' 2$ addenda instanti meridiei, & prodit tempus æquinoctii die 20. Martii. $5^h 52' 1'' 2$ t. v. & $5^h 59' 34''$ t. m.

Allatæ observationes recensentur in decennio observationum solarium dato in volumine nostrarum æphemidum ad annum 1784.

Investigatio in quantitatem anni medii tropici

Ad definiendam ex relatis æquinoctiorum instantibus quantitatem anni tropici medii, ea, ut mos est, conferam cum observatis antea ætate ab Hipparco Alexandriæ, a Regiomontano & Waltero Norimbergæ, a Copernico Fruembergæ, ab Hassiano Principe Cassellis, demum Uraneburgi a Tychone, reductis earum observationum instantibus ad meridianum Mediolanensem.

Illud notandum quod quantitas anni, quæ ex hujusmodi comparatione immediate prodibit, non ea est anni tropici medii, quam quærimus, sed apparentis: revolutio enim media solis seu telluris ea est, quæ solem restituit ad eundem locum medium, cujus differentia a loco vero, quem observatione assequimur, variabilis est ob motum ²pogei solis: quare ex hoc capite annus apparens variabilis censi debet, & quando major, quandoque minor

anno medio prout æquatio centri minor vel major in posteriori quam in priori æquinoctii observatione. Differentia inter duas æquationes centri in tempus redigatur ope motus diurni solis pro data epocha, tempus respondens dividatur per numerum interjectum annorum, quotus supeditat correctionem positivam vel negativam adhibendam anno apparenti invento, prout casus postulat.

Clarissimus de *la Grange* (*) retrocessionem punctorum æquinoctialium ob actionem Planetarum calculo subduxit attendita pro epochis diversis respectivarum orbitarum positione eorundem planetarum. Ex hoc theoriæ capite præcessio æquinoctiorum insensibilem licet singulis annis variationem patiatur, sensibile tamen incrementum adepta est ab Hipparchi ætate ad hanc nostram. Patet hinc quantitatem seu durationem anni apparentis, quam assequimur ex collatione æquinoctiorum ab Hipparcho observatorum cum nostris, medium necessario tenere inter durationem anni tropici tempore Hipparchi & præsentem, atque adeo correctionem adhibendam esse quantitati anni apparentis ita comparatæ ut eam anni medii assequamur: æquatio hujusmodi prodit 5," 23 subtractiva. Eadem pene insensibilis est ubi duo tantum, vel tria sæcula intercedant inter duo æquinoctia, & tuto negligi potest.

His præmissis collationes inter æquinoctia instituam. Ad simpliciorum calculum epochas nostrarum observationum

(*) Vide acta regię Scientiarum Acad. Paris. ad an. 1774., & Vol. II. Collectionis tabularum astronomicarum Accad. Berolinensis.

reducam a stylo Gregoriano ad stylum Julianum demptis diebus undecim, juxta quem verustioris ætatis æquinoctia recensentur a Ricciolo, in Astronomia reformata, & a Cassino Elementis Astronomiæ.

Æquinoct. vern. Mediol. an. 1773. Martii 8.^d 19^h 28.' 42."
Observatum ab Hipparcho 134 ante C. N. 23. 10. 35. 39.

Intervallum an. . . . 1907 — 14. 15. 6'. 57".
quorum 477 intercalares. Dividantur dies 462. 8.^h 53' 31"
per 1907; prodit quantitas anni apparentis 365. 5.^h 49.' 8." 35.

Æquatio ex diversa æquatione centri + 6, 64
ex præcessionis inæqualitate — 5, 23

Annus medius tropicus 365. 5. 49. 9. 96

Æquinoct. vern. Mediol. 1775. Martii 9. 7.^h 36.' 59."
Observatum ab Hipparcho 127 ante C. N. 23. 4. 35. 39.

Intervallum an. 1902 — 13. 20. 58. 40.
quorum 475. intercalares: hinc annus apparens 365.^d 5.^h 49.' 7." 04, & annus medius 365.^d 5.^h 49.' 8." 42.

Æquinoct. vern. Mediol. 1779. Martii 9. 6.^h 34.' 41."
Observatum Norimbergæ 1477. 11. 2. 19. 29.

Intervallum an. 302. — 1. 19. 44. 48.
quorum 75. intercalares: hinc annus apparens 365.^d 5.^h 48.' 43." 54; annus verus 365.^d 5.^h 48.' 36." 93.

Æquinoct. vern. Mediol. 1780. Martii 8. 12.^h 19.' 45."
Observatum Norimbergæ 1478. 11. 7. 57. 29.

Intervallum an. 302. . . . — 2. 19. 37. 44.
quorum 76. intercalares: hinc annus apparens 365.^d 5.^h 48.' 56." 87; annus medius 365.^d 5.^h 48.' 50." 26.

Æquinoct. vern. Mediol. 1781. Martii 8. 18.^h 5.' 43."

Observatum Norimbergæ 1489. 11. 0. 32. 29.

Intervallum an. 292. — 2. 6. 26. 46.

quorum 73. intercalares: hinc annus apparens 365.^d 5.^h 48.' 48", 75. annus medius 365.^d 5.^h 48.' 42" .

Æquinoct. vern. Mediol. 1783. Martii 9. 5.^h 59.' 34."

Observatum Fruembergæ 1516. 10. 14. 13. 51.

Intervallum an. 267. — 1. 8. 13. 51.

quorum 66 intercalares: hinc annus apparens 365.^d 5.^h 48.' 42", 73. annus medius 365.^d 5.^h 48.' 35. 95.

Æquinoct. vern. Mediol. 1773. Martii 8. 19.^h 29.' 42."

Observatum Cassellis... 1573. 10. 7. 29. 35.

Intervallum an. 200. — 1. 11. 59. 53.

quorum 50. intercalares: hinc annus apparens 365.^d 5.^h 49.' 9", 03. annus verus 365.^d 5.^h 49.' 1," 74.

Æquinoct. vern. Mediol. 1775. Martii 9. 7.^h 36.' 59."

Observatum Uraniburgi 1584. 10. 1. 6. 15.

Intervallum an. 191. — 0. 17. 29. 16.

quorum 47. intercalares: hinc annus apparens 365.^d 5.^h 48.' 47", 97. annus medius 365.^d 48.' 40," 4.

Æquinoct. vern. Mediol. 1779. Martii 9. 6.^h 34." 41."

Observatum Uraniburgi 1585. 10. 7. 11. 15.

Intervallum. an. 194. — 1. 0. 36. 34.

quorum intercalares 48: hinc annus apparens 365.^d 5.^h 48.' 40", 64. annus verus 365.^d 5.^h 48.' 33," 06.

Æquinoct. vern. Mediol. 1780. Martii 8. 12.^h 19.['] 45.["]

Observatum Uraniburgi 1586. 10. 13. 1. 15.

Intervallum an... 194. — 2. 0. 41. 30.

quorum 49. intercalares: hic annus apparens 365.^d 5.^h 48.['] 39.["] 12. annus medius 365.^d 5.^h 48.['] 31.["] 54.

Æquinoct. vern. Mediol. 1781. Martii 8. 18.^h 5.['] 43.["]

Observatum Uraniburgi 1587. 10. 18. 15. 15.

Intervallum an.... 194. — 2. 0. 9. 32.

quorum 49. intercalares: hinc annus apparens 365.^d 5.^h 48.['] 49.["] 01. annus medius 365.^d 48.['] 41.["] 43.

Æquinoct. vern. Mediol. 1783. Martii 9. 5.^h 59.['] 34.["]

Observatum Uraniburgi 1588. 10. 0. 36. 15.

Intervallum an.... 195. — 0. 18. 36. 41.

quorum 48 intercalares: hinc annus apparens 365.^d 5.^h 48.['] 44.["] 09. annus 365.^d 5.^h 48.['] 36.["] 42.

Æquinoct. vern. Mediol. 1773. Martii 8. 19.^h 28.['] 42.["]

Observatum Uraniburgi 1589. 10. 5. 25. 15.

Intervallum an. 184. — 1. 9. 56. 33.

quorum 46. intercalares: hinc annus apparens 365.^d 5.^h 48.['] 55.["] 76. annus medius 365.^d 5.^h 48.['] 48.["] 1

Æquinoct. vern. Mediol. 1775. Martii 9.^d 7.^h 36.['] 59.["]

Observatum Uraniburgi 1590. 10. 11. 34. 45.

Intervallum an.... 185. — 1. 3. 56. 46.

quorum 46. intercalares: hinc annus apparens 365.^d 5.^h 48.['] 59. 42. annus medius 365.^d 5.^h 48.['] 51.["] 73.

Æquinoct. vern. Mediol. 1779. Martii 9. 6.^h 34.' 41."

Observatum Uraneburgi 1594..... 10. 10. 40. 15.

Intervallum an.... 185. — 1. 4. 5. 54.

quorum 46. intercalares: hinc annus apparens 365.^d 5.^h 48.' 56," 57. annus medius 365.^d 5.^h 48.' 48," 9.

Æquinoct. vern. Mediol. 1780. Martii 8. 12.^h 19.' 45."

Observatum Uraneburgi 1597..... 10. 4. 33. 15.

Intervallum an.... 183. — 1. 16. 13. 30.

quorum 46. intercalares: hinc annus apparens 365.^d 5.^h 48.' 46." 72. annus medius 365.^d 5.^h 48.' 39," 0 5.

Medium arithmeticum inter superiores conclusiones sup-
peditat quantitatem anni medii tropici 365.^d 5.^h 48.' 46,"
quæ quantitas 1," discrepat ab ea, quam Cassinus (*)
ex multiplici æquinoctiorum comparatione statuit 365.^d
5.^h 48.' 47." nulla habita ratione inæqualitatis præcessionis
ex actione Planetarum.

(*) Elementa Astronomiæ pag. 232.



DE USU FRACTIONUM CONTINUARUM

ad inveniendos Ciclos Calendarii novi & veteris

EX BARNABA ORIANI.

Pracipue Calendarii regulæ facillime per fractiones continuas inveniuntur, atque explicationes & quæstiones, quas Clavius in amplissimum volumen digessit, mirifice contrahuntur. Ex præceptis, quæ summus Mathematicus D. De la Grange eximia perspicuitate & elegantia tradidit (*) circa fractiones continuas nos hic facilliora & omnino elementaria depromemus, atque, cognitæ ex Astronomia anno solari tropico & revolutione Lunæ Synodica, omnia per simplicem arithmeticam explicabimus.

1. Prima quæstio, quæ in ordinatione Calendarii se se offert, consistit in intercalatione dierum post datum annorum communium numerum, quæ fit ut æquinoctia & solstitia in iisdem anni tempestatibus conserventur. In Calendario Gregoriano annus tropicus assumptus ex tabulis Prutenicis Reinholdi & tabulis Alfonsinis est $365^{\text{d}} 5^{\text{h}} 49^{\text{m}} 16^{\text{s}}$ (**). Itaque singulis annis communibus, qui ex 365 diebus constant, datur excessus $5^{\text{h}} 49^{\text{m}} 16^{\text{s}}$; Ut

(*) *Elémens d'Algebre per M. L. Euler tom. 2. pag. 379. & seqq.*

(**) *Clavius de Calendario cap. 7.*

autem inveniatur post quot annos excessus hujusmodi producat diem unum, fieri debet analogia: ut excessus $5^h 49' 16''$ ad annum unum, ita 24^h ad quartum

$$\text{quod erit} = \frac{24^h}{5^h 49' 16''} = \frac{86400}{20956} = \frac{21600}{5239} = 4,1229$$

videlicet singulis circiter quadrienniis unus dies adjici debet, seu quilibet quartus annus fieri debet dierum 366. Hinc orta est regula veteris Calendarii Juliani, ut quilibet quartus annus sit bissextilis.

2. Revera intervallo 216 sæculorum tantum 5239 anni bissextiles haberi debuissent, non autem $5400 = \frac{21600}{4}$.

Singulis ergo quadrienniis in calendario veteri admitebatur error $42' 56''$. Nam numerabantur $4 \cdot 365 + 1 = 1461$ dies, cum solum dies $1460 \cdot 23^h 17' 4''$ transacti fuissent.

Quare fractio $\frac{4 \times 24^h}{42' 56''} = \frac{21600}{161}$ dabit correctionem ve-

teri Calendario adplicandam, ut æquinoctia perpetuo in suis sedibus consistent; sed cum hæc ipsa fractio constet numeris valde magnis, altera fractio investiganda erit per numeros minores expressa, quæ exhibeat illius valorem, quantum fieri potest, vero proximum; Reducenda ergo erit fractio illa in fractionem continuam juxta præcepta a laudato Geometra tradita, hocque fiet sequenti modo per continuam divisionem.

$$161) 21600 (134$$

$$\underline{21574}$$

$$26) 161 (6$$

$$\leftarrow \underline{156}$$

$$5) 26 (5$$

$$\underline{25}$$

$$1) 5 (5$$

$$\underline{5}$$

$$0$$

Hinc ex quotis inventis 134, 6, 5, 5 elicientur fractio-

nes principales $\frac{134}{1}$, $\frac{6 \cdot 134 + 1}{6}$, $\frac{5 \cdot 805 + 134}{5 \cdot 6 + 1}$,

$$\frac{5 \cdot 4159 + 805}{5 \cdot 31 + 6}$$

seu ex quotis 134 6 5 5
 prodibunt fractiones $\frac{134}{1}$ $\frac{805}{6}$ $\frac{4159}{31}$ $\frac{21600}{161}$

Ex hisce vero eruentur fractiones intermediae ita, ut ha-
 beantur fractiones omnes minores vera $\frac{21600}{161}$, & quae

crescendo propius ad ipsum accedunt, sequentes

$$\frac{134}{1} \quad \frac{805 + 134}{6 + 1} \quad \frac{2 \cdot 805 + 134}{2 \cdot 6 + 1} \quad \frac{3 \cdot 805 + 134}{3 \cdot 6 + 1} \quad \&c.$$

| | | | | | | |
|-----|-----------------|-----------------|-------------------|-------------------|-------------------|-------------------|
| Seu | $\frac{134}{1}$ | $\frac{939}{7}$ | $\frac{1744}{13}$ | $\frac{2549}{19}$ | $\frac{3354}{25}$ | $\frac{4159}{31}$ |
|-----|-----------------|-----------------|-------------------|-------------------|-------------------|-------------------|

3. Similiter fractiones omnes vera majores, & quæ decreſcendo ad ipſam accedunt, erunt

| | | | | |
|---------------------|-----------------------------|-----------------------------|-----|-----------------------------|
| $\frac{134 + 1}{1}$ | $\frac{2 \cdot 134 + 1}{2}$ | $\frac{3 \cdot 134 + 1}{3}$ | &c. | $\frac{4159 + 805}{31 + 6}$ |
|---------------------|-----------------------------|-----------------------------|-----|-----------------------------|

$2 \cdot 4159 + 805$ &c.

$2 \cdot 31 + 6$

| | | | | | | | | | | |
|-----|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|-------------------|--------------------|---------------------|
| Seu | $\frac{135}{1}$ | $\frac{269}{2}$ | $\frac{403}{3}$ | $\frac{537}{4}$ | $\frac{671}{5}$ | $\frac{805}{6}$ | $\frac{4964}{37}$ | $\frac{9123}{68}$ | $\frac{13282}{99}$ | $\frac{17441}{130}$ |
|-----|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|-------------------|--------------------|---------------------|

4. Porro ut obtineatur correctio Calendarii Juliani acceptis fractionibus vera minoribus, omitti debet unus biſſextilis intervallo 134 annorum, vel relinqui debent 7 biſſextiles intervallo 939 annorum, vel 13 biſſextiles intervallo annorum 1744. &c. Acceptis vero fractionibus vera majoribus omittendus erit biſſextilis unus intervallo 135 annorum, vel relinquendi 2 biſſextiles intervallo 269 annorum, vel 3 intervallo 403 annorum &c. In Calendario Gregoriano omituntur 3 biſſextiles intervallo 400. annorum primo quia fractio ſupra inventa $\frac{403}{3}$ major eſt. vera & propterea numerator 403

3

imminuendus erat; ſecundo quia tam annis 400 quam annis 403 idem biſſextilium numerus ſupputatur juxta Calendarium Julianum, nempe 100; tertio denique quia æquationes ſeu correctiones Cyclorum in Calendario tan-

tum post integrum sæculorum numerum fieri volebant, ut regulæ essent simpliciores & Vulgo magis obviæ.

5. Accepta ergo fractione $\frac{400}{3}$ pro correctione Ca-

lendarii Juliani quartus tantum annus centesimus fieri debet bissextilis, videlicet pro singulis 400 annis non 100, sed $100 - 3 = 97$ bissextiles numerari debent. Hinc ob

$$\frac{400}{97} = \frac{86400}{20952} = \frac{24^h}{5^h 49' 12''}$$

revera in Calendario Gregoriano assumitur annus dierum $365.5^h 49' 12''$ loco dierum $365.5^h 49' 16''$ ut dabant tabulæ Prutenicæ Reiholdi. Igitur ad annos singulos invehitur in Calendarium Gregorianum error $4''$ qui intervallo $\frac{24^h}{4''} = 21600$ an-

norum integrum diem producit. Nonnisi ergo post tam magnum annorum numerum Calendarium Gregorianum ulteriori correctione unius diei indigeret, siquidem annus solaris tropicus reapse esset $365^d 5^h 49' 16''$ uti ferunt tabulæ Prutenicæ & Alfonso; At si cum recentioribus Astronomis, puta cum Ricciolo (*) & D. De la Lande (**) annus tropicus assumatur $365^d 5^h 48' 48''$, qui vix uno aut altero minuto secundo differt ab anno tropico aliorum recentiorum Astronomorum, error Calendarii Gregoriani assurgeret ad unum diem integrum post

$$\frac{24^h}{49' 12'' - 48' 48''} = \frac{24 \cdot 60 \cdot 60}{24} = 3600 \text{ annos.}$$

(*) *Cronol. reform.* Tom. I. p. 94. (**) *Astronomie* tome 4 p. 599

6. Ceterum cum sit (confer. §. 1. cum §. præced.)

$$\frac{24^h}{5^h 48' 48''} = \frac{86400}{20928} = \frac{900}{218}, \text{ ordo annorum sæcula-}$$

rium communium & bissextilium in hac postrema hypothesi sequenti modo instituendus esset

| | |
|---------------------------------------|-----|
| Annus 100 Communis. Dies intercalares | 24 |
| 200 Com. | 48 |
| 300 Com. | 72 |
| 400 Bissextilis | 97 |
| 500 Com. | 121 |
| 600 Com. | 145 |
| 700 Com. | 169 |
| 800 Com. | 193 |
| 900 Bissextilis | 218 |

videlicet fieri deberent tres anni centesimi communes, quartus bissextilis, deinde quatuor anni centesimi communes & sequens, seu 900. bissextilis, atque ita semper progrediendo per cyclum novem sæculorum obtineretur accuratus Calendarii cum Astronomia consensus.

7. Altera quæstio, quæ in Calendario excitari solet, versatur in investigatione numeri annorum solarium tropicorum, quibus completur revolutionum Lunæ synodicarum numerus quilibet integer. Jam vero cum in Calendario Gregoriano & juxta Magini Ephemerides revolutio Lunæ synodica, seu ut a Lilio, & Clavio nuncupatur, Lunatio sit $29^d 12^h 44' 3''$, 18, & annus solaris tropicus ibidem ponatur cum Reinholdo $365^d 5^h 49' 16''$, inquirenda erit fractio per humeros non magnos expressa, quæ

æquetur quam proxime fractioni $\frac{365^d 5^h 49' 16'' = 29^d 12^h 44' 3'' 18}{29^d 12^h 44' 3'' 18}$

$\frac{3155695600}{255144318} = \frac{1577847800}{127572159}$. Si ergo methodo superius

indicata reducatur quantitas $\frac{1577847800}{127572159}$ in fractionem

continuum, reperientur primo quoti 12, 2, 1, 2, 1, 1, 18, 1, 1, 1, 6, 3, 2, 1, 3, 1, 1, 1, 2, 3, 14,

ex quibus deinde fractiones principales eruentur, quæ se-

quuntur $\frac{12}{1}$ $\frac{25}{2}$ $\frac{37}{3}$ $\frac{99}{8}$ $\frac{136}{11}$ $\frac{235}{19}$ $\frac{4366}{353}$ $\frac{4601}{372}$

$\frac{8967}{725}$ $\frac{13568}{1097}$ &c.

fractionibus intermediis ut supra inventis, erunt fractiones omnes vera minores, quæ perpetuo crescendo ad ipsam propius accedunt,

$\frac{12}{1}$ $\frac{37}{3}$ $\frac{136}{11}$ $\frac{371}{30}$ $\frac{606}{49}$ $\frac{841}{68}$ $\frac{1076}{87}$ $\frac{1311}{106}$ &c.

& fractiones omnes vera majores & perpetuo decrescen-
tes erunt

$\frac{13}{1}$ $\frac{25}{2}$ $\frac{56}{5}$ $\frac{99}{8}$ $\frac{235}{19}$ $\frac{1601}{372}$ $\frac{13568}{1097}$ $\frac{103943}{8404}$ &c.

8. Si annus tropicus accipiatur non $365^d 5^h 49' 16''$, sed $365^d 6^h$ ut in Juliano Calendario suppositus fuit, vel si annus tropicus cum recentioribus Astronomis (§. 5.) ponatur $365^d 5^h 48' 48''$ & revolutio Lunæ Synodica cum Tob. Mayer fiat $29^d 12^h 44' 2''$, 8621, reperientur fractiones eadem cum superioribus saltem usque ad fractionem $\frac{235}{19}$ inclusive; hæc autem fractio cum non immanibus

19

numeris exprimatur, & præcedat alteram numeris valde majoribus expressam, merito ceteris anteferenda videtur; Et sane vetustissimis quoque temporibus fractio $\frac{235}{19}$ a

19

Metone primum inventa magnopere celebrata fuit, & in Græcia numeris aureis sculpta, deinde vero anthonomastice *Numeri Aurei* nomen sortita est. In veteri Calendario usus invaluit per cyclum lunarem $\frac{235}{19}$ lunationes om-

19

nes supputandi, indeque diem Paschatis determinandi. In Gregoriano Calendario idem cyclus servatus fuit, eique tantum adplicata est correctio, quam infra declarabimus. Interim vero non abs re erit adnotare inter tot, tamque diversos cyclos lunares a vetustioribus & recentioribus Astronomis prolatos nonnisi Metonicum in superioribus fractionum seriebus occurrere, atque propterea eos tamquam minus idoneos ad Lunæ phaies inveniendas merito reiectos fuisse.

9. Afferuimus (§. præced.) Cyclum Metonicum $\frac{235}{19}$

19

æque prodire, si sumpto anno tropico Juliano $365^d 6^h$ re-
ducatur fractio $\frac{365^d 6^h}{29^d 12^h 44' 3'', 18} = \frac{525960000}{42524053}$ in con-

tinuam fractionem; revera enim hinc eliciuntur quoti

12, 2, 1, 2, 2, 25, 6 &c. quibus respondent fractio-

nes principales $\frac{12}{1}$ $\frac{25}{2}$ $\frac{37}{3}$ $\frac{99}{8}$ $\frac{235}{19}$ $\frac{5974}{483}$ $\frac{36079}{2917}$.

Atqui Gregorianum Calendarium æque ac Julianum per
intervallum 19 annorum numerat dies 19. $365 + \frac{19}{4} =$

$6939^d 18^h$, cum æquatio Gregoriana nonnisi ad annos cen-
tesimos seu ad finem sæculi (§. 5.) turbet ordinem bissex-
tilium in Juliano Calendario servatum; Itaque ostenden-
dum superest intervallo 19 annorum seu dierum $6939 18^h$
reapse 235 lunationes supputari posse.

10. Ex posito Epactarum in Calendario Gregoriano
manifestum est, Lunationes in anno communi fieri alterna-
tim 30 & 29 dierum, annis vero bissextilibus Lunatio
Februarii, quæ ob compenetrationem Epactarum xxv &
xxiv constare solet diebus 29, fore 30 dierum ob diem
intercalarem; Hac autem regula fit, ut 12. Lunationes civi-
les in anno communi æquentur 354 diebus, in anno bissex-
tili diebus 355; quare utroque casu 11 dies remanent
ad annum complendum; Intervallo 19 annorum residuum
annuum 11 dierum dat dies 11. $19 = 209$, ex quibus 7
Lunationes extraordinariæ seu Embolismicæ prodeunt,

quarum 6 constant 30 diebus, septima vero tantum 29 diebus. Quapropter annis Julianis 19 generatim habebuntur 235 Lunationes civiles, quarum 124 complectuntur 30 dies, & 111 dies 29, atque omnium summa præbet dies 30. $124 + 29 \cdot 111 = 6939$. Vidimus autem (§. 7) Lunationem mediam astronomicam in Calendario Gregoriano assumptam fuisse $29^d 12^h 44' 3'' 18$. Ergo 235 Lunationes astronomicæ æquabuntur diebus $6939 16^h 32' 27'' 3$, anni vero Juliani 19 excipiuntur diebus 6939 18^h . Proinde Lunationes 235 deficient ab intervallo 19 annorum quantitate $1^h 27' 32'' 7$.

11. Si 235 Lunationes accurate haberentur intervallo 19 annorum, per aureos numeros semel certis anni diebus appositos, cognitoque aureo numero anni dati, dignosceretur principium cujuslibet lunationis, seu ætas lunæ pro quolibet anni dati die innotesceret, quod æque fieri posset subrogatis Epactis loco numerorum aureorum, & in Calendario Gregoriano ratio tantum habenda esset annorum sæcularium non bissextilium. Pro illis enim annis ob diem intercalarem omissum Epacta currens unitate imminuenda esset. Ita si exempli causa anno Chr. 2199. Epacta esset III., in forma Juliana anno sequenti 2200 haberetur Epacta $III + XI$, seu XIV, at quia annus 2200 in Calendario Gregoriano est communis, Epacta erit tantum XIII.

12 Defectus supra (§ 10) inventus in Cyclo Lunari Metonico $\frac{235}{19}$ seu Lunæ anticipatio decennialis, quæ est

19

$$= 6939^d 18^h - 6939^d 16^h 32' 27'' 3 = 1^h 27' 32'' 7$$

alteram postulat in Calendario correctionem, quæ per sequentem analogiam investigari potest: Ut $1^h 27' 32'', 7$ ad annos 19 ita 24^h ad quartum, ex quo habebitur numerus annorum, quibus decennovalis defectus, seu, uti à Lilio & Clavio appellatur, *aquatio Lunaris* $1^h 27' 32'', 7$ ad integrum diem assurgit. Invenietur ergo numerus

$$\text{quæritus} = \frac{19 \cdot 24^h}{1^h 27' 32'', 7} = \frac{16416000}{52527} = \frac{5472000}{17509}$$

Reducto autem hoc valore ad fractionem continuam, reperiuntur primo quoti 312, 1, 1, 9, 1, 48, 9, quibus

respondent fractiones principales $\frac{312}{1}$ $\frac{313}{1}$ $\frac{625}{2}$ $\frac{5938}{19}$

$$\frac{6563}{21} \quad \frac{606611}{1941} \quad \frac{5472000}{17509}, \text{ atque hinc eliciuntur fractio-}$$

nes omnes vera minores & perpetuo crescentes

$$\frac{312}{1} \quad \frac{625}{2} \quad \frac{6563}{21} \quad \frac{19064}{61} \quad \frac{31565}{101} \quad \frac{44066}{141} \text{ \&c.}$$

& vera majores, quæ continue decrescunt,

$$\frac{313}{1} \quad \frac{938}{3} \quad \frac{1563}{5} \quad \frac{2188}{7} \quad \frac{2813}{9} \quad \frac{3438}{11} \quad \frac{4063}{13} \quad \frac{4688}{15} \text{ \&c.}$$

13 Cum vero correctiones cyclorum seu *aquationes* locum non habeant in Calendario nisi annis secularibus sive centesimalis (§. 4), ex præcedentibus fractionibus seligenda

erit, quæ in numeratore continet numerum integrum sæculo-
rum, at quia præter ultimam 5472000 quæ numeris nimis pro-

17509

lixis constat nulla reperitur ad hunc casum idonea, investigan-
dum superest utrum aliqua fractio numeris exiguis constans
per multiplicatorem eo reduci possit; Atque statim se se
offert tertia ex fractionibus principalibus scilicet 625, hu-

2

jus enim numeratore & denominatore in 4 ductis, pro-
dit fractio 2500 quæ revera in Calendario Gregoriano

8

adscita fuit; ad singula enim 25 sæculorum intervalla No-
vilunia per dies 8 suas sedes præcedunt. Ordo hujus æ-
quationis in eodem Calendario ita constitutus est, ut per
21 sæcula singulis 300 annis Novilunium citius una die
contingat, adeo ut 21 sæculis anticipet dies 7; a sæculo
autem 21 usque ad 25 anticipet diem unam. Novilunia
in Calendario Gregoriano pro anno dato indicantur per
Epactam currentem illius anni, atque Epactæ singulis
anni diebus ordine retrogrado appositæ sunt; Quare si ad
datum annum Novilunia unam diem anticipare debent,
Epacta illius anni unitate major accipienda est. Sit, exempli
caussa, XXII Epacta anni Chr. 2399, atque si Noviluniæ
nulla æquatione indigerent anno Chr. sequenti 2400 ha-
beretur Epacta XXII + XI, seu III, cumque hæc in Ca-
lendario apponatur diei 28 Januarii, 27 Februarii, 30
Martii &c. iisdem diebus fierent Novilunia. Verum quia
anno 2400 emendandus est Metonis Cyclus per præceden-

tem æquationem Novilunia per diem unam sursum tradi debent, videlicet constituenda erunt Novilunia die 27 Januarii, 26 Februarii, 29 Martii &c., quibus cum respondeat Epacta IV, concludendum erit pro singulis annis centesimis, quibus lunæ æquatio applicanda est, Epactam unitate augendam esse.

