

Doppelmeier

Atlas Coelestis.



Książnica Pomorska



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ATLAS NOVVS COELESTIS

IN QVO

MVNDVS SPECTABILIS,

ET IN EODEM

TAM ERRANTIVM QVAM INERRANTIVM STELLARVM

PHOENOMENA NOTABILIA,

CIRCA IPSARVM LVMEN, FIGVRAM, FACIEM, MOTVM, ECLIPSES, OCCVLTATIONES, TRANSITVS, MAGNITVDINES, DISTANTIAS, ALIAQVE

SECVNDVM

NIC. COPERNICI,

ET EX PARTE

TYCHONIS DE BRAHE,

HYPOTHESIN,

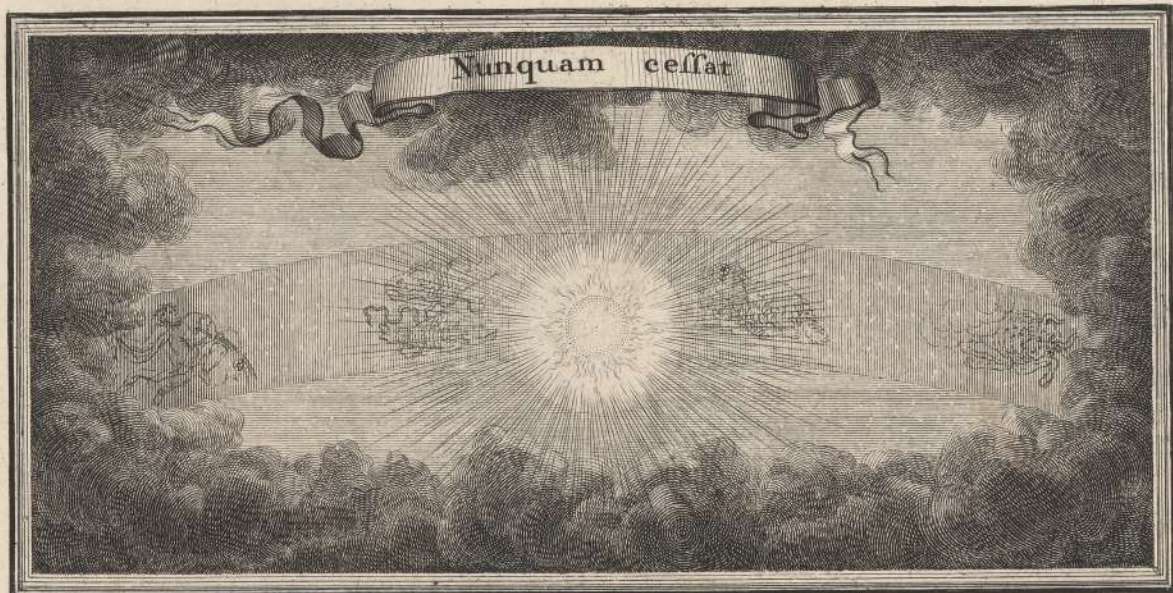
NOSTRI INTUITU, SPECIALITER, RESPECTU VERO AD APPARENTIAS PLANETARVM INDAGATV POSSIBILES, E PLANETIS PRIMARIIS, ET E LUNA HABITO, GENERALITER,

E CELEBERRIMORUM ASTRONOMORVM OBSERVATIONIBUS
GRAPHICE DESCRIPTA EXHIBENTVR

A

IOH. GABRIELE DOPPELMAIERO,

ACADEMIARVM IMPP. LEOPOLDINO-CAROLINAE ET PETROPOLITANAE, SOCIETATVMQVE REGG. SCIENTIARVM, BRITANNICAE ET BORVSSICAE, SODALI, NEC NON PROFESSORE PVBL. MATHEMATVM NORIMB.



NORIMBERGAE,

Sumptibus Heredum Homannianorum. A. 1742.

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QVÆ IN HOC

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ATLANTIC

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I. The Atlantic Ocean is the second largest of the world's oceans, covering an area of approximately 106,460,000 square kilometers. It is bounded by North America to the west, South America to the south, Europe and Africa to the east, and the Arctic Ocean to the north. The Atlantic is characterized by its vast expanse, deep waters, and numerous islands and archipelagos. It plays a crucial role in global climate regulation and international trade.

II. The Atlantic Ocean is home to a diverse range of marine life, including various species of fish, marine mammals, and invertebrates. The ocean's depth and varying temperatures create different habitats, supporting a rich biodiversity. Notable features include the Mid-Atlantic Ridge, which is a tectonic plate boundary, and the Bermuda Triangle, a region of mysterious disappearances.

III. The Atlantic Ocean is a major source of weather systems that affect the Americas and Europe. It is the birthplace of hurricanes and typhoons, which can cause significant damage and loss of life. The ocean's currents, such as the Gulf Stream, play a vital role in regulating the climate of the surrounding landmasses.

IV. The Atlantic Ocean is a vital part of the world's economy. It is a major shipping lane, connecting the Americas, Europe, and Africa. The ocean is also a source of valuable resources, including oil, natural gas, and fish. The Atlantic's strategic importance is underscored by its role in global trade and security.

V. The Atlantic Ocean is a subject of ongoing scientific research. Scientists are studying the ocean's deep-sea ecosystems, the effects of climate change, and the potential for new discoveries. The Atlantic's vastness and complexity make it a fascinating area of study for marine biologists, geologists, and climatologists.

VI. The Atlantic Ocean is a key component of the Earth's climate system. It absorbs and redistributes heat, influencing the global temperature. The ocean's currents and winds play a significant role in the greenhouse effect and the carbon cycle. Understanding the Atlantic's role in climate change is essential for predicting future weather patterns and developing effective mitigation strategies.

VII. The Atlantic Ocean is a source of inspiration for art, literature, and culture. It has been the setting for numerous stories, songs, and films. The ocean's beauty and mystery have captivated the human imagination for centuries. The Atlantic's role in history, from the Age of Exploration to the modern era, is a testament to its enduring significance.

VIII. The Atlantic Ocean is a challenge for environmental conservation. It faces threats from pollution, overfishing, and climate change. Protecting the ocean's health requires international cooperation and sustainable practices. Efforts are being made to reduce plastic waste, manage fisheries responsibly, and combat the effects of global warming.

IX. The Atlantic Ocean is a source of pride and identity for the people of the Americas and Europe. It is a part of their heritage and a source of pride. The ocean's role in their history and culture is deeply ingrained. The Atlantic's beauty and resources are a source of pride for the people who live along its shores.

X. The Atlantic Ocean is a source of hope for the future. It offers a glimpse into the vastness and beauty of the natural world. It reminds us of our place in the universe and the importance of protecting our planet. The Atlantic's challenges are also opportunities for growth and innovation. By working together, we can ensure a sustainable and healthy future for the Atlantic Ocean and the world it sustains.

SPHÆRA MUNDI

Per circulos tam primarios quam secundarios cum punctis, lineis et angulis notabilioribus, in triplici respectu Horizontis situ, pro motu stellarum primo aliisq; harum Phænomenis in genere tradendis, exhibita
a IOH. GABR. DOPPELMAIERO, Math. Prof. Publ. Acad. Imper. Leopoldo-Carolinæ Naturæ curiosorum et Acad. Scient. Regiæ Prusiciæ Socio.
Opera IOH. BAPT. HOMANN, Sac. Cæs. Maj. Geogr. Noribergæ.
Cum Privilegio Sac. Cæs. Majestatis.

De circulis, punctis, lineis et angulis Sphæræ insignioribus.

Inter circulos Sphæræ mundanæ eminentiores, tanquam primarij, quatuor.
I. Equator, EQ , axis Poli P et P' idem cum Poli mundi, axis, linea PP' .
II. Elliptica EC , huius Poli P et P' axis, linea RR' .
III. Meridianus $HZON$, axis Poli in Horizonte rationalis ad T et T' in puncto veri ortus et occasus.
IV. Meridianus $HZON$, axis Poli in Horizonte rationalis ad T et T' in puncto veri ortus et occasus.
Secundarij sunt, et quidem tam majores quam minores, qui primariis respectant, alij enim sunt.
I. respectu Equatoris majores, circuli ascensionum, rectarum PA , inter hos etiam, sunt Colu-
mæ æquinoctiorum ETN et CT , solstitialium $HZON$, minores, et cum eodem paralleli, circuli de-
clinationum DAH (Fig. I) inter quos præcipui, 2. Tropici, Tropici cancri IC et tropici capri-
corni IK , 3. Polares, Polaris, arcticus RE et antarcticus RG .
2. respectu Ellipticæ alij majores, circuli longitudinum $2. g. RIR$, alij minores, paralleli Ellip-
ticæ circuli Latitudinum, dicti, ex his præcipuis notandi circuli ex cuspibus $UUUU$.
3. respectu Horizontis, majores (Fig. II) sunt circuli verticales, s. azimuthales, $2. g. ZTN$ mi-
nores, et paralleli circuli altitudinum, s. circuli Amicanturati ad PV . Inter hos vertica-
les palmarij sunt, verticales primarij $2. TN$ et Amicanturati gradus, circuli, quæ per
veritatem et per Ellipticæ polos transeunt, et hic cum meridiano coincidunt.
E. concussu horum circulorum varij anguli occurrunt, et primo quidem primarij cum
primariis.
1. Ang. Equatoris et Horizontis QTO vel ATH (2) Ang. Equatoris et Ellipticæ
 ETA vel UTQ , qui obliquitas Ellipticæ dicitur (3) Ang. Ellipticæ et Horizontis
 OTC Ang. Orientis dicitur (4) Ang. Ellipticæ cum meridiano TCQ tandem primari-
orum cum secundariis (2) Ang. Equatoris cum verticali primario (3) Ang. Equato-
ris cum alio verticali (4) Ang. Ellipticæ et verticali (5) Ang. Ellipticæ et circuli
declinationis (6) Ang. Horizontis et circuli declinationis (6) Ang. Meridiani et
verticalis (7) Ang. Meridiani et circuli Ascensionis rectæ, sic.

De vario corporum et punctorum celestium situ.

Emota siderum et punctorum in celo notabilium diversus oritur, situs, hic in singulis et
respectu et absolutus, respectus est cum eadem ad alia corpora et puncta, maxime ve-
ro ad circulos Sphæræ primarios, medianibus secundariis per distantias Sphæræ, h. e. per
arcus expendantur, talis distantia dicitur.
I. respectu Equatoris ad TW (Fig. I) Ascensio recta, alia Declinatio, quæ duplex borealis A
et australis, a et z .
II. respectu Ellipticæ TX longitudo, et latitudo, quæ pariter duplex borealis, l , X , et aus-
tralis, l , z .
III. respectu Horizontis, cum oritur stella (Fig. II) in Y , OY Azimuthum, YT amplitu-
do ortus, complementum prioris ad 90° YT (in Fig. I) amplitudo occasus, ubi ad Y ,
occasus huius. Si ad Equatorem simul relati ortus et occasus astronomici, vel spe-
cialius ascensio et descensio, quæ recta et obliqua, ad horizontem vero et solem si-
mul relati, ortus et occasus prædicti dicuntur, VY , altitudo Stelle $2. g.$ profundi-
tas Stelle (Fig. II).
IV. respectu meridiani, ad D (Fig. I) culminatio Stelle, et simul ad Horizontem
 DO , altitudo eius meridiana, et ad Equatorem simul mediatio coeli ad Q , hinc
 DA , elongatio a Meridiano vocatur, Situs absolutus, qui locus dicitur, vel pñe-
ficius, ut in p (Fig. V) vel opticus ut ad a , et z , quorum unus e centro Terræ
 z , ad z , verus, alter a , apparentis, hunc partim pa-
rallelos (in Fig. V) partim refractiones (in Fig. VI) et vero, in Horizonte, magis
circa verticem minus differtien-
tem sistant.

Sphæra recta

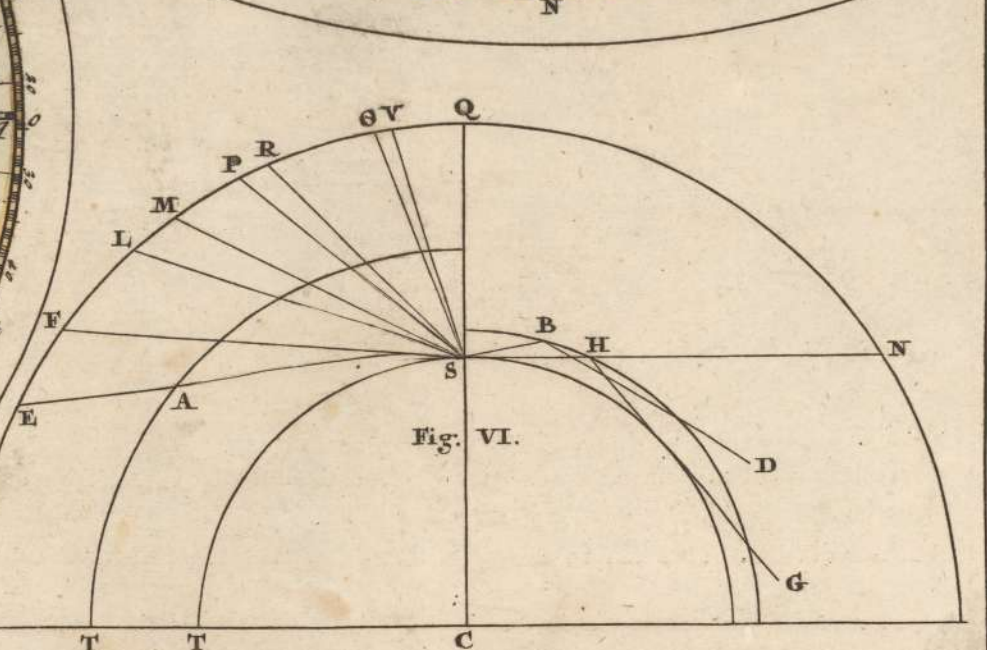
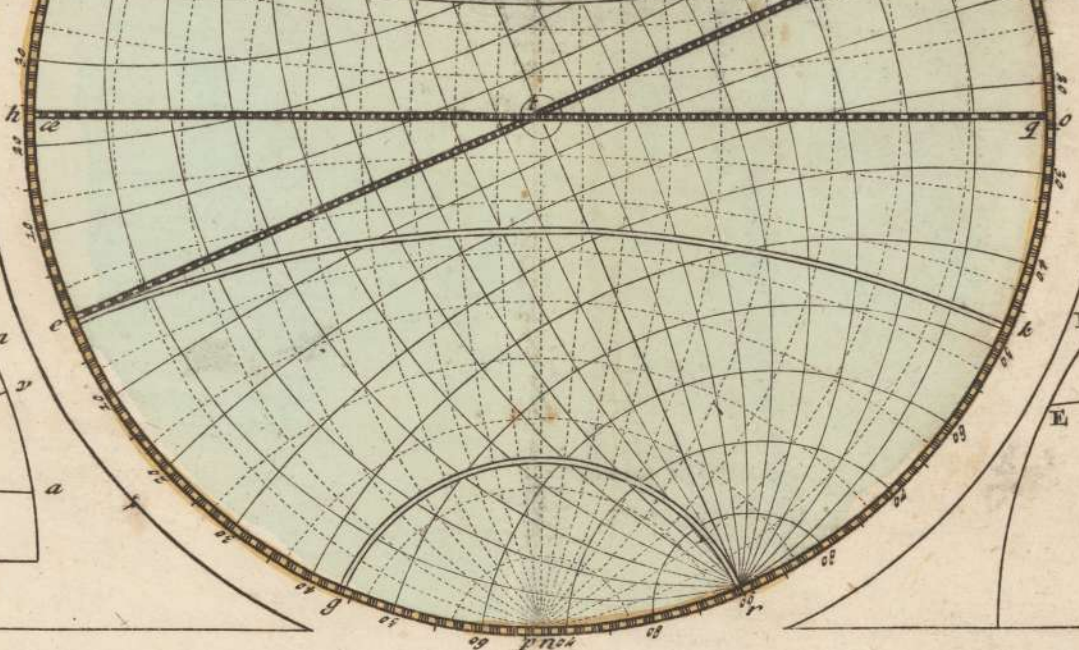
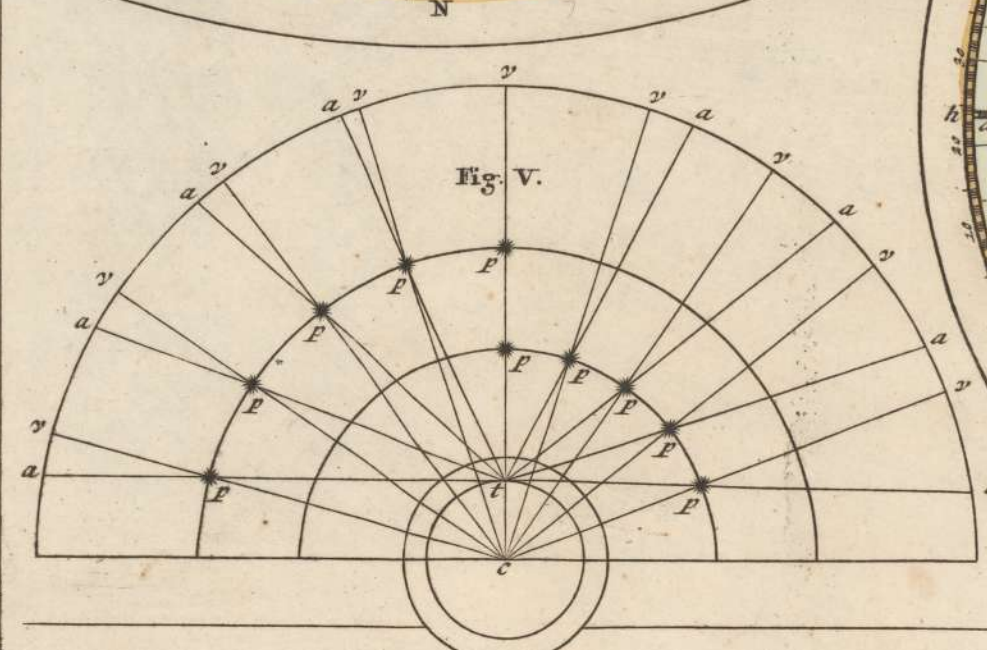
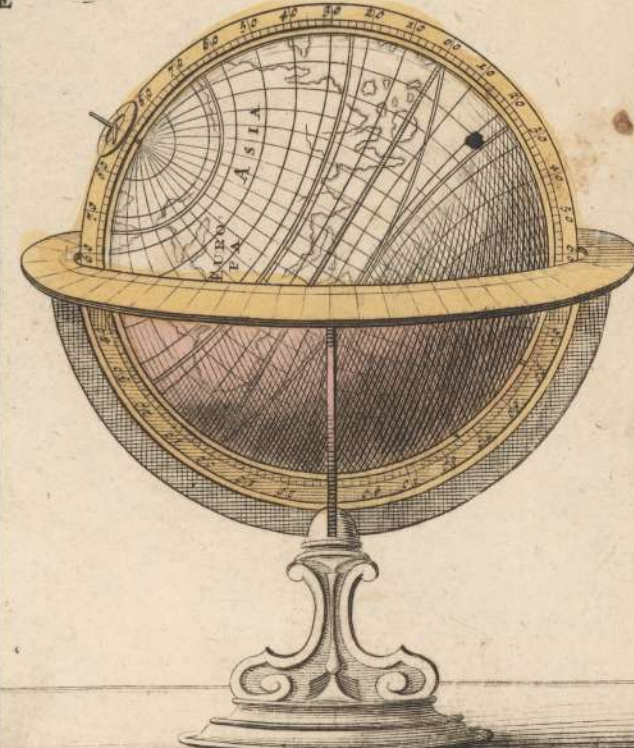
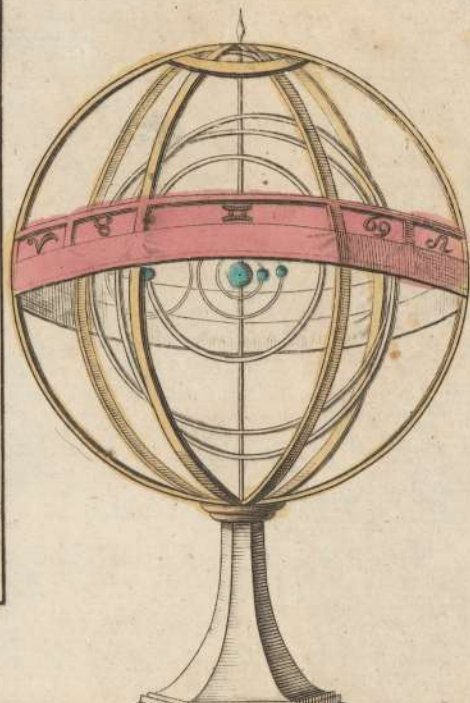
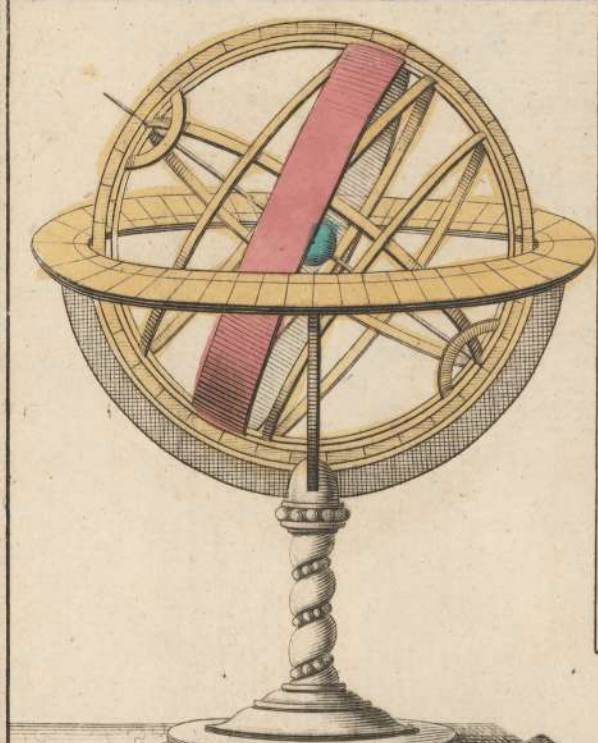
Fig. III.