14. Æquatio supra (§. præced.) inventa non est accuratissima, cum fractio $\frac{2500}{8} = \frac{625}{2}$ deficiat a vero valore

$\frac{5472000}{17509}$, & præbeat decennovalem lunationum

anticipationem $\frac{2}{625} \times 19 \cdot 24^h = 1^h 27' 33,12''$

loco $1^h 27' 37,7''$. Habetur ergo intervallo 19 annorum differentia $0,42''$, quæ nonnisi post

$\frac{19 \cdot 24^h}{0,42''} = \frac{164160000}{42} = 3908571$ annos integrum diem

producet; Hic autem annorum numerus valde excedit intervallum 300000 annorum, pro quo tantum Calendarii regulæ instruendæ erant. In tabulis lunaribus Tob. Mayeri, neglecta æquatione sæculari cujus ratio apud insigniores nostræ ætatis Mathematicos nondum apparuit, revolutio synodica seu Lunatio ponitur $29^d 12^h 44'' 2'', 8921$, & 235 lunationes excipiuntur diebus $6939 16^h 31' 19,6435$, qui ab annis Julianis 19, seu diebus $6939 18^h$ discrepant quantitate $1^h 28' 40,3565$, a qua si detrahatur anticipatio decennovalis Gregoriana $1^h 27' 33,12''$, fiet dif-

ferentia $1' 7''$, 2365, quæ post $19.24^h = 24415$ annos
 $\frac{1' 7'' 2365}{19.24^h}$

integrum diem præbebit. Sin vero reduceretur quantitas
 19.24^h in fractionem continuam, inter fractiones

$1^h 28' 40'' 3565$
 vera majores & decrescentes reperiretur fractio $\frac{2160}{7}$,

cujus numeratore, & denominatore per 5 multiplicatis, prodiret cycli Metonici correctio $\frac{10800}{35}$, ex qua apparet

Novilunia ad singula 300 annorum intervalla unam diem anticipare debere, huncque servare ordinem usque ad annum $32.300 = 9600$ inclusive, deinde unam diem anticipare pro singulis 400 annorum intervallis usque ad annum $9600 + 3.400 = 10800$; vel fieri deberet anticipatio 12 dierum intervallo 3700 annorum, deinde 11 dierum intervallo 3400 sequentium annorum, postremo iterum 12 dierum intervallo residuorum annorum 3700.

15. Ex dictis manifestum est Aureos Numeros semel datis anni diebus appositos in Calendario veteri recte semper indicare posse Novilunia, dummodo nulli bissextiles unquam omittantur, atque 235 Lunationes accurate haberi possint intervallo 19 annorum Julianorum. Sed cum in Calendario Gregoriano singulis quatuor sæculis bissextiles tres omittantur (§. 5.), patet ex hac sola causa Novilunia intervallo 400 annorum per tres dies postponi debere, seu singulos Aureos Numeros in Calendario dispositos per tres dies deorsum tradendos esse, seu quod eo-

dem redit (§. 11.), Epactam dato aureo numero primum respondentem imminuendam esse quantitate III. Præterea cum cyclus Metonicus $\frac{235}{19}$ postulet alteram correctionem,

19

qua fit ut intervallo 25 sæculorum Novilunia anticipent dies octo (§. 13.), hinc e contrario evidens est intervallo 2500 annorum Julianorum Epactam dato Aureo Numero primum respondentem quantitate VIII. augendam esse.

16 Itaque progressu temporis atque per continuas correctiones omnes triginta Epactæ singulis 19 Aureis Numeris respondere poterunt, videlicet prodibunt $19 \cdot 30 = 570$ combinationes, quæ excipiuntur Cyclo Epactarum perpetuo seu *Tabula Epactarum Expansa* (Clavius de Calend. Greg. cap. 11, De la Lande *Astronomie* liv. XII). Hæc tabula continet 30 lineas horizontales Epactarum literis Alphabeti P, M, N, H &c. indicatas, atque cuilibet Epactæ respondent in fronte omnes 19 Aurei Numeri; Quando instituenda est correctio ob omissum bissextilem, Epacta unitate imminuenda est, seu descendendum erit in lineam Epactarum inferiorem, e contra quando emendari debet cyclus Metonicus, seu instituenda est æquatio lunaris, Epacta unitate augetur, seu ascendendum erit in lineam proxime superiorem. Initium prioris correctionis sive omissionis bissextilium æquabiliter continuatæ sumi solet anno Chr. 1600, æquationis autem lunaris initium sumitur anno Chr. 1800. :

17 Quænam linea Epactarum in *Tabula expansa* singulis sæculis ab an. Chr. 1582 usque ad an. 300000 &

ultra sumenda sit docuerunt auctores Calendarii Gregoriani Lilius & Clavius. Si ratio habeatur 10 dierum a Gregorio XIII. exemptorum anno correctionis 1582, atque Gregorianum Calendarium retro usque ad annum ante Chr. 4000 uniformiter producat, exurget tabula sequens, in cuius prima columna reperitur numerus dierum, qui subtrahendi sunt a data Epocha Calendarii Juliani, vel ei addendi prout signum — vel + apponitur, ut ipsa reducat ad Calendarium Gregorianum; In secunda columna ponitur litera respondens lineæ in Tabula Epactarum expansa, quæ pro dato sæculo in usu venit, atque in tertia columna Aureus Numerus adiicitur.

18. Proponatur, exempli causa, annus ante Christum 2154; atque requirantur Noviluniorum dies. Ab an. ante Chr. 2200. ad an. 2154 supputantur anni 46, qui per 19 divisi dant quorum 2 cum residuo 8, huic residuo addatur Numerus Aureus anni 2200 scilicet 5, atque prodibit $8 + 5 = 13$ Aureus Numerus anni propositi 2154. Quærat modo in linea i *Tabule expansæ* (§. 16) Epacta, quæ Aureo Numero 13 respondet, invenieturque XXIX, hæc autem apponitur in Calendario diei 2 Januarii, 1, Februarii, 2 Martii &c. 25 Septembris &c. Iisdem ergo diebus fieri debuissent Novilunia ecclesiastica ad datum annum. Ex Sinensium historiis habemus eodem anno Pekini observatam fuisse Eclipsim solis die 11 Octobris Stylo veteri, seu quia sæculo 22 ante Christum reperitur in prima columna sequentis tabulæ numerus 18 dierum cum signo —; eadem Eclipsis observata fuisset

die 11 Octobris — 18 seu 23 Septembris stylo novo. Itaque Gregorianum Calendarium duobus tantum diebus serius exhibet Novilunia. Simili modo si proponatur annus ante Chr. 720., inuenietur ejus Aureus Numerus 3, cui responderet sub literam c minusculam *Tabula expansa* Epacta III; Quare Novilunia incident in diem 28 Januarii, 26 Februarii, 28. Martii &c. Eodem anno habemus ex Ptolomeo Eclipsim Lunæ Babylone observatam die 19 Martii stylo veteri, seu 11 Martii stylo novo; Plenilunium autem Martii obtinetur si a 28 Martii demantur dies 15; Ergo Calendarium Gregorianum daret Plenilunium die 13. Martii, videlicet iterum duobus tantum diebus post verum. Eadem fere differentia inter computum ecclesiasticum & astronomicum reperitur hoc ipso anno Christi 1785, si comparentur Novilunia ecclesiastica cum eclipsibus, quæ mensibus Februarii & Augusti adnotantur in ephemeridibus astronomicis, eaque oritur a pluribus causis, quas Clavius (De Calen. Greg. cap. 8.) recenset, & præcipue quia consulto Auctores Calendarii Gregoriani Novilunia ecclesiastica non solum post Novilunia vera, sed etiam post media astronomica statuere voluerunt ne Pascha umquam ante Plenilunium vernum cum Hæreticis Quartadecimanis celebraretur.



*Tabula Aequationis pro usu Calendarii Gregoriani
ante, & post Epocham Christi.*

| Diff. styli novi a ft. vet. | Anni ante Christum | Aur. Num. | Diff. styli novi a ft. vet. | Anni ante Christum | Aur. Num. |
|-----------------------------|--------------------|-----------|-----------------------------|--------------------|-----------|
| -32 | Biff. 4000 f | 10 | - 9 | 1000 d | 8 |
| 31 | ☽ 3900 f | 15 | 8 | 900 c | 13 |
| 30 | 2800 r | 1 | 8 | Biff. 800 c | 18 |
| 29 | 3700 q | 6 | 7 | ☽☽ 700 c | 4 |
| 29 | ☽ Biff. 3600 r | 11 | 6 | 600 b | 9 |
| 28 | 3500 q | 16 | 5 | 500 a | 14 |
| 27 | 3400 p | 2 | 5 | ☽ Biff. 400 b | 19 |
| 26 | 3300 n | 7 | 4 | 300 a | 5 |
| 26 | ☽☽ Biff. 3200 p | 12 | 3 | 200 F | 10 |
| 25 | 3100 n | 17 | 2 | ☽ 100 P | 15 |
| 24 | 3000 m | 3 | 2 | Biff. 0 P | 1 |
| 23 | ☽ 2900 m | 8 | - 1 | Anni Christi | |
| 23 | Biff. 2800 m | 13 | - 1 | 100 N | 6 |
| 22 | 2700 l | 18 | 0 | ☽ 200 N | 11 |
| 21 | ☽ 2600 l | 4 | + 1 | 300 M | 16 |
| 20 | 2500 k | 9 | 1 | Biff. 400 M | 2 |
| 20 | Biff. 2400 k | 14 | 2 | ☽ 500 M | 7 |
| 19 | ☽ 2300 k | 19 | 3 | 600 H | 12 |
| 18 | 2200 i | 5 | 4 | 700 G | 17 |
| 17 | 2100 h | 10 | 4 | ☽ Biff. 800 H | 3 |
| 17 | ☽ Biff. 2000 i | 15 | 5 | 900 G | 8 |
| 16 | 1900 h | 1 | 6 | 1000 F | 13 |
| 15 | 1800 g | 6 | 7 | ☽ 1100 F | 18 |
| 14 | ☽ 1700 g | 11 | 7 | Biff. 1200 F | 4 |
| 14 | Biff. 1600 g | 16 | 8 | 1300 E | 9 |
| 13 | 1500 f | 2 | 9 | ☽ 1400 E | 14 |
| 12 | ☽ 1400 f | 7 | 10 | 1500 D | 19 |
| 11 | 1300 e | 12 | 10 | Biff. 1600 D | 5 |
| 11 | Biff. 1200 e | 17 | 11 | 1700 C | 10 |
| 10 | ☽ 1100 e | 3 | 12 | ☽☽ 1800 C | 15 |
| | | | 13 | 1900 B | 1 |

19 Ex allatis exemplis (§. 18.) evidenter patet Calendarium Gregorianum ab anno ante Christum 2154 usque ad tempus reformationis, videlicet ad annum Christi 1582 satis accurate cum cœlo consensisse, proindeque saltem intervallo annorum $2154 + 1582$, seu 3736 idem Calendarium recte exhibebit impostertum Novilunia, videlicet saltem usque ad annum Chr. 5318 nulla indigebit ulteriori emendatione. Ex hac sola consideratione objectiones, quas plerique Astronomi contra Calendarium Gregorianum protulerunt, facile dilui poterant. (*)

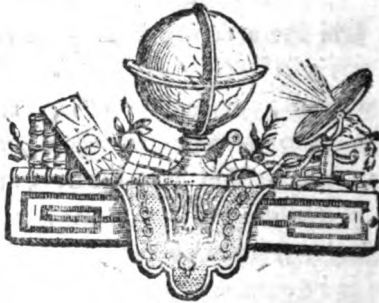
20 Ad inveniendam pro quolibet sæculo post Christum literam Tabulæ expansæ Epactarum, regula traditur a Clavio, quæ levi facta immutatione ita se habet: describantur in Calendario literæ P, N, M, H, G &c. loco Epactarum*, XXIX, XXVIII, XXVII, XXVI, &c. ut in tabula adjecta, atque anni centesimi dati & numeri 3200 summa dividatur per 400, & quotienti ducto in 3 addantur tot unitates quot centesimi sunt in residuo divisionis; obtinebitur inde numerus dierum, quibus Novilunia postponi debeat ab anno ante Christum 3200 usque

(*) Fontenellius occasione quarundam quæstionum, quas Dominicus Cassini Congregationi Calendarii a Cardinali Noris, Blanchini, &c. compositæ proponebat, hæc habet „ Un ouvrage de „ ce genre (Le Calendrier Gregorien) le plus grand & le plus „ vaste, qui ait jamais été entrepris, seroit assez parfait avec un „ seul défaut, & il l'est encore beaucoup plus, lorsqu'à juger „ selon l'équité, on peut soutenir qu'il ne l'a pas “ (*Hist. de l'Acad. des Sciences de Paris Année 1701.*)

ad annum propositum. Eadem summa dividatur per 2500, & quotienti multiplicato in 8 addantur tot unitates quot vicibus numerus 300 continetur in residuo divisionis; habebiturque numerus dierum, quibus Luna anticipare deberet ab anno ante Christum 3200 usque ad annum datum. A numero postpositionum Lunæ dematur summa numeri anticipationum, & quantitatis constantis 13. (Cum Litera p anni ante Christum 3200 præcedat in Cyclo Epactarum perpetuo literam P, quæ 1 Januarii respondet, intervallo linearum 13) residuum per 365 dividatur, siquidem dividi potest, atque summa quotientis in 11. multiplicati, & residui divisionis præbebit numerum, cui in tabula sequenti respondet littera quaesita. Ubi littera duplex F E occurrit accipienda est prima F.

21 Proponatur, exempli causa, annus Christi 1800. Summa $1800 + 3200 = 5000$ per 400 divisa dat quotum 12 cum residuo 200. Quare $3 \cdot 12 + 2 = 38$ erit numerus postpositionum Lunæ. Eadem summa 5000 per 2500 divisa dat quotum 2 absque ullo residuo, eritque propterea $2 \cdot 8 = 16$ numerus anticipationum Lunæ. Porro numero $38 - 16 - 13 = 9$ in tabula sequenti respondet littera C majuscula. Erit ergo C littera tabulæ Epactarum expansæ quæ in usu erit anno centesimo dato 1800. Proponatur modo annus Chr. 408400. Ejus summa cum numero 3200 præbet numerum 411600 qui si dividatur per 400 dat quotum 1029 sine residuo. At si 411600 dividatur per 2500 nanciscimur quotum 124 cum residuo 1600,

quod per 300 divisum dat quorum 5. Itaque habebimus
 $3.1029 - (8.124 + 5) - 13 = 2077$. Diviso autem
2077 per 365, elicitur quotiens 5 cum residuo 252.
Hinc ergo prodit numerus $5.11 + 252 = 307$, cui in
sequenti tabula respondet littera u quaesita.



Tabula ad inveniendam literam Epactarum expansarum.

| Januar. | Februar. | Martius. | Aprilis. | Majus. | Junius. | | | | | | |
|---------|----------|----------|----------|--------|---------|-----|---|-----|---|-----|---|
| 1 | P | 32 | N | 60 | P | 91 | N | 121 | M | 152 | H |
| 2 | N | 33 | M | 61 | P | 92 | N | 122 | H | 153 | G |
| 3 | M | 34 | H | 62 | N | 93 | M | 123 | G | 154 | F |
| 4 | H | 35 | G | 63 | M | 94 | H | 124 | F | 155 | E |
| 5 | G | 36 | F | 64 | H | 95 | G | 125 | E | 156 | D |
| 6 | F | 37 | E | 65 | G | 96 | F | 126 | D | 157 | C |
| 7 | E | 38 | D | 66 | F | 97 | E | 127 | C | 158 | B |
| 8 | D | 39 | C | 67 | E | 98 | D | 128 | B | 159 | A |
| 9 | C | 40 | B | 68 | D | 99 | C | 129 | A | 160 | u |
| 10 | B | 41 | A | 69 | C | 100 | B | 130 | u | 161 | t |
| 11 | A | 42 | u | 70 | B | 101 | A | 131 | t | 162 | f |
| 12 | u | 43 | t | 71 | A | 102 | u | 132 | f | 163 | r |
| 13 | t | 44 | f | 72 | u | 103 | t | 133 | r | 164 | q |
| 14 | f | 45 | r | 73 | t | 104 | f | 134 | r | 165 | p |
| 15 | r | 46 | q | 74 | f | 105 | r | 135 | q | 166 | n |
| 16 | q | 47 | p | 75 | r | 106 | q | 136 | p | 167 | m |
| 17 | p | 48 | n | 76 | q | 107 | p | 137 | n | 168 | l |
| 18 | n | 49 | m | 77 | p | 108 | n | 138 | m | 169 | k |
| 19 | m | 50 | l | 78 | n | 109 | m | 139 | l | 170 | i |
| 20 | l | 51 | k | 79 | m | 110 | l | 140 | k | 171 | h |
| 21 | k | 52 | i | 80 | l | 111 | k | 141 | i | 172 | g |
| 22 | i | 53 | h | 81 | k | 112 | i | 142 | h | 173 | f |
| 23 | h | 54 | g | 82 | i | 113 | h | 143 | g | 174 | e |
| 24 | g | 55 | f | 83 | h | 114 | g | 144 | f | 175 | d |
| 25 | f | 56 | e | 84 | g | 115 | f | 145 | e | 176 | c |
| 26 | e | 57 | d | 85 | f | 116 | e | 146 | d | 177 | b |
| 27 | d | 58 | c | 86 | e | 117 | d | 147 | c | 178 | a |
| 28 | c | 59 | b | 87 | d | 118 | c | 148 | b | 179 | P |
| 29 | b | | a | 88 | c | 119 | b | 149 | a | 180 | N |
| 30 | a | | | 89 | b | 120 | a | 150 | P | 181 | M |
| 31 | P | | | 90 | a | | P | | N | | H |
| | | | | | | | | 151 | M | | |

Tabula ad inveniendam literam Epactarum expansarum.

| Julius: | | Augustus. | | Septemb. | | October. | | Novemb. | | Decemb. | |
|---------|---|-----------|----|----------|----|----------|---|---------|----|---------|----|
| 182 | G | 213 | FE | 244 | D | 274 | C | 305 | B | 335 | A |
| 183 | F | 214 | D | 245 | C | 275 | B | 306 | A | 336 | u |
| 184 | E | 215 | C | 246 | B | 276 | A | 307 | u | 337 | t |
| 185 | D | 216 | B | 247 | A | 277 | u | 308 | t | 338 | f |
| 186 | C | 217 | A | 248 | u | 278 | | 309 | f | 339 | r |
| 187 | B | 218 | u | 249 | t | 279 | f | 310 | r | 340 | q |
| 188 | A | 219 | t | 250 | f | 280 | r | 311 | q | 341 | p |
| 189 | u | 220 | f | 251 | r | 281 | q | 312 | p | 342 | n |
| 190 | t | 221 | r | 252 | q | 282 | p | 313 | n | 343 | m |
| 191 | f | 222 | q | 253 | p | 283 | n | 314 | m | 344 | l |
| 192 | r | 223 | p | 254 | n | 284 | m | 315 | l | 345 | k |
| 193 | q | 224 | n | 255 | m | 285 | l | 316 | k | 346 | i |
| 194 | p | 225 | m | 256 | l | 286 | k | 317 | i | 347 | h |
| 195 | n | 226 | l | 257 | k | 287 | i | 318 | h | 348 | g |
| 196 | m | 227 | k | 258 | i | 288 | h | 319 | g | 349 | f |
| 197 | l | 228 | i | 259 | h | 289 | g | 320 | f | 350 | e |
| 198 | k | 229 | h | 260 | g | 290 | f | 321 | e | 351 | d |
| 199 | i | 230 | g | 261 | f | 291 | e | 322 | d | 352 | c |
| 200 | h | 231 | f | 262 | e | 292 | d | 323 | c | 353 | b |
| 201 | g | 232 | e | 263 | d | 293 | c | 324 | b | 354 | a |
| 202 | f | 233 | d | 264 | c | 294 | b | 325 | a | 355 | P |
| 203 | e | 234 | c | 265 | b | 295 | a | 326 | P | 356 | N |
| 204 | d | 235 | b | 266 | a | 296 | P | 327 | N | 357 | M |
| 205 | c | 236 | a | 267 | P | 297 | N | 328 | M | 358 | H |
| 206 | b | 237 | P | 268 | N | 298 | M | 329 | H | 359 | G |
| 207 | a | 238 | N | 269 | M | 299 | H | 330 | G | 360 | FE |
| 208 | P | 239 | M | 270 | H | 300 | G | 331 | FE | 361 | E |
| 209 | N | 240 | H | 271 | G | 301 | F | 332 | D | 362 | D |
| 210 | M | 241 | G | 272 | FE | 302 | E | 333 | C | 363 | C |
| 211 | H | 242 | F | 273 | D | 303 | D | 334 | B | 364 | B |
| 212 | G | 243 | E | | | 304 | C | | | 365 | A |

DE REFRACTIONE MEDIA ASTRONOMICA

pro altitudine Poli Mediolanensi 45.° 27.' 57."'

OPUSCULUM

FRANCISCI REGGIO.

Investigationem refractionis mediæ astronomicæ pro nostra poli altitudine agredior duplici methodo: altera altitudinem ipsam poli supponit; altera eam, & refractionem ipsam definit. Postremam hanc methodum elegantè exponit, & demonstrat Celeb. Boscovich in Vol. II. suorum Operum nuperrime editorum. Illa complectitur methodum notissimum apud Astronomos definiendi apparentem poli altitudinem observationibus distantiarum a Zenith siderum circumpolarium in superiori, & inferiori appulsu ad meridianum: juxta hanc apprensæ poli-altitudo, seu complementum semisummæ earum distantiarum collatum cum vero aliunde cognito suppeditat refractionem astronomicam eidem altitudini respondentem.

Observationes a uræ minoris, *polaris*, ad nostrum scopum valde idoneas comperi: culminat enim hæc stella supra & infra polum ad hujusmodi altitudines supra horizontem, in quibus differentia refractionis mediæ exigua est, & eadem sensibiliter in quavis ex jam constructis tabulis refractionum; potest inde pro æquanda altera ex duabus observatis distantis a Zenith, ut methodus exquirat, differentia refractionis tuto elici ex aliqua tabula refractionum mediarum in usu posita, ratione habita altitu-

dinis barometri, & thermometri pro tempore utriusque observationis.

Refractio, quæ prodit ex collatione altitudinis apparentis poli cum vera respondet statui atmosphæræ, quem notabat altitudo media barometri, & thermometri, observata tempore duarum observationum; hæc nisi ea sit, quæ assumi solet, pollicum 28 in barometro, & graduum + 10 in thermometro Reaumuriano, refractionem inventam redigo ad mediam juxta indolem aberrantis altitudinis.

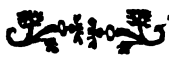
His præmonitis observationes, earumque conclusiones exponam. Distantiis stellæ a Zenith apponuntur initiales S, & I, prout pertinent ad appulsum stellæ superiorem, vel inferiorem in meridiano; singulæ non innituntur unica tantum observatione, sed pluribus se se invicem confirmantibus, eæque peractæ sextante pedum sex Parisiensem instrumento sane egregio.

| | bar. | ther. |
|--|---|--------|
| 1772. 11. Dec. Pol. D. a Z. 42.° 36.' 49." 6. S. | 27. 11, 5. | + 2, 3 |
| | 46. 24 53, 8. I. | |
| Æquatio ex dif. refr. + | 9, 3. | |
| | <hr style="width: 50%; margin-left: auto; margin-right: 0;"/> | |
| | 89. 1. 52, 7. | |
| Dist. ap. Polĩ. | 44. 30. 56, 35. | |
| Dist. vera | 44. 32. 3. | |
| | <hr style="width: 50%; margin-left: auto; margin-right: 0;"/> | |
| Refrac. | 1. 6. 35 | |
| Reductio ad med. — | 2. 3 | |
| | <hr style="width: 50%; margin-left: auto; margin-right: 0;"/> | |
| Refr. med. | 1. 05 | |

| | bar. | ther. |
|---|-----------|--------|
| 1774. 20. Dec. D. a Z. 42.° 37.' 23." 7. S. | 27. 11, 5 | + 0, 3 |
| 21. 46. 24. 18, 8. I. | 28. 0, 0 | — 1, 5 |
| Æquat. ex dif. refr. + | 7, 5. | |

| | |
|-----|---------|
| 89. | 1. 50. |
| 44. | 30. 55. |
| 44. | 32. 3. |

| | | |
|------------------------|-----------|--|
| Refractio | 1, 8. | |
| Reductio | — 0, 2, 7 | |
| Refract. media | 1. 5, 3 | |



| | bar. | ther. |
|--|--------|--------|
| 1776. 30. Dec. D. a Z 42.° 38.' 4." S. | 27. 5. | — 3, 5 |
| 20. 46. 23. 45, 5 I. | 27. 5. | 1, 5 |
| Æquat. ex dif. ref. + | 8, 2 | |

| | |
|-----|-----------|
| 89. | 1. 57, 7 |
| 44. | 30. 58, 8 |
| 44. | 32. 3 |

| | | |
|-------------------|---------|--|
| Refractio | 1. 4, 2 | |
| Reductio | — 2 | |
| Refractio media | 1. 2, 2 | |

| | bar. | ther. |
|---|----------|-------|
| 1777. 11. Dec. D. a Z. 42.° 38' 22." S. | 28. 3, 5 | — 3. |
| 13. 46. 23. 27, 4 I. | 28. 0. | — 2. |
| Æquatio ex dif.refr. + | 6, 8 | |
| <hr/> | | |
| 89. 1. | 56, 2 | |
| 44. 30. | 58, 1 | |
| 44. 32. | 3 | |
| <hr/> | | |
| Refract. | 3. 4 9 | |
| Reductio | — 3, 3 | |
| <hr/> | | |
| Refr. media | 1. 1. 6 | |
| <hr/> <hr/> | | |



| | bar. | ther. |
|---|----------|--------|
| 1778. 20. Dec. D. a Z. 42.° 38' 49," 8 S. | 28. 0, 3 | + 3 |
| 21. 46. 23. 4, 2 I. | 0, 6 | + 1, 3 |
| Æquatio ex dif.refr. + | 8, 2 | |
| <hr/> | | |
| 89. 2. | 2, 1 | |
| 44. 31. | 1, 1 | |
| 44. 32. | 3. | |
| <hr/> | | |
| Refract. | 1. 1. 9 | |
| Reductio | — 2. 0 | |
| <hr/> | | |
| Refr. media | 0. 59. 9 | |

| | bar. | ther. |
|---|-------------------|------------------|
| 1780. 6. Jan. D. a Z 42.° 39.' 11." 3. S. | 27. 8. 6. | 0 |
| 7. | 46. 22. 48, 3. I. | 27. 8. 3. — 0, 7 |
| Æquat. ex dif. refr. † | 8. | |
| | <hr/> | |
| | 89. 2. 7, 6. | |
| | 44. 31. 3, 8. | |
| | 44. 32. 3 | |
| | <hr/> | |
| Refr. | 0. 59, 2 | |
| Reductio | — 2, 2 | |
| | <hr/> | |
| Refr. media . . | 57. | |
| | <hr/> <hr/> | |



| | bar. | ther. |
|--|-------------------|----------------|
| 1780. 31. Dec. D. a Z 42.° 39.' 40." 4. S. | 27. 9, 7. | — 1. |
| 1781. 1. Jan. . . . | 46. 22. 16, 5. I. | 27. 9, 7. — 1. |
| Æquat. ex dif. refr. † | 8. | |
| | <hr/> | |
| | 89. 2. 4. 9. | |
| | 44. 31. 2. 4 | |
| | 44. 32. 3 | |
| | <hr/> | |
| Refr. | 1. 0, 6 | |
| Reductio | — 2. 4 | |
| | <hr/> | |
| Refract. media | 58, 2 | |

Medium arithmeticum inter superiores conclusiones dabit refractionem mediam 1.' 1," 17 ad altitudinem nostram poli supra horizontem 45.° 27.' 57.".

Periclitatus sum altera methodo, quam superius innui, num assequerer eandem vel proxime eandem refractionem mediam. Fundamentum methodi in eo positum est. 1.° quod summa duarum distantiarum verarum a Zenith stellæ circumpolaris supra & infra polum æquat summam similium distantiarum alterius stellæ. 2.° quod refractiones juxta regulam Bradley, eleganter item deductam a Clarissimo Boscovich loco citato sunt ut tangentes distantiarum a Zenith triplo respectivæ refractionis imminutarum. Hinc juxta laudatum auctorem si duæ distantie apparentes supra & infra polum unius stellæ dicantur a , & a' , & respectivæ refractiones x & x' , & distantie alterius stellæ dicantur b & b' , respectivæ refractiones z , & z' : erit $a + x + a' + x' = b + z + b' + z'$, & $x + x' - z - z' = b + b' - a - a'$. Sint insuper $a - 3x = m$; $a' - 3x' = m'$; $b - 3z = n$; $b' - 3z' = n'$ erunt juxta regulam Bradley $x = \frac{x \text{ tang. } m'}{\text{tang. } m}$; $z = \frac{x \text{ tang. } n}{\text{tang. } m}$; $z' = \frac{x \text{ tang. } n'}{\text{tang. } m}$.

Substituantur valores x' , z , z' in æquatione $x + x' - z - z' = b + b' - a - a'$ & multiplicetur utraque æquationi membrum per $\text{tang. } m$;

$$\text{Erit } x = \frac{(b + b' - a - a') \text{ tang. } m}{\text{tang. } m + \text{tang. } m' + \text{tang. } n + \text{tang. } n'}$$

$$\text{facto } \frac{b + b' - a - a'}{\text{tang. } m + \text{tang. } m' + \text{tang. } n + \text{tang. } n'} = \frac{C}{C'}$$

$$\text{aſſequimur } x = \frac{c}{c'} \text{ tang. } m; x' = \frac{c}{c'} \text{ tang. } m', z = \frac{c}{c'} \text{ tang. } n; z' = \frac{c}{c'} \text{ tang. } n'.$$

Reliquum eſt ut pro ſcopo noſtræ investigationis ſubſtituam in poſtremis formulis valores numericos deſumptos ex noſtris obſervationibus, ut infra. Diſtantiæ a vertice ſiderum culm'nantium obſervatæ ſunt ſextante ſextupedali.

bar. ther.

$$1780. \text{ Pol. } 6. \text{ Jan. } 42^{\circ} 39.' 11, '3. \text{ S. } \dots 27.8,6 \quad 0 \quad 0$$

$$46. 22. 48, 3. \text{ I. } \dots 27.8,6 - 0,7$$

$$\delta \text{ Caſſiop. } 13. 36. 49, 7. \text{ S. } \dots 27.8,6. \quad 0.$$

$$75. 22. 59, 4. \text{ I. } \dots 27.8,6. - 0,7$$

$$a = 75^{\circ} 22' 59, ''4 \left\{ \begin{array}{l} m = 75^{\circ} 10' 53'' m' = 13^{\circ} 36.' 6'' \\ 88^{\circ} 59.' 49, ''6. \end{array} \right.$$

$$a' = 13. 36. 49, 7 \left\{ \begin{array}{l} n = 46. 19. 18. \quad n' = 42. 36. 8. \end{array} \right.$$

$$b = 46. 22. 48, 3 \left\{ \begin{array}{l} 89. \quad 1. \quad 59, 6. \end{array} \right.$$

$$b' = 42. 39. 11, 3$$

$$c = 2. \quad 10. \quad 5. = 130,5 \quad L. \quad 2. \quad 11561$$

$$L. \text{ tang. } m. \quad 10.57748 = 3,7799 \left\{ \begin{array}{l} 4,0218 \\ \text{tang. } m'. \quad 9.38374 = 0,2419 \end{array} \right.$$

$$\text{tang. } n. \quad 10.02604 = 1,0472 \left\{ \begin{array}{l} 1,9667 \\ \text{tang. } n'. \quad 9.96358 = 0,9195 \end{array} \right.$$

$$c' = 2,0551. L. 0.31283$$

$$\frac{1.80277}{c'} = \frac{c}{c'}$$

$$\begin{array}{r}
 c' = 3,2733 \\
 x = 324,22. \quad x' = 11,11. \quad z = 67,22 \quad z' = 58,8. \\
 \text{led.} \quad \underline{\quad 10 \quad} \quad \quad \quad \underline{\quad 2,6. \quad} \quad \quad \underline{\quad 2,2 \quad} \\
 \quad \quad 314,2 \quad \quad \quad \quad \quad 64,4 \quad \quad \quad \quad 56,6 \\
 + a' = 88.58.27'' \\
 + x' = \underline{\quad 5.35.3 \quad} \\
 \quad \quad 89. 4. 2,3 \text{ semisumma } 44.^\circ 32.' 1,2'' 1.
 \end{array}$$

Observationes eadem stellæ polaris conféro cum iis
& * Cassiopeæ per idem tempus institutis

bar. ther.

$$\begin{array}{l}
 781. 4. \text{ Jan. } \delta \text{ Cas. } 13.^\circ 37.' 15,2'' \text{ S. } 27.5,5. + 1,5 \\
 5. \dots \dots 75. 22. 26,4 \text{ I. } 27.6,5. - 0,3 \\
 = 75.^\circ 22.' 26,4'' \quad \left\{ \begin{array}{l} 88^\circ 59.' 41,4'' \\ 89. 1. 56,9 \end{array} \right. \quad m = 75.10.40. m' = 15.36.32. \\
 = 13. 37. 15. \quad \left\{ \begin{array}{l} 88^\circ 59.' 41,4'' \\ 89. 1. 56,9 \end{array} \right. \\
 \quad \quad \quad c = 2. 15, 5.
 \end{array}$$

$$\begin{array}{l}
 \text{ang. } m = 3,7774 \\
 \text{ang. } m' = \underline{0,2421.}
 \end{array}$$

$$\begin{array}{l}
 4,0195. \left\{ \begin{array}{l} 2,0529 = c' \\ \end{array} \right. \\
 \text{ana. } + \text{tan.n.}' 1,9666.
 \end{array}$$

$$\begin{array}{r}
 x = 249,5. \quad x' = 15,9; \quad z = 69,1; \quad z' = 60,6 \\
 \text{led.} \quad \underline{\quad 9,7 \quad} \quad \quad \quad \underline{\quad 2,6. \quad} \quad \quad \underline{\quad 2,2 \quad} \\
 \quad \quad \quad \quad \quad \quad \quad \quad \quad 66,5 \quad \quad \quad \quad 58,4
 \end{array}$$

$$\begin{array}{l}
 a + a' 88.^\circ 59.' 41,4'' \\
 + x + x' \quad \quad \quad \underline{4. 25, 4,} \\
 \quad \quad \quad 89. 4. 6. 8. \text{ semisumma } 44.^\circ 32.' 3,4'' 4.
 \end{array}$$

bar. ther.

1781. 7 Cassiop. 8. Jan. 14° 3.' 36,"1 S. 27.7,5.—2,5
9. . . . 74. 56. 14, 6 I. 27. 8.—2,6

a = 74° 56' 14", 6 } m = 74.45.51; m' = 14.2.46,3
a' = 14. 3. 36, 1 } 88.° 59.' 50", 7
89. 1. 56, 9
c = 2. 6, 2

tang. . m = 3,6715

tang. m' = 0,2503

3,9218

tang.n. + tang.n' 1,9666 } 1,9552 = c'

x = 236,9 x' = 16,1. z = 67,6; z' = 59,3

Red. — 9,2 — 2,6 — 2,2
227.7 65,0 57.1

a + a 88.° 59.' 50,"7

x + x' 4.13

89.4. 3.7. semisumma 44.° 32.' 1," 8.

Sumpto medio arithmetico inter superiores conclu-
siones refractio media ad distantiam a vertice 42.° 40.'
in qua Mediolani culminat stella polaris in superiori ap-
pulsu ad meridianum est 0.' 57,"2. in appulsu vero in-
feriori ad distantiam 46.° 23.' est 1.' 5." Ope regulæ
Brandleyanæ eruitur inde refractio media

- ad altitudinem poli... 1.° 1,04
- ad altitudinem æquatoris 1. 2,8
- ad 45.° 1. 1,9

Ufu primæ methodi refractione d altitudinem poli
Mediolanensem inventa est 1.' 1." 17 eadem intra $\frac{13}{100}$

ac inventa methodo postrema; consensus hujusmodi utram-
que conclusionem maxime commendat.



DE HOROLOGIO SOLARI ITALICO

EX BARNABA ORIANI.

NUlla fortasse datur ex disciplinis mathematicis pars, præter Gnomonicam, cujus tractatus numero plures circumferantur. Plerique hujus scientiæ libri revera in simplici praxi consistunt, atque frequenter omnimode erroribus non carent, qui vero demonstrationes proferunt, ob nimiam prolixitatem, lectorem terrere solent. Inter recentiores & elegantiores scriptores D. Kaestner (*) opere pretium existimavit Gnomonices scientiam penitus ad analysim revocare & regulas omnes, quibus horologia solaria astronomica condi possunt, formulis trigonometricis complexus est. De horologio autem Italico nullam prorsus mentionem fecit. Itaque ne in negotio perquam facili cogamur immensa volumina Clavii, aliorumve perolvere breviter exponam methodum, qua ipse utor ad quæstiones Gnomonicæ solvendas & per quam horologia cujuscumque generis in planis superficiebus accuratissime construi possunt.

I. Si ex stili extremitate ducatur ad planum horologii perpendicularis, hæc veram stili longitudinem metietur, & simpliciter *stilum* vocabimus. Punctum Cæli,

(*) *Dissertationes Mathematicæ, & Physicæ. Altenburgi 1771.*
pag. 42. & seqq.

cui occurreret stilius hoc sensu acceptus, si indefinite productus intelligeretur usque ad stellas fixas, dicemus *zenith horologii*. In fig. 1. recta AB plano CDEF perpendicularis erit *stilius*, punctum T in sphaera coelesti erit *zenith horologii* seu plani CDEF.

2. Quando *zenith horologii* congruit cum puncto verticali seu *zenith regionis*, planum horologii horizontale est, quando vero in horizonte regionis versatur planum horologii est verticale. Generatim arcus circuli verticalis inter *zenith regionis* & *zenith horologii* comprehensus æqualis semper est inclinationi plani horologii ad horizontem; Arcus horizontis inter meridianum regionis & circulum verticalem interceptus, qui metitur azimuth ipsius verticalis metietur pariter plani horologii declinationem. In fig. 1. arcus MZP repræsentat Meridianum atque Z *zenith regionis*, T *zenith horologii*, arcus TZ æqualis erit inclinationi plani horologii ad horizontem & angulus TZM æquabitur ipsius declinationi. Qua ratione ex acuo magnetico vel ex angulo inter meridianam horizontis & intersectionem plani horologii cum horizonte eliciatur angulus declinationis plani horologii, cuilibet notum est.

3. Intersectio Az plani horologii, cum plano circuli verticalis TZ, qui transit per *zenith ipsius horologii* & *zenith regionis* in plano quolibet immediate habetur, si ex pede stili A ducatur ad intersectionem CD plani cum horizonte perpendicularis Ak, intersectio ipsa Ak vocari solent *linea verticalis*.

4. Umbra stili æqualis semper est stilo ipsi ducto in

tangentem arcus distantiae Solis a Zenith horologii. In eadem figura ducto ex Zenith horologii T ad Solis centrum S arcu circuli maximi TS, evidens est umbram Astili AB esse = AB tang. SAB = AB tang. TS. Angulus ad zenith horologii interceptus a duobus quibuslibet circulis maximis, qui vocari possent *circuli verticales horologii*, æquatur angulo ad pedem stili intercepto ab intersectionibus eorundem circulorum cum plano horologii. In eadem figura angulus ZTS a verticali TZ & altero circulo maximo TS per T transeunti interceptus æqualis est angulo zAs a linea verticali Az & stili umbra As comprehenso, siquidem Sol versetur in verticali horologii TS. Hisce duabus propositionibus demonstrandis non immoror, cum earum veritas ex geometria elementari manifesta sit.

5. Ex dictis facile resolvi poterit præcipuum Geomonicæ problema, quod ita se habet: Datis ad quamlibet diei horam Solis altitudine supra horizontem & azimuth, umbram stili, ejusque directionem in plano quolibet positione dato determinare. Etenim si concipiatur triangulum sphaericum, cujus unus angulorum sit in Zenith regionis alter in zenith horologii & tertius in centro Solis, notus fiet angulus in zenith regionis, æquabitur enim differentiae vel summæ declinationis plani & Solis azimuth, prout Sol & Zenith plani ad eandem, vel ad diversam Meridiani plagam versantur, notum pariter erit latus inter centrum Solis & Zenith regionis comprehensum, cum sit complementum ad 90 gradus altitudinis Solis supra

horizontem, & latus alterum interceptum a zenith regionis & zenith plani inclinationi datæ æquale est. Itaque in dato triangulo sphærico, cujus duo latera & angulus ab iis comprehensus dignoscuntur, investigari debent latus alterum & angulus in zenith horologii constitutus, manifestum est enim (§. 4.) umbræ directionem declinare debere a *linea verticali* (§. 3.) quantitate ejusdem anguli in zenith horologii inventi, ejusque longitudinem æquari filo ducto in tangentem lateris supputati.

6. Proponatur, exempli causa, planum quod a meridiano australi declinat in orientem 65° & inclinatur ad horizontem gradibus 50, ac quærantur umbræ quantitas ejusque directio pro hora 17 italica diei solstitii hyberni. Altitudo Solis supra horizontem Mediolani ad datum tempus est $= 14^{\circ} 34'$ ejusque azimuth a meridiano australi in orientem supputatum $= 31^{\circ} 43'$ Repræsentet ergo (fig. 1.) MZP Meridianum atque Z zenith Mediolani, zenith horologii sit in T & centrum Solis in S, ita ut habeatur angulus SZM $= 31^{\circ} 43'$, angulus TZM $= 65^{\circ} 0'$. In triangulo sphærico STZ erit angulus TZS $= 65^{\circ} 0' - 31^{\circ} 43' = 33^{\circ} 17'$, latus TZ $= 50^{\circ} 0'$ & latus ZS $= 90^{\circ} - 14^{\circ} 34' = 75^{\circ} 26'$. Inde ergo invenietur latus TS $= 38^{\circ} 37'$, & angulus STZ $= 121^{\circ} 39'$. Quare data in plano proposito CDEF *recta verticali* (§. 3.) Az, ducatur ex pede A stili recta As = AB tang. $38^{\circ} 37'$ quæ inclinetur ad verticalem Az angulo sAz = STZ $= 121^{\circ} 39'$ punctum s erit in extremitate umbræ stili AB pro dato instanti.

7. Quærantur modo in eodem plano umbræ quantitas & directio pro eadem hora 17 italica diei solstitii æstivi, pro quo tempore Solis altitudo supra horizontem Mediolani = $63^{\circ} 17'$ atque ejus azimuth a meridiano australi in occidentem supputatum = $40^{\circ} 49'$. Habebitur ergo triangulum sphericum TZS' , cujus latus unum $TZ = 50^{\circ} 0'$, latus alterum $ZS' = 26^{\circ} 43'$, & angulus interceptus $TZS' = 65^{\circ} 0' + 40^{\circ} 49' = 105^{\circ} 49'$. Hinc reperietur latus tertium $TS' = 61^{\circ} 18'$ & angulus $S'TZ = 29^{\circ} 32\frac{1}{2}'$. Quapropter extremitas s' umbræ stili invenietur, si fiat angulus $s'Az = S'TZ = 29^{\circ} 32\frac{1}{2}'$, & recta As' , quæ dat umbræ longitudinem = $AB \text{ tang. } 61^{\circ} 18'$.

8. Simili prorsus modo reperiri poterit umbra stili pro quolibet dato tempore quando Solis declinatio est minor quam $23^{\circ} 28'$ australis vel borealis. Pro data autem hora, puta 17 italica, umbræ extremum versabitur semper in recta, quæ jungit puncta s, s' ; quæ tamquam ejus limites spectari debent. Quare linea horæ cujuslibet Italicæ, Astronomicæ, Babylonicæ &c. in plano quocumque ducetur, si jungantur puncta, quæ ab extremitatibus umbræ occupantur, quando Sol est in tropicis. Ceterum si punctum intermedium lineæ horariæ desideretur, queri posset umbræ extremum, quando declinatio Solis est = 0, seu quando Sol est in æquatore. In allato exemplo horæ 17 italicæ ex altitudine Solis supra horizontem = $44^{\circ} 1'$, ac ejus azimuth = $10^{\circ} 28'$ ortum versus (vid. Tab. IV.)

invenietur distantia Solis a zenith horologii = $39^{\circ} 58'$, & angulus inter verticalem, qui jungit zenith horologii & Solis centrum, atque verticalem, qui jungit duo zenith horologii scilicet & Mediolani = $65^{\circ} 40'$; quare posito angulo $s''Az = 65^{\circ} 40'$, erit $As'' = AB \text{ tang. } 39^{\circ} 58'$. Puncta omnia s'' in diversis lineis horariis pertinent ad umbræ extremum quando Sol in æquatore versatur, atque constituunt lineam rectam, quæ est intersectio plani æquatoris cum plano horologii, vocaturque *linea æquinoctialis*.

9. Absque subsidio calculi præcedentis *linea æquinoctialis* in plano quocumque duci potest. Sit enim, ut antea PZQ (fig. 2.) meridianus regionis, P polus æquatoris, ducatur per polum P & zenith horologii T arcus circuli maximi PTE , qui *meridianus horologii* dici solet. Porro in triangulo sphærico TPZ angulus PZT æquatur declinationi plani propositi ex meridiano boreali ZP supputatæ, latus TZ ejus inclinationi æquale est (§. 2.) atque latus PZ refert complementum altitudinis Poli seu latitudinis geographicæ regionis; hinc queri debent latus tertium PT & angulus PTZ ; quibus inventis, punctum P poli æquatoris respondebit in plano horologii puncto p si accipiatur $Ap = AB \text{ tang. } PT$, atque recta Ap cum linea verticali Az intercipiat angulum $pAz = PTZ$. Recta ipsa Ap , quæ jungit pedem stili A cum puncto p polo æquatoris respondente, vocatur *subsularis* seu *meridiana Plani*. Producto arcu PT in E donec fit $PE = 90^{\circ}$, punctum E erit in æquatore, cumque

meridianus horologii PT secet perpendiculariter in puncto E æquatorem, producta *substilari* pA in e donec sit $Ae = AB \text{ tang. } TE = AB \text{ cot. } PT$, perpendicularis qef ad substilarem pe in e referet sectionem plani æquatoris cum plano horologii, seu erit *linea æquinoctialis* quaesita. In allato exemplo (§. 6.) angulus $PZT = 180^\circ 0' - 65^\circ 0' = 115^\circ 0'$, latus $TZ = 50^\circ 0'$, & latus $PZ = 90^\circ 0' - 45^\circ 28' = 44^\circ 32'$; invenietur ergo latus $PT = 76^\circ 38'$, & angulus $PTZ = 40^\circ 47' \frac{1}{2}$, seu erit angulus a *linea verticali* & *substilari* interceptus $pAz = 40^\circ 47' \frac{1}{2}$, & distantia poli a pede stili $pA = AB \text{ tang. } 76^\circ 38'$, distantia *lineæ æquinoctialis* $Ae = AB \text{ cot. } 76^\circ 38' = AB \text{ tang. } 13^\circ 22'$.

10. Punctum verticale Z seu zenith regionis respondet in plano horologii puncto z *lineæ verticalis* Ak ita ut sit $Az = AB \text{ tang. } TZ$, in nostro exemplo (§. 6.) $Az = AB \text{ tang. } 50^\circ$. Producta *linea verticali* kA in h donec sit $Ah = AB \text{ cot. } TZ$ (in allato exemplo) $= AB \text{ tang. } 40^\circ$, & ducta per punctum h *recta* fhg ad *verticalem* zAh perpendiculari, hæc referet sectionem horizontis cum plano horologii seu *lineam horizontalem*. *Recta* pzg jungens puncta, quæ polo æquatoris & zenith regionis respondent, dabit sectionem meridiani MZP regionis cum plano horologii; vocaturque simpliciter *meridiana*.

11. *Linea substilari* in plano quolibet duci potest absque ullo calculo. Etenim observatis eodem die duobus inter se æqualibus umbris, *recta* perpendiculariter demis-

sa ex pede stili in eam, quæ jungit umbrarum extrema, erit linea *substilaris*. Vel si dentur tres umbræ inæquales uno die observatæ facili constructione, quam primus docuit *Oddi da Urbino* (*), & *Schooten* (**), aliique Gnomonicæ scriptores demonstrarunt, eadem *substilaris* reperiri poterit.

12. Quando pro data regione non habentur ad singulas horas Solis altitudines & azimuth, atque horologium construi debeat in plano ad horizontem inclinato & a meridiano regionis declinante in usum vocari posset linea *substilaris* loco lineæ verticalis ad directiones umbrarum determinandas. Quærantur enim in triangulo spherico PTZ (fig. 2.) cujus latera TZ , PZ & angulus PZT dantur (§. 9.), latus tertium PT & angulus TPZ . In nostro exemplo habemus $P T = 76^{\circ} 38'$, $TPZ = 45^{\circ} 32'$. Jam vero pro data hora Sol reperiatur alicubi in S (fig. 3.) ita ut ejus angulus horarius sit ZPS , & distantia a polo boreali P sit PS , habebitur triangulum sphericum cujus latera PT , PS dantur, & angulus SPT ab iis comprehensus æquatur summæ vel differentiæ anguli horarii Solis & anguli TPZ prout puncta S , T ad diversam vel ad eandem meridiani regionis partem jacent; investigari ergo debent latus tertium TS & angulus PTS in zenith horologii. Quare in plano proposito $CDEF$ ducta substilari Ap constituatur angulus $pAs = PTS$, & accepta

(*) Trattato degli Orologi solari.

(**) Mathem. Exercit.

As = AB tang. TS, punctum s erit in extremitate umbræ stili ad datum tempus. Ut in exemplo allato (§. 6.) consistamus, quæratum umbræ extremum pro 17 hora italica quando Sol est in tropico Capricorni. Juxta communem computandi modum Sol occidit hora $23\frac{1}{2}$ italica, & propterea dicto M arcu Solis semidiurno, angulus horarius Solis pro qualibet hora H italica est = $15 (23\frac{1}{2} - H) - M$; pro hoc casu cum sit (*) M = $63^{\circ} 49'$ & H = 17, erit angulus horarius = $97^{\circ} 30' - 63^{\circ} 49' = 33^{\circ} 41'$, at ex resolutione trianguli PTZ invenimus TPZ = $45^{\circ} 32'$, erit ergo angulus SPT = $45^{\circ} 32' - 33^{\circ} 41' = 11^{\circ} 51'$, latus PS = $90^{\circ} 0' + 23^{\circ} 28' = 113^{\circ} 28'$, & latus PT = $76^{\circ} 38'$. Hinc elicitur TS = $38^{\circ} 37'$, & angulus PTS = $162^{\circ} 26'$. Quare angulus pAs inter substilarem & umbram stili erit = PTS = $162^{\circ} 26'$ & longitudo umbræ As = AB tang. $38^{\circ} 37'$. Atque evidens est umbræ stili extremum in eodem prorsus puncto versari debere ac supra (§. 6.) invenimus quando lineam verticalem loco substilaris in usum adhibimus.

13. Aliud punctum lineæ horariæ italicæ 17 invenietur quando Sol est in tropico Cancri. Angulus horarius Solis erit tunc S'PZ = $15 (23\frac{1}{2} - 17) - 116^{\circ} 11' = -18^{\circ} 41'$, atque ob signum negativum — accipiendus erit occasum versus. Quare angulus S'PT = TPZ + S'PZ = $45^{\circ} 32' + 18^{\circ} 41' = 64^{\circ} 13'$, latus PS =

(*) Consul. tabula I. & §. 27.

$90^{\circ} 0' - 23^{\circ} 28' = 66^{\circ} 32'$ & latus PT , ut supra (§. 11. & 12.) $= 76^{\circ} 38'$. Reperiuntur hinc angulus $S'TP = 70^{\circ} 20'$, & latus $TS' = 61^{\circ} 18'$, atque punctum s' quaesitum lineae horariae ss' seu 17 italicæ ita determinabitur ut sit angulus $pAs' = 70^{\circ} 20'$ & $As' = AB$ tang. $61^{\circ} 18'$.

14. Pars lineae horariae quæ jacet ultra lineam *horizontalem* pro dato horologii plano inutilis est, pertinet enim ad aliud planum cujus declinatio a meridiano boreali æqualis est declinationi plani propositi a meridiano australi supputatæ, & cujus inclinatio est supplementum ad 180° inclinationis ejusdem dati plani. In nostro exemplo lineæ horarum italicarum 14, 13, 12, 10, 9, lineam horizontalem HG (fig. 4.) trajiciunt, & propterea pars illarum, quæ citra rectam HG stilum versus jacet, ad horologium pertinet, cujus planum declinat a meridiano australi ad Ortum 65° , & inclinatur ad horizontem 50° . Pars vero ultra horizontalem HG sita valet pro plano, quod declinat a meridiano boreali ad Ortum 65° , & inclinatur ad horizontem $180^{\circ} - 50^{\circ} = 130^{\circ}$. Horarum autem denominationes in hoc altero plano mutari debent ut in figura quarta, & horologium ipsum ita inverti ut pars superior fiat inferior. Ratio hujus mutationis facile perspicitur si observetur, stilum, cujus sedes in utroque plano eadem est, in plano secundo respicere in sphaera cœlesti punctum, quod eandem habet positionem respectu Nadir regionis & polum australe ac habet zenith horologii propositi respectu Zenith regionis & polum boreale. Itaque una eadem-

demque opera duo horologia construi possunt. Quinimmo, si de horis astronomicis agatur, quatuor horologia ex uno descripta habebuntur; Etenim si datum inverse accipiatur ita ut pars dextera transeat ad sinistram quin pars superior transeat ad inferiorem habebitur horologium, cujus inclinatio ad horizontem æqualis erit inclinationi horologii propositi, & declinatio æqualis declinationi horologii dati sed ex altera meridiani australis parte supputata. Triangulum enim PTZ (fig. 2.) ex cujus resolutione horologium astronomicum perficitur in utroque casu idem est & tantum ex altera meridiani parte jacet. In nostro exemplo ex horologio X (fig. 4. & 5.) proposito obtinentur horologia quatuor X, Y, (X), (Y) in quibus linee horariae punctis descriptæ & numeris romanis indicatæ sunt astronomicæ.

15. Intersecciones linearum horariorum cum *linea horizontali*, cum *æquinoctiali*, cum *meridiana* &c. tertiam methodum suppeditant horologium italicum construendū. Ut autem interseccionum puncta definiantur, positio cujuslibet circuli horarii italici in sphaera cœlesti cognosci debet. Sit ergo (fig. 6) P polus æquatoris, MZP meridianus, & Z zenith Mediolani, HQ R horizon, EQ F æquator, & circulus maximus MIh, cujus positio quaeritur, pertineat ad horam 17 italicam. Cum generatim angulus horarius Solis pro data hora italica H sit = $15(23\frac{1}{2} - H) - M$, in qua expressione M indicat arcum semidiurnum, ut inveniatur punctum ubi circulus italicus MIh traicit meridianum PZM fieri debet angulus

Solis horarius = 0. Habemus ergo $0 = (23 \frac{1}{2} - H) - M$, seu $M = 15(23 \frac{1}{2} - H)$, atque in nostro casu $M = 15 \cdot 6^h \frac{1}{2} = 97^\circ 30'$. Inquiratur hinc ex tabula arcuum semidiurnorum pro data regione vel ex notis formulis trigonometricis (vid. infra §. 34) declinatio Solis, quæ respondet arcui semidiurno $15(23 \frac{1}{2} - H) = 97^\circ 30'$, eaque transferratur in meridianum supra vel infra æquatorem prout est borealis vel australis. In casu nostro reperitur declinatio borealis = $7^\circ 19'$, cui propterea æquari debet arcus EM , atque punctum M erit in communi sectione circuli horæ 17 italicæ & Meridiani.

16. Ut obtineatur aliud punctum h in horizonte fiat angulus horarius Solis æqualis arcui semidiurno, seu $15(23 \frac{1}{2} - H) - M' = M'$, hinc elicietur $M' = 15(23 \frac{1}{2} - H) = M$, atque in nostro exemplo $M' =$

$48^\circ 45'$. Itaque diviso bifariam in L arcu circuli MG æquatori paralleli, ducatur ex polo P circulus horarius astronomicus PLh , secabitur horizon in eodem puncto h , in quo secatur a circulo Mlh horæ 17 italicæ.

17. Punctum I , ubi circulus Mlh horæ datæ italicæ secat æquatorem EQ definietur si quærat^{ur} angulus horarius pro data hora H , in nostro exemplo 17, quando Sol est in æquatore, seu quando arcus semidiurnus $M = 90^\circ$ æquabitur enim ipse angulus arcui æquatoris EI , videlicet erit $EI = 15(23 \frac{1}{2} - H) - 90^\circ = 15 \cdot 6^h \frac{1}{2} - 90^\circ = 7^\circ 30' = QF$. Generatim ergo arcus æquatoris a meridiano &

circulo horæ *H* italicæ interceptus æqualis erit *differentia ascensionali* *QF*, quæ respondet declinationi *EM*, eritque triangulum sphæricum $EMI = FGQ$, angulus enim $MEI = GFQ = 90^\circ$, latus $EM = GF$, & latus $EI = QF$. Cum vero in triangulo *FGQ* angulus $GQF = EQH$ sit constans pro data regione & æqualis altitudini æquatoris supra horizontem, sequitur circulos horarum italicarum inclinari omnes ad æquatorem angulo, qui æquatur complemento altitudinis poli pro regione data, & propterea iidem circuli tangent maximum æquatori parallelorum semper apparentium, & maximum semper latentium in punctis oppositis.