Sphæra parallela

Fig. IV.

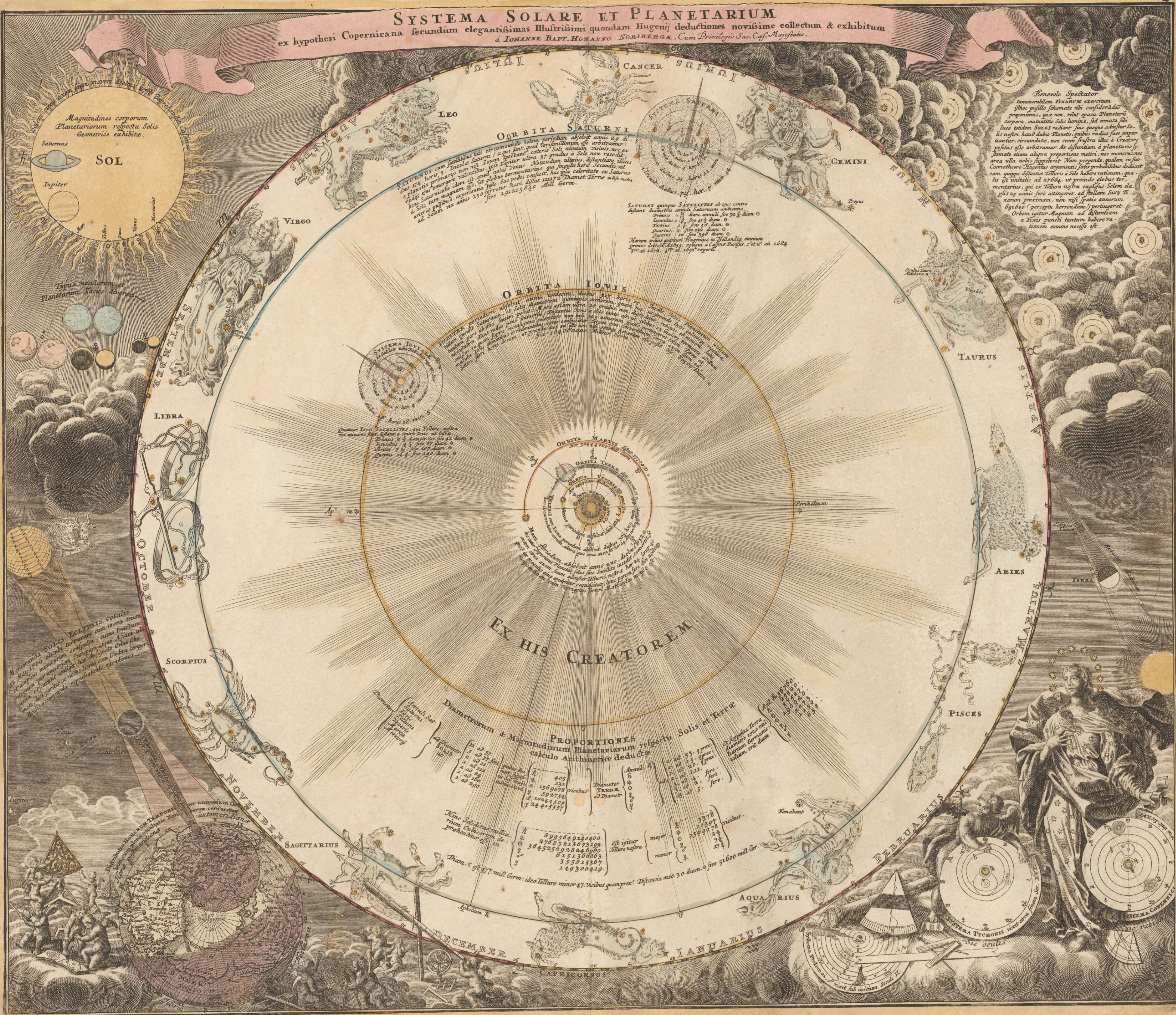
Fig. V.

Fig. VI.

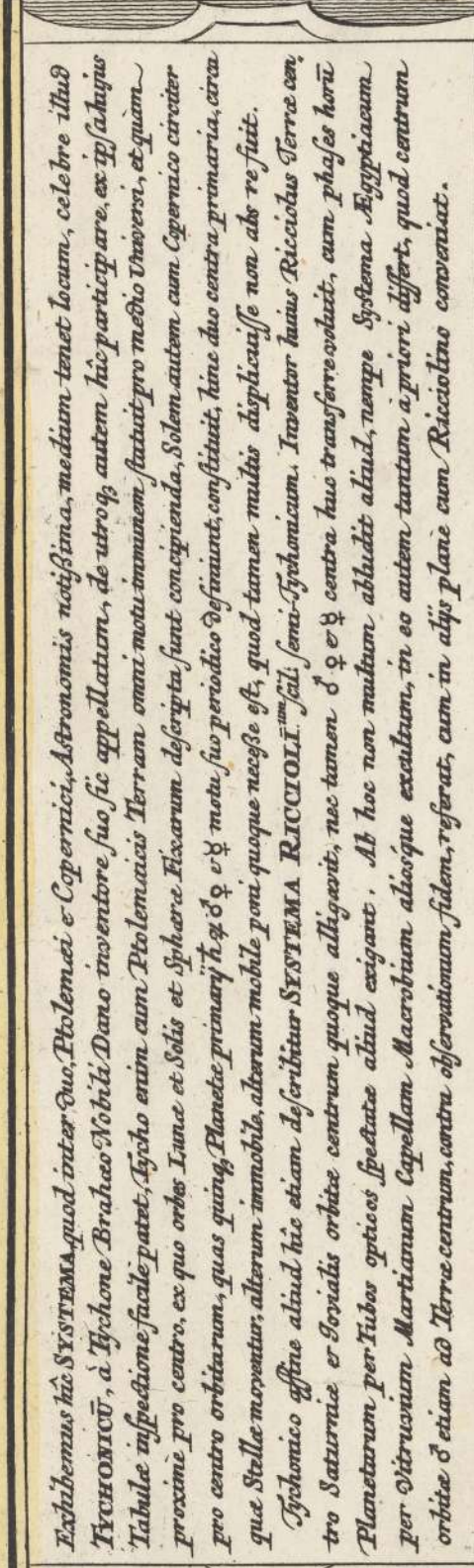


SYSTEMA SOLARE ET PLANETARIUM
ex hypothesi Copernicana secundum elegantissimas Illustrissimi quondam Hugeni deductiones novissime collectum & exhibitum
à IOHANNÉ BAPT. HÖRNAYO NORIBERGÆ, Cum Privilegio Sac. Cæs. Majestatis.

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operâ IOH. BAPT. HOMANNI Norimbergæ. Cum Privilegio Sac. Cæs. Majestatis

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THEORIA PLANETARUM PRIMARIORUM,

In qua ipsorum motus in Copernicano Systemate tam ex Kepleri et recentiorum Astronomorum, quam aliorum, ut Sethi Wardi, Ismaelis Bullialdi et Nicolai Mercatoris Hypothesibus Ellipticis demonstrantur, exhibente.
IOH. GABR. DOPPELMAYERO, Mathem. Prof. Publ. Acad. Cæs. Leopoldino-Carolinæ, Naturæ Curiosorum, et Acad. Scient. Regiæ Prussiæ Socio,
Sumptibus IOH. BAPTISTÆ HOMANNI S. Cæs. Maj. Geographi et c. Noribergæ. Cum Privilegio Sac. Cæs. Majest.

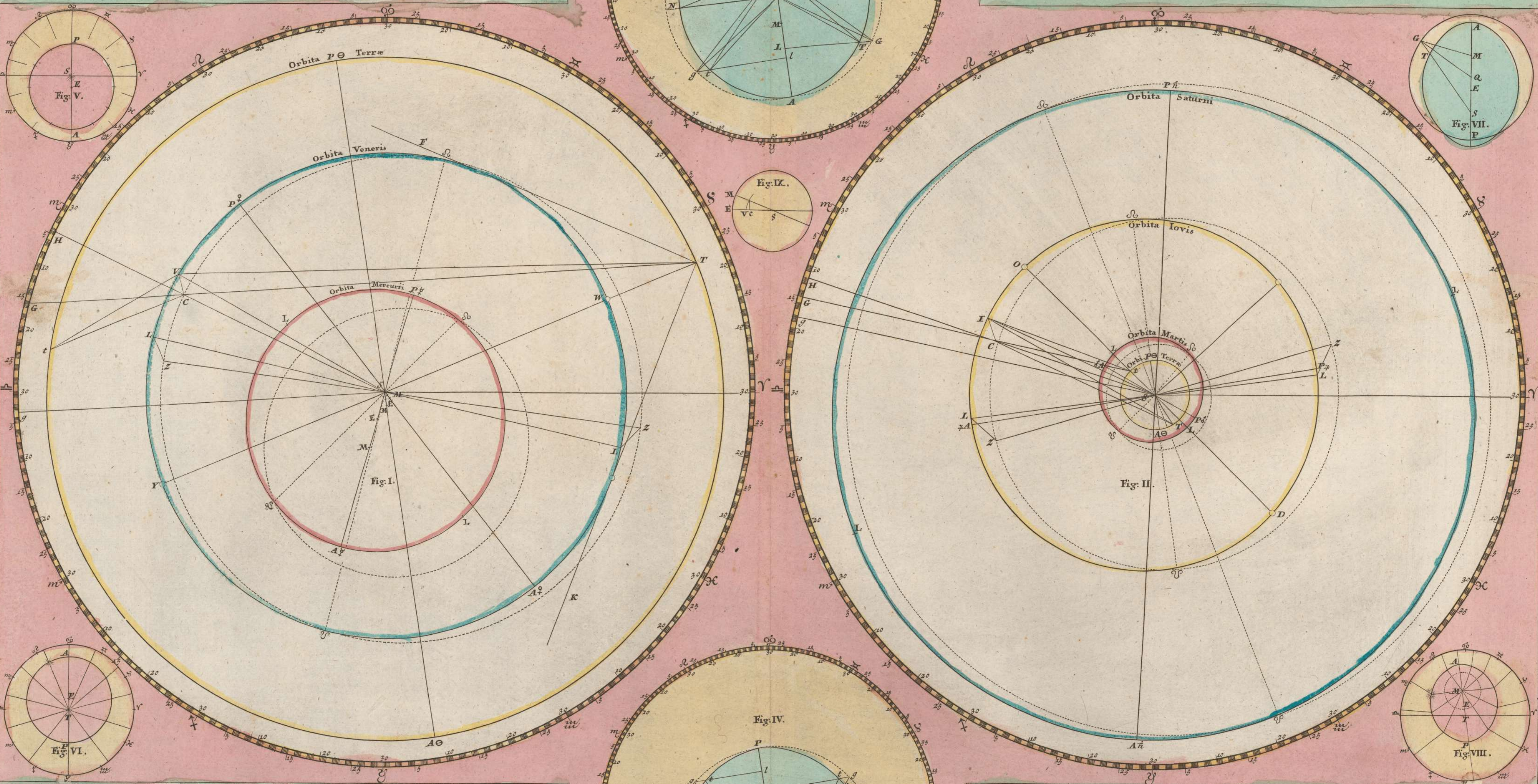
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De planetarum primariorum motu in genere, ex Kepleri recentiorumque Astronomorum Hypothesi.

Terra, ceterique primarij in Orbibus, circa solem, quoad situm et magnitudinem, diversis, figure Ellipticæ, a circulari tamen non multum recedentis, tam ex Kepleri quam aliorum assertionibus per observationes innumeras hactenus firmatis, hac perpetuo moventur lege, ut, radio (Fig. 3) ex S Solis centro et communi omnium foco ad locum Planetæ in Tr. g. ducto, quilibet arcum AST, Tempori, quo planeta ab ejus Aphelio A ad T movetur, proportionatum, hoc est, æqualibus temporibus, æquales areas sive portiones ellipticæ describat et ut tempus integræ cuiusque periodi ad tempus, quo planeta ab Aphelio A ad Tr. g. pervenit, sic area totius orbitæ ellipticæ ad aream AST se habeat. His positis sequitur quod planeta quovis circa Aphelium tardius, circa Perihelium celerius, prout a sole remotior aut illi propior est, et sic motu semper inæquali circa Solem volvatur, hac inæqualitas planetis propria et vera prima, ad differentiam secundæ, quæ optica et e motu terræ resultans anobis deprehenditur. Astronomis dicta, pro hac indaganda Keplerus circumscriptis, ut designet arcus huius, exhibeatque mensuram temporis, quod planeta in illis insinit, quorum subsidio Anomalias horum motuum exhibuit, et quod quærebatur ex voto exsolvit.

De motu telluris annuo speciatim.

Inter planetarum motus ille Telluris, qui et motus Solis apparentis et omnium primariorum basis est, imprimis eminet, hunc, prout reliquos, omnes ante Keplerum Astronomi exacte circulem et prout æqualem asseriebant, et cum terræ corpus, vel secundum TychoNICOS, Sol in circulo cum Eclipticæ eccentrico feratur, alterutrum in eadem (prout Fig. V et VI indicat) apparenter tantum inæquali motu pro volvi credebant, sed Keplerus meliora edoctus ex observationibus TychoNICIS cognovit motum itum vere inæqualem. Theoriam huius ex mente Kepleri et eorum qui vestigia eius premunt, Fig. III. aliorum vero, qui ex altero orbite terræ umbilico motum medium et æqualem statuunt, Fig. IV et VII. indigitat. In his in A est Aphelium, in P Perihelium, quod ex TychoNICIS Hypothesi Fig. VIII. Apogæum et Perigæum dicitur, circa quæ puncta anomaliam motus maxime inter se differt, dant ad A motus sit tardissimus ad P vero celerissimus, et illic per aliquos dies singulos nequidem 37 minuta exsuperet, hic vero 61 minuta conficiat. Ex his tandem sua sponte fluit, cur sol ducta per æquinoctiorum puncta et per orbitem telluris lineam, in borealibus Eclipticæ signis diutius et quidem per octiduum fere quam in Australibus hæreere videatur, quod ex Phenomenis motus huius præcipuum est.



De punctis, lineis, angulis, arcibus in Theoria superiore occurrentibus.

In orbita p. he æquæque elliptica Fig. III. PNAR sequentia puncta notanda (1) Toci duo, quorum unus in S in quo centrum Solis, alter in M (2) E medium inter focos punctum, orbitæ centrum (3) duæ apices (4) Apices Apsidis, Aphelium, Perihelium, Apsis, Perihelium (5) Nodi duo (Fig. I et II) S. Nodus boreus ascendens, V. Nodus australis descendens (6) L. Locus planetarum, Lineas et distantias rectas constituent (7) A. P. axis et diameter ellipticæ major (8) Apsidium linea, in qua (9) S. E. eccentricitas (10) S. M. focorum distantia (11) S. A. distantia planetæ a Sole maxima (12) S. P. distantia illius minima (13) R. N. diameter ellipticæ minor (Fig. III) (14) S. M. focorum distantia (15) S. N. et S. R. quorum quilibet linea E. A. vel E. P. semiaxi majori æqualis distantia planetæ a Sole media (16) linea per centrum Solis K. S. O. axi majori perpendicularis, Kepleri Dilectus (17) G. L. Sinus rectus arcus GA (18) TL ordinatim applicata (19) S. Q. P. linea Nodorum (Fig. I et II) (20) V. S. I. S. distantia planetæ a Sole (21) C. S. distantia planetæ a Sole curvata (22) V. C. (Fig. IX) differentia inter hanc et illam curvatio dicta (23) T. V. T. I. (Fig. I et II) vera Planetæ a terra distantia (24) T. S. distantia Terræ a Sole Angulos et areas sequentia exhibent (25) Anomalia media (Fig. Kepleri III) est area AST, vel æquivalens ASG, aut tempus, quo planeta ar. cum orbitæ suæ v. g. AT describit (26) Anomalia eccentrici arcus AG (sive ang. AEG) qui curvæ ellipticæ AT, respondet (27) Anomalia coequata, ang. AST (28) Equatio vel Prosthaphæresis T. E. S. huius duo sunt partes, altera phærica, area triangularis E. ST (quod triangulum æquatorum dicitur) vel æquivalens E. S. G, altera, optica, ang. E. T. S. (29) Inclinator orbitæ ang. L. S. Z. (Fig. I. II) (30) Inclinator planetæ sive latitudo heliocentrica, ang. V. S. C. I. S. C. (31) Argumentum inclinationis sive lat. helioc. S. V. I. S. C. (32) Reductio ad Eclipticam, differentia inter arcum V. S. C. I. S. C. et C. S. V. (33) Angulus computationis s. ang. ad Solem, ang. T. S. C. (34) parallaxis orbis sive æquatio centri, ang. T. C. S. (35) Elongatio planetæ a Sole sive ang. ad Terram, ang. S. T. C. quæ in inferioribus planetis interdum maxima et ob eccentricitatem orbitarum inæqualis, prout ang. S. T. E. et S. T. K. subindicat, nulla vero, cum planeta est in conjunctione, cum Sole, quæ in inferioribus duplex, alia inferior sive perigæa ad W. alia superior sive apogæa in Y. hæc elongationes planetæ a Sole notabiliores in superioribus contingunt cum planeta est cum Terra in quadratura, ut ang. T. S. L. in Fig. II. alia, si in oppositione ad D. nullam conjunctionem ad O. Tandem notetur Latitudo planetæ geocentrica C. E. V. C. T. V. C. E. T. I. C. T. I. quorum illa major, hæc minor quam heliocentrica, Longitudo Heliocentrica H. S. V. geocentrica ad G. sive potius ad parallelam g. s. in Eclipticâ, a principio V. numerata in quilibet harum Figurarum.

De Hypothesibus aliis et quidem Sethi Wardi Ismaelis Bullialdi, et Nicolai Mercatoris.

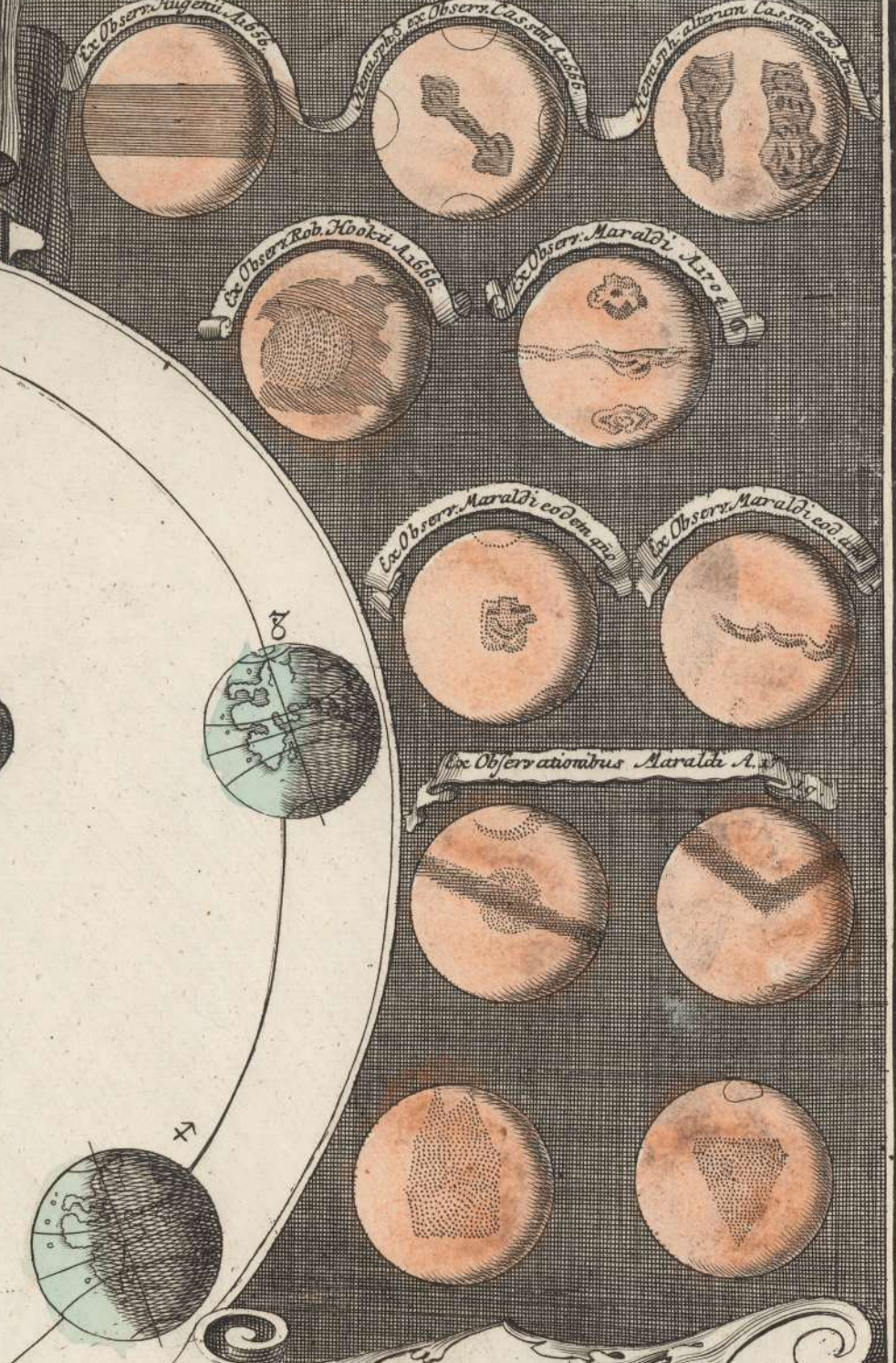
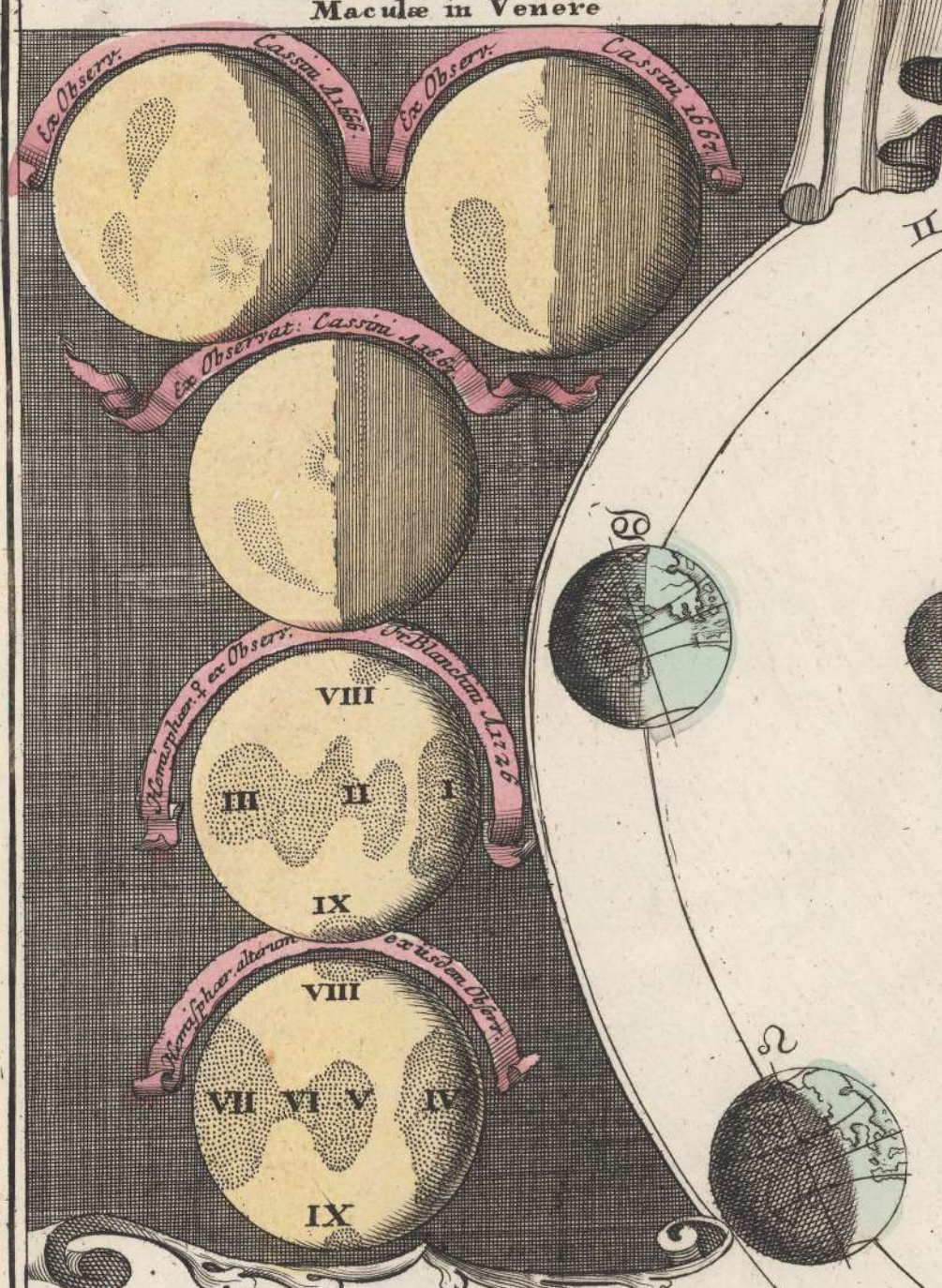
Præter Theoriam Keplerianam complures Hypotheses quoque alias ellipticas excogitaverunt, primo vero Sethus Wardus et Comes Paganus, hoc fundamento nisi, nempe unumquemque planetam in peripheria orbitæ suæ ellipticæ sic ferri, ut ex altero foco in M (Fig. IV) spectatus temporibus æqualibus æquales quoque illic arcus v. g. ducto radio ex hoc centro ad planetam T æqualem tempori arcum T. A. ad angulum A. M. T. Anomaliæ mediam absolveret. Hinc angulum Bullialdus Observati. onibus magis respondentem, correctoremque postmodum tradidit ducendo axi majori perpendicularem (quæ tunc in L circuloque per diametrum A. P. descripto in G occurrit) ut et lineam M. G. hinc enata (1) Anomalia media vera, scilicet, ang. A. M. G. (2) B. locus planetæ correctus in sua orbita (3) B. S. distantia planetæ a Sole correctæ (4) Ang. T. M. G. differentia inter Anomaliæ mediam A. M. T. et Anomaliæ veram A. M. G. Stricto variatio dictus (5) Ang. M. S. B. Anomalia coequata (6) Ang. M. B. S. variatio elliptica (7) Ang. F. B. S. ducta linea F. B. lineæ T. M. parallela æquatio absoluta Tandem vero Nicolaus Mercator cum ex dictis deprehenderet, focum motus medio designatum a centro orbitæ nimis remotum esse, distantiam focorum M. S. (Fig. VII) secundum extremam et mediam rationem secundum consuetudinem ut scilicet in Q, quæ ab ipso di. vine nominata, supra E. centrum orbitæ, et M. centro motus medi propior esset, ex qua radio Q. G. quæ æqualis semiaxi majori E. A. vel E. P., circulus describeretur, cuius ope dato planetæ loco in T et distantia a Sole T. S., Anomalia media A. M. G. Anomalia coequata A. S. G. et Prosthaphæresis M. G. S. exactius produci posset. Hæc tam Wardi Hypothesis, quam correctio Bullialdi et Mercatoris pro concinna approximatione ad verum systema merito præstantissimorum Astronomorum iudicio haberi potest, interim tamen Kepleriana magis conveniens palmam his omnibus præcipere videtur.

Celidographia: Descriptio macularum in Venere a Fr. Blanchino exhi-
I. Mare Is. regium Johannis IV. Mare IV. Pr. Constantini VII. Mare VII. Galilei
II. Mare II. regium Henrici V. Mare V. Columbii VIII. A. boreum. f. Arct. Pol.
III. Mare III. Reg. Emanuelis VI. Mare VI. Vespucii IX. A. austr. f. Magel.
Lancum

PHENOMENA IN PLANETIS PRIMARIIS

Quae facies diversas, ex illorum phasibus, maculis et fasciis seu zonis ortas, sistunt, exhibita
IOH. GABR. DOPPELMAIERO, Acad. Imp. Leopoldino-Carol. Nat. Cur. Societatum, Regiarum Britannicae et Borussicae Sodali et Math. PP.
Sumptibus Heredum Homannianorum, Nörmbergae.