18. Pro singulis horarum punctis *h* supputari primum debet angulus *PZh* vel depromi potest ex ultima columna tabularum azimuthorum & altitudinum Solis, quæ inscribitur apud Gnomonicæ auctores *Horizon* (vid. infra §. 31.) Pro hora 17 italicæ & pro hac regione invenitur ex angulo $ZPh = 48^\circ 45'$ (§. 16.) angulus $PZh = 140^\circ 54'$ Differentia inter angulum *PZh* & declinationem *PZT* propositi plani ex meridiano boreali supputatam præbebit angulum *TZh*. Jamvero in triangulo sphærico *TZh*, in quo angulus *TZh* datur, latus $Zh = 90^\circ$, & latus *TZ* inclinationi plani propositi æquatur, quæri debent latus *Th*, & angulus *hTZ*. In nostro exemplo habemus $TZh = 140^\circ 54' - 115^\circ 0' = 25^\circ 54'$, $TZ = 50^\circ 0'$; ex quibus, ob $Zh = 90^\circ$, invenitur $Th = 46^\circ 26'$, atque angulus $hTZ = 142^\circ 56'$. Quare linea horæ 17. Italicæ secabit *horizontalem* *GH* (fig. 4.) in puncto *η* ita ut sit

$A\eta = AB \text{ tang. } 46^\circ 26'$ & $\text{angulus } 2 A\eta = 142^\circ 56'$.
 Recta $A\eta$ in fig. 4. ducta non est, ut vitaretur linearum
 confusio, facile autem suppleri poterit.

19. Sin autem pro data hora habeatur Ph (fig. 6.)
 in triangulo TPh, præter latus Ph notum $= 122^\circ 58'$
 (vid. §. 28.) erit $\text{angulus } hPT = ZPh - ZPT$,
 in nostro casu, $hPT = 48^\circ 45' - 45^\circ 32' = 3^\circ 13'$,
 latus PT supra (§. 9.) repertum fuit $= 76^\circ 38'$. Hinc
 elici poterunt latus tertium Th, quod erit nobis $= 46^\circ$
 $26'$, & $\text{angulus } PTh = 176^\circ 16'$, seu ejus complemen-
 tum ad 360° videlicet $183^\circ 44'$. In plano ergo proposito
 (fig. 4.) accipienda erit ex pede stili recta $A\eta = AB$
 tang. $Th = AB \text{ tang. } 46^\circ 26'$, quæ cum subtilari Ap
 interceptat $\text{angulum } = PTh = 176^\circ 16'$ atque punctum
 η dabit ut supra intersectionem lineæ horariæ italicæ &
 horizontalis.

20. Eodem modo punctum intersectionis datæ hora-
 riæ italicæ cum *meridiana* determinari potest. Etenim in
 triangulo sphærico TZM (fig. 6.) latus $MZ = ZE -$
 $EM = \text{Altitudini Poli demta declinatione Solis borea-}$
 li supra inventa (§. 15.), quæ si fuisset australis adden-
 da esset, & latus TZ æquatur inclinationi plani dati,
 videlicet in casu nostro $TZ = 50^\circ 0'$, $\text{angulusque } TZM$
 $= \text{Declinationi plani} = 65^\circ 0'$. Hinc inventis latere ter-
 tio TM & angulo MTZ, poni debet in horologio
 (fig. 4.) recta $A\mu = AB \text{ tang. } TM$, quæ cum linea
 verticali Az comprehendat $\text{angulum } \mu Az = MTZ$,

atque punctum μ erit intersectio quaesita. Vel in triangulo sphaerico PTM (fig. 6.), cujus latus PM aequatur complemento declinationis Solis EM supra inventae (§. 15.), & latus PT angulusque MPT jam innotescunt (§. 11.), supputari debent latus tertium TM & angulus PTM, ex quibus determinatur (fig. 4.) recta $A\mu = AB \text{ tang. TM}$, quae cum substilari Ap faciat angulum $pA\mu = PTM$, atque punctum μ reperietur ut ante in intersectione mutuae datae horariae italicae & meridianae.

21. Quemadmodum invenimus intersectiones circulorum horarum italicarum cum horizonte, cum meridiano, & cum aequatore, reperiri possunt etiam, quas iidem circuli cum circulis horarum astronomicarum constituunt, atque deinde ex dato horologio astronomico italicum construere possit & viceversa. Quomodo vero in dato plano determinari queant absque triangulorum sphaericorum resolutione lineae horarum astronomicarum breviter indicandum est: statim ac in dato plano habetur positio *lineae substilaris* (§§. 9. & 11.) videlicet pAe (fig. 2) & *meridiana* pZg habebitur etiam positio poli p , atque aequatoris feq (§. 9.) Itaque si substilaris pe producat in c donec sit $ec = Be = AB \text{ sec. ABE} = \frac{AB}{\sin. PT}$, atque centro c radio quocumque describatur

circulus, cujus peripheria in 24 aequales partes dividatur, initio divisionis sumpto in puncto peripheriae, cui oc-

currit radius cq per communem sectionem meridianæ & æquinoctialis transiens, atque ductis radiis ad singulas divisiones, notentur puncta intersectionum eorundem radiorum cum æquinoctiali, lineæ horariæ astronomice erunt quæ jungunt eadem puncta cum polo p . Hac regula, cujus fundamentum ex dictis evidens est, ductæ sunt lineæ horariæ astronomice punctis indicatæ in horologiis fig. 4.^a, & 5.^a

22. Quando planum propositum parallelum est axi æquatoris Pp fig. 2. vel cum axe facit angulum non majorem 10° , punctum poli p in plano non habetur vel est nimis remotum a pede stili; tunc vero producta linea verticali zAh in γ ita ut sit $h\gamma = Bh = AB \sec. ABh = \frac{AB}{\sin. \text{inclin. plani}}$, centro γ radio quolibet describatur cir-

culus & transferantur in peripheriam hinc inde a radio γg per communem sectionem meridianæ pz & horizontalis fg ducto arcus horizontales Hh (fig. 6.) singulis circulis horariis astronomicis Ph respondentes, tum ductis radiis ad singulas divisiones notentur puncta intersectionum eorundem radiorum cum linea horizontali fg (fig. 2.); Hoc enim modo singulæ horæ astronomice bina puncta habebunt alterum in æquinoctiali (§. præced.) & alterum in horizontali, per quæ ducantur, absque beneficio puncti p . Ceterum accuratiores semper erunt regulæ, quas supra (§. 5. & 11.) indicavimus, eæque ad constructionem cujuscumque generis horologiorum in usum vocari possunt.

23. In determinatione puncti umbrae extremi loco anguli, quem umbra cum linea verticali intercipit & quantitatis ipsius umbrae (§§. 5. & 6.) duae coordinatae orthogonales substitui possunt. Etenim si ex pede stili A (confer. fig. 1. cum fig. 7.) excitetur in n perpendicularis lineae verticali Az, punctum s' lineae horariae cujuslibet s s' determinabitur per coordinatas Ab, bs' rectis Az, An tamquam axibus parallelas, atque posito stilo AB (fig. 1.) = R, habebitur Ab (fig. 7.) = As' cos. bAs' = R tang. TS' cos. ZTS' (§§. 5. & 7.), & bs = As' sin. bAs' = R tang. TS' sin. ZTS'. In tabulis Gnomonicis quae circumferuntur pro horologiis verticalibus & horizontali coordinata Ab vocari solet *longitudo* horae datae, & coordinata bs' ejus *latitudo*.

24. Per similes coordinatas parallelas *subtilari* & *aequinoctiali* idem punctum s' determinari potest. Etenim coordinata Aβ *subtilari* parallela reperietur (§. 11.) = A s' cos. s' Aβ = R tang. TS' cos. S'TP (confer. fig. 3. cum fig. 7.), & coordinata β s' *aequinoctiali* parallela erit = A s' sin. s' Aβ = R tang. TS' sin. S'TP. Ex coordinatis hoc postremo modo acceptis definiiri posset natura curvae, quam umbrae stili extremum describit Sole existente in parallelo quolibet, & quae refert paralleli ejusdem cum plano horologii intersectionem (*),

(*) Ponatur brevitatis gratia stilus AB (fig. 3) = R, tum arcus PT = λ, paralleli, in quo Sol versatur, declinatio = δ. Sole existente in circulo horario astronomico PT seu meridiano

invenieturque ellipsis vel hyperbola, prout arcus PT (fig. 2.) distantiae poli aequatoris a zenith horologii minor vel major est declinatione ejusdem paralleli, prodit vero parabola, si idem arcus aequatur declinationi.

horologii, arcus distantiae Solis TS a zenith horologii prodit $\equiv \lambda + \delta - 90^\circ$, vel $\equiv 90^\circ - \lambda + \delta$ prout declinatio Solis est borealis vel australis; Erit ergo coordinata *aequinoctialis* parallela $\equiv 0$, ob $\sin. STP \equiv 0$, & coordinata *subtilari* parallela erit AL (fig. 8.) $\equiv -R \cot. (\lambda + \delta)$, vel AK $\equiv R \cot. (\lambda - \delta)$, atque hinc definitur distantia utriusque verticis hyperbolae a pede stili A, ita ut prodeat *axis transversus* KL $\equiv R(\cot.(\lambda - \delta) - \cot.(\lambda + \delta))$

$\equiv \frac{R \sin. 2\delta}{\sin. (\lambda - \delta) \sin. (\lambda + \delta)}$ Posito vero angulo STP $\equiv 90^\circ$,

seu Sole existente in circulo perpendiculariter secante Meridianum horologii PT in T, coordinata *subtilari* parallela evanescit, & coordinata *aequinoctiali* parallela invenietur Al $\equiv \frac{R \sqrt{(\cos. \lambda^2 - \sin. \lambda^2 \sin. \delta^2)}}{\sin. \delta}$

$\equiv \frac{R \sqrt{\cos. (\lambda - \delta) \cos. (\lambda + \delta)}}{\sin. \delta}$, quae, quoties $\lambda + \delta > 90^\circ$,

est imaginaria, ut evenit in nostro exemplo pro parallelis quorum declinatio superat $13^\circ 22'$. Similiter abscissa Ap, quae metitur distantiam pedis A stili a puncto poli p erit (§. 9.) $\equiv R \tan. \lambda$, coordinata respondens p $\sigma \equiv R \cot. \delta \sec. \lambda$. Hinc elicitor *latus rectum* seu parameter hyperbolae $\equiv 2 R \cot. \delta$.

Quando $\delta > \lambda$ sectio conica fit ellipsis, cujus *axis transversus* $\equiv \frac{R \sin. 2\delta}{\sin. (\delta - \lambda) \sin. (\delta + \lambda)}$, & *latus rectum* ut ante $\equiv 2 R \cot. \delta$;

Atsi $\delta = \lambda$, prodit parabola, quae habet *latus rectum* $\equiv 2 R \cot. \delta$. Denique quando $\lambda = 0$, seu zenith horologii vergit ad polum aequatoris, obtinebitur circulus centro A radio $\equiv R \cot. \delta$ descriptus. Expressiones hae ad definiendas sectiones circulorum horizonti parallelorum seu almicantharath aequae valent. Data enim

25. In planis verticalibus zenith horologii versatur in horizonte regionis (§. 2.). Itaque si declinatio propositi plani a meridiano boreali ZP (fig. 9.) æquetur angulo RZT, erit T punctum horizontis, quod congruit cum zenith horologii. Sit ergo pro data hora Sol in S, distantia extremitatis umbræ a linea *horizontali*, quæ in hisce planis per pedem stili transit, seu (§. 23.) *longitudo* horæ datæ, posito stilo = R, erit = R tang. TS cof. STZ, & *latitudo* = R tang. TS sin. STZ. At in triangulo spherico TSZ, ob latus TZ = 90°, habetur tang. TS sin. STZ = tang. TZS, & tang. STZ = tang. SZ sin. SZT. Hinc *latitudo* horæ datæ = R tang. TZS, *longitudo* = R tang. TS cof. STZ = $\frac{R \text{ tang. TZS cof. STZ}}{\sin. STZ} = \frac{R \sin. TZS}{\text{cof. TZS tang. STZ}} = \frac{R \text{ cof. SZ}}{\text{cof. TZS}}$

Ponatur altitudo Sol's supra horizontem = a = 90° - SZ, ejusque azimuth a meridiano boreali supputatum = z = PZS, sitque Declinatio PZT plani verticalis ab eodem meridiano = D, erit *latitudo* horæ datæ = R tang. (z - D), & *longitudo* = $\frac{R \text{ tang. a.}}{\text{cof. (z - D)}}$

plani propositi inclinatio fiat = I, & altitudo dati almicanaræth supra horizontem = a, in formulis præcedentibus substitui debet I loco λ, & a loco δ, atque prodibunt ut ante determinationes sectionis conicæ quaesitæ, habita tantum mutationis figuræ ratione ita ut punctum p respondeat zenith regionis, & recta A p non amplius *subtilarem* sed *lineam verticalem* referat.

e6. In plano horizontali, in quo zenith horologii congruit cum zenith regionis, erit (§. 23.) distantia extremitatis umbræ stili a linea meridiana seu datæ horæ *latitudo* = $R \cot. a \sin. z$, & *longitudo* = $R \cot. a \cos. z$. Quapropter ex datis azimuth & altitudinibus Solis pro hora qualibet sive astronomica sive italica non solum horologium horizontale sed etiam verticale, (§. 25.) quomodocumque a meridiano declinans facile construi poterit.

27. Gnomonicæ quæstiones, quas hæctenus retulimus, nullam præferunt difficultatem præter triangulorum sphaericorum resolutionem. At si pro data regione jam habeantur tabulæ quædam subsidiariæ, supputatio omnis breviter expedietur. Etenim quando agitur de investigandis Solis altitudinibus supra horizontem, positis brevitatis gratia Solis declinatione = δ , ejus angulo horarij = h , & altitudine Poli pro data regione = P ; altitudo Solis = a definiri poterit per notam formulam

$$\sin. a = \sin. P \sin. \delta + \cos. P \cos. \delta \cos. h$$

Sed cum Sol in horizonte versatur, habetur $a = 0$, & propterea est

$$0 = \sin. P \sin. \delta + \cos. P \cos. \delta \cos. h$$

videlicet $\cos. h = - \frac{\sin. P \sin. \delta}{\cos. P \cos. \delta}$, atque angulus h eo casu æquatur arcui semidiurno, quem vocabimus M .

Quare substituto in præcedenti formula loco $\sin. P \sin. \delta$ ejus valore $-\cos. M \cos. P \cos. \delta$, obtinebimus

$$\sin. a = \cos. P \cos. \delta (\cos. h - \cos. M)$$

seu

$$\sin. a = 2 \cos. P \cos. \delta \sin. \frac{M+h}{2} \sin. \frac{M-h}{2}$$

Dato ergo valore ipsius M commode per logarithmos altitudo Solis supputabitur. In prima sequentium tabularum exhibetur valor quantitatis $M - 90^\circ$, quæ *Differentia ascensionalis* nuncupatur, pro singulis valoribus ipsius δ & pro altitudine Poli $45^\circ 28' = P$, ex qua tabula arcus semidiurnus M statim elicietur, addendo scilicet gradibus 90 , vel ab iisdem subtrahendo *differentiam ascensionalem* prout declinatio δ est borealis vel australis. Eiusdem differentię ascensionalis usum alterum in investigatione circulorum horarum italicarum supra (§. 17.) jam adnotavimus.

28. Solis altitudo = a facile quoque supputabitur si habeatur pro data Poli altitudine P tabula secunda, quæ complectitur valores arcus φ circuli horarij astronomici ab æquatoris & horizonte intercepti pro singulis gradibus anguli horarij h . Etenim cum sit

$$\text{tang. } \varphi = \frac{\text{cos. } h}{\text{tang. } P}$$

si in expressione generali

$$\text{sin. } a = \text{sin. } P \cdot \text{sin. } \delta + \text{cos. } P \cdot \text{cos. } \delta \cdot \text{cos. } h$$

substituatur loco $\text{cos. } h$ ejus valor $\text{tang. } P \cdot \text{tang. } \varphi$, eruetur

$$\text{sin. } a = \frac{\text{sin. } P \cdot \text{sin. } (\varphi \pm \delta)}{\text{cos. } \varphi}$$

in qua signum superius in usu erit pro declinatione boreali, & inferius pro australi. Ex hac eadem tabula elicietur valor arcus circuli horarii astronomici inter polum æquatoris & horizontem interceptus, cujus usum supra (§. 19.) vidimus. Erit enim (fig. 6.) $P h = 90^\circ \pm \varphi$ prout angulus horarius $Z P h$ est minor vel major gradibus 90. Præterea in resolutione trianguli $P T Z$ (fig. 2.) ad investigandum latus $P T$ (vid. §. 9.) ipsa tabula inserviet, accepta declinatione $P Z T = D$ plani propositi pro argumento loco anguli horarii h , angulus enim φ respondens evadet $= \omega$, ita ut sit

$$\text{tang. } \omega = \frac{\text{cof. } D}{\text{tang. } P}$$

Quare in triangulo spherico $P T Z$ habebitur

$$\text{cof. } P T = \text{cof. } P Z \text{ cof. } T Z + \text{sin. } P Z \text{ sin. } T Z \text{ cof. } P Z T$$

seu, posita inclinatione plani horologii $T Z = I$,

$$\text{cof. } P T = \text{sin. } P \text{ cof. } I + \text{cof. } P \text{ sin. } I \text{ cof. } D$$

$$= \text{sin. } P (\text{cof. } I + \text{sin. } I \text{ tang. } \omega)$$

$$= \text{sin. } P \text{ cof. } (I - \omega)$$

$$\text{cof. } \omega$$

similiter erit in eodem triangulo (§. 9.)

$$\begin{aligned}
 \text{tang. PTZ} &= \frac{\text{fin. D}}{\text{tang. P fin. I} - \text{cof. D cof. I}} \\
 &= \frac{\text{fin. D}}{\text{cof. D (fin. I cot. } \omega - \text{cof. I)}} \\
 &= \frac{\text{tang. D fin. } \omega}{\text{fin. (I} - \omega \text{)}}
 \end{aligned}$$

29. Inventa Solis altitudine = a supra horizontem, ejus azimuth = Z statim definietur, erit enim

$$\text{fin. Z} = \frac{\text{fin. h cof. } \delta}{\text{cof. a}}$$

similiter in triangulo PTZ (fig. 2.) ex latere invento PT reperietur angulus TPZ (§. 12.), cum sit

$$\text{fin. TPZ} = \frac{\text{fin. I fin. D}}{\text{fin. TP}}$$

30. Deficientibus vero tabulis azimuthorum & altitudinum Solis pro data regione in constructione horologii ad horizontem inclinati, & a meridiano declinantis (§§. 12 & 13) arcus TS (fig. 3.) distantiae Solis a zenith horologii obtinetur, si posito arcu PT (§. præc.) = λ , primum inquiratur arcus semidiurnus = m pro altitudine Poli = $90^\circ - \lambda$, ita ut sit

$$\text{col. } m = \frac{\text{tang. } \delta}{\text{tang. } \lambda}$$

hinc enim posito angulo $\text{TPS} = k$ eruetur ut supra (§. 27.)

$$\text{col. } TS = 2 \sin. \lambda \text{ col. } \delta \sin. m + k \frac{\sin. m - k}{2}$$

sin autem arcus m prodeat imaginarius, quod evenit quotiescumque $\text{tang. } \delta \text{ cot. } \lambda > 1$, seu $\delta > \lambda$, ope sinuum & cosinum sectoris hyperbolici supputatio absolvetur, quemadmodum docuit Lambert (*), vel quaeri poterit ut supra (§. 28.) arcus ω' ex forma

$$\text{tang. } \omega' = \text{col. } k \text{ tang. } \lambda$$

deinde obtinebitur TS ex altera formula

$$\text{col. } TS = \frac{\text{col. } \lambda \sin. (\delta + \omega)}{\text{col. } \omega}$$

31. Tabula tertia excipit arcum horizontis $= \omega$ a Meridiano regionis & quolibet circulo horario astronomico interceptum, qui definitur per formulam

$$\text{tang. } \omega = \sin. P \text{ tang. } h$$

(*) Zusätze zu den Logarithmischen und trigonometrischen Tabellen.

Per hanc tabulam definiuntur intersecciones linearum horarum italicarum cum linea *horizontali*. Etenim in triangulo sphaerico P Z h (fig. 6.) assumpto angulo Z Ph = \underline{M} (vid. §. 16.) pro argumento loco anguli h, reperie-

2

tur arcus horizontis H h seu angulus H Z h = ω , ideoque P Z h = $180^\circ - \omega$, ex quo determinatur (§. 18.) punctum h interseccionis circuli horarii italicici M I h & horizontis H Q R.

32. Tabula quarta altitudines & azimuth Solis ad singulas horas italicas praebet, Sole existente in aequatore atque in tropicis cancri & capricorni, pro constructione horologiorum in planis verticalibus & horizontali ad latitudinem Mediolani $45^\circ 28'$. Adjicitur in penultima columna arcus horizontis R h, seu angulus P Z h (§. praec.), qui habet pro argumento angulum Z Ph a postrema columna exceptum.

33. Quinta tabula complectitur arcus distantiae Solis a zenith horologii, quod nobis haecenus in exemplo fuit, videlicet cujus planum declinat a meridiano australi ad Ortum gradibus 65, & inclinatur ad horizontem gradibus 50 (vid. fig. 4); atque insuper angulos inter umbrarum directiones & lineam verticalem, ex quibus horologium italicum prima methodo (§. 5.) construi potest. Tabula sexta eisdem arcus continet & angulos a linea *subtilari* umbrarumque directionibus comprehensos pro constructione horologii italicici in eodem plano juxta methodum secundam (§. 12). Evidens autem est angulos hujus tabulae

ab illis tabulæ præcedentis non differre nisi quantitate anguli $P T Z$ (fig. 3.) intercepti a meridiano horologii $P T$, & circulo verticali $T Z$, qui zenith regionis cum zenith horologii jungit .

34. Postrema tabula exhibet eisdem arcus & angulos pro constructione horologii italici, cujus planum declinat a meridiano australi ad Occasum gradibus 65 & ad horizontem inclinatur gradibus 50 (vide fig. 5). Cum autem lineæ horariæ italicæ in hoc plano parum inclinentur ad lineam horizontalem, loco intersectionum earumdem cum linea *horizontali*, adnotantur intersectiones cum *meridiana* (§. 20). Posita *differentia ascensionali* $Q F$ (fig. 6.) = $E I$ = f , primo Solis declinatio $E M$ = δ' ei respondens (§. 15.) elici debet vel ex tabula prima vel ex formula

$$\text{tang. } \delta' = \frac{\text{sin. } f}{\text{tang. } P}$$

deinde in triangulo spherico $M P T$ ex dato angulo $T P Z$ (§. 29.) & latere $P T = \lambda$ (§. 23.) determinari debet angulus β per formulam

$$\text{tang. } \beta = \text{cos. } T P Z \text{ tang. } \lambda$$

isque angulus β pro dato plano constans erit, atque ex eodem supputabitur arcus $T M$ distantie inter zenith horologii & communem sectionem meridiani regionis $P M$ & circuli horarii italicici $h M$, ita ut sit

$$\text{col. } TM = \frac{\text{col. } \lambda \text{ sin. } (\beta \pm \delta')}{\text{col. } \beta}$$

& angulus PTM (§. 20.) inter *substitutorem*, & rectam jungentem sectionem communem lineæ horariæ italicæ & *meridiana* cum pedè stili definitur pari facilitate, est enim

$$\text{sin. } PTM = \frac{\text{sin. } TPZ \text{ col. } \delta'}{\text{sin. } TM}$$

35. Lineæ horarum italicarum 15, 14, 13, & 12 meridianam secant in iisdem punctis respective ac lineæ horarum 8, 9, 10 & 11. Nam arcus semidiurnus (§. 15.) $M = 15 (23 \frac{1}{2} - H)$ respondens, exempli causa, horæ $H = 15$ est $M = 15 (23 \frac{1}{2} - 15) = 127^{\circ} 30'$, & differentia ascensionalis $f = M - 90^{\circ} = 37^{\circ} 30'$, adeoque declinatio δ' (§. præced.) ei conveniens proditur ex formula præcedenti.

$$\text{tang. } \delta' = \frac{\text{sin. } 37^{\circ} 30'}{\text{tang. } P}$$

atqui $\text{sin. } 37^{\circ} 30' = \text{sin. } (180^{\circ} - 37^{\circ} 30') = \text{sin. } 142^{\circ} 30'$, & posito $f = 142^{\circ} 30'$, esset $M = 90^{\circ} + f = 232^{\circ} 30'$

$= 15 (23 \frac{1}{2} - H)$, ita ut sit $H = 23 \frac{1}{2} - \frac{232 \frac{1}{2}}{15}$

$= 23 \frac{1}{2} - 15 \frac{1}{2} = 8^h$. Ergo circulus horæ italicæ 8 meridianum secat in eodem puncto ac circulus horæ 15.

36. In eadem postrema tabula ad designandas horas 23, 22, 21 & 20 (fig. 5.), quæ ultra lineam horizontalem jacent, & quæ pertinent ad horologium a meridiano boreali declinans gradibus 65° & inclinatum ad horizontem 130° uti sumus ciphris 24, 25, 26 & 27, ut confusio vitaretur cum numeris earundem horarum quæ jacent citra lineam horizontalem.



Tab. 1. Differentias Ascensionales ad altitudinem Poli 45° 28' 0".

| Declin. | | | Differ. Ascenf. | | | Declin. | | | Differ. Ascenf. | | |
|---------|----|----|-----------------|----|----|---------|----|----|-----------------|----|----|
| o | ' | " | o | ' | " | o | ' | " | o | ' | " |
| 0 | 0 | 0 | 0 | 0 | 0 | 20 | 20 | 20 | 10 | 0 | 10 |
| | 20 | 0 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 10 | 19 |
| | 40 | 0 | 40 | 40 | 20 | 20 | 20 | 20 | 20 | 10 | 40 |
| 1 | 0 | 1 | 1 | 0 | 20 | 21 | 20 | 21 | 11 | 0 | 11 |
| | 20 | 1 | 21 | 21 | 20 | 21 | 20 | 21 | 11 | 23 | 42 |
| | 40 | 1 | 41 | 42 | 20 | 21 | 20 | 21 | 11 | 45 | 16 |
| 2 | 0 | 2 | 2 | 3 | 20 | 22 | 20 | 22 | 12 | 6 | 54 |
| | 20 | 2 | 22 | 25 | 20 | 22 | 20 | 22 | 12 | 28 | 37 |
| | 40 | 2 | 42 | 48 | 20 | 23 | 20 | 23 | 12 | 50 | 26 |
| 3 | 0 | 3 | 3 | 13 | 20 | 26 | 20 | 26 | 13 | 12 | 19 |
| | 20 | 3 | 23 | 39 | 20 | 26 | 20 | 26 | 13 | 34 | 18 |
| | 40 | 3 | 44 | 5 | 20 | 28 | 20 | 28 | 13 | 56 | 23 |
| 4 | 0 | 4 | 4 | 33 | 20 | 30 | 20 | 30 | 14 | 18 | 33 |
| | 20 | 4 | 25 | 3 | 20 | 31 | 20 | 31 | 14 | 40 | 49 |
| | 40 | 4 | 45 | 34 | 20 | 32 | 20 | 32 | 14 | 3 | 12 |
| 5 | 0 | 5 | 5 | 6 | 20 | 34 | 20 | 34 | 15 | 25 | 40 |
| | 20 | 5 | 26 | 40 | 20 | 37 | 20 | 37 | 15 | 48 | 15 |
| | 40 | 5 | 47 | 17 | 20 | 40 | 20 | 40 | 15 | 10 | 57 |
| 6 | 0 | 6 | 6 | 57 | 20 | 42 | 20 | 42 | 16 | 33 | 46 |
| | 20 | 6 | 28 | 39 | 20 | 44 | 20 | 44 | 16 | 56 | 41 |
| | 40 | 6 | 49 | 23 | 20 | 46 | 20 | 46 | 16 | 19 | 45 |
| 7 | 0 | 7 | 7 | 10 | 20 | 50 | 20 | 50 | 17 | 42 | 57 |
| | 20 | 7 | 30 | 59 | 20 | 52 | 20 | 52 | 17 | 6 | 16 |
| | 40 | 7 | 51 | 51 | 20 | 55 | 20 | 55 | 17 | 29 | 43 |
| 8 | 0 | 8 | 8 | 12 | 20 | 59 | 20 | 59 | 18 | 53 | 19 |
| | 20 | 8 | 33 | 45 | 21 | 2 | 20 | 2 | 18 | 6 | 16 |
| | 40 | 8 | 54 | 47 | 21 | 4 | 20 | 4 | 18 | 29 | 43 |
| 9 | 0 | 9 | 9 | 15 | 21 | 9 | 20 | 9 | 18 | 53 | 19 |
| | 20 | 9 | 37 | 0 | 21 | 12 | 20 | 12 | 18 | 6 | 16 |
| | 40 | 9 | 58 | 12 | 21 | 16 | 20 | 16 | 18 | 29 | 43 |
| 10 | 0 | 10 | 10 | 19 | 21 | 20 | 20 | 20 | 21 | 18 | 3 |
| | | | | | 21 | 20 | 21 | 20 | 21 | 42 | 45 |
| | | | | | | | 21 | 20 | 21 | 18 | 3 |
| | | | | | | | 21 | 20 | 21 | 42 | 45 |

Tab. I. Differentiæ Ascensionales ad altitudinem Poli 45° 28' 0".

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

Tab. I. Differentiae Ascensionales ad altitudinem Poli 45° 28' 01".

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

Tab. II. Arcus circuli horarii ab Aequatore
& horizonte interceptus = ϕ (§. 28.)

| Ang. hor. | Arcus ϕ | | | | | Ang. hor. | Arcus ϕ | | | | |
|--------------|--------------|----|----|----|----|--------------|--------------|-----|----|----|----|
| | Gr. | o | ' | " | ' | | " | Gr. | o | ' | " |
| 0 | 44 | 32 | 0 | 0 | 16 | 30 | 40 | 25 | 55 | 17 | 26 |
| 1 | 44 | 31 | 44 | 0 | 47 | 31 | 40 | 8 | 29 | 18 | 6 |
| 2 | 44 | 30 | 57 | 1 | 18 | 32 | 39 | 50 | 23 | 18 | 47 |
| 3 | 44 | 29 | 39 | 1 | 50 | 33 | 39 | 31 | 26 | 19 | 28 |
| 4 | 44 | 27 | 49 | 2 | 22 | 34 | 39 | 12 | 8 | 20 | 11 |
| 5 | 44 | 25 | 37 | 2 | 53 | 35 | 38 | 51 | 57 | 20 | 53 |
| 6 | 44 | 22 | 34 | 3 | 25 | 36 | 38 | 51 | 4 | 21 | 36 |
| 7 | 44 | 19 | 9 | 3 | 58 | 37 | 38 | 9 | 28 | 22 | 20 |
| 8 | 44 | 15 | 11 | 4 | 29 | 38 | 57 | 47 | 8 | 23 | 4 |
| 9 | 44 | 10 | 42 | 5 | 1 | 39 | 37 | 24 | 4 | 23 | 49 |
| 10 | 44 | 5 | 41 | 5 | 33 | 40 | 37 | 0 | 15 | 24 | 35 |
| 11 | 44 | 0 | 8 | 6 | 6 | 41 | 36 | 35 | 40 | 25 | 22 |
| 12 | 43 | 54 | 2 | 6 | 39 | 42 | 36 | 10 | 19 | 26 | 8 |
| 13 | 43 | 47 | 23 | 7 | 11 | 43 | 35 | 44 | 11 | 26 | 56 |
| 14 | 43 | 40 | 12 | 7 | 45 | 44 | 35 | 17 | 15 | 27 | 43 |
| 15 | 43 | 32 | 27 | 8 | 19 | 45 | 34 | 49 | 32 | 28 | 32 |
| 16 | 43 | 24 | 8 | 8 | 52 | 46 | 34 | 21 | 0 | 29 | 21 |
| 17 | 43 | 15 | 16 | 9 | 26 | 47 | 33 | 51 | 39 | 30 | 11 |
| 18 | 43 | 5 | 50 | 10 | 1 | 48 | 33 | 21 | 28 | 31 | 2 |
| 19 | 42 | 55 | 49 | 10 | 36 | 49 | 22 | 50 | 26 | 31 | 52 |
| 20 | 42 | 45 | 13 | 11 | 11 | 50 | 32 | 18 | 34 | 32 | 44 |
| 21 | 42 | 34 | 2 | 11 | 46 | 51 | 31 | 45 | 50 | 33 | 36 |
| 22 | 42 | 23 | 16 | 12 | 22 | 52 | 31 | 12 | 14 | 34 | 28 |
| 23 | 42 | 9 | 54 | 12 | 59 | 53 | 30 | 37 | 46 | 35 | 21 |
| 24 | 41 | 56 | 55 | 13 | 35 | 54 | 30 | 2 | 25 | 36 | 14 |
| 25 | 41 | 43 | 20 | 14 | 13 | 55 | 29 | 26 | 11 | 37 | 7 |
| 26 | 41 | 29 | 7 | 14 | 50 | 56 | 28 | 49 | 4 | 38 | 1 |
| 27 | 41 | 14 | 17 | 15 | 28 | 57 | 28 | 11 | 3 | 38 | 55 |
| 28 | 40 | 58 | 49 | 16 | 7 | 58 | 27 | 32 | 8 | 39 | 48 |
| 29 | 40 | 42 | 42 | 16 | 47 | 59 | 26 | 52 | 20 | 40 | 43 |
| 30 | 40 | 25 | 55 | 17 | 26 | 60 | 26 | 11 | 37 | 41 | 37 |

Tab. II. Arcus circuli borarii
ab Aequatore & horiz.
interceptus = ϕ .

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

Tab. III. Arcus, horisontis
a Meridiano & circulo borar.
interceptus = ω (§ 31.)

| Ang. hor. | Arcus ω . | | | | |
|--------------|------------------|----|----|----|----|
| | Gr. | o | i | ii | i | ii |
| 0 | 0 | 0 | 0 | 42 | 46 |
| 1 | 0 | 42 | 46 | 42 | 47 |
| 2 | 1 | 25 | 33 | 42 | 49 |
| 3 | 2 | 8 | 22 | 42 | 51 |
| 4 | 2 | 51 | 13 | 42 | 54 |
| 5 | 3 | 34 | 7 | 42 | 58 |
| 6 | 4 | 17 | 5 | 43 | 2 |
| 7 | 5 | 0 | 7 | 43 | 8 |
| 8 | 5 | 43 | 15 | 43 | 14 |
| 9 | 6 | 26 | 29 | 43 | 22 |
| 10 | 7 | 9 | 51 | 43 | 29 |
| 11 | 7 | 53 | 20 | 43 | 37 |
| 12 | 8 | 36 | 57 | 43 | 47 |
| 13 | 9 | 20 | 44 | 43 | 57 |
| 14 | 10 | 4 | 41 | 44 | 8 |
| 15 | 10 | 48 | 49 | 44 | 20 |
| 16 | 11 | 33 | 9 | 44 | 32 |
| 17 | 12 | 17 | 41 | 44 | 45 |
| 18 | 13 | 2 | 26 | 45 | 0 |
| 19 | 13 | 47 | 26 | 45 | 15 |
| 20 | 14 | 32 | 41 | 45 | 32 |
| 21 | 15 | 18 | 13 | 45 | 48 |
| 22 | 16 | 4 | 1 | 46 | 5 |
| 23 | 16 | 60 | 6 | 46 | 24 |
| 24 | 17 | 36 | 30 | 46 | 43 |
| 25 | 18 | 23 | 13 | 47 | 4 |
| 26 | 19 | 10 | 17 | 47 | 25 |
| 27 | 19 | 57 | 42 | 47 | 47 |
| 28 | 20 | 45 | 29 | 48 | 10 |
| 29 | 21 | 33 | 39 | 48 | 34 |
| 30 | 22 | 22 | 13 | 48 | 58 |

Tab. III. Arcus horizontis a Meridiano & circulo borario interceptus = ω .

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

Tab. IV. Solis Azimuth & Altitudines ad Poli elevationem $45^{\circ} 28' 0''$.

| Hor Ital. | ♌ | | ♍ | | ♎ | |
|--------------|---------|----------|---------|----------|---------|----------|
| | Azimuth | Altitudo | Azimuth | Altitudo | Azimuth | Altitudo |
| | o ' " | o ' " | o ' " | o ' " | o ' " | o ' " |
| 8 | 55 18 | - 0 5 | | | | |
| 9 | 65 37 | + 9 4 | | | | |
| 10 | 75 28 | 13 59 | | | | |
| 11 | 85 24 | 29 20 | | | | |
| 12 | 96 14 | 39 50 | 95 22 | 5 15 | | |
| 13 | 109 17 | 50 5 | 106 27 | 15 34 | | |
| 14 | 127 2 | 59 22 | 118 41 | 25 16 | | |
| 15 | 153 33 | 66 10 | 138 54 | 33 48 | 124 42 | 0 6 |
| 16 | 188 58 | 67 48 | 149 50 | 40 23 | 135 54 | 8 6 |
| 17 | 220 49 | 63 17 | 169 32 | 44 5 | 148 17 | 14 34 |
| 18 | 242 30 | 55 0 | 190 28 | 44 3 | 161 54 | 19 0 |
| 19 | 257 31 | 45 7 | 210 10 | 40 23 | 176 33 | 20 59 |
| 20 | 269 16 | 34 41 | 227 6 | 33 44 | 191 4 | 20 18 |
| 21 | 279 32 | 24 13 | 241 19 | 25 16 | 205 20 | 17 1 |
| 22 | 289 20 | 14 2 | 253 33 | 15 34 | 218 10 | 11 30 |
| 23 | 299 21 | 4 27 | 264 38 | 5 15 | 229 56 | 4 11 |

| Hor. Ital. | Sectio Horizon | | Arg. Ang. hor. | |
|---------------|-------------------|--------|-------------------|-------|
| | o ' " | o ' " | o ' " | o ' " |
| 8 | 55 19 | 116 15 | | |
| 9 | 64 32 | 108 45 | | |
| 10 | 74 25 | 101 15 | | |
| 11 | 84 45 | 93 45 | | |
| 12 | 95 15 | 86 15 | | |
| 13 | 105 35 | 78 45 | | |
| 14 | 115 28 | 71 15 | | |
| 15 | 124 41 | 63 45 | | |

| Hor. Ital. | Sectio Horizon | | Arg. Ang. hor. | |
|---------------|-------------------|-------|-------------------|-------|
| | o ' " | o ' " | o ' " | o ' " |
| 16 | 133 9 | 56 15 | | |
| 17 | 140 54 | 48 45 | | |
| 18 | 147 59 | 41 15 | | |
| 19 | 154 32 | 33 45 | | |
| 20 | 160 38 | 26 15 | | |
| 21 | 166 24 | 18 45 | | |
| 22 | 171 56 | 11 15 | | |
| 23 | 177 19 | 4 45 | | |

Tab. V. *Angulus a Linea Verticali & directione umbræ interceptus & Arcus distantie Solis a zenith Horologii (§§ 6 & 32.) Declinantis a Merid. ad Ortum 65.° Inclinati ad Horizontem 50.°*

| Hor ital. | ☉ | | ☽ | | ♃ | |
|--------------|----------------|------------|----------------|-------------|----------------|-------------|
| | Angulus STZ | Arcus T | Angulus STZ | Arcus TS | Angulus STZ | Arcus TS |
| | o ' " | o ' " | o ' " | o ' " | o ' " | o ' " |
| 8 | 110 39 | 67 19 | . | . | . | . |
| 9 | 111 19 | 53 34 | 132 40 | 82 11 | . | . |
| 10 | 110 3 | 39 51 | 136 26 | 67 38 | . | . |
| 11 | 103 35 | 26 25 | 141 2 | 53 11 | 203 34 | 84 46 |
| 12 | 84 35 | 14 22 | 147 52 | 38 59 | 198 39 | 71 53 |
| 13 | 19 51 | 10 52 | 160 35 | 25 33 | 191 28 | 59 47 |
| 14 | 17 24 | 20 48 | 192 55 | 15 3 | 180 49 | 49 4 |
| 15 | 26 51 | 33 54 | 107 49 | 15 33 | 165 6 | 40 53 |
| 16 | 29 29 | 47 33 | 77 45 | 26 27 | 144 2 | 36 58 |
| 17 | 29 32 | 61 18 | 65 40 | 39 58 | 121 39 | 38 37 |
| 18 | 28 6 | 74 59 | 59 5 | 54 11 | 103 31 | 45 14 |
| 19 | 25 26 | 88 29 | 54 32 | 68 39 | 90 55 | 55 3 |
| 20 | . | . | 50 50 | 83 13 | 88 27 | 66 40 |
| 21 | . | . | . | . | 76 42 | 79 17 |

Pro Sectione Horizontis.

| Hor. ital. | Angulus hTZ | Arcus Th | Hor. ital. | Angulus hTZ | Arcus Th |
|---------------|----------------|-------------|---------------|----------------|-------------|
| | o ' " | o ' " | | o ' " | o ' " |
| 8 | 110 36 | 67 15 | 15 | 194 51 | 40 58 |
| 9 | 117 57 | 60 49 | 16 | 207 1 | 45 17 |
| 10 | 126 53 | 54 26 | 17 | 217 4 | 46 26 |
| 11 | 137 47 | 48 34 | 18 | 225 17 | 50 1 |
| 12 | 150 49 | 43 52 | 19 | 232 5 | 53 27 |
| 13 | 165 33 | 40 55 | 20 | 237 50 | 57 21 |
| 14 | 180 43 | 40 0 | 21 | 242 50 | 61 27 |

Tab. VI. Angulus a Linea Substilarī & directione umbræ interceptus & Arcus distantie Solis a zenith Horologii (§§. 12. & 32.) Declin. a Merid. ad Ortum 65° Inclin. ad Horizontem 50°.

| Hor. Ital. | ☉ | | ☽ | | ♃ | |
|---------------|----------------|-------------|----------------|-------------|----------------|-------------|
| | Angulus PTS | Arcus TS | Angulus PTS | Arcus TS | Angulus PTS | Arcus TS |
| | o ' " | o ' " | o ' " | o ' " | o ' " | o ' " |
| 8 | 69 52 | 67 19 | . | . | . | . |
| 9 | 70 32 | 53 34 | 91 52 | 82 11 | . | . |
| 10 | 69 16 | 39 51 | 95 37 | 67 38 | . | . |
| 11 | 63 47 | 26 25 | 100 15 | 53 12 | 244 21 | 84 46 |
| 12 | 43 47 | 14 22 | 107 4 | 38 59 | 239 27 | 71 53 |
| 13 | 20 57 | 10 52 | 119 49 | 25 33 | 232 16 | 59 47 |
| 14 | 58 12 | 20 48 | 152 7 | 15 3 | 221 36 | 49 4 |
| 15 | 67 39 | 33 54 | 148 37 | 15 33 | 205 53 | 40 53 |
| 16 | 70 17 | 47 33 | 118 32 | 26 27 | 184 49 | 36 58 |
| 17 | 70 20 | 61 18 | 106 28 | 39 58 | 162 26 | 38 37 |
| 18 | 68 54 | 74 59 | 99 52 | 54 11 | 144 18 | 45 14 |
| 19 | 66 14 | 88 29 | 95 20 | 68 39 | 131 43 | 55 3 |
| 20 | . | . | 91 37 | 83 13 | 123 15 | 66 40 |
| 21 | . | . | . | . | 117 29 | 79 17 |

Pro Sectione Horizontis.

| Hor. Ital. | Angulus PTh | | Arcus Th | |
|---------------|----------------|-------|-------------|-------|
| | o ' " | o ' " | o ' " | o ' " |
| | 8 | 69 49 | 67 15 | |
| 9 | 77 9 | 60 49 | | |
| 10 | 86 5 | 54 26 | | |
| 11 | 96 59 | 48 34 | | |
| 12 | 110 2 | 43 52 | | |
| 13 | 124 45 | 40 55 | | |
| 14 | 139 56 | 40 0 | | |

| Hor. Ital. | Angulus PTh | | Arcus Th | |
|---------------|----------------|-------|-------------|-------|
| | o ' " | o ' " | o ' " | o ' " |
| | 15 | 154 4 | 40 58 | |
| 16 | 166 14 | 43 17 | | |
| 17 | 176 16 | 46 26 | | |
| 18 | 184 29 | 50 1 | | |
| 19 | 191 18 | 53 47 | | |
| 20 | 197 5 | 57 37 | | |
| 21 | 202 3 | 61 27 | | |

Tab. VII. Angulus a Subtilari & direktione Umbrae interceptus
& Arcus distantiae Solis a zenith Horologii (§§. 14. & 34.)
Declin. a Merid. ad Occaf. 65° Inclin. ad Horizont. 50°.

| Hor. Ital. | ☉ | | ☿ | | Pro fection. Merid. | | | | | | | |
|---------------|----------------|----|-------------|----|---------------------|----|----|----|-----|----|----|----|
| | Angulus PTS | | Arcus TS | | Angulus PTM | | | | | | | |
| | o | l | o | l | o | l | | | | | | |
| 13 | 67 | 42 | 81 | 53 | 44 | 39 | 48 | 43 | | | | |
| 14 | 69 | 46 | 68 | 14 | 50 | 4 | 47 | 12 | | | | |
| 15 | 70 | 32 | 54 | 32 | 59 | 28 | 45 | 17 | | | | |
| 16 | 69 | 27 | 40 | 49 | 74 | 1 | 44 | 0 | | | | |
| 17 | 64 | 25 | 27 | 20 | 115 | 22 | 85 | 42 | 92 | 54 | 45 | 8 |
| 18 | 46 | 18 | 15 | 6 | 120 | 9 | 72 | 46 | 111 | 54 | 49 | 43 |
| 19 | 16 | 1 | 10 | 33 | 127 | 40 | 61 | 20 | 126 | 31 | 56 | 12 |
| 20 | 56 | 56 | 19 | 56 | 137 | 30 | 49 | 46 | 136 | 13 | 62 | 14 |
| 21 | 67 | 18 | 32 | 57 | 152 | 49 | 41 | 29 | 142 | 14 | 66 | 44 |
| 22 | 70 | 12 | 46 | 34 | 173 | 35 | 37 | 4 | 145 | 42 | 69 | 35 |
| 23 | 70 | 23 | 60 | 20 | 196 | 5 | 38 | 19 | 148 | 7 | 70 | 57 |
| 24 | . | . | . | . | 214 | 22 | 45 | 0 | 148 | 7 | 70 | 57 |
| 25 | . | . | . | . | 227 | 34 | 54 | 18 | 145 | 42 | 69 | 35 |
| 26 | . | . | . | . | 236 | 16 | 65 | 49 | 142 | 14 | 66 | 44 |
| 27 | . | . | . | . | 242 | 12 | 78 | 19 | 136 | 13 | 62 | 14 |

POSITIONES MERCURII

Mensibus Junio & Julio anni 1782.

Observata

Ab ANGELO DE CESARIS.

☿ Xhibeo positiones aliquot mercurii jam anno 1782.
☿ determinatas. Usus sum quadrante murali, quo
etiam observavi Solem & stellas α Coronæ & α Bootis,
ut Planetæ digressiones & ejusdem Ascensio Recta & De-

clinatio innotesceret per differentias temporarias appulsuum ad meridianum, itemque per differentias distantiarum a vertice (*). Qua opus fuit, induxi correctionem ob parallaxim planetæ, & æquationem differentię refractionis. Positiones medię stellarum pertinent ad catalogum La Caille, quæ in apparentes rediguntur tempore observationis per consueta elementa aberrationis, nutationis, & decrementi obliquitatis eclipticæ. Præterea motum singularem Arcturi induxi, cujus motus directionem & quantitatem computavi, juxta determinationes Cl. Tobię Mayer. Qua in re plus me movit summi viri auctoritas, quam discordantia positionum planetæ deductarum ex comparatione cum observationibus Solis & Arcturi: quæ positiones invicem concordarent, si proprius Arcturi motus assumeretur minor eo, quem fecit Clarissimus ille Astronomus. Sed hæc monuisse sit satis. Stellarum positiones, & observationes ita se habent.

| <i>α Coronæ</i> | | <i>α Bootis</i> | |
|----------------------|-------------------|----------------------|-------------------|
| Ascens. Rect. med. | 231.° 22. '12. '' | Ascens. Rect. med. | 211.° 26. '54. '' |
| Aberratio | + 19, | Aberr. | + 6. 6 |
| Nutatio | + 0, 1 | Nutatio | + 0. 0 |
| Decr. obl. eclip. | - 7. 1 | Decr. obl. eclip. | - 7. 1 |
| Ascens. Rect. appar. | 231.° 22. '24. '' | Motus proprius | - 46. 1 |
| Declin. bor. med. | 27. 27. 33, | Ascens. Rect. appar. | 211.° 26. '7. ''4 |
| Aberratio | + 3, 5 | Declin. bor. med. | 20. 20. 22, 2 |
| Nutatio | - 6. 1 | Aberratio | + 7. 8 |
| Declin. bor. appar. | 27.° -7. '30. ''4 | Nutatio | - 2. 9 |
| | | Motus proprius | - 7. 12. 7 |
| | | Declin. bor. appar. | 21.° 19. '12. ''4 |

(*) Distantiæ a vertice, quæ infra sunt positæ æquari debent ob errorem quem dicimus initii numerationis, si distantie ipsæ absolutæ querantur; quam tamen æquationem omitimus, totius computando differentias. Error autem ille est circiter + 40."

| 1782 Dies Jun. | Appulfus Solis ad Meridianum tempore horologii | Appulfus Mercurii ad Merid. tempore horologii | Appulfus α Coronæ ad Merid. tempore horologii | Diffantia a vertice limbi Superioris Solis | Diffantia a vertice Mercurii |
|----------------------|--|---|---|--|------------------------------------|
| | h m s | h m s | h m s | o m s | o m s |
| 2 | 11. 40. 15.0 | 0. 35. 48.1 | 10. 22. 18.0 | 22. 56. 9 | 20. 12. 47 |
| 3 | 11. 40. 22.5 | 0. 40. 31.9 | 10. 18. 20.0 | 22. 48. 45 | 20. 5. 6 |
| 4 | 11. 40. 29.5 | 0. 45. 6.0 | 10. 14. 21.5 | 22. 41. 40 | 19. 59. 56 |
| 5 | 11. 40. 37.3 | 0. 49. 30.7 | 10. 10. 23.0 | 22. 34. 57 | 19. 57. 19 |
| 6 | 11. 40. 45.3 | 0. 53. 44.0 | 10. 6. 23.7 | 22. 28. 43 | 16. 57. 9 |
| 7 | 11. 40. 53.5 | 0. 57. 46.2 | 10. 2. 24.5 | 22. 22. 57 | 19. 59. 8 |
| 9 | 11. 41. 8.0 | 1. 5. 14.3 | 9. 54. 25.0 | 22. 12. 10 | 20. 9. 34 |
| 10 | 11. 41. 15.7 | 1. 8. 40.5 | 9. 50. 25.0 | 22. 7. 30 | 20. 17. 40 |
| 11 | 11. 41. 23.3 | 1. 11. 53.2 | 9. 46. 25.0 | 22. 3. 17 | 20. 27. 37 |
| 12 | 11. 41. 31.3 | 1. 14. 53.2 | 9. 42. 24.2 | 21. 59. 22 | 20. 39. 19 |
| 15 | 11. 41. 53.7 | 1. 22. 33.2 | 9. 30. 21.0 | . . . | 21. 22. 55 |
| 16 | 11. 42. 1.0 | 1. 24. 39.5 | 9. 26. 20.0 | 21. 48. 1 | 21. 40. 0 |
| 17 | 11. 42. 8.2 | 1. 26. 32.0 | 9. 22. 18.5 | 21. 46. 4 | 21. 58. 15 |
| 18 | 11. 42. 15.8 | 1. 28. 11.0 | 9. 18. 16.0 | 21. 44. 47 | 22. 17. 21 |
| 19 | 11. 42. 22.9 | 1. 29. 35.0 | 9. 14. 15.0 | 21. 43. 42 | 22. 37. 21 |
| 20 | 11. 42. 29.5 | 1. 30. 45.2 | 9. 10. 12.0 | 21. 43. 7 | 22. 53. 17 |
| 21 | 11. 42. 35.8 | 1. 31. 41.5 | 9. 6. 10.0 | 21. 43. 9 | 23. 19. 40 |
| 24 | 11. 42. 55.3 | 1. 33. 2.7 | 7. 34. 33.0 | 21. 44. 51 | 24. 26. 47 |
| 25 | 11. 43. 1.7 | 1. 33. 0.0 | 7. 30. 31.0 | 21. 46. 19 | 24. 49. 51 |
| 26 | 11. 43. 7.5 | 1. 32. 42.0 | 7. 26. 28.5 | 21. 48. 16 | 25. 12. 54 |
| 27 | 11. 43. 13.5 | 1. 32. 8.8 | 7. 22. 26.3 | 21. 50. 35 | 25. 36. 14 |
| 28 | 11. 43. 19.3 | 1. 31. 20.0 | 7. 18. 24.1 | . . . | 25. 59. 20 |
| 30 | 11. 43. 31.1 | 1. 28. 55.0 | 7. 10. 20.4 | . . . | 26. 44. 49 |
| Jul. | | | | | |
| 2 | 11. 43. 42.7 | 1. 25. 23.6 | 7. 2. 16.9 | 22. 8. 6 | 27. 28. 51 |
| 3 | 11. 43. 48.0 | 1. 23. 11.8 | 6. 58. 15.2 | 22. 12. 54 | 27. 49. 54 |
| 5 | 11. 43. 59.9 | 1. 17. 57.0 | 6. 50. 13.9 | . . . | 28. 30. 2 |
| 6 | 11. 44. 5.5 | 1. 14. 53.0 | 6. 46. 14.0 | 22. 29. 35 | 28. 48. 33 |

Diffantia a vertice Coronæ 17° 59' 39". Diffantia a vertice α Bootis 2° 7' 13"

| 1782 Dies Jan. | Tempus verum observationis Mercurii feu differentia Ascens. rectæ Mercurii & Solis | Differentia Ascensionis Rectæ Mercurii & α Coronæ | Ascensio Rectæ Mercurii ex obser. Solis | Ascensio Rectæ Mercurii ex obser. α Coronæ & α Bootis |
|----------------------|--|--|---|---|
| | h ' " | h ' " | h ' " | h ' " |
| 2 | 0.55.33,1 == 13.55.35 | 9.46.30,0 == 147. 1.46 | 84.20.43 | 84.20.16 |
| 3 | 1. 0. 9,4 == 15. 4.51 | 9.37.48,1 == 144.50.55 | 86.31.30 | 86.31.29 |
| 4 | 1. 4.36,5 == 16.11.49 | 9.29.15,5 == 142.42.37 | 88.40. 5 | 88.39.55 |
| 5 | 1. 8.53,4 == 17.16.13 | 9.20.52,3 == 140.36.20 | 90.46.12 | 90.46. 0 |
| 6 | 1.12.58,7 == 18.17.42 | 9.12.39,7 == 138.32.57 | 92.49.20 | 92.49.27 |
| 7 | 1.16.53,7 == 19.16.37 | 9. 4.38.3 == 136.32.19 | 94.50.17 | 94.50. 5 |
| 19 | 1.24. 6,3 == 21. 5. 5 | 8.49.10,7 == 132.59.46 | 98.42.45 | 98.42.38 |
| 10 | 1.27.24,8 == 21.54.51 | 8.41.44,5 == 130.47.56 | 100.34.37 | 100.34.29 |
| 11 | 1.30.29,9 == 22.41.26 | 8.34.31,8 == 128.59.26 | 102.23.12 | 102.22.57 |
| 12 | 1.33.21,9 == 23.24.22 | 8.27.31,0 == 127.14. 0 | 104. 8.31 | 104. 8.24 |
| 15 | 1.40.39,5 == 25.14. 4 | 8. 7.47,8 == 122.17.21 | 109. 5. 6 | 109. 5. 3 |
| 16 | 1.42.38,5 == 25.43.53 | 8. 1.40,5 == 120.45.17 | 110.17.16 | 110.37. 7 |
| 17 | 1.44.23,8 == 26.10.17 | 7.55.46,5 == 119.16.34 | 112. 6. 2 | 112. 5.50 |
| 18 | 1.45.55,3 == 26.33.15 | 7.50. 5,7 == 117.51. 8 | 113.31.23 | 113.31.16 |
| 29 | 1.47.12,1 == 26.52.29 | 7.44.40,0 == 116.29.30 | 114.53. 0 | 114.52.54 |
| 20 | 1.48.15,7 == 27. 8.26 | 7.39.27,6 == 115.11.12 | 116.11.20 | 116.11.12 |
| 1 | 1.49. 5,8 == 27.20.59 | 7.34.28,8 == 113.68.17 | 117.26.16 | 117.26. 7 |
| | | α Bootis | | |
| 24 | 1.50. 7,4 == 27.36.25 | 6. 1.30,5 == 90.37.51 | 120.48.45 | 120.48.17 |
| 25 | 1.49.58,4 == 27.34.10 | 5.57.31,0 == 89.37.49 | 121.48.48 | 121.48.19 |
| 26 | 1.49.34,5 == 27.28.11 | 5.53.46,5 == 88.41.31 | 122.45. 5 | 122.44.57 |
| 27 | 1.48.55,3 == 27.18.21 | 5.50.17,5 == 87.49. 6 | 123.57.29 | 123.57. 3 |
| 28 | 1.48. 0,7 == 27. 4.39 | 5.47. 4,1 == 87. 0.36 | 124.25.59 | 124.25.32 |
| 30 | 1.45.23,9 == 26.25.20 | 5.41.25,2 == 85.35.34 | 125.50.57 | 125.50.34 |
| Jul. | | | | |
| 2 | 1.41.41,0 == 25.29.28 | 5.36.53,3 == 84.27.28 | 126.59. 7 | 126.58.40 |
| 3 | 1.39.23,8 == 24.55. 4 | 5.35. 3,4 == 83.59.51 | 127.26.39 | 127.26.17 |
| 5 | 1.33.57,1 == 23.33.10 | 5.32.16,9 == 83.18. 6 | 128. 8.25 | 128. 8. 2 |
| 6 | 1.30.47,5 == 22.45.36 | 5.31.21,0 == 83. 4. 4 | 128.22.34 | 128.22. 4 |