Zonae & maculae varii generis in Marte

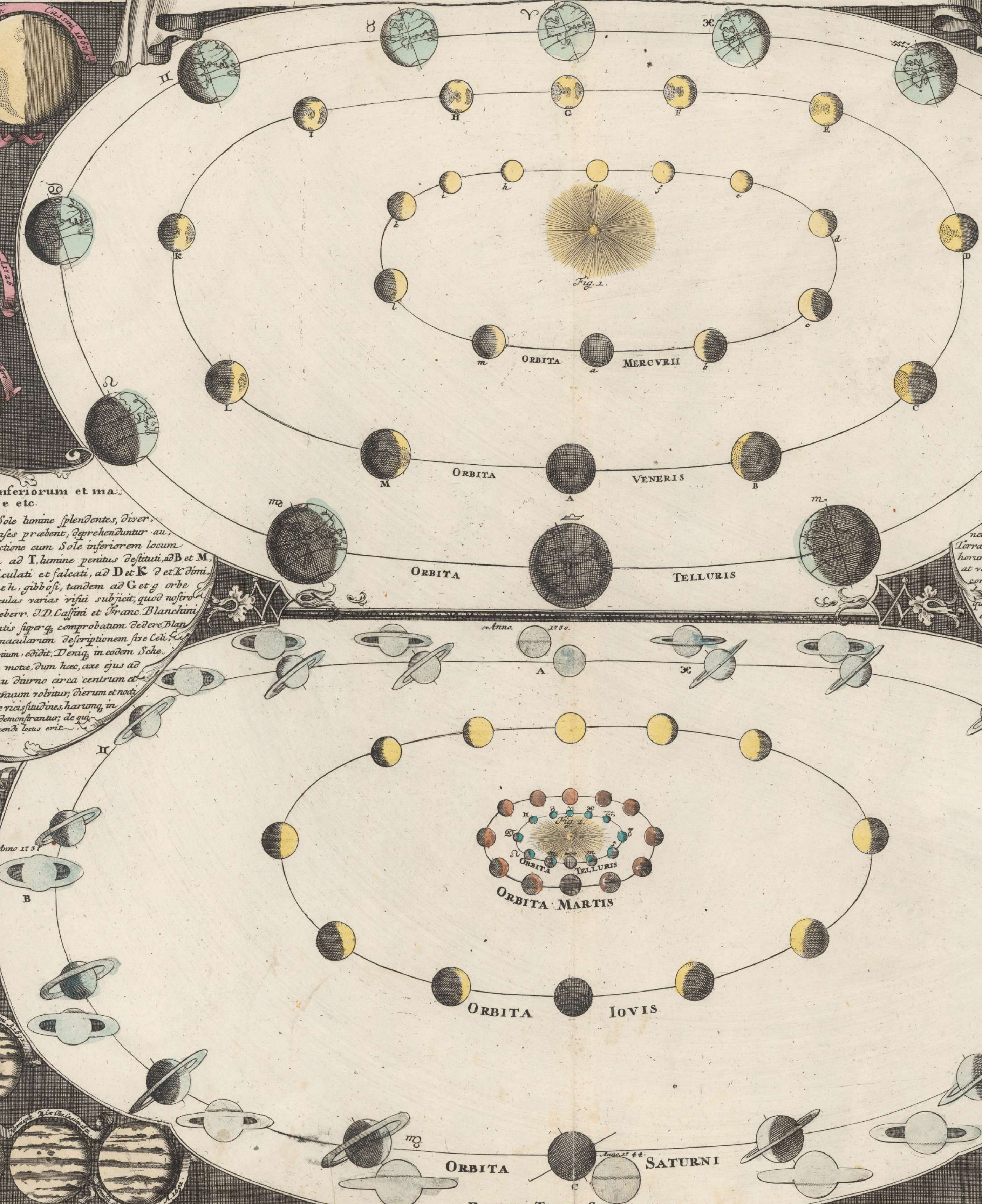
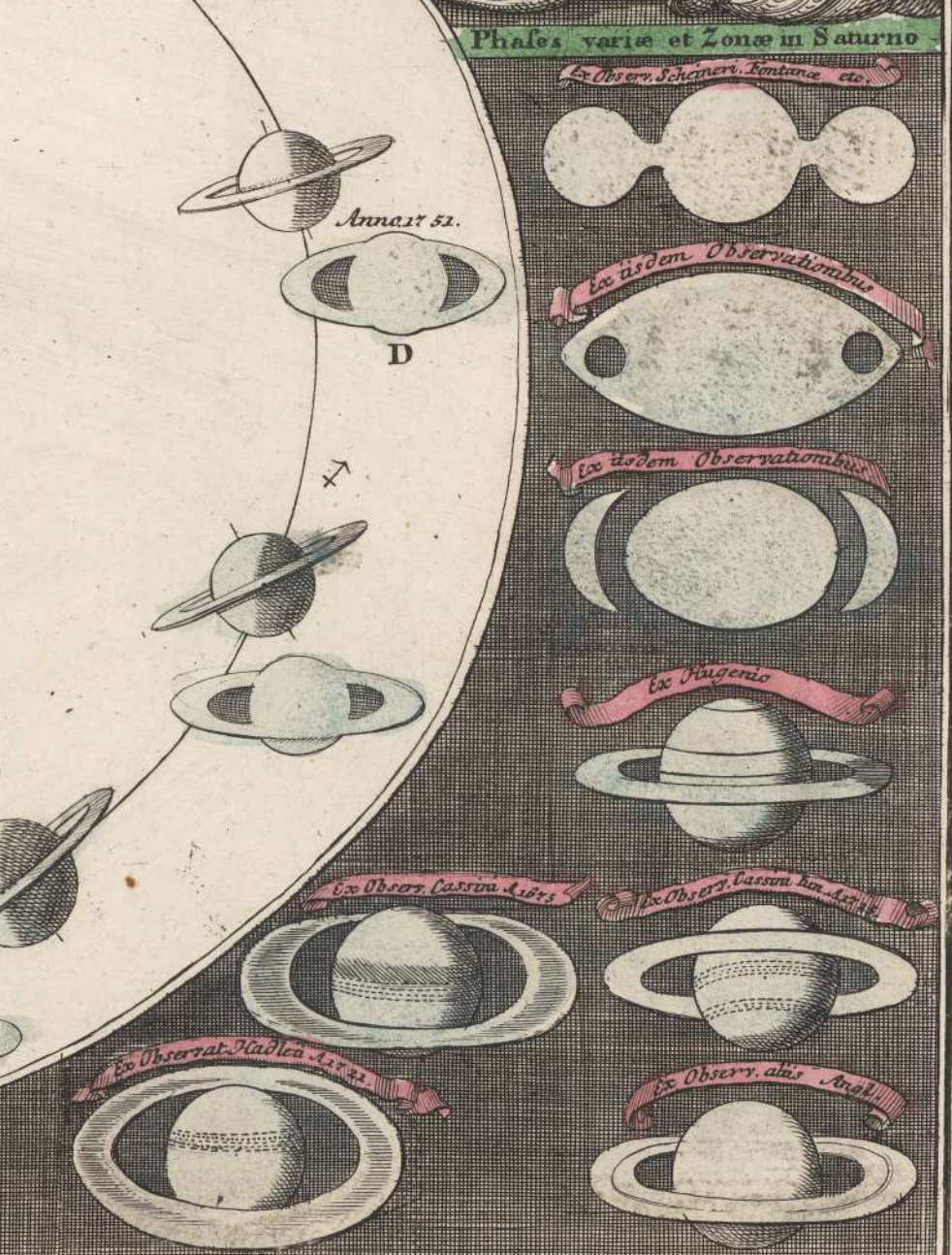
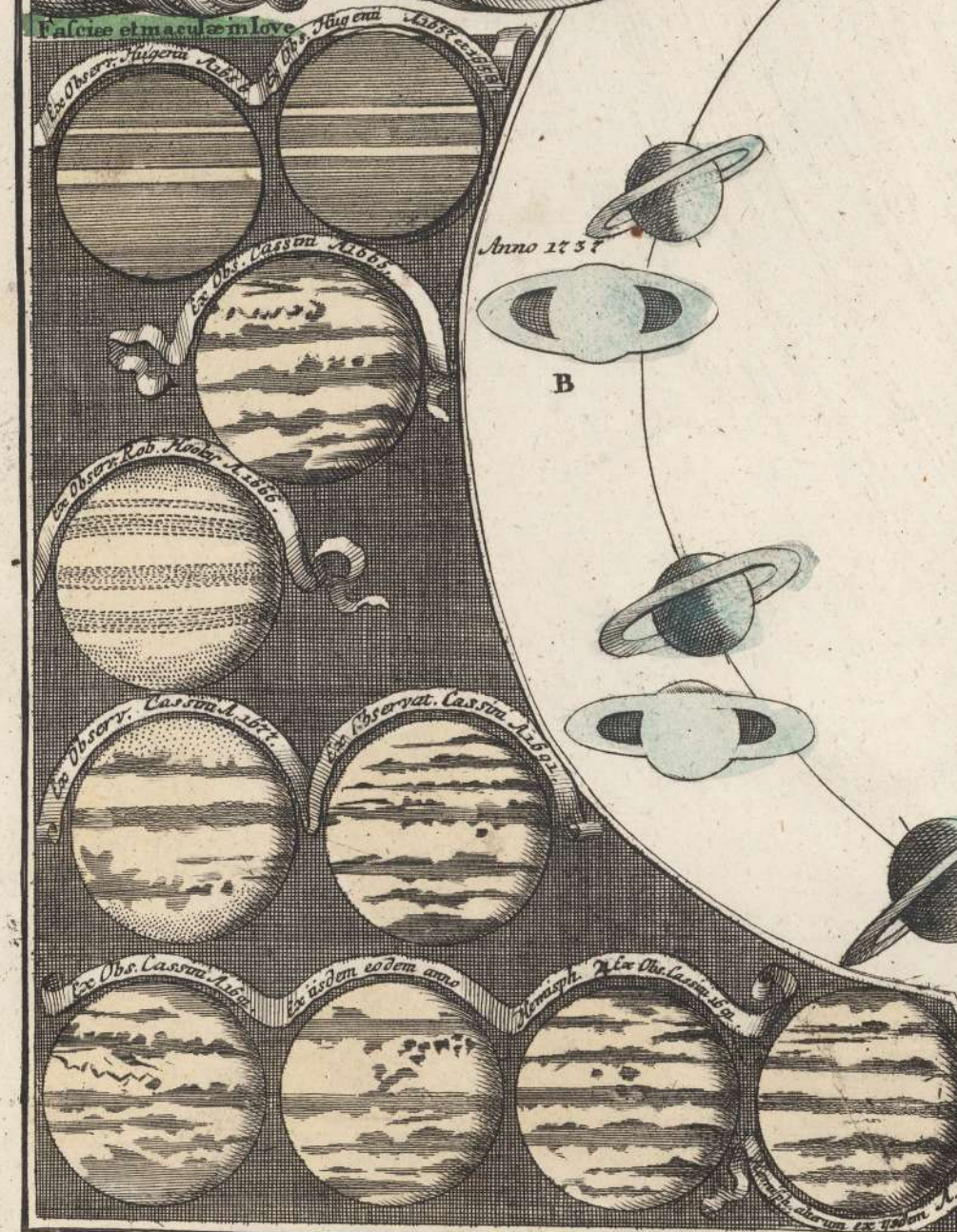


De Phasibus Planetarum inferiorum et maculis in Venere etc.

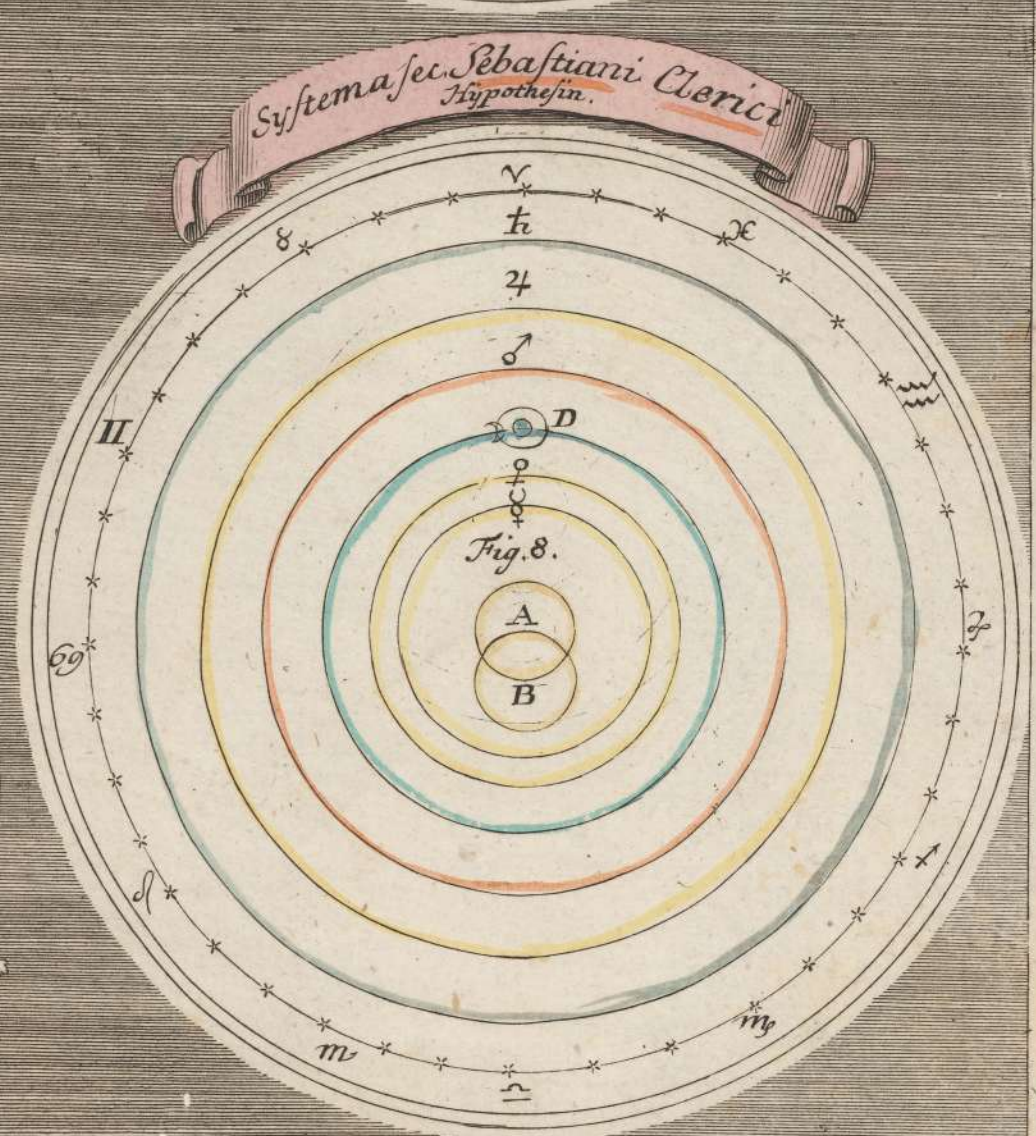
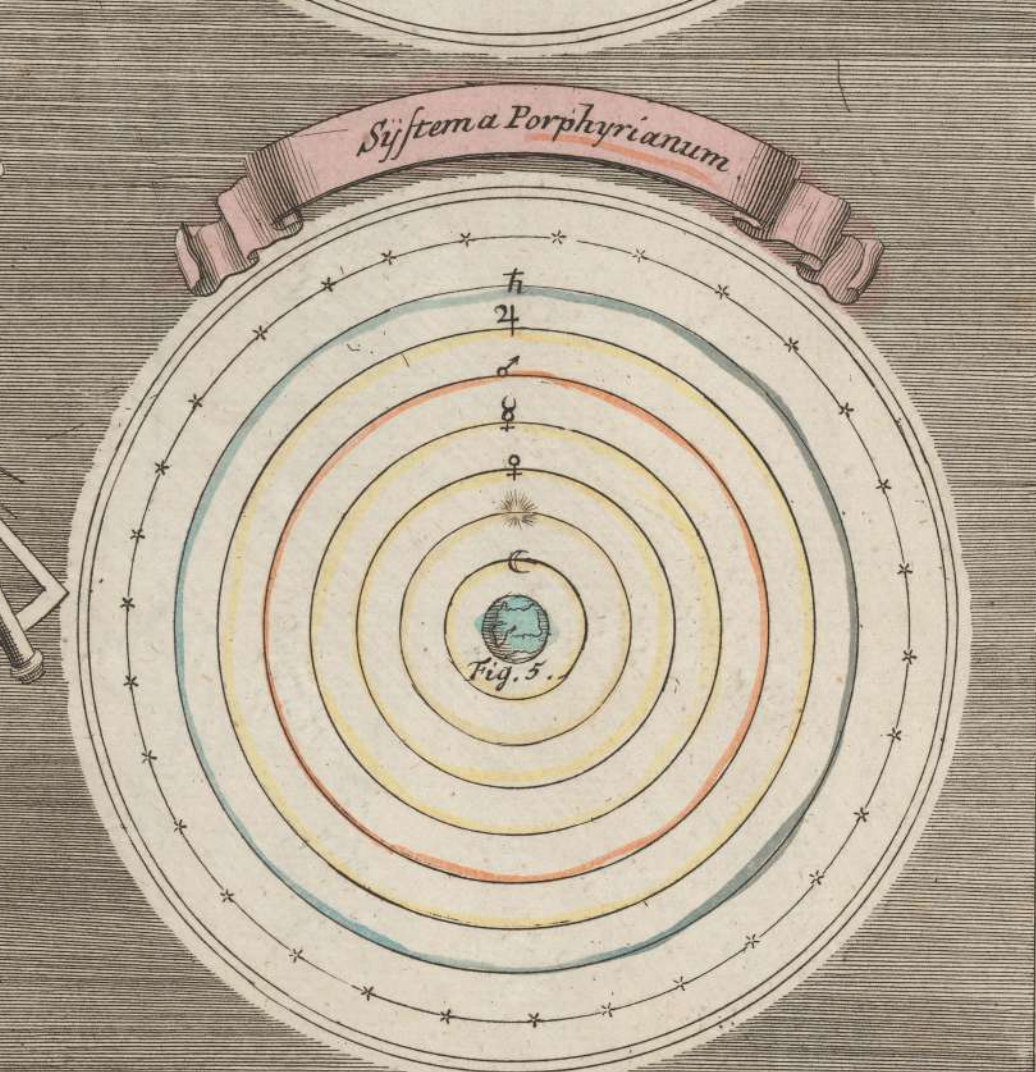
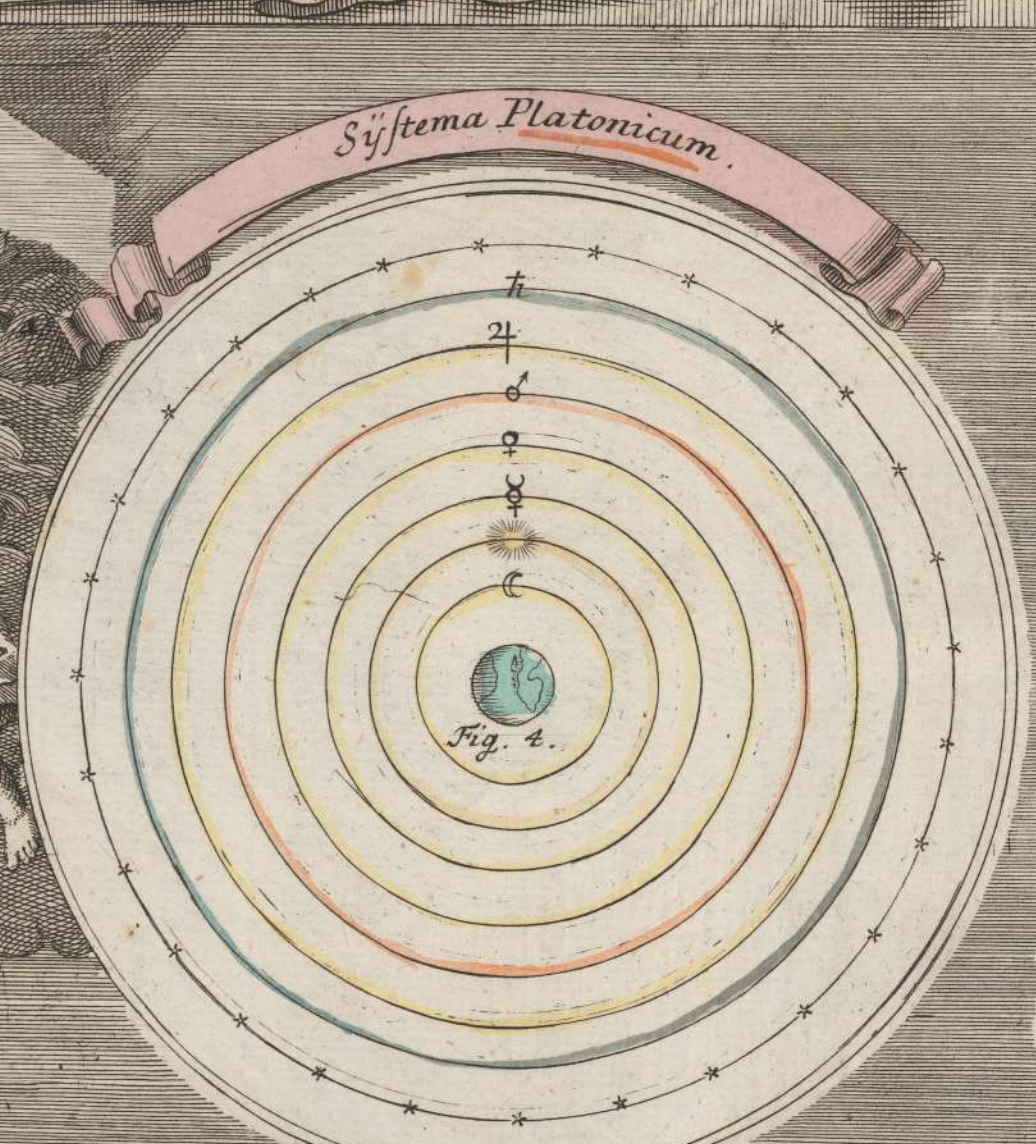
Planetae inferiores, mutuo à Sole lumine splendentes, diver-
sas nobis e terra spectandas Phases praebent, apprehenduntur au-
tem illi, cum ad A. et a in Coniunctione cum Sole inferiorem locum
obtinent, (vid. Fig. 2.) ex Terra ad T. lumine perituri desituti, ad B. et M.
C. et L. ut et ad b. et m. et l. corniculati et falcati, ad D. et K. et et K. dimi-
diati, ad E. et i. f. et h. gibbosi, tandem ad G. et g. orbe
pleno fulgentes. Venus porro maculas varias visui subijcit, quod nostro
aero Observationes virorum celeberr. J. D. Cassini et Fr. Blanchini
optimae notae Tubis infusitae satis superque comprobatione dedere. Blau-
chius etiam novam harum macularum descriptionem sive Celi
dographiam, et quidem primo omnium edidit. Denique in eodem Sohe-
matismo primo, ex Hypothesi terrae motae, dum haec, axe ejus ad
Eclipticae planum inclinato, motu diurno circa centrum et
per orbitam suam, intra spatium annuum rotatur, dierum et nocti-
um varietates, tempestatum, aënis vicissitudines harumque in
diversis locis differentias, facili negotio demonstrantur, de quib-
us ubi dicendi locus erit.

De phasibus, maculis et fasciis Planetarum superiorum

Planetae superiores easdem, prout inferiores, Observatori extra
orbitam Saturni constituto exhibent Phases, (vid. Fig. 2.) sed idem,
dum in Sole positus fuerit, nullas prorsus, ac non omnes pla-
netae ex illo semper orbe pleno videntur, visu percipiet, imò nec ex
Terra in Jove et Saturno aliquam luminis phasim, ob per magnam
horum à sole distantiam respectu Terrae à Sole, nobiscum observabit,
at vero in Marte, multo vicinior, nonnullas Phases, et quidem in
conjunctione et oppositione, eundem orbe pleno, circa Quadraturas
lumine fere dimidiato, et postmodum gibbosi splendentes, non
quam vero vel falcatum, vel corniculatum contemplari datum
erit. Porro ad eam ob insignem macularum et fasciarum numerum,
quem celeberrimi Nigenti, Cassini, Hooki, et Maraldi observationes sup-
pediant, plura nobis, ad latera tabulae notanda, exhibent. Maxime
vero memoranda praebet Saturnus, qui annulo cinctus, facies diversas,
temporibus Galilaei, Scheineri, Fontanae, etc. imperfectas, quo-
modo et Nigenti tempore, perquam exactas praestantioribus
Tubis instructis conspiciendas dedit, addendo ipsi insuper
observationes Cel. Cassini et Maraldi, secundum quas
Saturnum Saturni duplicem apprehenderunt.

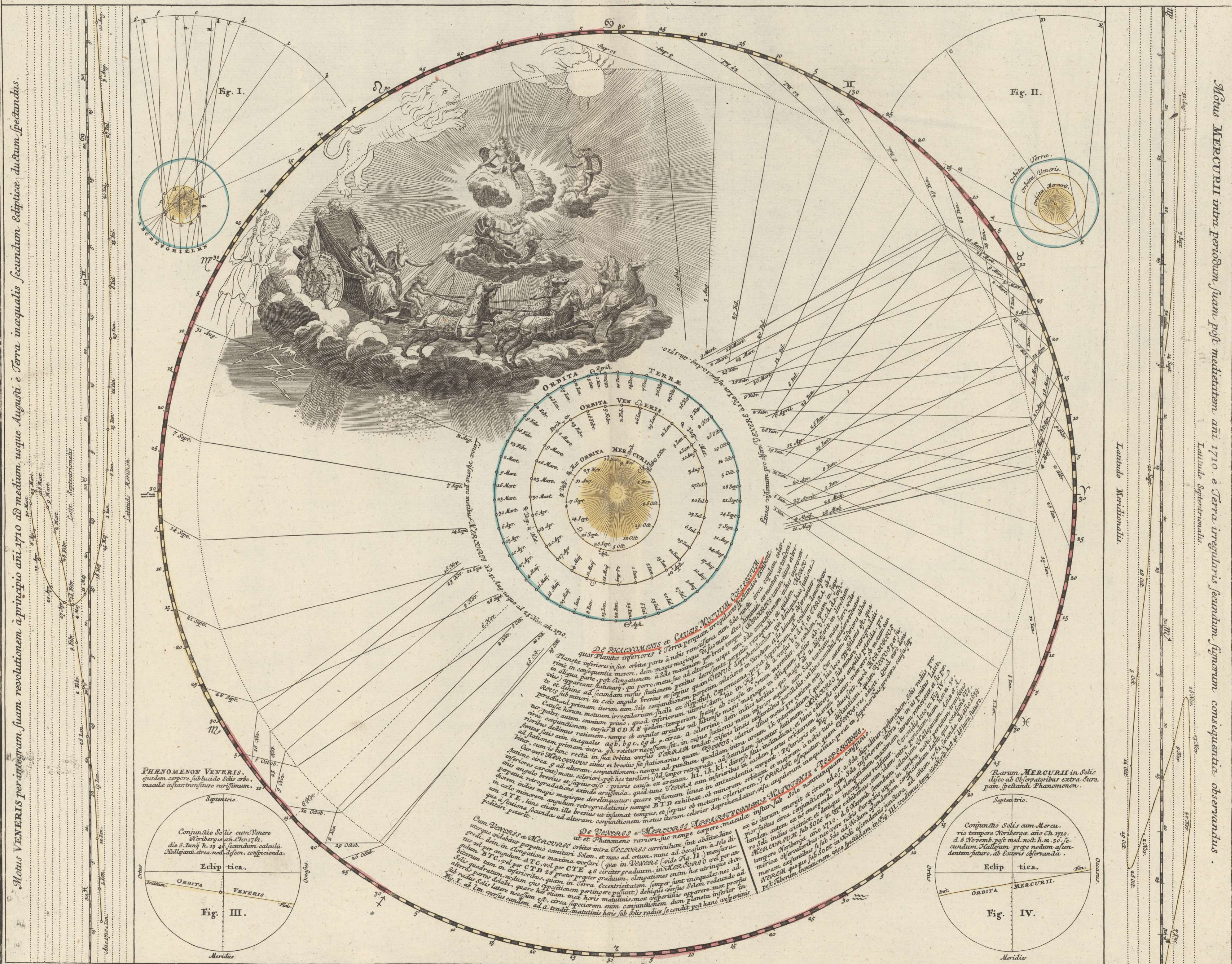


PHASES E TERRA SPECTANDA.



Directionibus, Stationibus et Retrogradationibus suis à TERRA spectandos præbent, exemplo fingulorum Periodi pro Hypotheseos Copernici firmamento Geometricè demonstrata
A IOH. GABRIELE DOPPELMAJERO MATHEM. PROF. PVBL. operâ IOH. BAPTISTÆ HOMANNI NORIBERGÆ.

A IOH. GABRIELE DOPPELMAJERO MATHEM. PROF. PVBL. operâ IOH. BAPTISTÆ HOMANNI NORIBERGÆ.



à IOH. GABR. DOPPELMAJERO MATH. PROF. PUBL. opérâ IOH. BAPT. HOMANNI NORIMBERGÆ

Cum Privilegio *Sac. Cæs. Majestatis.*

Latitudo Septentrionalis



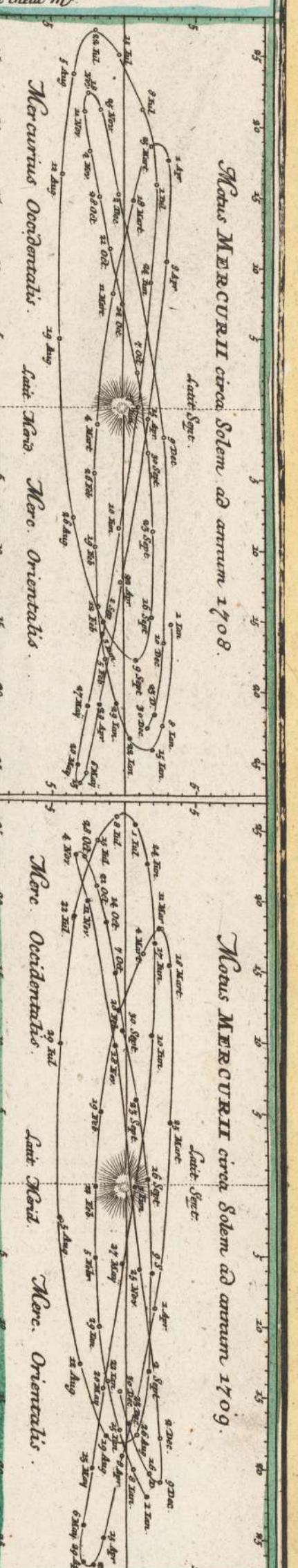
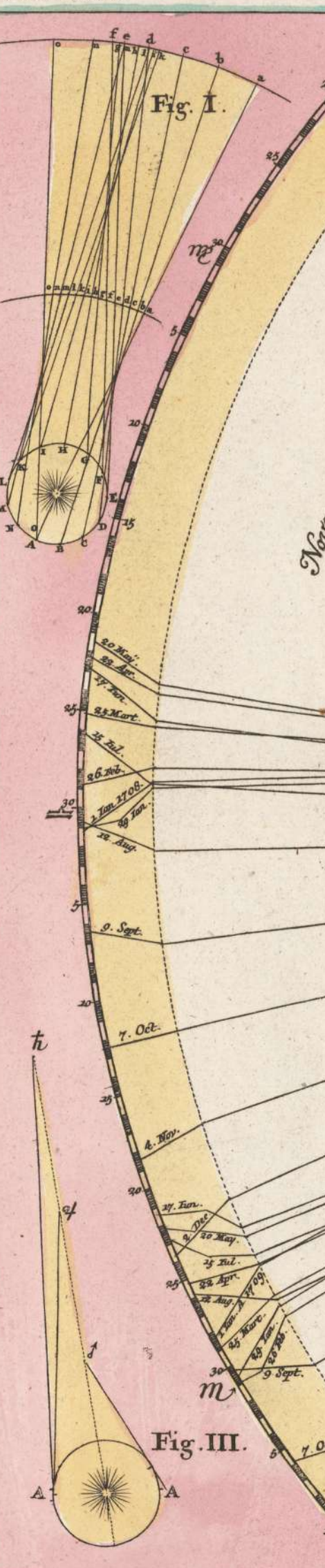
Continuatio motus IOVIALIS a d. 23. Sept. 1709. usque ad finem ejusdē anni.



De Planetis inferioribus.

Cum ob spatij angustiam Planetarum inferiorum loca ipsius orbitarum
superiorum hic exhibere non fuerit datum ipse eandem horum in
na breviter enarrare libet. Quod si circa conjunctionem
fra solem ante eam et post eam quoad retrogradationem
ad conjunctionem supra statim motu accelerato directi
tem ad alteram usque stationem etiam accelerato sed non magis
sente apparent. Interim tamen figura ad latera positae
nando qualis peris æthiopiæ circa auram borealem
motu suo describitur nulla diuinitas in se habet
his inferiorum latitudines elongationis a sole quousque
me, uno ipse loca in elliptica subtracta sed etiam
loco soli si Venus et Mercurius oriuntur etiam a
vero elongatione loco soli si Juppiter, Martes, occurrunt
deprehendantur facti negatio etiam Regione.

De Planetis inferioribus



Ejusdem MARTIS motus à 17. Roty usque ad 9. Sept. añi 1708.



Ultima MARTIS motus irregularis a 0 Sept. usq; ad finem July' seqq. anni delineatio.



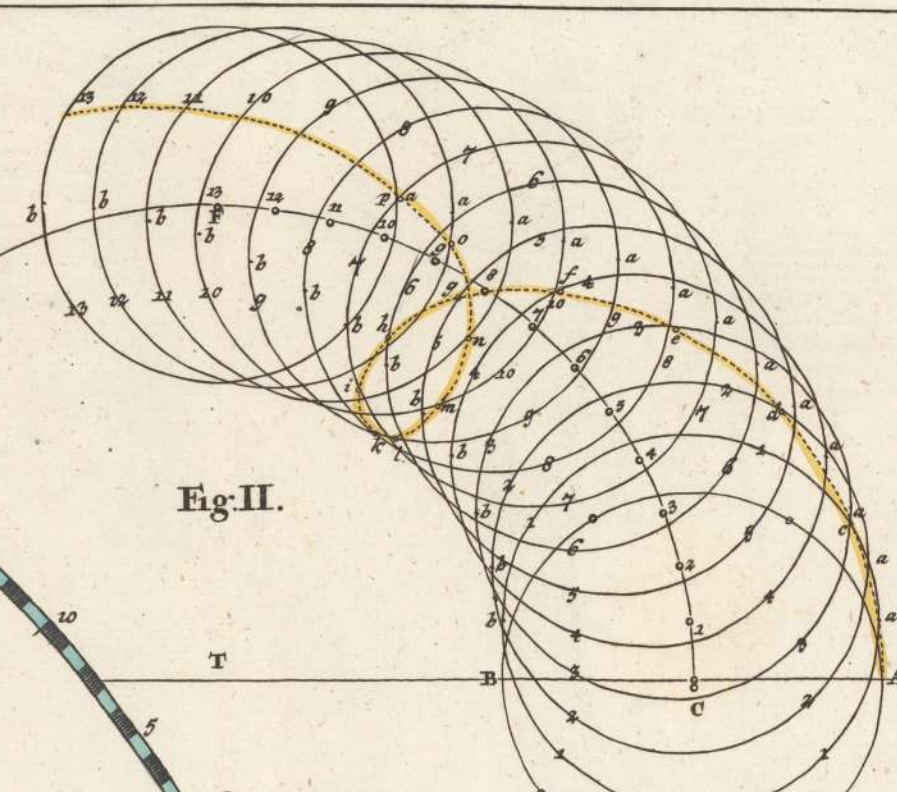
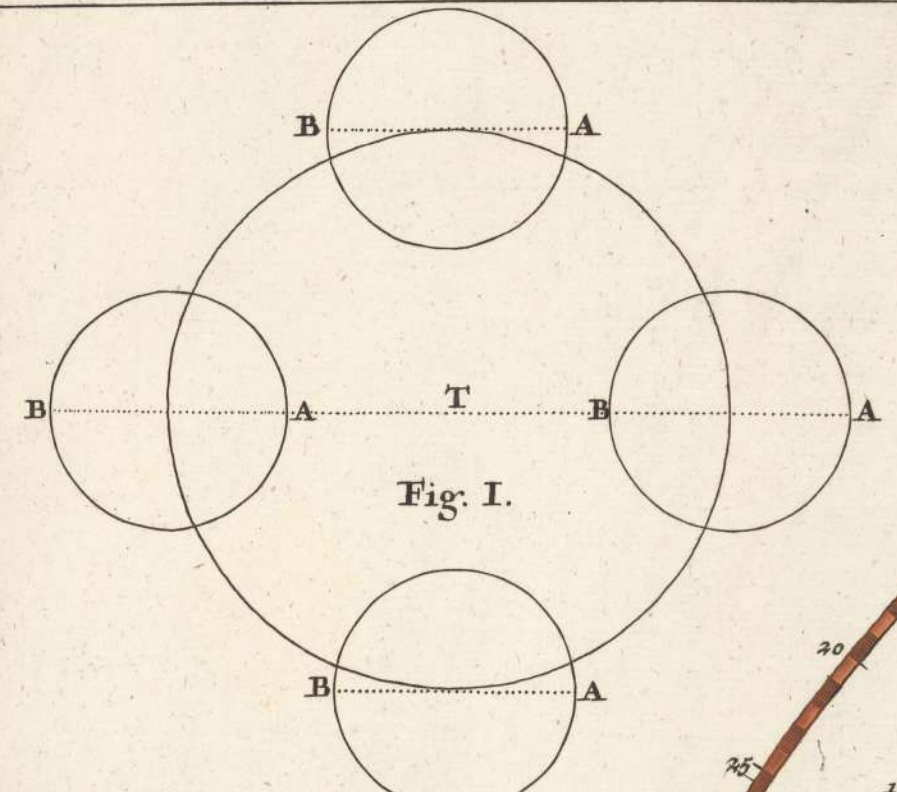
Proportio Systematis Solaris ad partem sexagesimam distantie Solis à Sirio, fixarum proxima, secundum Hypothesin Hugenianam.

MOTUS IN COELO SPIRALES

Quos Planetae inferiores VENUS et MERCURIUS secundum Tychonicorum Hypothesin exhibent, pro exemplo ad annum Christi praecipue 1712 et 1713.