| 1782 Dies Junii | Tempus Verum Observat. Mercurii | Differentia Declinationis + differ. refract. Centri Solis & Mercurii | Declinat. Mercurii ex Declinatione Solis | Different. Declinat. + differ. refract. & parallaxis Mercurii & Stellar. α Coronæ & α Bootis | Declinat. Mercurii ex observ. Stellarum α Coronæ & α Bootis |
|-----------------------|--|---|---|--|---|
| 2 | h m s 0. 55. 33.1 | + 2. 59. 12 | 25. 14. 8 | - 2. 13. 8 | 25. 14. 22 |
| 3 | 1. 0. 9.4 | + 2. 59. 29 | 25. 21. 53 | - 2. 5. 27 | 25. 22. 3 |
| 4 | 1. 4. 36.5 | + 2. 57. 34 | 25. 27. 3 | - 2. 0. 17 | 25. 27. 13 |
| 5 | 1. 8. 53.4 | + 2. 53. 28 | 25. 29. 38 | - 1. 57. 40 | 25. 29. 50 |
| 6 | 1. 12. 58.7 | + 2. 47. 24 | 25. 29. 51 | - 1. 57. 30 | 25. 30. 0 |
| 7 | 1. 16. 53.7 | + 2. 39. 29 | 25. 27. 50 | - 1. 59. 29 | 25. 28. 2 |
| 9 | 1. 24. 6.3 | + 2. 18. 25 | 25. 17. 22 | - 2. 9. 54 | 25. 17. 36 |
| 10 | 1. 27. 24.9 | + 2. 7. 39 | 25. 9. 17 | - 2. 18. 0 | 25. 9. 30 |
| 11 | 1. 30. 29.9 | + 1. 51. 29 | 24. 59. 24 | - 2. 27. 58 | 24. 59. 32 |
| 12 | 1. 33. 21.9 | + 1. 35. 52 | 24. 47. 40 | - 2. 39. 40 | 24. 47. 50 |
| 15 | 1. 40. 29.5 | - 0. 23. 47 | 23. 46. 58 | - 3. 23. 17 | 24. 4. 13 |
| 16 | 1. 42. 38.5 | + 0. 23. 47 | 23. 46. 58 | - 3. 40. 22 | 23. 47. 8 |
| 17 | 1. 44. 13.8 | + 0. 3. 35 | 23. 28. 35 | - 3. 58. 38 | 23. 28. 52 |
| 18 | 1. 45. 55.3 | - 0. 16. 57 | 23. 9. 28 | - 4. 17. 49 | 23. 9. 37 |
| 19 | 1. 47. 12.1 | - 0. 37. 56 | 22. 49. 30 | - 4. 37. 47 | 22. 49. 43 |
| 20 | 1. 48. 15.7 | - 0. 59. 20 | 22. 28. 42 | - 4. 58. 36 | 22. 28. 54 |
| 21 | 1. 49. 5.8 | - 1. 21. 1 | 22. 7. 12 | - 5. 20. 5 | 22. 7. 25 |
| | | | α Bootis | | α Bootis |
| 24 | 1. 50. 7.4 | - 2. 26. 13 | 21. e. 3 | + 0. 40. 30 | 20. 59. 42 |
| 25 | 1. 49. 58.4 | - 2. 47. 49 | 20. 36. 58 | + 0. 17. 25 | 20. 36. 37 |
| 26 | 1. 49. 34.5 | - 3. 8. 55 | 20. 13. 58 | - 0. 5. 37 | 20. 13. 35 |
| 27 | 1. 48. 55.3 | - 3. 29. 57 | 19. 50. 38 | - 0. 28. 58 | 19. 50. 14 |
| 28 | 1. 48. 0.7 | | | - 0. 52. 4 | 19. 27. 8 |
| 30 | 1. 45. 23.9 | | | - 1. 37. 34 | 18. 41. 38 |
| Julii | | | | | |
| 2 | 1. 41. 41.0 | - 5. 5. 5 | 17. 57. 53 | - 2. 21. 37 | 17. 57. 25 |
| 3 | 1. 39. 23.8 | - 5. 21. 21 | 17. 36. 52 | - 2. 42. 40 | 17. 36. 33 |
| 5 | 1. 33. 57.1 | | | - 3. 22. 49 | 16. 56. 23 |
| 6 | 1. 30. 47.5 | - 6. 3. 20 | 16. 38. 14 | - 3. 41. 21 | 16. 27. 51 |

| 1782 Dies Jun. | Tempus medium observat. Mercurii | | | Longitudo Mercurii ex observat. comparatis Solis | | | Longitudo apparens Solis | | | Elongatio Mercurii a Sole | | | Latitudo Mercurii ex observ. comparatis Solis | | | | | |
|----------------------|---|----|----|--|-----|----|--------------------------------|-----|-----|---------------------------------|-----|-----|---|----|-----|----|----|--|
| | h | l | '' | g | o | l | '' | g | o | l | '' | o | l | '' | o | l | '' | |
| 2 | 55. | | | 24. | 53. | 2 | 2. | 11. | 57. | 56 | 12. | 55. | 6 | 1. | 51. | 56 | B | |
| 3 | 57. | 50 | | 26. | 51. | 31 | 2. | 12. | 55. | 3 | 13. | 55. | 58 | 1. | 55. | 56 | | |
| 4 | 2. | 27 | | 28. | 47. | 45 | 2. | 13. | 53. | 7 | 14. | 54. | 41 | 1. | 59. | 10 | | |
| 5 | 6. | 54 | | 0. | 41. | 44 | 2. | 14. | 50. | 40 | 15. | 51. | 4 | 2. | 1. | 31 | | |
| 6 | 11. | 10 | | 2. | 33 | 4 | 2. | 15. | 48. | 1 | 16. | 44. | 51 | 2. | 3. | 8 | | |
| 7 | 15. | 16 | | 4. | 22. | 12 | 2. | 16. | 45. | 4 | 17. | 36. | 27 | 2. | 3. | 59 | | |
| 9 | 22. | 52 | | 7. | 52. | 37 | 2. | 18. | 40. | 46 | 19. | 11. | 51 | 2. | 3. | 26 | | |
| 10 | 26. | 22 | | 9. | 34 | 12 | 2. | 19. | 38. | 1 | 19. | 55. | 57 | 2. | 3. | 8 | | |
| 11 | 29. | 34 | | 11. | 13. | 5 | 2. | 20. | 35. | 4 | 20. | 37. | 23 | 2 | 0. | 5 | | |
| 12 | 32. | 44 | | 12. | 49. | 20 | 2. | 21. | 33. | 9 | 21. | 16. | 11 | 1. | 57. | 8 | | |
| 15 | 40. | 39 | | 17. | 22. | 46 | 2. | 24. | 25. | 21 | 22. | 57. | 25 | 1. | 44. | 35 | | |
| 16 | 42. | 52 | | 18. | 48. | 32 | 2. | 25. | 22. | 43 | 23. | 25. | 49 | 1. | 39. | 2 | | |
| 17 | 44. | 50 | | 20. | 11. | 42 | 2. | 26. | 20. | 3 | 23. | 51. | 39 | 1. | 32. | 39 | | |
| 18 | 46. | 34 | | 21. | 32 | 8 | 2. | 27. | 17. | 2 | 24. | 14. | 47 | 1. | 25. | 52 | | |
| 19 | 48. | 4 | | 22. | 49. | 30 | 2. | 28. | 14. | 40 | 24. | 34. | 50 | 1. | 18. | 27 | | |
| 20 | 48. | 20 | | 24. | 4. | 20 | 2. | 29. | 11. | 55 | 24. | 52. | 25 | 1. | 10. | 21 | | |
| 21 | 49. | 23 | | 25. | 16. | 55 | 3. | 0. | 9. | 11 | 25. | 7. | 14 | 1. | 1. | 40 | | |
| 24 | 52. | 4 | | 28. | 34. | 10 | 3. | 3. | 0 | 4 | 25. | 33. | 21 | 0. | 32. | 17 | | |
| 25 | 52. | 8 | | 29. | 33. | 50 | 3. | 3. | 58. | 1 | 25. | 35. | 49 | 0. | 21. | 20 | | |
| 26 | 51. | 56 | | 0 | 30. | 18 | 3. | 4. | 55. | 10 | 25. | 35. | 8 | 0. | 10. | 4 | | |
| 27 | 51. | 29 | | 1. | 23. | 27 | 3. | 5. | 57. | 19 | 25. | 31. | 8 | 0. | 1. | 58 | A | |
| 28 | 50. | 47 | | 2. | 13. | 6 | 3. | 6. | 49. | 27 | 25. | 23. | 39 | 0. | 14. | 17 | | |
| 30 | 48. | 34 | | 3. | 41. | 43 | 3. | 8. | 41. | 42 | 24. | 58. | 1 | 0. | 40. | 13 | | |
| Jul. | | | | | | | | | | | | | | | | | | |
| 2 | 45. | 14 | | 4. | 55. | 2 | 3. | 10. | 37. | 58 | 24. | 17. | 4 | 1. | 7. | 47 | | |
| 3 | 43. | 94 | | 5. | 25. | 33 | 3. | 11. | 35. | 3 | 23. | 50. | 28 | 1. | 21. | 51 | | |
| 5 | 38. | 24 | | 6 | 14. | 2 | 3. | 13. | 29 | 18 | 22 | 44. | 44 | 1. | 51. | 1 | | |
| 6 | 35. | 34 | | 6. | 31. | 46 | 3. | 14. | 26. | 23 | 22. | 5. | 23 | 2. | 5. | 37 | | |

OPPOSITIO MARTIS

observata mense Octobris anni 1783.

Ab ANGELO DE CESARIS.

Planetam & stellas η Antinoi & α Aquarii observa-
vi, cum ad quadrantem muralem appellerent in me-
ridiano. Observationes perpaucae cesserunt ad votum:
dolui plures nubibus interceptas. Distantias Martis a ver-
tice imminui, ob illius parallaxim, quam supputavi =
15," 2, ne deinceps ab eadem afficiantur longitudines &
latitudines planetæ. Equavi item, qua opus fuit, exiguas
differentias refractionum. Stellarum positiones medias as-
sumpsi ex catalogo La Caille: eadem apparentes, ineun-
te Octobre anni 1783, ita se habent. η Antinoi Ascen-
sio Recta 295.° 22.' 0," 6: Declinatio Borealis 0.° 27.' 55," 6.
 α Aquarii A. R. 328.° 40.' 26," 1: Declinatio Australis
1.° 21.' 42," 1. Observationes sunt ut infra.

| Dies | Appulsus η | Appulsus α | Different. | Ascens. Rectæ | Diff. Declin. |
|---------|-----------------|-------------------|-------------|---------------|---------------|
| 1733 | h' i' " | h' i' " | h' i' " | o' i' " | o' i' " |
| 29 Sep. | 7. 1. 5,7 | 11. 57. 9. | 4. 56. 3,2 | 74. 12. 59 | - 0. 53. 27,4 |
| 2 Oct. | 6. 49. 15,7 | 11. 41. 42. | 4. 52. 26,3 | 73. 18. 35 | - 1. 4. 45,5 |
| 3 | 6. 45. 19,6 | 11. 36. 34. | 4. 51. 14,4 | 73. 0. 34 | - 1. 8. 24,6 |
| 4 | 6. 41. 23,3 | 11. 31. 26,7 | 4. 50. 3,4 | 72. 42. 45 | - 1. 11. 40,1 |
| Dies | App. α | Appulsus η | Different. | Ascens. Rectæ | Diff. Declin. |
| 29 Sep. | 9. 13. 57,7 | 11. 57. 9. | 2. 43. 11,3 | 40. 54. 33 | + 0. 56. 2,0 |
| 2 Oct. | 9. 2. 7,7 | 11. 41. 42. | 2. 39. 34,3 | 40. 0. 9 | + 0. 44. 44,3 |
| 3 | 8. 58. 11,7 | 11. 36. 34. | 2. 38. 22,3 | 39. 42. 6 | + 0. 41. 5,0 |
| 4 | 8. 54. 15,3 | 11. 31. 26,7 | 2. 37. 11,4 | 39. 24. 18 | + 0. 37. 49,3 |

| Dies | Tem. ver | A. R. σ^{α} ex η | A. R. σ^{α} ex α | Decl. σ^{α} ex η | Decl. σ^{α} ex α |
|---------|--------------------------|-----------------------------------|-------------------------------------|-----------------------------------|-------------------------------------|
| 1783 | h i " | o i " | o i " | o i " | o i i i |
| 29 Sep. | 12.13.50. | 9.35. 0 | 9.34.59 | 0.25.32 A | 0.25.30 A |
| 2 Oct. | 11.59.21,5 | 8.40.36 | 8.40 35 | 0.36.50 | 0.36 58 |
| 3 | 11.54 32,3 | 8.22 35 | 8.22.32 | 0.40.29 | 0.47.37 |
| 4 | 11.49 43,4 | 8. 4.46 | 8. 4.44 | 0.43.45 | 0.45 53 |
| | Tem. ver | Sep. h i " | Oct. h i " | Oct. h i " | Oct. h i m |
| | | 29.12 14 50 | 2.11.59 21,5 | 1. 54 32,3 | 4.11.49.43.4 |
| | Longit σ^{α} | 5 0 1 " | 5 0 1 " | 5 0 1 m | 5 0 1 m |
| | Latit. σ^{α} | 4.11.38 A | 4. 0.35 A | 3.56.49 A | 3.52.47 A |

Oppositio planetæ locum habuit ad diem 1. Octobris, qua die meridiani Solis longitudo apparens est in ephemeridibus, $6^{\circ} 8' 8'' 15''$; ejusdem longitudo vera $6^{\circ} 8' 8'' 31'' 2$. Longitudo Martis, eodem meridiei momento servatis proportionibus deducta ex prima & secunda observatione, & correcta ob nutationem & aberrationem est $0^{\circ} 8' 10' 43'' 7$, unde habetur distantia ab oppositione = $+ 2' 12'' 5$. Cumque sit motus Solis diurnus = $59' 6''$; motus diurnus Martis ex prima & secunda observatione computatus = $- 18' 15'' 4$; motus utriusque relativus = $4641'' 4$, erit $24^h \times \frac{2' 12'' 5}{4641'' 4} = 41' 6''$ intervallum temporis, quo

oppositio subjecta est meridiem diei 1. Octobris, & tempus medium oppositionis die 1. Octobris $0^h 30' 44''$
 Eodem tempore Longitudo vera Solis $6^{\circ} 8' 10' 12'' 4$
 Longitudo heliocentrica Martis ex obser. $0^{\circ} 8' 10' 12,4$
 Longitudo heliocen. Martis ex tab. Halley $0^{\circ} 8' 8' 0,5$
 Longitudo helioc. Martis ex tab. La Lande $0^{\circ} 8' 11' 9,9$
 Latitudo geocentrica Martis ex observ. $4^{\circ} 6' 7,5 A$
 Latitudo geocentr. Martis ex tab. Halley $4^{\circ} 8' 2,0 A$
 Latitudo geoc. Martis ex tab. La Lande $4^{\circ} 6' 49,0 A$

CONJUNCTIONES VENERIS GUM SOLE

annis 1782. & 1783. observatæ

ab ANGELO DE CESARIS.

X pluribus observationibus Veneris, quas in privatis commentariis conditas premo, dum fiat otium, quo possim dare operam, iisdem in meliorem formam redigendis, conjunctiones binas seligo, quas observavi annis 1782. & 1783. Harum primam jam dedi in fine dissertationis editæ in Actis Societatis Italicæ, aliquot præmissis animadversionibus, quæ nunc ad rem non pertinent. At quia tunc loca observata contuli cum locis supputatis ex tabulis D. La Lande, quin ullam mentionem fecerim mutationum, quas in iisdem tabulis, post annos aliquot, idem Clarissimus auctor induxit, in quarto volumine sui operis *Astronomie* ec.; eo libentius observationem hanc iterum exscribo, quo possim eam hic exponere, & tabulas tabulis conferre atque ostendere, novissimas habere errores duplo fere minores, quam forent in primis. Qui errores ut evanescant omnino optamus sed non confidimus.

Venerem ad quadrantem muraiem observavi. Et si vero eadem, disco illuminato averso a terra, solaribus radiis immersa, perexiguam phasim adspiciendam offerret, quæ phasis evanescente angulo elongationis, erat ad radium ut dimidius sinus versus latitudinis heliocentricæ, sive proxime pars centesima faciei lucidæ; tamen observationibus tantum favit tum præstantia atque apparatus instrumenti, tum circumstantia maximæ latitudinis planetæ, ut eundem videre potuerim eo fere ipsissimo tempore quo erat

in meridiano cum Sole. Observavi etiam stellam β Canis minoris in eodem parallelo quo, plus minus, versabatur Venus, atque differentias ascensionum rectarum deduxi ex appulsibus ad tria fila micrometri. Differentias declinationum æquavi ob minimas etiam differentias refractionum, & ob parallaxim planetæ, quæ in iis supra horizontem altitudinibus erat = 18".4: ejusdem semidiametrum feci = 31"; atque reducendo momenta appulsuum ad centrum planetæ, rationem habui positionis segmenti lucidi, quod varie inclinatum pertingebat ad meridianum. Ascensio recta & Declinatio apparens stellæ desumpta ex catalogo La Caille, 108.° 50.' 0." 2, & 8.° 43.' 1." 7.

| 1782 Martii | Tempus verum observat. ♀ | Differentia Ascensionum Rectæ ♀ & β Canis | Ascensio Recta ♀ | Different. declinat. + refr. + par. β & ♀ | Declin. Boreal. ♀ | |
|----------------|-----------------------------------|--|---------------------|---|-------------------------|------------------|
| 11 | h i '' 0.41.15,0 | h i '' 7.5.39,4 | o i '' 106.42.9 | o i '' 2.7.51 | o i '' + 1.18.53 | o i '' 10 2.0 |
| 14 | 0.24.30,0 | 7.11.26,5 | 108.9.21 | 0.40.39 | + 0.51.37 | 9 34.39 |
| 18 | 0.1.22,8 | 7.20.1,5 | 110.18.18 | 358.31.42 | - 0.3.45 | 8.39.17 |
| 18 | 23.55.31,9 | 7.22.14,2 | 110.51.32 | 357.58.28 | - 0.20.43 | 8.22.19 |
| 19 | 23.49.42,6 | 7.24.26,2 | 111.24.35 | 357.25.25 | - 0.38.33 | 8.4.29 |
| 20 | 23.43.54,0 | 7.26.37,4 | 111.57.26 | 356.52.34 | - 0.57.16 | 7.45.46 |

| 1782 Martii | Tempus medium observation. ♀ | Longitudo vera Solis | Longitudo observata ♀ | Elongatio ♀ a Sole | Latitudo observata ♀ |
|----------------|---------------------------------------|-------------------------|-----------------------------|-----------------------|----------------------------|
| 11 | h i '' 0.51.26,7 | s o i '' 11.21.5.49 | s o i '' 0.5.58.28 | o i '' + 14.52.39 | o i '' 8.19.42 |
| 14 | 0.33.52,0 | 11.24.4.23 | 0.4.27.49 | + 10.23.26 | 8.29.16 |
| 18 | 0.9.34,8 | 11.28.1.55 | 0.2.7.26 | + 4.5.31 | 8.29.47 |
| 19 | 0.3.25,8 | 11.29.1.14 | 0.1.20.14 | + 2.29. | 8.27.33 |
| 19 | 23.57.18,4 | 0.0.0.29 | 0.0.52.34 | + 0.52. | 58.24.34 |
| 20 | 23.51.11,5 | 0.0.59.45 | 0.0.14.55 | - 0.44.48 | 8.20.23 |

Uti apparet ex superioribus positionibus, Conjunctio Veneris media est inter postremas duas observationes. Porro tempus verum T , quod ipsis interfuit est $23^{\text{h}} 54.' 11''$; motus Solis $M = + 59.' 24''$; motus Veneris $M' = + 37.' 39''$; distantia D Veneris a conjunctione = $- 44.' 48''$; erit ergo tempus quo conjunctio præcessit ob-

ervationem diei 20 $T' = \frac{T \times D}{M + M'} = 11^{\text{h}} 3.' 18''$: tempus verum conjunctionis 20. Martii $12^{\text{h}} 40.' 36''$: locus conjunctionis = longitudini Solis tempore ultimæ observatio-

nis $-\frac{M \times T'}{T} = 0.^{\circ} 0.' 59.' 43.'' - 27.' 23.'' = 0.^{\circ} 0.' 32.' 20.''$

Eodem modo habebitur latitudo quæ respondet tempori conjunctionis, sed quæ corrigenda erit per secundas differentias, ob inæquales differentias primas, quibus eadem decrevit. Erit autem, factis reductionibus = $8.^{\circ} 23. 30.''$

Positiones easdem supputavi ex tabulis La Lande; ex iisdem correctis, & ex tabulis Halley: errores seu differentias longitudinum heliocentricas ad geocentricas reduxi in ratione reciproca distantiarum Veneris a terra & a Sole, quæ erant proxime ut 278: 719. Sic autem se habent Conjunctio inferior ♀ cum Sole 1782. 20. Martii tempore medio $12^{\text{h}} 47.' 59.''$

Longitudo ♀ heliocentrica ex observationibus $6.^{\circ} 0.' 32.' 20.''$

Longitudo ♀ heliocentrica ex tabulis La Lande $6. 0. 30. 35.$

Longitudo ♀ heliocent. ex iisd. tab. correctis $6. 0. 31. 22.'$

Longitudo ♀ heliocentrica ex tab. Halley $6. 0. 31. 18.$

Differentiæ heliocentricæ inter observ. & supp. = $1.' 45''$;

= $0.' 58''$; = $1.' 2''$

Differentiæ geocentricæ + 4.' 32." + 2.' 30." + 2.' 40"
 Latitudo geocentrica ♀ ex observatione 8.° 23.' 30."
 Latitudo geocentrica ♀ ex tabulis La Lande 8. 22. 21.
 Latitudo geocentrica ♀ ex iisdem tab. correctis 8. 22. 41.
 Latitudo geocentrica ♀ ex tabulis Halley 8. 22. 35.
 Differentiæ—1.' 9";—0.' 49," & — 0.' 55"

Sequente anno 1783. inferior conjunctio Veneris cum Sole iterum locum habuit, prope limites maximæ latitudinis. Planetam duobus continuis diebus, qui phenomenon interciperent felici exitu observavi, ope sectoris æquatorialis, cujus telescopium acromaticum longe antefero telescopio quadrantis muralis. Diebus vero reliquis nulla contra autumnales nebulas aut diligentia aut constantia valuit. Observationes ipsas in meridiano non habui: quare id etiam incommodi accessit ut parallaxim haberem afficientem non solum declinationes, quod accidit in meridiano juxta unam eandemque directionem altitudinis, sed declinationes ipsas varie, & ascensiones rectas pro ratione variatarum inclinationum ad planum verticale. Parallaxim itaque horizontalem Veneris computavi ex parallaxi Solis atque reciproce ab utriusque distantia terra, illamque inveni 31," 8. Ex hac deduxi parallaxim ascensionis rectæ, quæ est

$$= \text{parall. hor.} \times \frac{\sin. \text{ang. hor.} \times \text{cof. lat.}}{\text{cof. declin.}} \quad \& \quad \text{parallaxim declinationis, quæ est} = \text{par. hor.} \times \frac{\text{cof. lat.} - \text{cof. dist. zen.} \times \sin. \text{decl.}}{\text{cof. declin.}}$$

Declinationi definiendæ observavi limbum superiorem planetæ, ejusque semidiametrum feci 31" quam tamen auxi ad 32," 5

divisione per cosinum declinationis stellæ, ut ascensionem rectam limbi præcedentis, quem observavi, transferrem ad centrum. Reliqua quæ pertinent ad observationis computationem sunt uti infra.

Ascensio recta apparens γ Capri $322^{\circ} 1.' 19'' 3$; ejus Declinatio Australis $17^{\circ} 37.' 50'' 0$.

die 20. Octobris Appulfus ad festorem die 21. Octobris

| Venus | | | γ Capri | | | Differentia | | | Venus | | | γ Capri | | | Differentia | | |
|-------|------|-----|----------------|-----|------|-------------|------|-----|-------|-----|------|----------------|-----|------|-------------|-----|------|
| h | i | '' | h | i | '' | h | i | '' | h | i | '' | h | i | '' | h | i | '' |
| 1. | 6. | 5,0 | 52. | 48. | 37. | 46. | 43. | 3 | 0. | 24. | 12,7 | 8. | 12. | 58,2 | 7. | 48. | 45,5 |
| 6 | 31,7 | 53. | 14.8 | 46. | 43,1 | 24. | 35,1 | 13. | 21,0 | 48. | 45,9 | 25. | 1,7 | 13. | 47,2 | 48. | 45,5 |
| 6. | 58,0 | 53. | 41,3 | 46. | 43,3 | 25. | 27,7 | 14. | 12,7 | 48. | 46,0 | | | | | | |

| | | | | | | |
|--------------|------------|--------------------------------|------------------------------------|--------------|--------|--------------|
| 20. Octobris | h i '' | 1.18 22,3 | Tempus ver. obser. | 21. Octobris | h i '' | 0 37. 3,6 |
| 7.46.43.2 | — | 117. 0. 9, | Diff Asc. Rect. \odot & γ | 77.48.45.7 | — | 117. 30. 54, |
| + | 7.8 | Parall. Ascen Rect. | + | 3,1 | | |
| + | 32.5 | Semidiam. auct. &c. | + | 32,5 | | |
| 205. | 1.50,6 | Ascen. Rect. Veneris | | 204.31. 0,9 | | |
| + | 3.15,0 | Diff Declin \odot & γ | — | 17.49,0 | | |
| + | 0.3 | Different. Refract. | — | 1,5 | | |
| — | 27,1 | Parallax. Declinat. | — | 28,0 | | |
| + | 31,0 | Semidiater \odot . . . | + | 31,0 | | |
| | 17.41. 9,2 | Declinat. Austr. \odot | | 17.20. 2,5 | | |
| 6.5 | 29 36 57,0 | Long. vera \odot obser. | 6.5 | 29. 1.38,0 | | |
| 6. | 27. 0.49,1 | Longit. vera Solis | 6. | 27.58.54,3 | | |
| + | 2.36. 7,9 | Elong. Vener. a Sole | + | 1. 2.43,7 | | |
| | 6.47 0, | Lat. \odot Austr. observ. | | 6.38. 2, | | |

Ex his jam habetur tempus a prima ad secundam observationem $T = 23.^h 18.' 41'',3$; motus Solis M

= + 58.' 5,"2; motus Veneris $M' = - 35.' 19."$; distantia D Veneris a conjunctione + 1.° 2.' 43,"7, unde erit tempus quo conjunctio subsecuta est observationem

diei 21. $T' = \frac{T \times D}{M + M'} = 15.^h 39.' 21."$; tempus verum

conjunctionis 1783. 21. Octobris $16.^h 16.' 25."$ = $16.^h 1.' 3."$ temporis medii, & locus conjunctionis = longitudini Solis

+ $\frac{M \times T'}{T} = 6.^s 27.^o 58.' 54,"3 + 39.' 0,"6 = 6.^s 28.^o 37.' 54,"9$

= longitudini Veneris - $\frac{M' \times T'}{T} = 6. 29.^o 1.' 38,"$

- 23.' 43,"1 = $6.^s 28.^o 37.' 54,"9$: latitudo Veneris Australis $6.^o 31.' 49."$ Erit itaque

| | Tempore primæ observation | Tempore secundæ observat. | Tempore Conjunctionis |
|---|---------------------------|---------------------------|-----------------------|
| Longitudo vera ☿ observata | 6.29.36.57 | 6.29. 1.38 | 6.28.37.55 |
| Longitudo vera ☿ ex tab. La Lande | 6.29.38.44 | 6.29. 2.26 | 6.28.37.19 |
| Longitudo vera ☿ ex tab. Halley | | | 6.28.35.39 |
| Latitudo ☿ observata | 6.47. 1 | 6.38. 3 | 6.31.49 |
| Latitudo ☿ ex tab. La Lande | 6.46. 2 | 6.36.55 | 6.30.37 |
| Latitudo ☿ ex tab. Halley | | | 6.30.17 |



OBSERVATIONES SATELLITUM JOVIS

habitæ tubo achromatico Dollondiano octo pedum an. 1784.

a BARNABA ORIANI.

Temp. vero.

| | | | |
|-------|----------|------------------------------|----------------------------|
| 1784. | Jun. 26. | Imm. I. satellitis | 12. ^h 28.' 45." |
| | Jul. 12. | Imm. I. | 10. 41. 39. |
| | 14. | Imm. II. | 10. 48. 1. |
| | 21. | Imm. II. | 13. 24. 22. |
| | 26. | Imm. I. | 14. 29. 1. |
| | 27. | Imm. III. | 10. 49. 56. |
| | Aug. 11. | Imm. I. | 12. 47. 20. |
| | Sept. 9. | Em. II. | 10. 36. 22. |
| | 16. | Em. II. | 13. 15. 32. |
| | Nov. 22. | Em. I. | 7. 12. 51. |

OBSERVATIONES SELECTÆ

HABITÆ MANNHEMII

a Clariss. Electorali Astronomo

D. KOENIG

1783. temp. vero

8. Julii 12.^h 47.' 56." 37 Imm. I. satellitis Jovis cœlo vapidato fasciis obscure visis, tubo Dollondi 12. pedum.

25. Julii 10. 31. 32, 25. Egressus I. sat. ex disco Jovis, ante quem pertransiit. 5.' 29" serius umbra quoque satellitis su-

- per Jovis disco disparuit eumque reliquit.
30. Julii 10. ^h 21. ' 26, " 75. Observatus est totalis egressus II. Satellitis ex Jovis disco, ante quem pertransiit.
- Eodem 10. 43. 20, 20. Egressus totalis umbræ II. Satellitis.
2. Augusti 9. 44. 15, 77. Emerfio I. Satellitis ex umbra Jovis, cælo sereno fasciis bene apparentibus absente Luna.
11. Aug. 9. 45. 45, 53. Emerfio III. Satellitis ex Jovis umbra, in cælo satis aperto, fasciis bene visis, Jove in confinibus Lunæ.
18. Aug. 8. 5. 16, 50. Emerfio I. Satellitis Jovis ex umbra, fasciis bene apparentibus licet Jove jam humili.
26. Sept. 6. 53. 38, 3. Emerfio I. Satellitis ex umbra, Jove vehementer undulante per vapores.
3. Oct. 8. 51. 39, 26. Emerfio I. Satellitis ex umbra, fasciis Jovis bene distinctis licet in lunæ vicinia.
11. Oct. 8. 12. 27, 75. Emerfio II. Satellitis ex umbra, fasciis non apparentibus, limbifque Jovis coloratis.

ECLIPSES ET OCCULTATIONES FIXARUM.

18. Martii 8.^h 5.' 19." Initium Eclipses totalis Lunæ
Cœlo sereno Tubo achromatico
7. pedum.
9. 5. 35. Immersio totalis lunæ in umbram.
10. 48. 9. Initium Emerf. Lunæ ex umbra.
11. 48. 25. Finis Eclipses lunaris totalis.
16. Maii 12.^h 7.' 5," 56. Immersio π Scorpii sub luna
Tubo 12. ped.
13. 17. 28, 51. Emerfio π Scorpii ex luna,
10. Julii 8. 55. 13, 35. Immersio π Scorpii sub luna.
9. 25. 51, 38. Emerfio π Scorpii ex luna.
10. Sept. Initium Immerfionis & totalem immerfionem
Lunæ in umbram per densas nubes observare
non licuit.
10.^h 52.' 28." Dispersis non nihil nubibus par-
tes lunæ lucidas dimensus sum micrometro obje-
ctivo anglicano, easque inveni 1. poll. 4. $\frac{17}{10}$
linearum, cum duobus horis ante Eclipses ini-
tium eodem instrumento diametrum Lunæ inve-
nerim 3. poll. 7. $\frac{19}{55}$ lin. cœlo adhuc sereno.
11. 59. 49, 32. Lunæ centrum ad quadrantem
muralem Birdii 8. pedum cul-
minavit.
13. 0. 18, 43. Initium emerfionis lunæ ex umbra.
14. 0. 1, 56. Finis totalis Eclipses.
14. Dec. 17. 30. 44, 25. Immersio ρ Leonis sub Lunæ

parte lucida, observatio subdubia ob tenuem nebulam & Lunæ halonem.

18.^h 45.' 34." 35. Emerfio ρ Leonis ex parte obscura Lunæ pariter inter vapores.

30. Dec. 8. 42. 48, 30. Immerfio δ Piscium sub Lunæ parte obscura cælo ad sensum sereno, stella tamen sæpius antea ita disparuit, ut nihil nisi macula quædam albicans & informis appareret.

9.^h 50.' circiter Emerfio δ Piscium, determinatio minuti secundi incerta ob vapores densiores.

1784. Temp. vero

6. Mart. 14.^h 49.' 38." Initium eclipseos partialis Lunæ, Cælo sereno, sed brevi post condensatis vaporibus nubilo. Tubo 10. pedum achromatico.

19. Jun. 13. 38. 27, 2. Immerfio II. Sat. Jovis, cælo sereno, fasciis Jovis distinctis, Tubo Greg. 1. pedis.

11. Aug. 12. 44. 22, 8. Immerfio I. Sat. cælo sereno, fasciis optime apparentibus, Tuboachr. 12. pedum, ita quidem ut umbram Satellitis quarti in Jovem projectum distincte observarem.

- Eodem 12.^h 59.' 7, '' 8. Jovis centrum culminat.
 12. 59. 8, 2. Umbra quarti Satellitis in Jovis disco culminat.
 12. 59. 10, 8. Satelles quartus culminat.
2. Sept. 7. 57. 24, 2. Emerfio II. Sat. cœlo sereno, tubo Greg. 1. pedis, observatio dubia.
3. Sept. 15. 20. 29, 98. Emerfio I. Sat. cœlo quidem sereno, sed Jove jam in vaporibus horizontalibus, fasciis licet bene visis, observatio dubia ob vicinitatem, in qua Satelles a Jove emergebat. Tubo Greg. 1. pedis.
9. Sept. 9. 47. 24. Emerfio I. Sat. fasciis haud bene visis, Jove inter tenues vapores cœlum æquabiliter obducentes, Tubo achr. 12. pedum.
9. Sept. 10. 33. 52. Emerfio II. Sat. cœlo sereno, fasciis optime visis, observatio bona Tubo ach. 12. pedum.
- Eodem 10. 58. 54, 58. Culminat Jovis centrum, Satelles secundus sequitur post 3'' temp. borealior. centro Jovis 23. $\frac{1}{2}$ ''
4. Oct. 7. 49. 40, 67. Emerfio II. Sat. Jovis fasciis satis distincte visis cœlo sereno, Tubo 12. pedum.
7. Oct. 6. 34. 59, 3 Emerfio III. Sat. cœlo ad sen-

sum sereno, fasciis tamen obscure visis, Tubo achr. 12. pedum.

Eod. 6.^h 36' 40," 07. Emerfio I. Sat. cœlo ad sensum sereno, fasciis tamen obscure visis, tubo achr. 12. pedum.

14. 6. 17. 55, 4 Immerfio III. Sat. cœlo haud puro, Jove vehementer undulante, & fasciis vix visis, tubo 12' pedum.

Eod. 8. 33. 48, 5. Emerfio I. Sat. fasciis male visis.

5. Nov. 7. 36. 53, 83. Emerfio II. Sat. cœlo sereno, fasciis optime visis Tubo 12. pedum.

1785. Temp. vero

11. Apr. o. 30. 52.

Limbus lunæ obscurus tangit lucidum Veneris, planetam hanc occultatura, observatio non nihil dubia ob multos vapores, qui lumen planetarum vehementer debilitabant, circa tempus emerfionis vero ita condensabantur, ut nec luna nec Venus in cœlo detegi potuerint.

Eod. 2. 50. 22, 8 Culminat centrum ♀ & facta comparatione cum Aldebaran inveni ejus.

Ascens. rectam $63^{\circ} 34' 22''$
 Declin. boreal. 25. 54. 41, 7.
 Longitud. 66. 37. 41.
 Latitud. bor. 4. 32. 46.

Eod. 2.^a 53.'16," o Culminat centrum D pro quo
 tempore ex observatione.

Ascens. rect. $64^{\circ} 36' 53'' 7$
 Declin. borealis 26. 19. 58.
 Longitudo 67. 19. 15.
 Latitudo bor. 4. 41. 21.

OBSERVATIONES SATELLITUM JOVIS

habita Massilia

a CLAR. SILVABELLA.

| | | | |
|-------|-----------|---|---------------|
| 1782. | 3. April. | 2. ^a 22.' 56." t. v. Im. I. Sat. | } obser. bon. |
| | 19. Maji | 2. 48. 12. . . Im. | |
| | 20. Junij | 1. 29. 46. . . Em. | |
| | 5. Julij | 11. 43. 59. . . Im. | |
| | 13. . . . | 9. 17. 28. . . Em. II. Sat. | |
| | 20. . . . | 9. 27. 13. . . Em. III. Sat. | |
| | 20. . . . | 11. 51. 59. . . Em. II. Sat. | |
| | 21. . . . | 10. 1. 11. . . Em. I. Sat. | |
| | 27. . . . | 10. 40. 33. . . Im. III. Sat. | |
| | 6. Aug. | 8. 21. 20. . . Em. I. Sat. | |
| | 13. . . . | 10. 18. 49. . . Em. | |
| | 14. . . . | 8. 55. 39. . . Em. II. Sat. | |

| | | | | |
|-------|-----------|-----------------|--------------------|----------------|
| 1782. | 1. Sept. | 9. 40. 44." | t.v. Em. III. Sat. | .. obfer. med. |
| | 14. . . . | 8. 6. 48. . . | Em. I. Sat. | |
| | 7. Octob. | 7. 29. 46. . . | Em. | |
| | 14. . . . | 7. 0. 35. . . | Im. III. Sat. | |
| 1783. | 14. Mart. | 5. 18. 41. . . | Im. I. Sat. | |
| | 9. Maji | 1. 50. 3. . . | Im. IV. | |
| | 31. . . . | 2. 17. 14. . . | Im. I. | |
| | 1. Junij. | 2. 14. 13. . . | Im. III. Sat. | |
| | 6. Julij | 10. 3. 51. . . | Im. | |
| | 1. Aug. | 0. 18. 51. . . | Em. IV. Sat. | |
| | 8. . . . | 8. 22. 7. . . | Em. II. | |
| | 9. . . . | 11. 27. 14. . . | Em. I. | |
| | 15. . . . | 10. 58. 21. . . | Em. II. Sat. | |
| | 18. . . . | 7. 53. 27. . . | Em. I. Sat. | |
| | 25. . . . | 9. 49. 51. . . | Em. | |
| | 16. Sept. | 10. 47. 47. . . | Em. II. Sat. | |
| | 30. . . . | 10. 25. 25. . . | Im. III. Sat. | |
| | 3. Oct. | 8. 38. 59. . . | Em. I. Sat. | |
| | 19. . . . | 7. 3. 17. . . | Em. II. Sat. | |
| | 23. . . . | 7. 41. 45. . . | Em. IV. Sat. | |
| | 29. . . . | 6. 8. 0. . . | Em. III. Sat. | |

obfer. bon.



OBSERVATIONES METEOROLOGICAE
habitae in Specula Mediolanensi anno 1783.
A FRANCISCO REGGIO.

| Mane . | | | | Vespere . | | |
|--------------|----------------|-----------------|----------------|----------------|-----------------|----------------|
| 1783 Jan. | Altit. Bar. | Altit. Ther. | Status Coeli . | Altit. Bar. | Altit. Ther. | Status Coeli . |
| 1 | 27. 10.0 | + 0.5 | O, nub. | 27. 10.5 | + 2.5 | S-O, fer. |
| 2 | 11.0 | 0.0 | S-O, fer. | 11.5 | 2.0 | S-O, fer. |
| 3 | 11.7 | - 2.7 | O, fer. | 11.7 | 0.0 | O, fer-nub. |
| 4 | 28. 0.6 | 0.0 | N-E, nub. | 28. 2.0 | 1.2 | N-E, nub. |
| 5 | 1.3 | + 0.3 | O, nub. | 0.0 | 1.6 | O, nub. |
| 6 | 27. 9.5 | 1.0 | E, nub. | 27. 8.2 | 1.6 | S-E, nub. |
| 7 | 7.0 | 1.3 | S-E, nebul. | 6.5 | 2.0 | S-E, nub. |
| 8 | 7.0 | 2.0 | O, nub. | 8.0 | 3.5 | SS-E, nub. |
| 9 | 6.3 | 0.0 | N-O, nub. | 7.0 | 3.6 | O, fer. |
| 10 | 7.2 | 2.2 | S-O, fer. | 8.0 | 6.0 | O, fer. |
| 11 | 9.5 | 0.5 | nebul. | 10.0 | 2.0 | nebul. |
| 12 | 10.5 | 2.0 | E, nebul. | 9.0 | 3.0 | E, nub pluvia |
| 13 | 6.6 | 3.0 | S-E, pluvia | 5.0 | 3.5 | S-E, pluvia |
| 14 | 5.0 | 0.0 | S-O, fer. | 5.3 | 3.0 | E, nub. |
| 15 | 4.6 | 3.7 | O, nub. | 3.5 | 3.7 | E, pluvia |
| 16 | 2.5 | 2.0 | N-E, nebul. | 2.0 | 3.0 | N-E, nub. |
| 17 | 2.7 | 1.0 | O nub. | 2.5 | 3.0 | N-O, nub. |
| 18 | 2.3 | 0.5 | O, nub-fer. | 2.7 | 3.0 | N-O, fer. |
| 19 | 3.0 | 6.0 | E, fer. | 4.5 | 2.3 | O, nub. |
| 20 | 6.0 | 0.5 | O, nub-fer. | 8.2 | 3.0 | O, fer. |
| 21 | 8.5 | - 0.5 | O, fer. | 6.5 | 2.0 | E, nub. |
| 22 | 3.2 | + 1.7 | E, nix, pluvia | 3.0 | 1.3 | E, pluvia |
| 23 | 3.0 | 1.0 | S-E, nub. | 4.2 | 2.0 | N-O, nub. |
| 24 | 5.5 | 0.0 | S, nub-fer. | 7.2 | 4.0 | S-E, fer. |
| 25 | 9.7 | 0.0 | E, fer. | 9.5 | 2.0 | O, fer. |
| 26 | 9.2 | 0.0 | S-O, fer. | 8.7 | 2.0 | O, nub-fer. |
| 27 | 8.5 | 0.0 | S-O, nub. | 7.0 | 2.0 | S-O, nub. |
| 28 | 4.5 | 1.0 | E, nix | 5.7 | 1.5 | S, pluvia |
| 29 | 7.0 | 0.0 | nebul. | 7.8 | 2.0 | O, fer. |
| 30 | 8.5 | - 2.0 | S-O, fer. | 11.0 | 2.0 | N-O, fer. |
| 31 | 11.0 | 2.0 | S-O, fer-nub. | 10.0 | 2.0 | S-O, nub. |

Altit. max. Bar. poll. 29 lin. 2. | Altitudo maxima Therm. + 6.
 minima . . . poll. 27. lin. 2. | minima - 2, 7
 media poll. 27. lin. 7. | media + 1, 5.
 Quant. aquae pluv. poll. 3. lin. 1, 15
 Dies sereni 10.

| Mane . | | | | Vespere . | | |
|-------------------|----------------|-----------------|----------------|----------------|-----------------|------------------|
| 1783 Februari. | Altit. Bar. | Altit. Ther. | Status Coeli . | Altit. Bar. | Altit. Ther. | Status Coeli . |
| 1 | 27. 9,2 | + 0,7 | O, nub. | 27. 11,0 | + 3,3 | O, fer. |
| 2 | 28. 0,7 | 0,0 | nebul. | 11,5 | 2,0 | O, nub. |
| 3 | 27. 9,2 | 0,7 | S, nub. | 9,8 | 3,5 | S, fer. |
| 4 | 9,8 | 0,0 | O, fer. | 8,8 | 4,0 | O, fer. |
| 5 | 8,7 | 1,2 | O, fer-nub. | 8,5 | 5,0 | O, fer. |
| 6 | 7,2 | 2,0 | N-O, nub. | 6,5 | 8,0 | N-O, nub. |
| 7 | 6,6 | 3,0 | S-E, nub. | 6,5 | 6,0 | S-E, nub. pluvia |
| 8 | 5,0 | 4,0 | S-E, pluvia | 4,8 | 5,0 | O, nub. |
| 9 | 4,8 | 4,0 | O, pluvia | 3,2 | 5,0 | S-E, E,* pluvia |
| 10 | 1,8 | 4,0 | nub. | 5,5 | 6,0 | O, fer. |
| 11 | 8,2 | 2,0 | S-O, fer. | 10,5 | 9,0 | S-O, fer. |
| 12 | 11,5 | 3,6 | N-E, nub. | 10,3 | 6,3 | E, nub. |
| 13 | 9,2 | 4,5 | E, pluvia | 7,8 | 5,0 | N-E, pluvia |
| 14 | 6,8 | 4,0 | E, pluvia | 6,8 | 5,0 | O, nub. |
| 15 | 7,0 | 2,5 | O, fer. | 7,2 | 6,0 | O, fer. |
| 16 | 7,1 | 1,8 | E, fer. | 7,8 | 5,6 | O, fer. |
| 17 | 11,1 | 2,3 | ☉, fer. | 28. 0,0 | 6,0 | O, fer. |
| 18 | 28 0,0 | 1,6 | E, fer. | 0,0 | 5,3 | E, fer-nub. |
| 19 | 27 11,7 | 1,3 | E, fer-nub. | 27. 10,5 | 5,2 | E, nub. |
| 20 | 10,0 | 3,0 | S-E, nub. | 10,0 | 5,0 | O, nub. |
| 21 | 9,0 | 3,6 | N-E, nub. | 10,0 | 5,0 | O, nub. |
| 22 | 8,5 | 2,7 | S-E, fer. | 8,7 | 8,5 | O, fer. |
| 23 | 9,2 | 3,0 | E, fer. | 9,0 | 9,2 | O, fer-nub. |
| 24 | 7,7 | 5,6 | nub. | 6,0 | 8,3 | E, nub-pluv. |
| 25 | 5,8 | 3,0 | O, fer-nub. | 6,2 | 7,0 | S-E, nub. |
| 26 | 5,0 | 1,6 | N-E, nub. | 5,8 | 3,5 | N-O,* nub. |
| 27 | 8,2 | 0,5 | N, fer. | 9,2 | 5,0 | N,* fer. |
| 28 | 8,2 | 0,0 | O,* fer. | 5,7 | 6,2 | O,* fer. |

| | |
|--|-------------------------------|
| Altit. max. Bar. poll. 28. lib. 0, 7 | Altitudo maxima Therm. + 9, 0 |
| minima . . . poll. 27. lin. 1, 7 | minima 0, 0 |
| media poll. 27. lin. 8, 2 | media + 4, 0 |
| Quant. aquae pluv. poll. 2. lin. 1, 23 | |
| Dies fereni . . 12. | |

| Mane . | | | | Vespere . | | |
|--------|-------------|--------------|---------------|-------------|--------------|-----------------|
| 1783 | Altit. Bar. | Altit. Ther. | Status Coeli. | Altit. Bar. | Altit. Ther. | Status Coeli. |
| 1 | 27. 5,0 | + 0,7 | E, nub. | 27. 2,0 | + 4,2 | S-E, nub,pluv. |
| 2 | 0,0 | 3,0 | N-E, nub. | 26.11,8 | 6,2 | O, fer. |
| 3 | 2,0 | 1,2 | E,* fer. | 27. 2,0 | 5,0 | E,* fer-nub. |
| 4 | 0,5 | 2,0 | E, nix | 1,0 | 2,5 | O, pluvia |
| 5 | 3,2 | 1,5 | E, fer. | 3,8 | 5,2 | O, fer. |
| 6 | 2,8 | 3,2 | E, pluvia | 26.10,2 | 3,8 | E, pluvia |
| 7 | 26.10,8 | 1,2 | O,* fer. | 17. 0,0 | 8,2 | O, nub-fer. |
| 8 | 27. 1,2 | 3,5 | O, fer. | 5,2 | 9,2 | O,* fer. |
| 9 | 5,8 | 4,0 | O, fer. | 6,8 | 10,2 | O, fer. |
| 10 | 7,3 | 5,0 | E, nub-fer. | 8,7 | 9,7 | S nub. |
| 11 | 5,7 | 5,5 | N-O, pluvia | 26.11,2 | 5,2 | E,pluvia,S-E* |
| 12 | 26.10,5 | 3,7 | S-E, pluvia | 11,0 | 7,5 | S-E, pluvia |
| 13 | 27. 0,6 | 5,5 | E, nub. | 27. 2,5 | 7,0 | S, pluvia |
| 14 | 2,2 | 5,0 | E, nub-fer. | 4,5 | 8,7 | S-O, fer-nub. |
| 15 | 4,5 | 3,5 | E, nub-fer. | 6,0 | 8,5 | O, nub-fer. |
| 16 | 6,7 | 4,5 | E, fer-nub. | 9,2 | 9,8 | E, fer-nub. |
| 17 | 10,0 | 3,8 | E, fer. | 11,2 | 7,8 | O, fer. |
| 18 | 11,8 | 3,2 | O, fer. | 11,5 | 11,2 | O, nub. |
| 19 | 11,5 | 3,5 | N, fer. | 9,5 | 12,2 | S-O fer-nub. |
| 20 | 9,3 | 4,5 | E, fer. | 9,0 | 11,0 | S-E, fer. |
| 21 | 9,5 | 6,5 | E, nub. | 10,5 | 8,2 | E, nub-fer. |
| 22 | 10,3 | 5,5 | E, nub. | 28. 0,0 | 8,5 | E, nub. |
| 23 | 28. 0,2 | 6,0 | E, nub. | 27.11,2 | 9,0 | S-E, nub-pluv. |
| 24 | 27.10,2 | 6,6 | O, nub. | 7,0 | 7,8 | O, nub,pluv. |
| 25 | 7,0 | 6,2 | O, fer. | 6,5 | 12,0 | O, fer. |
| 26 | 6,5 | 6,5 | E, fer. | 5,0 | 11,5 | S-E, nub. |
| 27 | 3,2 | 8,0 | E, nub. | 0,5 | 12,0 | S-O,* nub,pluv. |
| 28 | 26.11,5 | 6,5 | N, fer-nub. | 2,0 | 9,0 | S O, nub. |
| 29 | 27. 4,0 | 4,3 | N,* fer. | 8,5 | 7,5 | N,* fer. |
| 30 | 9,0 | 2,0 | N, fer. | 9,5 | 1,6 | N, fer. |
| 31 | 9,5 | 2,0 | N-E, fer. | 10,5 | 10,0 | O, fer. |

Altit. max. Bar. poll. 28. lin. 0, 2 | Altitudo maxima Therm. + 12.
 minima .. poll. 26. lin. 10, 2 | minima + 1, 2
 media ... poll. 27. lin. 5, 5 | media + 5, 8
 Quant. aquae pluv. poll. 4. lin. 2, 63
 Dies fereni . . 14.

| Mane. | | | | Vespere. | | |
|-------|----------------|-----------------|---------------|----------------|-----------------|------------------|
| 1783 | Altit. Bar. | Altit. Ther. | Status Coeli. | Altit. Bar. | Altit. Ther. | Status Coeli. |
| 1 | 27.11,2 | + 4,5 | E, fer. | 28. 0,2 | + 11,5 | E, fer. |
| 2 | 28. 1,0 | 4,2 | E, fer. | 2,0 | 12,0 | E, fer. |
| 3 | 1,2 | 6,0 | O, fer. | 0,2 | 14,0 | O, fer. |
| 4 | 0,6 | 7,9 | E, fer. | 0,0 | 14,5 | E, fer. |
| 5 | 27.11,2 | 8,2 | N, fer. | 27. 9,0 | 16,0 | N,*fer. |
| 6 | 8,8 | 12,3 | N,*fer. | 11,0 | 16,5 | N-E, fer. |
| 7 | 11,5 | 9,2 | E, fer. | 11,3 | 14,5 | O, fer. |
| 8 | 11,8 | 8,2 | E, fer. | 11,2 | 14,2 | S-E, fer. |
| 9 | 11,3 | 9,3 | O, fer. | 11,5 | 16,5 | O, fer. |
| 10 | 11,5 | 9,2 | N-E, fer. | 10,6 | 16,2 | S-O, fer. |
| 11 | 9,5 | 11,2 | E, fer. | 7,5 | 16,5 | S-O,*nub. |
| 12 | 6,2 | 10,3 | O, fer-nub. | 6,0 | 12,5 | E, nub,pluv. |
| 13 | 7,0 | 9,5 | N, fer-nub. | 9,0 | 13,0 | S-E, fer-nub. |
| 14 | 10,5 | 10,0 | E, fer. | 9,3 | 14,5 | S-E, nub-fer. |
| 15 | 9,9 | 8,5 | E, fer. | 9,2 | 16,3 | S-O, fer. |
| 16 | 9,0 | 8,5 | O, fer. | 9,5 | 14,5 | S-O,*fer. |
| 17 | 9,8 | 10,0 | N, fer. | 11,2 | 15,0 | N, fer. |
| 18 | 11,8 | 8,0 | E, fer. | 11,2 | 14,5 | O, fer. |
| 19 | 11,0 | 8,8 | E, fer. | 11,0 | 17,0 | E, fer. |
| 20 | 11,1 | 10,7 | E, fer. | 9,2 | 17,0 | E, fer. |
| 21 | 7,8 | 11,2 | E, nub-fer. | 4,3 | 15,2 | O*nub-fer,pl.fr. |
| 22 | 4,3 | 9,2 | N-E, fer-nub. | 5,5 | 12,0 | E,*nub,pluv. |
| 23 | 6,0 | 7,5 | N-O, nub. | 6,2 | 12,0 | S-O,*nub-fer. |
| 24 | 6,8 | 6,5 | S-O,*fer. | 8,2 | 12,2 | SS-E,*fer-nub. |
| 25 | 9,2 | 6,0 | N, fer-nub. | 9,5 | 13,2 | S-O, fer. |
| 26 | 9,1 | 7,2 | E, fer. | 9,5 | 16,2 | S-E, fer. |
| 27 | 9,9 | 11,0 | E, nub. | 10,0 | 15,1 | S-E,*fer-nub. |
| 28 | 11,2 | 9,2 | E,*fer-nub. | 11,2 | 12,2 | N, fer. |
| 29 | 11,2 | 9,2 | E, nub. | 11,0 | 13,0 | E,*nub-fer. |
| 30 | 10,8 | 9,5 | E, nub. | 10,2 | 13,2 | N-E, nub. |

Altit. max. Bar. poll. 28. lin. 2. | Altitudo maxima Therm. + 17. 0
 minima . . . poll. 27. lin. 4, 3 | minima + 4, 5
 media poll. 27. lin. 9, 8 | media + 11, 0
 Quant. aquae pluv. poll. 0. lin. 0,62
 Dies sereni . . . 22.

| Mane. | | | Vespere. | | | |
|----------------|----------------|-----------------|-------------------|----------------|-----------------|--------------------|
| 1783 Majus. | Altit. Bar. | Altit. Ther. | Status Coeli. | Altit. Bar. | Altit. Ther. | Status Coeli. |
| 1 | 27.10.0 | + 9.8 | E, nub. | 27. 8.5 | + 14.0 | S-E, nub. |
| 2 | 7.9 | 9.5 | E, fer. | 6.3 | 16.8 | S-O, fer. |
| 3 | 6.3 | 11.2 | E, nub-fer. | 6.8 | 16.4 | O, fer-nub. |
| 4 | 7.2 | 10.2 | E, nub. | 7.3 | 16.6 | S-E, fer-nub. |
| 5 | 7.5 | 11.0 | E, nub. | 8.6 | 16.6 | N-E, nub, pluv. |
| 6 | 8.6 | 11.9 | S-E, nub. | 7.6 | 16.0 | S-E, fer- |
| 7 | 7.6 | 12.6 | E, fer. | 6.3 | 14.5 | E, proc. pluv. |
| 8 | 5.8 | 12.2 | E, proc. pluv. | 6.0 | 14.3 | proc. pluv. |
| 9 | 6.2 | 11.2 | N-E, nub. | 5.6 | 14.7 | S-E, pluvia |
| 10 | 5.5 | 11.3 | O, nub. | 6.6 | 16.5 | S-E, *nub. pluv. |
| 11 | 7.0 | 12.2 | N, fer-nub. | 6.8 | 17.6 | O, fer. |
| 12 | 7.3 | 12.5 | E, fer. | 6.0 | 18.6 | S-E, fer. |
| 13 | 8.7 | 14.5 | N-E, fer. | 8.5 | 19.7 | S-E, fer. |
| 14 | 8.5 | 14.6 | E, fer. | 7.8 | 10.2 | S-E, fer. |
| 15 | 8.0 | 16.0 | E, nub-fer. | 8.0 | 11.2 | S-E, proc. pluv. |
| 16 | 8.5 | 14.2 | E, fer-nub. | 8.0 | 10.6 | E, fer. |
| 17 | 8.5 | 15.0 | E, fer-nub. | 8.5 | 10.0 | E, proc. gran. pl. |
| 18 | 7.6 | 12.8 | E, nub-fer. | 6.3 | 18.5 | E, nub-fer. |
| 19 | 6.5 | 14.3 | E, nub, pluv. | 7.0 | 16.2 | E, nub. |
| 20 | 7.2 | 14.2 | E, nub, pluv. | 7.2 | 16.8 | O, nub. pluv. |
| 21 | 7.2 | 14.2 | SE-E nub-fer. | 6.8 | 10.0 | O, fer. |
| 22 | 6.5 | 14.8 | O, fer. | 5.5 | 10.0 | S-O, *fer-nub. |
| 23 | 5.5 | 13.8 | n-e. nub-fer, pl. | 5.6 | 16.0 | S-E, nub. |
| 24 | 6.2 | 12.0 | O, nebul. | 7.0 | 16.8 | N-O, fer. |
| 25 | 7.8 | 13.5 | S-O, nub. | 7.8 | 16.2 | S-E, nub. E,* |
| 26 | 5.6 | 14.2 | S-E, pluv. | 5.0 | 16.5 | S-E, procel. |
| 27 | 3.0 | 11.8 | N-E, pluv. | 2.0 | 13.2 | N-E, pluvia |
| 28 | 2.2 | 11.8 | N-E, pluv. | 3.8 | 13.2 | N-E, pluvia |
| 29 | 5.5 | 11.8 | E, pluv. | 7.6 | 15.0 | S-E, nub-fer. |
| 30 | 7.8 | 12.3 | N E, nub, pluv. | 7.0 | 13.0 | S-E, nub fer. |
| 31 | 6.5 | 12.0 | O, nub-fer. | 6.0 | 14.8 | O, fer-nub. |

Altit. max. Bar. poll. 27. lin. 10. | Altitudo maxima Therm. + 21, 8
 minima .. poll. 27. lin. 2, 2 | minima + 9, 5
 media poll. 27. lin. 6, 8 | media + 14, 5
 Quant. aquae pluv. poll. 4. lin. 1, 8
 Dies sereni . . 11.

| Mane . | | | | Vespere . | | |
|------------------|----------------|-----------------|-----------------|----------------|-----------------|-----------------|
| 1783 Junius . | Altit. Bar. | Altit. Ther. | Status Coeli . | Altit. Bar. | Altit. Ther. | Status Coeli . |
| 1 | 27, 6,7 | + 12,5 | E, nub. | 27, 7,0 | + 16,2 | E, nub-fer. |
| 2 | 7,2 | 12,8 | S-O, fer-nub. | 7,6 | 18,7 | S-O, fer-nub. |
| 3 | 7,6 | 13,5 | O, fer. | 8,0 | 19,2 | OSO, fer. |
| 4 | 8,5 | 13,5 | O, nub-fer. | 8,3 | 16,7 | S-O, nub. |
| 5 | 8,3 | 13,3 | O, nub-pluv. | 8,5 | 18,5 | N-E, fer. |
| 6 | 8,2 | 15,0 | E, nub. | 8,5 | 19,2 | E, nub,proc.pl. |
| 7 | 8,0 | 14,8 | O, nub-fer. | 8,5 | 17,5 | E, nub,pluv. |
| 8 | 8,7 | 13,7 | E, fer-nebul. | 8,8 | 19,2 | S-E, fer-nebul. |
| 9 | 8,7 | 15,2 | O, nebul-fer. | 8,2 | 20,0 | O,proc,pluv. |
| 10 | 7,8 | 15,3 | O, nebul. | 7,2 | 16,3 | N-E,proc,pluv. |
| 11 | 7,1 | 15,3 | E, nebul. | 6,2 | 18,0 | nub proc. |
| 12 | 6,3 | 14,2 | S-E, nebul-fer. | 7,0 | 19,5 | N-E, fer. |
| 13 | 8,0 | 16,5 | O, fer. | 9,0 | 20,0 | O, nub. |
| 14 | 9,2 | 14,2 | O, pluv. | 8,8 | 18,8 | S-E, nebul-fer. |
| 15 | 8,0 | 14,3 | N, fer-nebul. | 4,7 | 18,8 | S-E, nub.pr.pl. |
| 16 | 4,2 | 14,0 | N-E, nebul. | 6,0 | 16,3 | O,proc,pluv. |
| 17 | 7,0 | 12,8 | N,proc,pluv. | 8,8 | 16,2 | E, fer. |
| 18 | 9,0 | 13,0 | E, nebul. | 9,5 | 18,5 | E, nub,pluv. |
| 19 | 9,1 | 14,5 | E, nebul. | 7,2 | 15,2 | E, nebul. |
| 20 | 7,2 | 14,0 | E, pluv. | 6,0 | 16,5 | E, pluv,proc. |
| 21 | 4,8 | 14,5 | N-E,proc,pluv. | 6,2 | 14,5 | N-E, nebul. |
| 22 | 7,2 | 13,2 | O, nebul. | 10,0 | 16,2 | S, nebul. |
| 23 | 10,0 | 14,2 | E, nebul. | 10,8 | 19,5 | S-O, fer. |
| 24 | 10,6 | 16,3 | N, fer. | 10,6 | 20,7 | N-E, fer. |
| 25 | 10,6 | 16,2 | E, nub-fer. | 10,0 | 20,8 | E,nub-fer,proc. |
| 26 | 10,0 | 16,1 | E, nub. | 9,6 | 20,7 | S-E, fer nebul. |
| 27 | 10,0 | 16,2 | E, fer-nebul. | 9,6 | 21,2 | S-E, nub.pr.pl. |
| 28 | 9,6 | 16,0 | O, fer. | 9,5 | 20,0 | E, proc,pluv. |
| 29 | 9,5 | 15,6 | N-E,fer-nebul. | 9,6 | 21,0 | E, nub,proc.pl. |
| 20 | 10,3 | 16,3 | N-E. nebul. | 11,3 | 22,0 | E, nub,proc. |

Altit. max. Bar. poll. 27.lin. 11, 3 | Altitudo maxima Therm. + 22.
 minima .. poll. 27.lin. 4, 3 | minima + 12, 5
 media ... poll. 27.lin. 8, 2 | media
 Quant. aquae pluv. poll. 3. lin. 6,43 + 16, 1
 Dies fereni . . . 7.