Geometricè descripti a IOH. GABRIELE DOPPELMATERO MATHEM. PROF. PUBL. operâ IOH. BAPTISTAE HOMANNI

Cum Privilegio (NORIBERG.) Sac. Caes. Majestatis.



Motus VENERIS et MERCURII ad annum Christi 1712

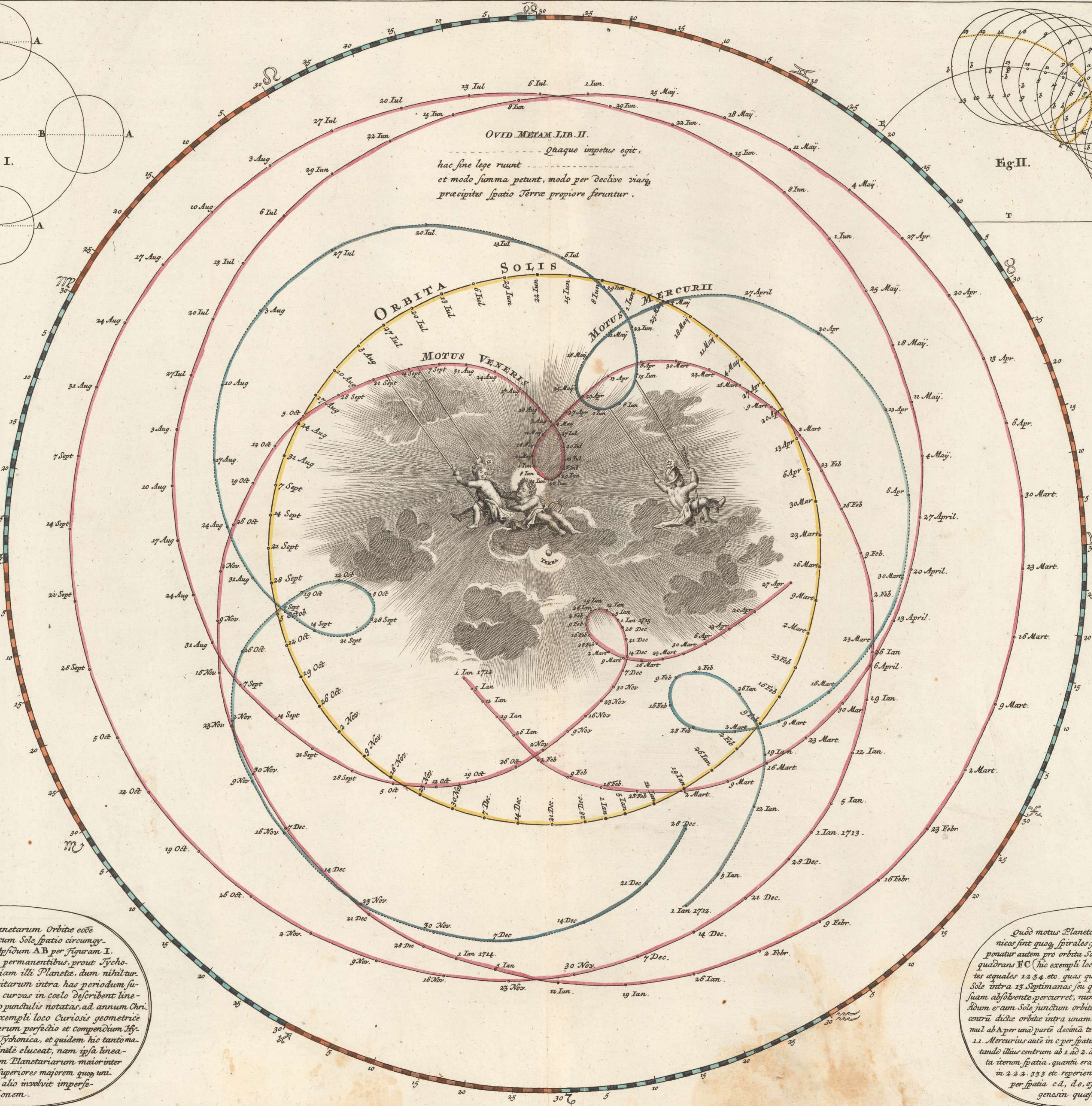
irregularis e Terra spectandus.

Latitudo Meridionalis	Longitudo Meridionalis
1. Jan. 1712	1. Jan. 1712
1. Feb. 1712	1. Feb. 1712
1. Mar. 1712	1. Mar. 1712
1. Apr. 1712	1. Apr. 1712
1. Mai. 1712	1. Mai. 1712
1. Jun. 1712	1. Jun. 1712
1. Jul. 1712	1. Jul. 1712
1. Aug. 1712	1. Aug. 1712
1. Sep. 1712	1. Sep. 1712
1. Oct. 1712	1. Oct. 1712
1. Nov. 1712	1. Nov. 1712
1. Dec. 1712	1. Dec. 1712
1. Jan. 1713	1. Jan. 1713
1. Feb. 1713	1. Feb. 1713
1. Mar. 1713	1. Mar. 1713
1. Apr. 1713	1. Apr. 1713
1. Mai. 1713	1. Mai. 1713
1. Jun. 1713	1. Jun. 1713
1. Jul. 1713	1. Jul. 1713
1. Aug. 1713	1. Aug. 1713
1. Sep. 1713	1. Sep. 1713
1. Oct. 1713	1. Oct. 1713
1. Nov. 1713	1. Nov. 1713
1. Dec. 1713	1. Dec. 1713

Motus VENERIS et MERCURII a principio Nov. anni 1712 ad finem usque sequenti anni continuatus

Latitudo Meridionalis.

Latitudo Meridionalis	Longitudo Meridionalis
1. Jan. 1712	1. Jan. 1712
1. Feb. 1712	1. Feb. 1712
1. Mar. 1712	1. Mar. 1712
1. Apr. 1712	1. Apr. 1712
1. Mai. 1712	1. Mai. 1712
1. Jun. 1712	1. Jun. 1712
1. Jul. 1712	1. Jul. 1712
1. Aug. 1712	1. Aug. 1712
1. Sep. 1712	1. Sep. 1712
1. Oct. 1712	1. Oct. 1712
1. Nov. 1712	1. Nov. 1712
1. Dec. 1712	1. Dec. 1712
1. Jan. 1713	1. Jan. 1713
1. Feb. 1713	1. Feb. 1713
1. Mar. 1713	1. Mar. 1713
1. Apr. 1713	1. Apr. 1713
1. Mai. 1713	1. Mai. 1713
1. Jun. 1713	1. Jun. 1713
1. Jul. 1713	1. Jul. 1713
1. Aug. 1713	1. Aug. 1713
1. Sep. 1713	1. Sep. 1713
1. Oct. 1713	1. Oct. 1713
1. Nov. 1713	1. Nov. 1713
1. Dec. 1713	1. Dec. 1713

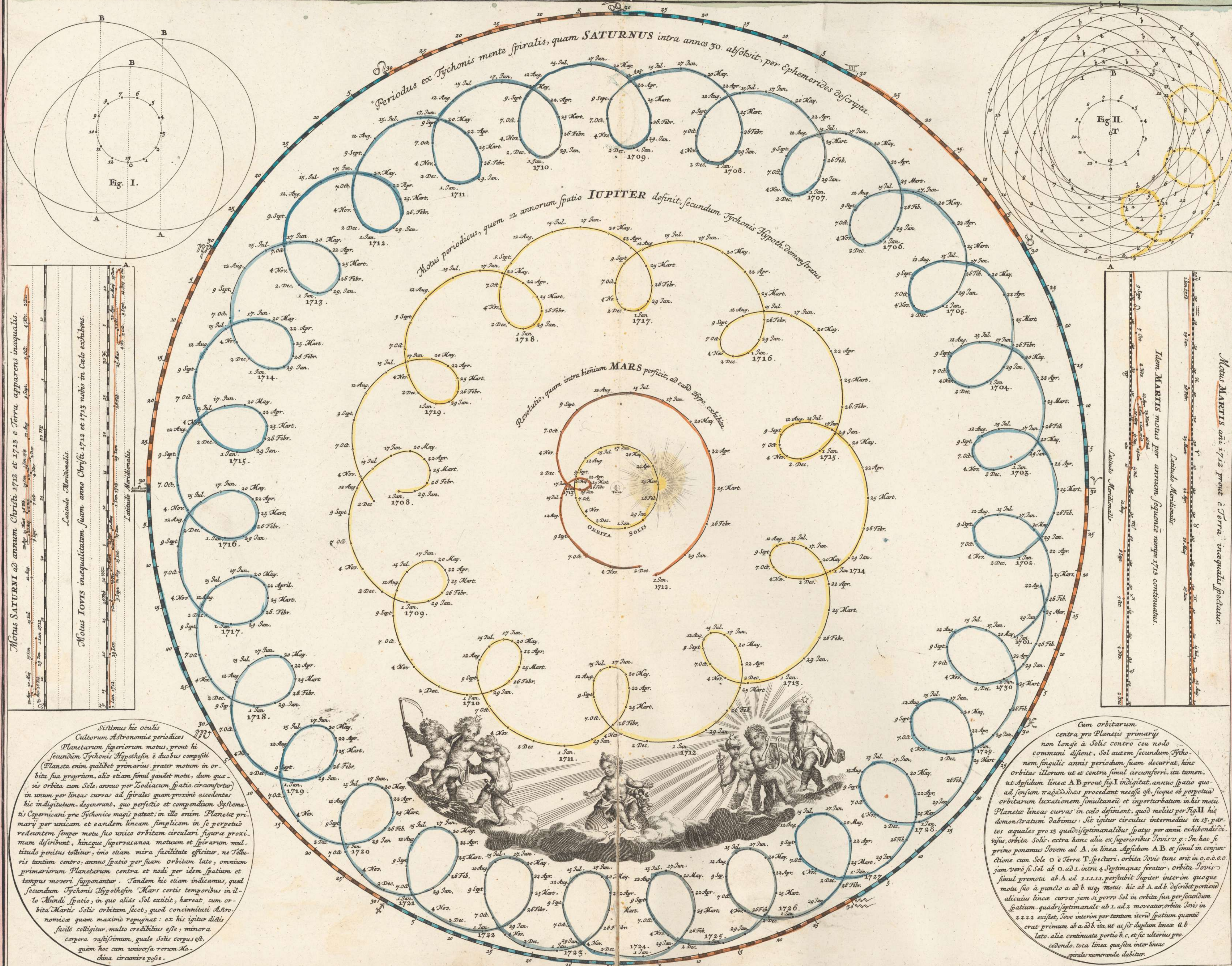


Inferiorum Planetarum Orbits eodè modo, ut Superiorum cum Sole spatio circūgyrantur: annuo, lineis suis Affixum AB per figuram I. sensibilibiter pagallias q. permanentibus, prout Tychonicorum fert opinio, hinc etiam illi Planete, dum nihilur bati luxatura suarum orbitarum intra has periodum suam nihilominus perficiunt, curvas in coelo describent lineas, quales hic pro MERCURIO punctulis notatas ad annum Christi praecipue 1712, et 1713. exempli loco Curiosis geometricè definitas exhibemus, quo iterum perfectio et compendium Hypothesos Copernicanae pra Tychonica, et quidem hic tantomagis quam in Superioribus insle eluceat, nam ipsa linearum seu potius semitarum Planetariorum maior inter se confusio quam apud Superiores majorem quavis unius Systematis pra alio involvit imperfectionem.

Quid motus Planetarum inf secundum Tycho. nicae sint quos spirales facile ex fig. II demonstratur. ponatur autem pro orbita Solis portio circuli EFC et sit huius quadrans EC (hic exempli loco pro Mercurio) divisis in 12 partes aequales 12 34 etc. quas quisproxime centrum huius orbitae ad Sole intra 12 Septimanas seu quidam ann. Mercurio simul periodum suam absolvente percurreret, nunc si hanc statuamus ad A in linea. Ap. idum etiam Sole junctionem orbita eius in 0.000. existit, jam vero si centrū dictae orbitae intra unam Septim. ab o.000. C ad 1. et Mercurius simul ab A per unam partē decimā tertiā suae periodi moveatur, Orbita in 1.1. Mercurius autē in C per spatium A c interim latus perficiunt, atf. tendo illius centrum ab 1. ad 2. a.2. ad 3. etc. et Mercurius simul per tota iterum spatia, quantū erat ante dictum, promoveatur, Orbita in 2.2.2. 3.3.3. etc. reperientur, loca vero huius in d. e. f. per spatia c. d., d. e., e. f. provoluti suppediabant generis quicquid lineae curvae.

MOTVS PLANETARVM SVPERIORVM

qui secundum TYCHONIS Hypothesin singulis suis periodis per lineas spirales contingunt, exempli loco in primo Seculi XVIII triente geometricè exhibiti
à IOH. GABR. DOPPELMAJERO MATHEM. PROF. PUBL. opera IOH. BAPT. HOMANNI NORIBERGÆ.
Cum Privilegio Sac. C. P. Majestatis.



Motus SATURNI ad annum Christi 1712 et 1713 e Terra apparet inaequalis.

Motus Iovis inaequalitatem suam anno Christi 1712 et 1713 nobis in Cælo exhibens.

Idem MARTIS motus per annum sequente tempore 1713 continuatus.

Motus MARTIS anni 1712 prout e Terra inaequaliter spectatur.

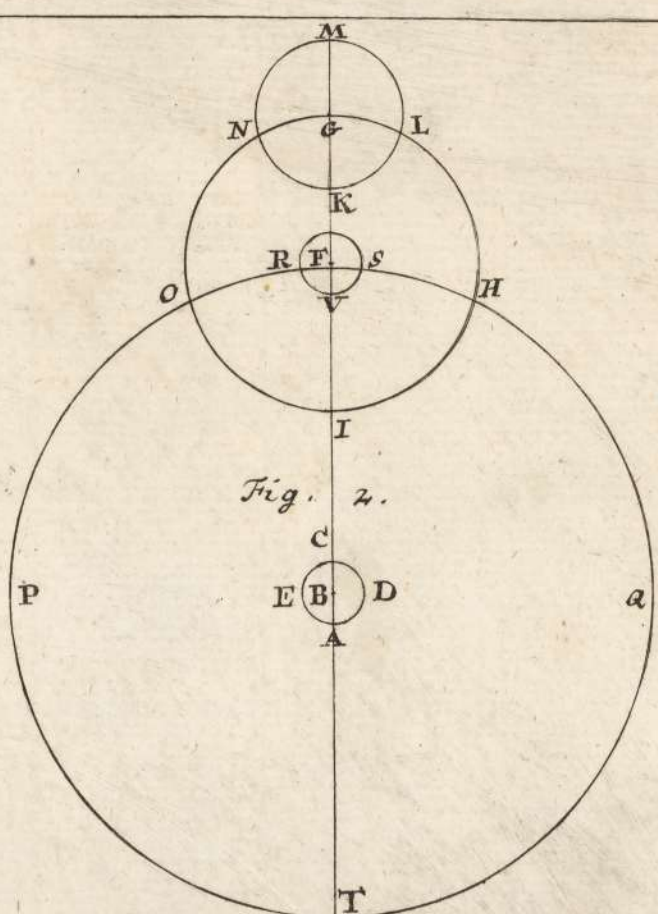
Sistimus hic oculis
Cultorum Astronomie periodicos
Planetarum superiorum motus, prout hi
secundum Tychonis Hypothesin e duobus compositi
(Planeta enim quilibet primarius preter motum in or-
bita sua propriam, alio etiam simul gaudet motu, dum que-
rit orbita cum Sole, annuo per Zodiacum spatio circumferatur)
in unum per lineas curvas ad spirales quam proximè accedentes
hic indigebant, designant, quo perfectio et compendium Systema-
tis Copernicani pre Tychonico magis patet; in illo enim Planete pri-
marie per unicam et eandem lineam simplicem in se perpetuo
redeuntem semper motu suo unico orbitam circulari figura proxi-
mam describunt, hincque supervacanea motuum et spirarum mul-
titudine penitus tollitur, imò etiam mira facilitate efficitur, ne Tellu-
ris tantum centro, annuo spatio per suam orbitam lato, omnium
primariarum Planetarum centra et nodi per idem spatium et
tempus moveri supponantur. Tandem hic etiam indicamus, quod
secundum Tychonis Hypothesin Mars certis temporibus in il-
lo mundi spatio, in quo alius Sol existit, hæreat, cum or-
bita Martis Solis orbitam secet, quod concommittati Astro-
nomice quam maxime repugnat: ex his igitur dictis
facile colligitur, multo creditius esse, minora
corpora vastissimum, quale Solis corpus est,
quam hoc cum universa rerum Ma-
china circumire posse.

Cum orbitarum
centra pro Planetis primariis
non longe à Solis centro seu nodo
communi discent, Sol autem secundum Tycho-
nem singulis annis periodum suum decurrit, hinc
orbites illorum ut et centra simul circumferri, ita tamen,
ut Apisidum lineæ AB prout fig. I. indigebat, annuo spatio quo-
ad sensum non adducendas procedant necesse est, siquæ ob perpetuam
orbicularum luxationem simultaneis et expeturbatis in his motu
Planete lineas curvas in celo definiunt, quod melius per Fig. II. hic
demonstratum dabimus: sit igitur circulus intermedius in 13. par-
tes æquales pro 13 quodvis septimanalibus spatiis per annum exhibendis di-
visus, orbita Solis, extra hunc alia ex superioribus Iovis v. g.: In hac si
primo ponamus Iovem ad A. in linea Apisidum AB et simul in conjun-
ctione cum Sole O e Terra T spectari, orbita Iovis tunc erit in o. o. o. o. o.
jam vero si Sol ab O. ad 1. intra 1 septimanas feratur, orbita Iovis
simul promoti ab A. ad 1. 1. 1. 1. 1. perstabit Iupiter interim quoque
motu suo à puncto a ad b usque motus: hic ab A. ad b describit portione
alicuius lineæ curvæ jam si porro Sol in orbita sua per seipsum
spatium quodvis septimanale ab 1. ad 2. moveatur, orbita Iovis in
2. 2. 2. 2. 2. existet, Iove interim per tantum intervallum spatium quantum
erat primum ab a ad b. ita ut ac si duplum lineæ a b
lato, alia continuata portio b. c. et sic ulterius pro
cedendo, tota lineæ quæ sita inter lineas
spirales numeranda dabitur.

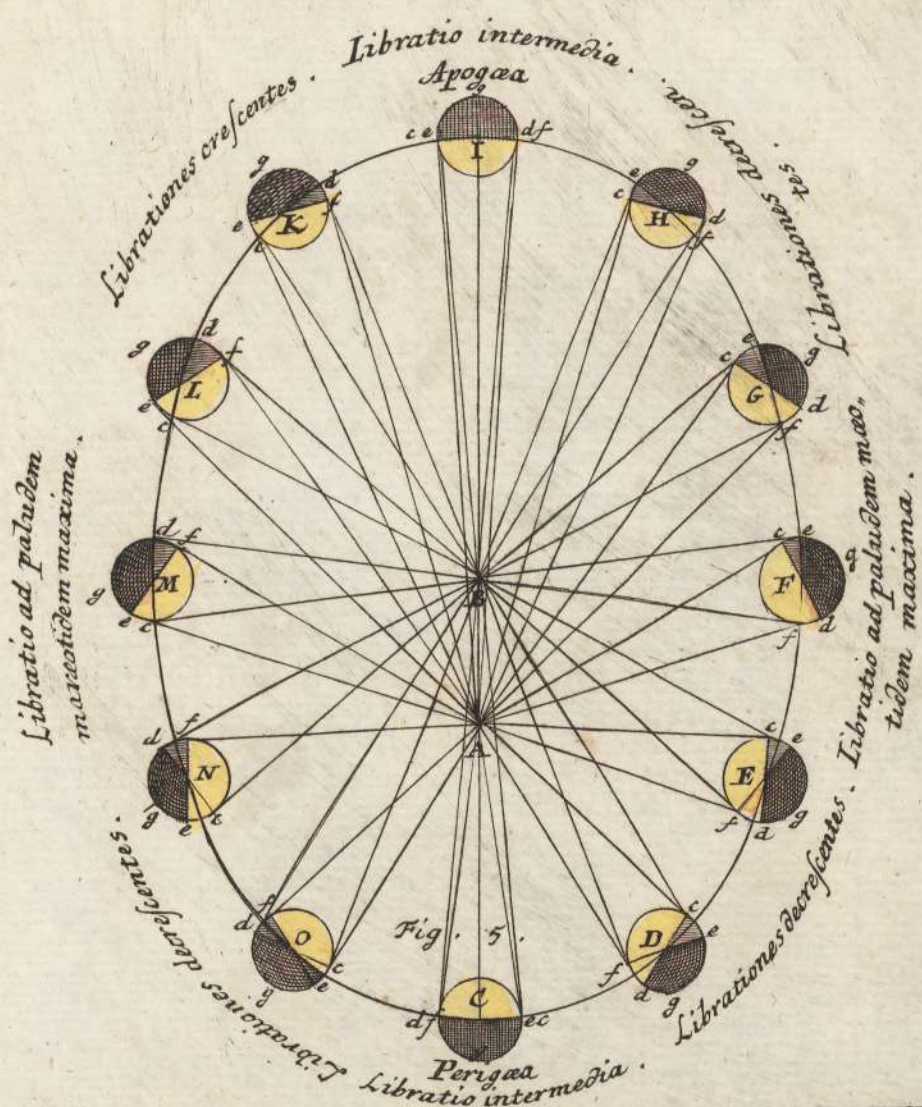
THE ORIALVNÆ

in qua motus ejusdem anomalus ex Hypothesi ill: Isaaci Newtoni, ut et Tythonicæ et Horroccianæ, porro illius motus cycloidalis et libratorius cum aliis Phenomenis ad Lunam spectantibus sistuntur,
a IOH. GABR. DOPPELMÄIERO Academiæ Cesar Leopoldinæ Carolinæ, Nat. Curios. Societatis Regiarum, Britannicæ et Borussiae Socii, nec non Mathematici, Professore publico.
Summis Heribundum Maniorum Noribergæ cum Privileg. S. Coll.

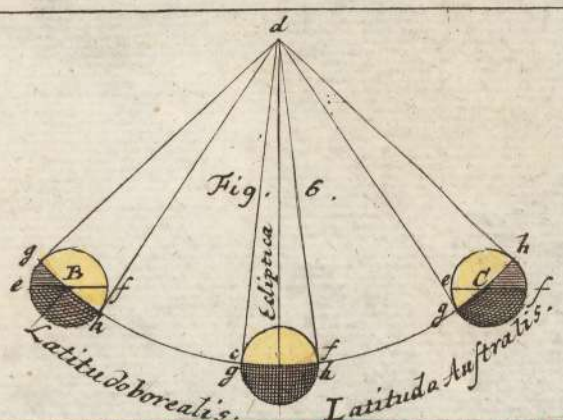
Hypothesis motus lunaris Tychonica.



*Libratio Lunæ sec. longitudinem
è Joh: Hevelii Observationibus.*



Libratio Lunaæ sec. latitudinem.



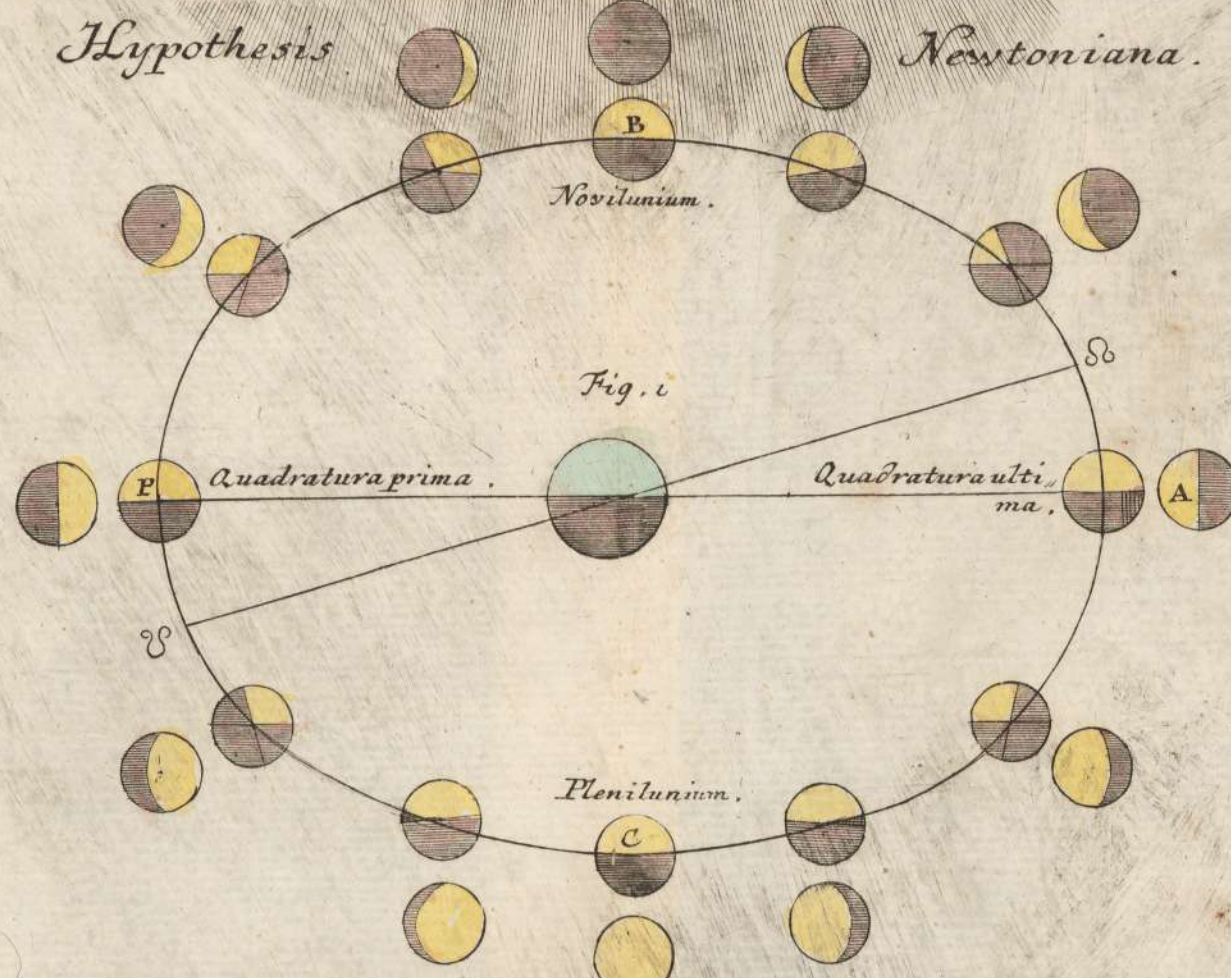
De Theoria Newtoniana

Luna motu tot anomalis obnoxia est, ut architectam operam multorum Astrono-
morum olim elegerit, sed jam illi Newtonus diversos motus hujus inaequalitatis et obnoxio-
ritatis manifestos feliciter succulsi ad archæos leges referant, qui sequentes sunt (A).
Luna in Syzygiis celeratime in Quadraturis tardissime movetur. C. Luna motus pro va-
ria est Syzygiis æstima, ab illis ad Quadraturam proximam tardior, ad Quadraturam ad
Syzygiis celerior est, quæ inaequalitas variatio quondam dicitur (C3). C. Per Lunam in
Quadraturis tardius in Syzygiis movetur, quæ inaequalitas Syzygiis aequatur, motus Lu-
næ tandem in Perigeo vero immutatur, unde differens quodam intertempore Luna pe-
riodica oritur (C5). Linea Apollinis in lunari orbita perferre alicui motu inæquali, futuræ
oculifini ortum, nam illa in Syzygiis celerius progreditur, at in Quadraturis remissius
retrogrreditur. C. Linea Nocturnum per ferre alicui in æquedistantia, motu quoque inæquali
retrogrreditur, enim in Syzygiis quiescit in Quadraturis vero notabilem veloci-
tatem acquirit. C. Orbita Luna perpetuo æguis eccentricitate mutatur, quæ
interdum augetur, interdum minuitur, maxima eccentricitas in Syzygiis oritur,
minima autem, ubi Syzygiarum linea ad angulos rectos scilicet, quarum differe-
ntia dupliam eccentricitatem minimum non excedit. C. Orbita lunaris inclinatio
ad Eclipticam etiam mutatur, quæ in Syzygiis minima, et in Quadratu-
ris maxima deprehenditur.

Macula lunaris secundum I. Hevelii denominationem, Mons Olympus, ut et J. B. Riccioli, Hipparchus dicta Londini a celeberr. Roberto Hookio per tubum opticum 30 pedum mense Octobri.
A. 1664. observata.



Hypothesis *Newtoniana.*

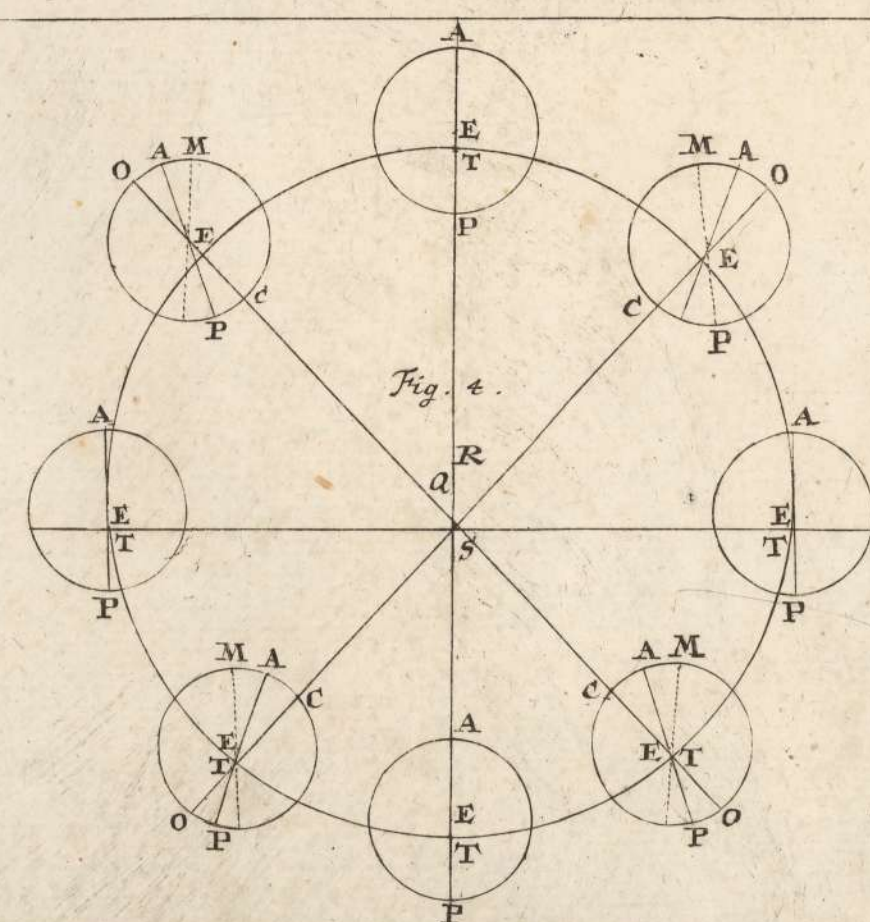


Macula lunares *sec. Ricciolum, Aristoteles, Eudoxus, et Plato* *sec. Hevelium, Mons* *terrorum, Mons Eryx et lacus niger Major dicta, Roma diebus 23 Aug. et 22 Sept. Año 1721 per tubos opti-*
cos 94 et 150 palm. Campani a Franc. Bianchini observata.

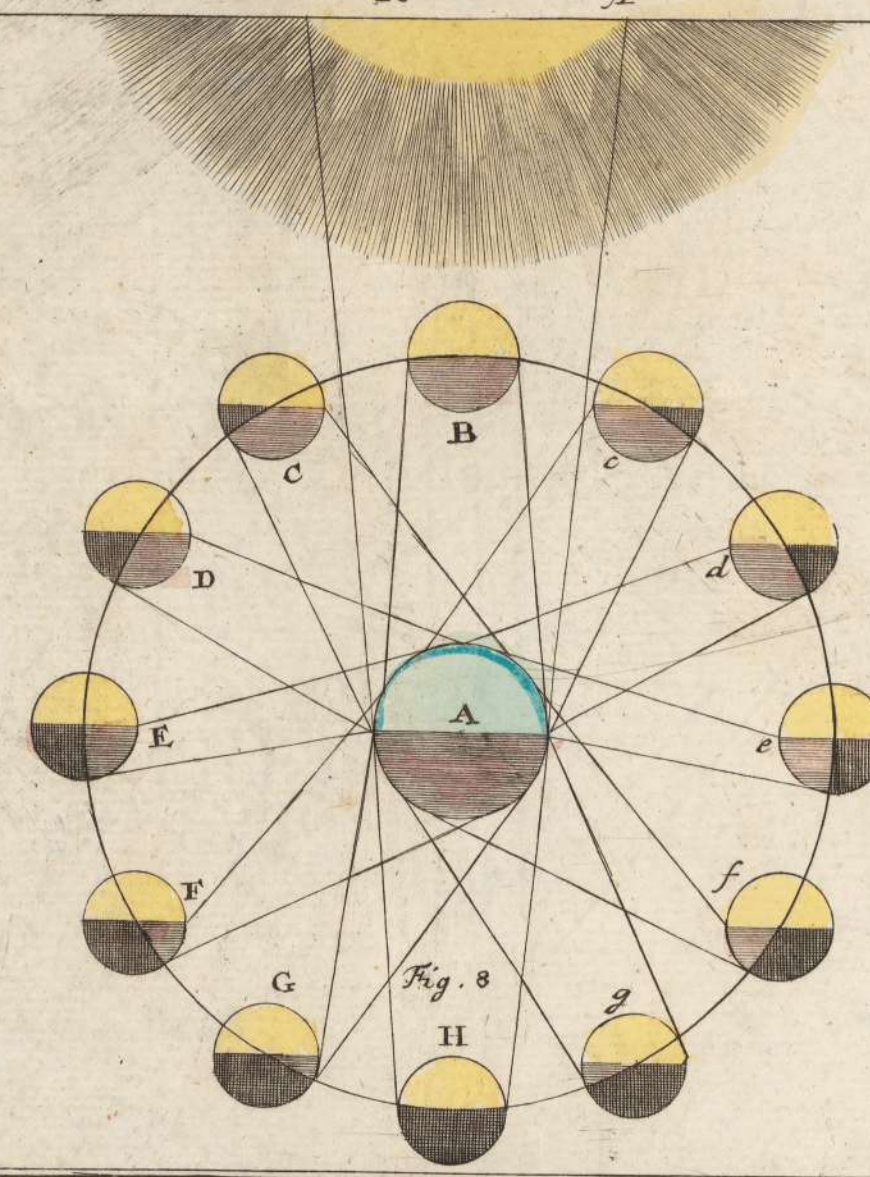
Macula Platonis.



Hypothesis motus lunaris Horroccio-Flamstediana.