Mane.

Vespere.

| 1783 Julius. | Mane. | | | Vespere. | | |
|-----------------|----------------|-----------------|---------------|----------------|-----------------|------------------|
| | Altit. Bar. | Altit. Ther. | Status Coeli. | Altit. Bar. | Altit. Ther. | Status Coeli. |
| 1 | 27.11,6 | + 17,3 | N-E, nebul. | 17.11,0 | + 22,2 | E, nebul. |
| 2 | 11,0 | 19,0 | E, nebul. | 11,2 | 23,6 | N-E, proc.pl. |
| 3 | 11,2 | 19,0 | N-E, fer-nub. | 10,6 | 23,8 | N-E, nub-fer. |
| 4 | 11,0 | 18,3 | N-E, nub-fer. | 10,1 | 23,2 | N-E, nub. |
| 5 | 10,0 | 19,0 | N E, fer. | 9,2 | 24,3 | S-O, fer. |
| 6 | 9,6 | 19,5 | E, fer. | 9,3 | 23,8 | S-E, fer. |
| 7 | 9,3 | 19,5 | O, fer. | 9,3 | 24,1 | S-O,*fer. |
| 8 | 9,3 | 19,1 | O, fer-nebul. | 9,3 | 23,0 | O, fer. |
| 9 | 8,8 | 20,2 | O, nebul. | 8,8 | 23,0 | E, fer. |
| 10 | 9,0 | 19,8 | S-E,*nebul. | 9,5 | 22,2 | S-E, nebul. |
| 11 | 10,0 | 18,5 | E, nebul. | 9,7 | 21,5 | E, nebul. |
| 12 | 10,0 | 17,5 | E, nebul. | 9,0 | 21,0 | E, nebul. |
| 13 | 8,7 | 17,2 | E, nebul. | 8,0 | 22,5 | E,nub.proc.pl. |
| 14 | 8,2 | 15,7 | E, nub. | 8,5 | 19,2 | E,nub-nebul. |
| 15 | 8,7 | 16,8 | E, fer-nebul. | 8,5 | 22,2 | E, nebul-fer. |
| 16 | 8,3 | 18,0 | N-E, nebul. | 9,0 | 22,5 | S-E, fer.pr.pl. |
| 17 | 9,6 | 16,5 | E, pluvia | 10,0 | 21,5 | S-E, fer. |
| 18 | 10,8 | 18,2 | E, fer. | 9,6 | 22,5 | S-E, fer. |
| 19 | 9,5 | 18,0 | E, fer. | 9,5 | 22,5 | S-E, fer. |
| 20 | 10,2 | 18,0 | E, fer-nebul. | 9,5 | 22,5 | E, fer. |
| 21 | 9,2 | 19,0 | O, nub. | 9,2 | 23,0 | S-O, procel, pl. |
| 22 | 9,6 | 18,0 | E, nub. | 8,2 | 19,5 | E, proc.gran. |
| 23 | 7,7 | 15,8 | N-O, fer. | 7,2 | 20,2 | fer nub. |
| 24 | 8,0 | 16,3 | E, fer. | 9,3 | 21,7 | O, fer. |
| 25 | 9,3 | 21,7 | O, fer. | 9,2 | 22,8 | S, fer' |
| 26 | 9,1 | 18,0 | E, nebul. | 8,7 | 22,0 | E, nub. |
| 27 | 8,5 | 16,8 | N, fer. | 9,0 | 22,5 | S-E, nub-fer. |
| 28 | 8,2 | 18,0 | E, fer-nub. | 8,3 | 21,2 | S-O, nub.pr.pl. |
| 29 | 8,5 | 17,2 | E, nebul. | 8,8 | 21,2 | SSE, neb.pluv. |
| 30 | 9,2 | 16,5 | S-E, nub. | 9,8 | 22,0 | O, fer-nub. |
| 31 | 10,5 | 18,2 | E, fer-nebul. | 10,7 | 23,8 | S-E, fer-nebul. |

Altit. max. Bar. poll. 27.lin.11, 6 | Altitudo maxima Therm. + 24, 3
 minima .. poll.27.lin. 7, 2 | minima + 15, 8
 media ... poll.27.lin. 9, 2 | media + 20, 0
 Quant. aquae pluv. poll. 2. lin. 2,52
 Dies fereni . . 11.

| 1783 Augustus | Mare . | | | Vespere . | | |
|------------------|----------------|-----------------|----------------|----------------|-----------------|-----------------|
| | Altit. Bar. | Altit. Ther. | Status Coeli . | Altit. Bar. | Altit. Ther. | Status Coeli . |
| 1 | 27.11.0 | + 19.0 | E, nebul. | 27.10.0 | + 24.7 | N-E, fer. |
| 2 | 11.0 | 20.0 | N-E, fer. | 10.6 | 25.3 | S-E, fer. |
| 3 | 9.8 | 20.2 | N-E, nub. | 9.0 | 24.2 | O, nub. |
| 4 | 8.5 | 19.2 | N-E, nub.pl. | 8.1 | 22.1 | N-E, nub.pluv. |
| 5 | 8.3 | 18.3 | N-O, nub. | 8.5 | 22.5 | E, fer-nub. |
| 5 | 9.0 | 17.8 | E, fer. | 9.2 | 23.3 | N-O, fer. |
| 7 | 9.3 | 18.5 | E, fer. | 8.5 | 23.8 | N-O, fer. |
| 8 | 8.3 | 18.0 | E, fer-nub. | 8.5 | 22.5 | S,*fer-nub. |
| 9 | 9.5 | 16.8 | N-E, fer. | 9.7 | 22.0 | S-E, fer. |
| 10 | 10.5 | 16.5 | E, fer-nub. | 9.2 | 22.3 | S-E, fer-nub. |
| 11 | 8.5 | 17.2 | N-E, fer. | 6.2 | 23.6 | S-O, nub proc. |
| 12 | 5.6 | 15.7 | S-O,*procel. | 5.2 | 13.6 | E,*proc N,*pl. |
| 13 | 5.1 | 10.7 | N-O, nub. | 6.2 | 14.2 | S-O, proc.pluv. |
| 14 | 6.2 | 12.2 | S-O, nub. | 8.2 | 16.0 | O, proc.gran. |
| 15 | 8.5 | 11.0 | E, fer. | 10.0 | 16.8 | O, fer-nub. |
| 16 | 10.2 | 12.0 | N, fer-nub. | 10.2 | 17.8 | fer. |
| 17 | 10.3 | 11.8 | E, fer. | 10.3 | 17.7 | S-E, fer. |
| 18 | 10.3 | 13.7 | E, fer. | 10.3 | 19.0 | N-E, fer. |
| 19 | 10.0 | 14.3 | E, fer. | 9.2 | 20.5 | S-O fer-nubul. |
| 20 | 8.5 | 17.7 | E, nebul. | 8.2 | 20.2 | S-O, proc pluv. |
| 21 | 8.2 | 14.8 | E, nebul. | 8.6 | 19.2 | S-O, nebul-fer. |
| 22 | 9.0 | 15.0 | O,proc.pluv. | 9.0 | 18.8 | S-E, nub. |
| 23 | 9.8 | 14.3 | E, fer. | 9.2 | 20.0 | E, fer. |
| 24 | 9.3 | 15.0 | E, fer. | 9.2 | 20.2 | E-fer-nub. |
| 25 | 9.1 | 16.6 | E,nub pluv. | 9.6 | 19.8 | E-fer pluv. |
| 26 | 9.2 | 16.7 | N-E, nebul. | 9.2 | 20.5 | N-E, nub |
| 27 | 9.1 | 16.0 | E, pluvia | 10.0 | 18.5 | E, fer-nub. |
| 28 | 10.5 | 15.0 | E, nub-fer. | 9.8 | 20.2 | E,nub fer.pl. |
| 29 | 9.5 | 16.5 | E, nub. | 9.5 | 20.0 | S-E, nub-fer. |
| 30 | 9.6 | 17.7 | O, nub-fer. | 9.2 | 22.5 | O, fer. |
| 31 | 9.6 | 15.8 | E, nub. | 9.2 | 20.8 | S-E, proc.pluv. |

Altit. max. Bar. poll. 27 lin. 11. | Altitudo maxima Therm. + 25, 3
 minima . . . poll. 27. lin. 5. | minima + 10, 7
 media poll. 27. lin. 8, 7 | media + 18, 1
 Quant. aquae pluv. poll. 3. lin. 11, 97
 Dies sereni . . 13.

| Septemb. | Mare . | | | Vespere . | | |
|----------|-------------|--------------|----------------|-------------|--------------|-----------------|
| | Altit. Bar. | Altit. Ther. | Status Coeli . | Altit. Bar. | Altit. Ther. | Status Coeli . |
| 1 | 27. 7,5 | + 16,0 | S-E,*pluvia | 27. 7,0 | + 16,0 | S-E,proc.pluv. |
| 2 | 6,6 | 14,2 | S-E, pluvia | 7,0 | 15,8 | S-E, nub.fer. |
| 3 | 8,5 | 12,2 | O, fer. | 8,1 | 18,0 | E,nub.fer.pluv. |
| 4 | 7,3 | 14,2 | N-E, nub. | 5,5 | 17,5 | E, nub.pluv. |
| 5 | 5,2 | 12,5 | O,fer-nebul. | 2,8 | 15,2 | N-E, pluvia |
| 6 | 6,2 | 11,1 | N-O, fer. | 8,2 | 18,0 | O, fer. |
| 7 | 9,2 | 11,2 | N-E, fer. | 8,9 | 17,9 | O, fer. |
| 8 | 10,6 | 12,3 | E, fer. | 10,0 | 18,2 | E, fer. |
| 9 | 9,6 | 13,5 | E, nub. | 8,3 | 18,0 | O, nub. |
| 10 | 8,1 | 14,6 | O, nub. | 8,8 | 18,5 | O, nub. |
| 11 | 10,0 | 15,1 | E, nub. | 10,3 | 19,0 | E, nub. |
| 12 | 10,1 | 16,2 | E, nub. | 9,0 | 20,0 | E, nub. |
| 13 | 8,4 | 16,8 | E, nub. | 9,2 | 20,0 | N-E, nub.fer. |
| 14 | 10,0 | 13,3 | N, fer. | 10,2 | 18,2 | E, fer. |
| 15 | 10,7 | 13,2 | E, fer. | 10,2 | 18,2 | E, fer. |
| 16 | 10,2 | 14,6 | E, nub. | 10,6 | 17,2 | E, nub.pluv. |
| 17 | 11,1 | 15,1 | O, nub. | 11,1 | 19,0 | S-O, fer. |
| 18 | 11,0 | 15,7 | E, nebul. | 10,0 | 17,3 | N-E, nub. |
| 19 | 8,1 | 15,1 | E, pluv. | 7,3 | 16,0 | E, nub. |
| 20 | 7,6 | 14,3 | E, nub. | 7,7 | 17,0 | E, fer-nub. |
| 21 | 9,0 | 14,0 | O, fer-nub. | 9,9 | 18,0 | S-O, nub. |
| 22 | 9,0 | 14,5 | E, nub. | 7,5 | 15,8 | E, nub.pluv. |
| 23 | 7,2 | 13,6 | E, nub. | 7,0 | 17,0 | E, nub.fer. |
| 24 | 8,0 | 14,0 | E,nub,pluv. | 10,0 | 16,2 | E, proc.pluv. |
| 25 | 11,3 | 13,8 | E,nub,pluv. | 28. 0,0 | 15,2 | N-E, nub,pluv. |
| 26 | 28. 0,5 | 14,0 | N-E, pluv. | 0,0 | 17,6 | S-O, fer-nub. |
| 27 | 27.10,9 | 13,6 | O, fer. | 27. 9,3 | 19,3 | O, fer-nebul. |
| 28 | 10,3 | 15,0 | E, nub. | 9,0 | 18,2 | E, nub.fer. |
| 29 | 10,6 | 13,5 | E, fer-nub. | 11,0 | 16,3 | E, fer. |
| 30 | 11,8 | 13,0 | E, fer-nub. | 28. 0,0 | 15,5 | S,*nub,pluv. |

Altit. max. Bar. poll. 28 lin. 0,5 | Altitudo maxima Therm. + 20,0
 minima .. poll. 27. lin. 2,75 | minima + 11, 2
 media . . . poll. 27. lin. 9,12 | media 15,0
 Quant. aquae pluv. poll. 5. lin. 8,67
 Dies fereni

| Mane . | | | | Vespere . | | |
|-------------------|----------------|-----------------|-------------------|----------------|-----------------|------------------|
| 1783 October . | Altit. Bar. | Altit. Ther. | Status Coeli . | Altit. Bar. | Altit. Ther. | Status Coeli . |
| 1 | 27.11,8 | + 12,0 | O, fer-nub. | 27.11,8 | + 14,0 | E, fer-nub. pluv |
| 2 | 11,0 | 12,2 | O, nub, pluv. | 10,3 | 14,8 | S-E, fer. |
| 3 | 10,3 | 12,2 | O, fer. | 11,0 | 15,0 | O, fer-nub. |
| 4 | 11,3 | 11,6 | E, nub. | 11,3 | 15,6 | O, fer. |
| 5 | 11,0 | 10,2 | N-E, fer. | 10,6 | 15,2 | E, fer-nebul. |
| 5 | 11,2 | 11,2 | E fer-nebul. | 10,9 | 15,5 | S-O, fer. |
| 7 | 10,5 | 10,8 | S-O, fer-nebul | 9,3 | 16,0 | S, fer. |
| 8 | 9,0 | 13,2 | E, nub. | 8,5 | 15,0 | E, nub, pluv |
| 9 | 8,2 | 13,5 | E, nub, pluv. | 8,0 | 14,0 | E, nub, pluv. |
| 10 | 8,2 | 10,5 | E, nub, pluv. | 10,3 | 12,3 | S-E, nub. |
| 11 | 10,9 | 9,6 | E, nub-fer. | 10,6 | 12,2 | S-E, nub, pluv. |
| 12 | 10,3 | 10,0 | E, nub pluv. | 11,0 | 10,8 | E, pluvia |
| 13 | 11,0 | 11,0 | O, NE, pluvia | 11,2 | 12,0 | N-E, pluvia |
| 14 | 10,9 | 11,2 | S-O, nub. | 11,0 | 14,8 | O, nub-fer. |
| 15 | 11,6 | 12,3 | S-E, pluv-nub. | 11,8 | 14,6 | S-E, fer nub. |
| 16 | 11,8 | 11,8 | E, nub. | 11,8 | 14,5 | E, nub-fer. |
| 17 | 28, 0,0 | 12,2 | E, fer-nub. | 28, 0,0 | 14,6 | S E, fer-nub. |
| 18 | 0,0 | 11,2 | E, nub. | 0,0 | 14,0 | E, fer-nub. |
| 19 | 0,0 | 11,2 | E, nub-fer. | 27.11,0 | 13,5 | E, fer. |
| 20 | 27.11,0 | 8,5 | E, fer. | 10,5 | 13,2 | O, fer. |
| 21 | 10,0 | 8,2 | E, fer. | 9,9 | 13,2 | E, fer. |
| 22 | 9,9 | 9,0 | E, nub-nebul. | 9,5 | 13,0 | O, nub fer. |
| 23 | 9,0 | 9,6 | S E, nebul. | 9,0 | 13,2 | S-E, fer-nub. |
| 24 | 9,9 | 11,2 | E, nub. | 9,6 | 13,0 | E, nub. |
| 25 | 9,2 | 11,5 | S E, nub. | 8,8 | 13,0 | E, pluvia |
| 26 | 7,5 | 12,0 | S-E, pluv. | 7,6 | 13,6 | E, nub, pluv. |
| 27 | 8,2 | 12,5 | O nub. | 7,8 | 14,5 | S-O, nub. |
| 28 | 7,5 | 12,2 | s, pluv, fer-nub. | 7,3 | 14,5 | S-E, fer-nub. |
| 29 | 8,2 | 10,2 | E, fer-nub. | 9,7 | 14,5 | S-E, fer-nub. |
| 30 | 10,5 | 9,8 | E, fer-nub. | 10,5 | 12,5 | S-E, nub-fer. |
| 31 | 11,5 | 8,0 | N, fer. | 11,5 | 12,0 | S, fer. |

Altit. max. Bar. poll. 28 lin. 0 0 | Altitudo maxima Therm. + 15,66
 minima poll 27 lin. 7 5 | minima + 8, 0
 media poll 27. lin 10,21 | media + 12,31
 Quant. aq. pluv. poll. 5. lin. 0,9
 Dies fereni

| 1782 Novemb. | Mane. | | | Vespere. | | |
|-----------------|----------------|-----------------|-----------------|----------------|-----------------|-----------------|
| | Altit. Bar. | Altit. Ther. | Status Coeli. | Altit. Bar. | Altit. Ther. | Status Coeli. |
| 1 | 27.11,3 | + 9,2 | N-E, fer-nub. | 27.11,2 | + 11,7 | S-E, fer. |
| 2 | 11,2 | 7,6 | E, nebula | 11,0 | 10,3 | E, nub,pluv. |
| 3 | 10,5 | 9,6 | E, pluv,nub. | 10,3 | 11,6 | E, nub |
| 4 | 10,0 | 10,6 | E, nub. | 9,6 | 11,5 | E, nub,pluv. |
| 5 | 9,7 | 12,5 | E, nebul. | 9,6 | 12,5 | E, nub. |
| 6 | 9,2 | 10,5 | O, fer-nebul. | 8,0 | 12,5 | E, nub. |
| 7 | 7,3 | 9,2 | E,*nub. | 7,3 | 8,8 | E,*nub. |
| 8 | 6,3 | 5,2 | E,*fer. | 6,2 | 7,7 | E,*fer-nub,nix |
| 9 | 7,0 | 1,2 | O, fer. | 6,2 | 5,2 | S-O, fer. |
| 10 | 6,8 | 1,5 | E, fer-nebul. | 6,5 | 4,5 | S-E, fer. |
| 11 | 6,0 | 0,8 | E, fer. | 5,3 | 4,5 | O, fer. |
| 12 | 5,2 | 0,3 | S-O, fer-nebul. | 5,5 | 5,0 | S-O, fer-nebul. |
| 13 | 6,3 | 3,3 | S-O, fer nebul. | 7,2 | 5,5 | O, fer. |
| 14 | 7,3 | 4,5 | S-O, nebul-fer. | 7,1 | 6,8 | S-E, fer-nub. |
| 15 | 7,8 | 2,7 | S-O, fer-nebul. | 7,7 | 7,0 | S-E, nebul-fer. |
| 16 | 8,0 | 3,7 | S-O, fer-nebul. | 8,8 | 8,8 | O, fer-nebul. |
| 17 | 10,1 | 4,7 | N-O, nebul-fer. | 11,0 | 8,3 | E, nebul-fer. |
| 18 | 11,1 | 5,8 | E, nebul-fer. | 10,2 | 8,2 | nebula |
| 19 | 10,0 | 6,0 | nebula | 8,2 | 6,9 | nebula |
| 20 | 6,8 | 5,0 | O,*fer. | 6,0 | 13,2 | N-O, fer. |
| 21 | 6,3 | 7,0 | N-O, fer. | 6,6 | 11,0 | N, fer. |
| 22 | 7,0 | 4,6 | N-E, fer. | 9,0 | 7,6 | E, fer. |
| 23 | 11,0 | 3,6 | E, nub-fer. | 11,0 | 5,2 | E, nub-fer. |
| 24 | 11,0 | 0,9 | O, fer. | 11,2 | 5,0 | O, fer. |
| 25 | 10,2 | 0,2 | O, fer-nebul. | 8,2 | 3,0 | O, fer-nebul. |
| 26 | 8,0 | 0,6 | E, fer. | 28. 0,2 | 5,2 | E,*fer. |
| 27 | 28. 1,2 | 3,6 | E, nub. | 2,0 | 5,0 | E, nub-fer. |
| 28 | 2,8 | 0,0 | E, fer. | 2,8 | 4,6 | O, fer-neb. |
| 29 | 2,1 | - 0,2 | O, fer. | 2,3 | 4,2 | O, fer. |
| 30 | 2,5 | 0,1 | O, fer. | 2,1 | 4,3 | O, fer. |

Altit. max. Bar. poll. 28. lin. 2, 8 | Altitudo maxima Therm. + 13, 2
 minima . . . poll. 27. lin. 5, 2 | minima - 0, 2
 media poll. 27. lin. 9, 5 | media + 5,95
 Quant. aquae pluv. poll. o. lin. 12,89
 Dies fereni . . . 16.

| Mane. | | | Vespere. | | | |
|-----------------|----------------|-----------------|----------------|----------------|-----------------|---------------|
| 1783 Decemb. | Altit. Bar. | Altit. Ther. | Status Coeli. | Altit. Bar. | Altit. Ther. | Status Coeli. |
| 1 | 28. 1,8 | + 0,3 | O, fer-nub | 28. 1,5 | + 3,2 | O, nebula |
| 2 | 1,2 | 3,1 | O, pluv.nub. | 1,0 | 5,0 | O, nub-fer. |
| 3 | 1,0 | 3,5 | E,nub nebul | 0,5 | 5,5 | E, nub. |
| 4 | 0,2 | 4,7 | E, pluvia | 0,0 | 5,0 | N-E, pluvia |
| 5 | 27.11,2 | 3,5 | E, pluvia | 27.11,5 | 3,3 | E, pluv.nix |
| 6 | 11,2 | 2,5 | N-O, nub. | 11,0 | 4,2 | O, nub. |
| 7 | 11,0 | 2,5 | O, nub. | 10,5 | 4,5 | O, nub. |
| 8 | 10,0 | 4,7 | O.pluv,nub | 9,5 | 5,5 | O, nub. |
| 9 | 10,0 | 4,0 | N-O, nub. | 10,0 | 6,2 | E, fer. |
| 10 | 11,0 | 1,0 | nebula | 11,6 | 3,2 | nebula |
| 11 | 28. 0,0 | 1,5 | O, nebul-fer. | 11,7 | 4,5 | S-O,*nub-fer. |
| 12 | 27.11,0 | 3,2 | E, nub. | 11,1 | 4,2 | E, nub. |
| 13 | 11,8 | 1,7 | E, fer. | 28. 1,5 | 3,5 | E, fer. |
| 14 | 18. 1,8 | 1,5 | N-E, nix | 1,3 | 2,5 | O, nub. |
| 15 | 0,3 | - 0,6 | N, fer. | 27.11,6 | 1,2 | nebula |
| 16 | 27.11,0 | 0,5 | N-E, fer. | 10,0 | 2,0 | O, fer. |
| 17 | 9,6 | 1,2 | uebula | 9,0 | 0,0 | nebula |
| 18 | 9,1 | 1,0 | nebula | 10,5 | 0,0 | nebula |
| 19 | 11,8 | 1,0 | fer-nebul. | 10,6 | 1,0 | S-E, fer. |
| 20 | 10,6 | 1,0 | N,E,nebul-fer. | 9,5 | 1,0 | N-E, nub-fer. |
| 21 | 9,5 | 2,2 | N-E,fer-nebul. | 9,0 | 0,0 | N-E, fer-nub. |
| 22 | 7,5 | 1,5 | E, nebula | 4,0 | 0,8 | N-O, nub. |
| 23 | 2,8 | + 0,6 | E, nix | 4,5 | 2,0 | E, nub. |
| 24 | 4,5 | - 1,0 | nebula | 5,3 | 0,0 | nebula |
| 25 | 5,3 | 1,3 | nebula | 5,2 | 0,0 | E, nix |
| 26 | 5,0 | 0,0 | nix | 4,0 | 0,6 | O, nix |
| 27 | 3,0 | + 0,5 | O, nub. | 2,0 | 1,0 | O, nub. |
| 28 | 1,2 | 1,8 | O, nub. | 0,3 | 2,0 | O, nub. |
| 29 | 0,0 | 2,3 | nebula | 1,3 | 4,6 | O, fer. |
| 30 | 3,3 | 1,3 | E,*nub. | 5,0 | 0,6 | E, nub.nix |
| 31 | 6,0 | 0,0 | E, nub. | 8,3 | 0,5 | E, nix |

Altit. max. Bar. poll.28.lin. 1, 8 | Altitudo maxima Therm. + 6, 2
 minima . . . poll.27.lin. 0. | minima - 2 2
 media . . . poll 27.lin. 8, 5 | media + 0,24
 Quant. aquae pluv. poll. 2. lin.10,85
 Dies fereni . . 6.

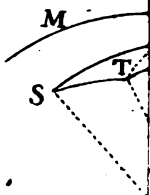


Fig. 1.

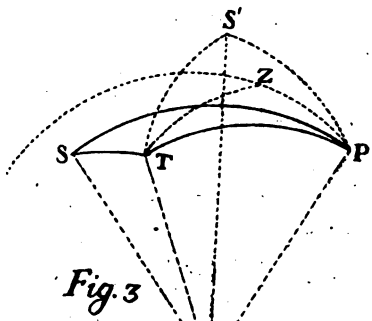


Fig. 3.

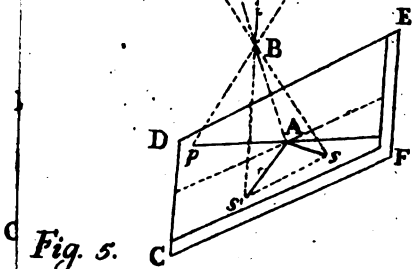


Fig. 5.



(Λ)