*Phænomenon luminis Iunæ secundariæ radiorū solarium in eandem a
Terræ reflexione orti, ante et post novilunia conspiciendum.*



*Patilicium die 19 Aug. A. ibgg in appulsu ad
Lunæ lumbum supra ejus corporis partem illu-
minatam Parisiis observatum*

<i>B</i>	<i>D</i>	<i>E</i>
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	32	33
34	35	36
37	38	39
40	41	42
43	44	45
46	47	48
49	50	51
52	53	54
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361		



De Theoria Tyconica et Horrocciana

[illegible]

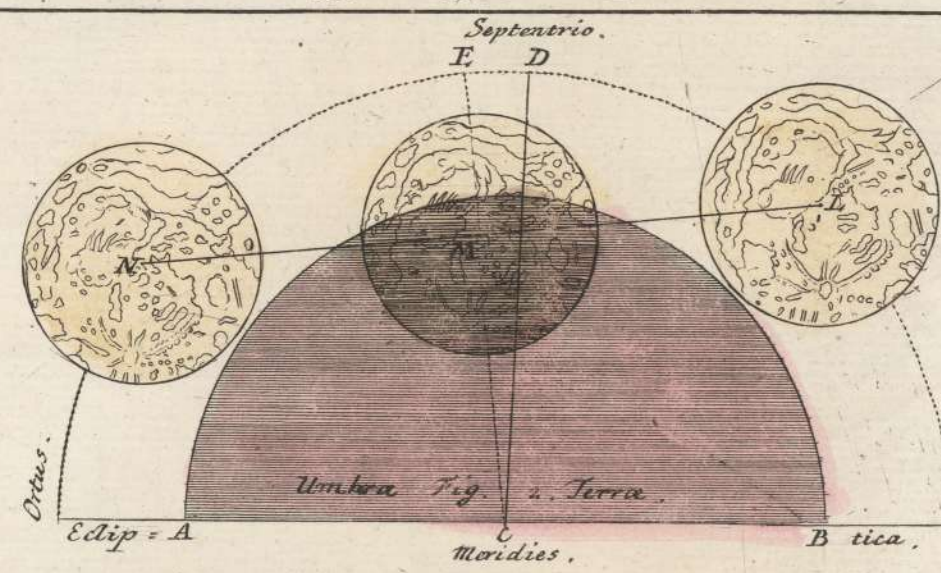
Motus Lunæ cycloidalis per dimidium menses periodici spatium.

Modus Lunæ cycloidalis per alterum dimidium mensis periodicis spatium

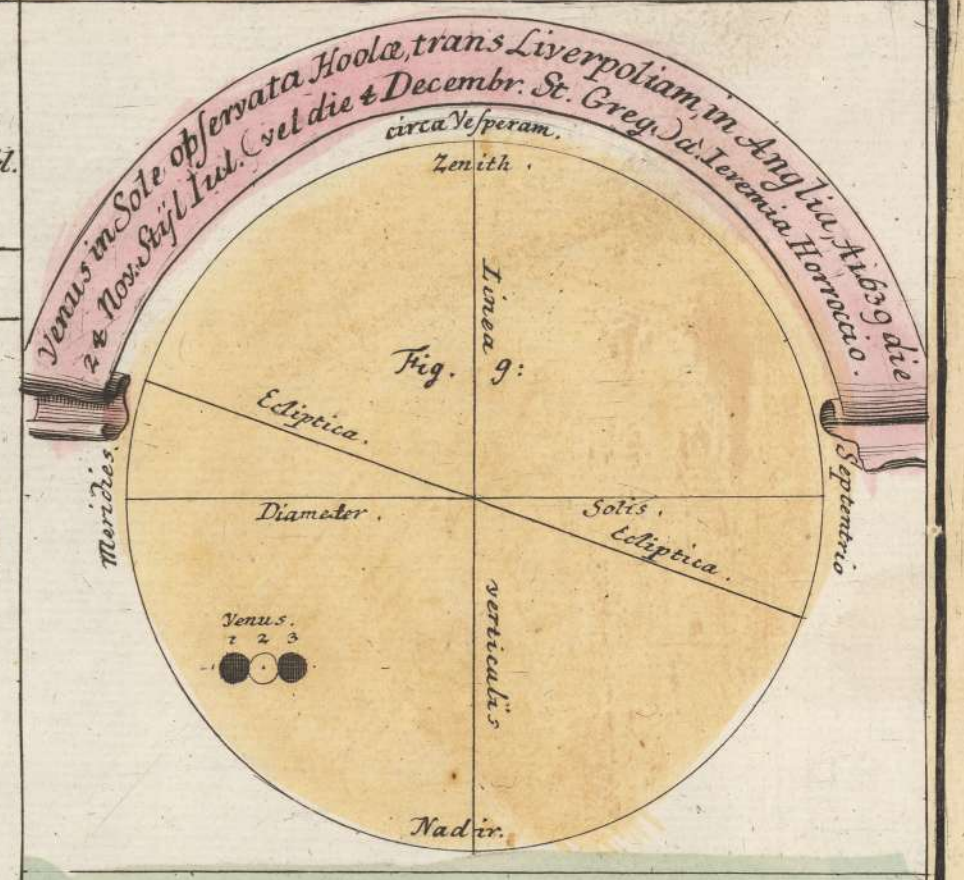
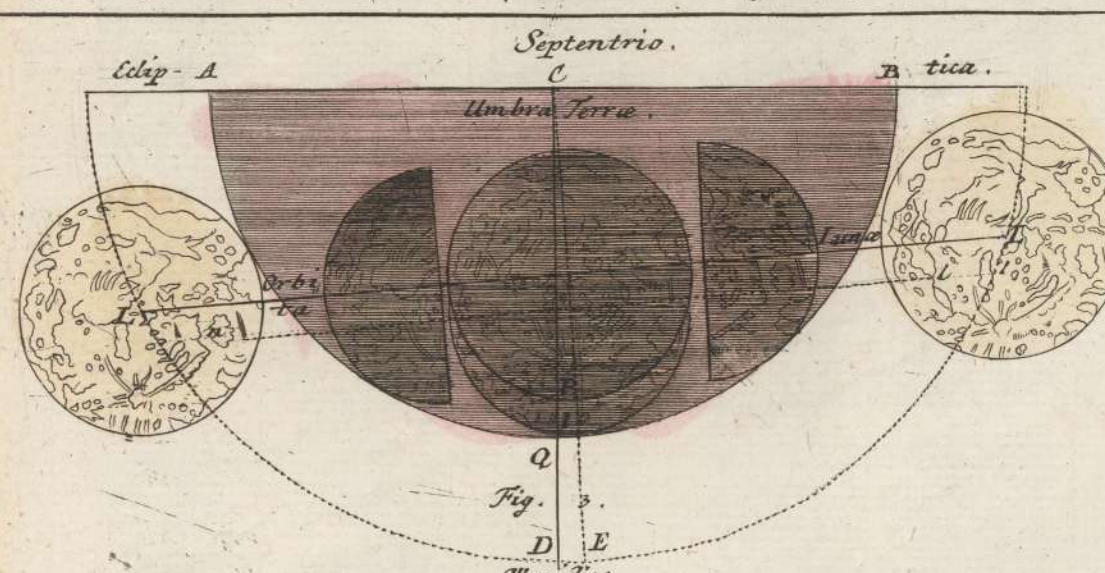
THEORIA ECLIPSIVM

in qua variae Solis occultationes, obscurationes Terrae et Lunae, stellae occultationes a Luna, atque Phaenomena huc spectantia, sifuntur
a JOH. GABR. DOPPELMAIER O. Acad. Caesar. Leopoldino. Carol. Nat. Curios. Societatumque Regiarum Britannicae et Borussiae, Sodali ut et Mathematic. Prof. publ.
Sumtibus Haeredum Homanianorum cum Pr. S. C. M.

Typus eclipsis Lunæ partialis.



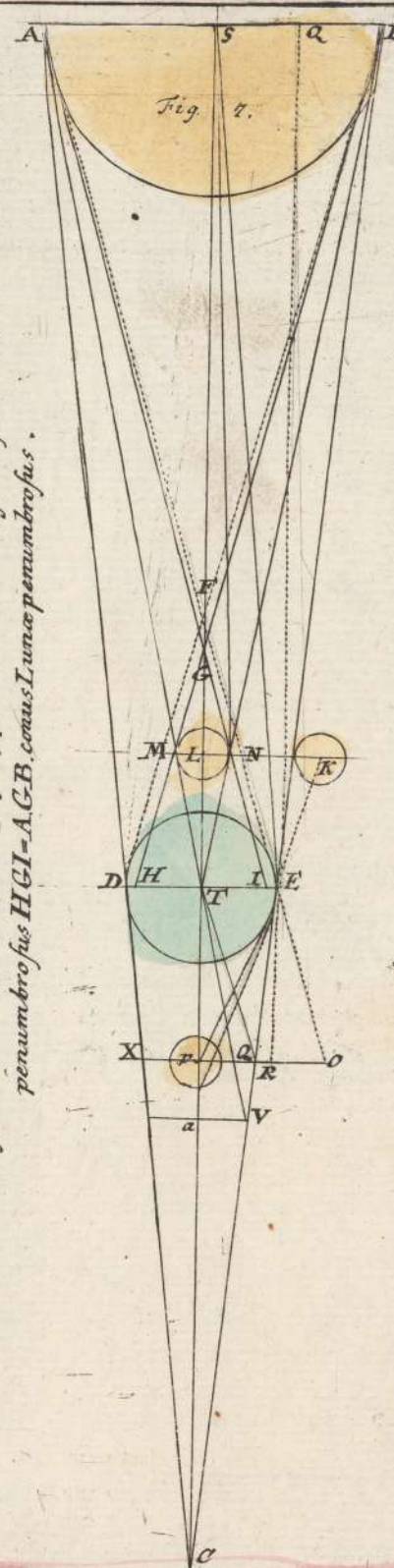
Typus eclipsis Iunæ totalis cum mora magna et sine mora.



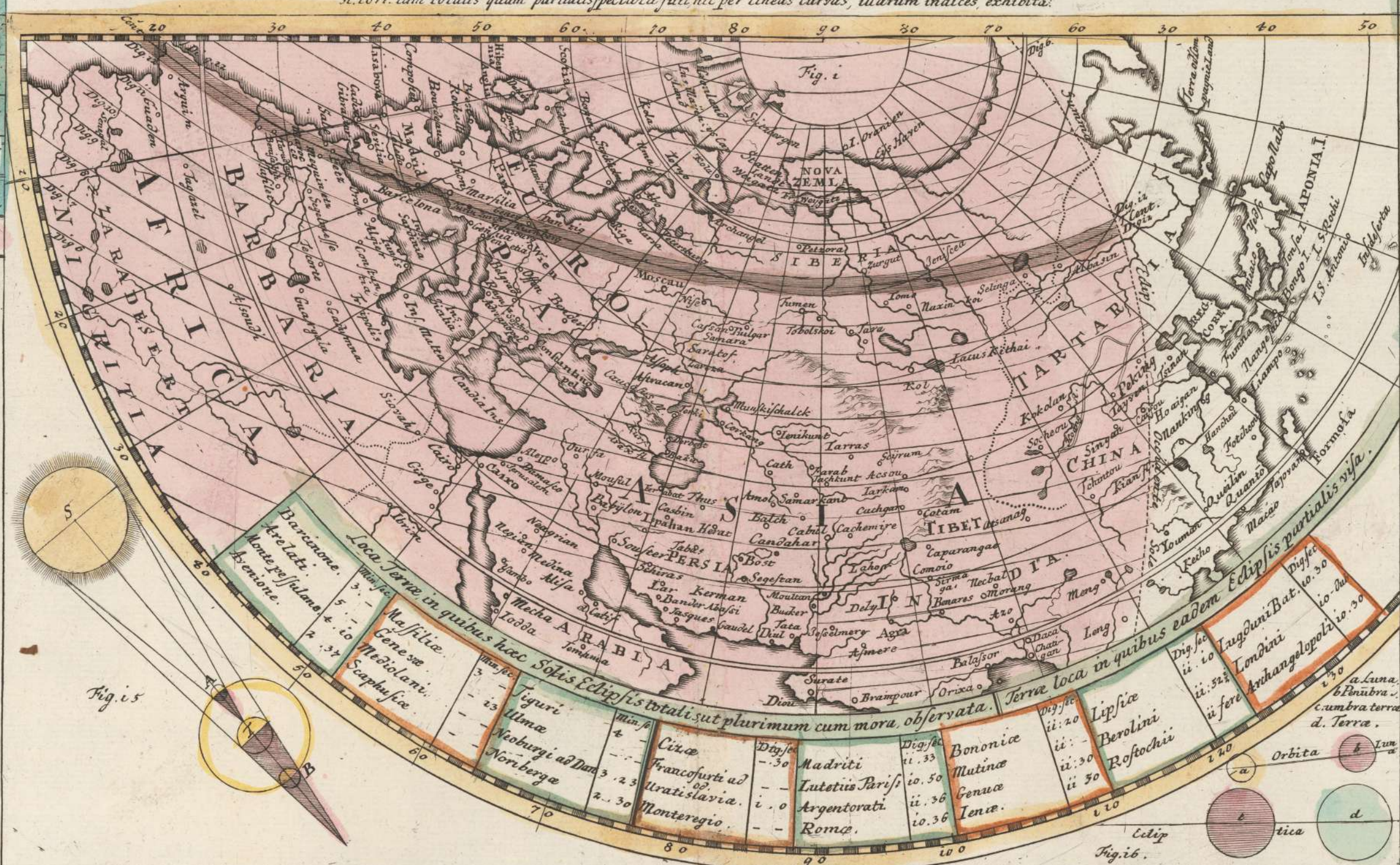
Transitus et occultationes planetarum primariorum à Luna.

Tabula in qua ad. anos supra datos Res conjunctionum Mercurii cum Sole harum Observatores. et Observationum Loca exhibentur.									
Num. ord.	Anno	Tempus conj. Sol.	Observato res.	Loca Observation	Num. ord.	Anno	Tempus conj. Sol.	Observatores.	Loca Observa tionum.
1	1631	27. Nov.	Pet. Gaffens dus.	Parisi.	5	1690	21. Oct.	Muselbauer & Kirch.	Noriberga Erfordia
2	1636	25. Nov.	Joh. Shanker Lauis.	Surata in India.	6	1697	21. Oct.	Muselbauer & Gimpertus Gaffens.	Noriberga Parisi.
3	1661	23. May.	Joh. Herchius Kugensius Strata.	Dantiscum. Londinum.	7	1713	27. Iul.	Com. Hallerus Jac. Cæssius	Londinum Parisi.
4	1677	27. Nov.	Galilæus. Com. Nattagus	Azyeno. Jap. Melina	8	1736	21. Iul.	Manfredus Marinonius. Kirckhusius.	Monacia. Ninigi. Berolinum

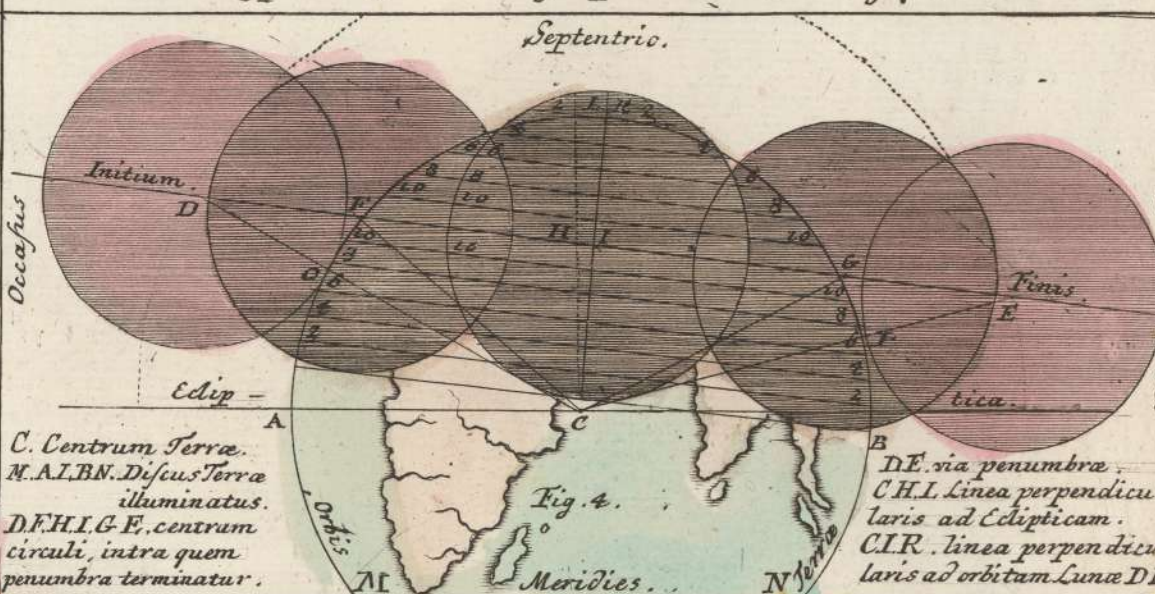
DIAGRAMMA HIPPARCHICUM
pro Eclipsibus Solis et Lunæ



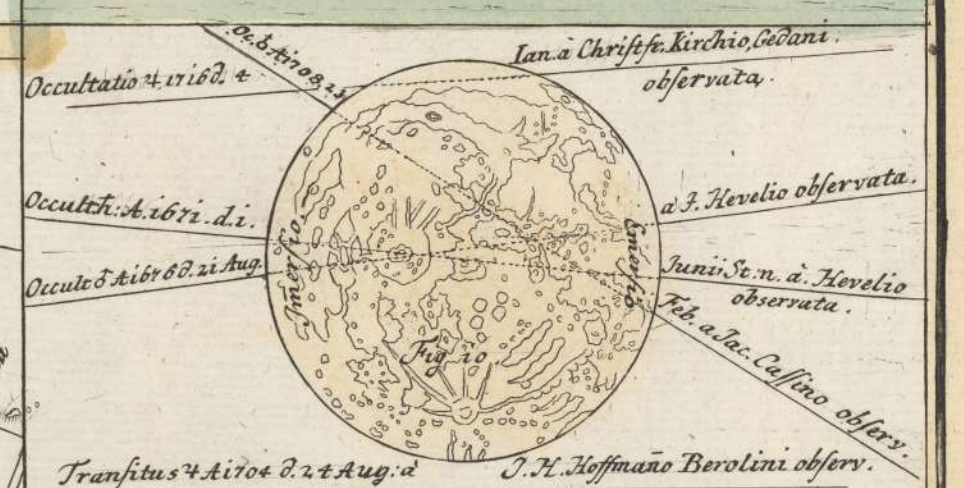
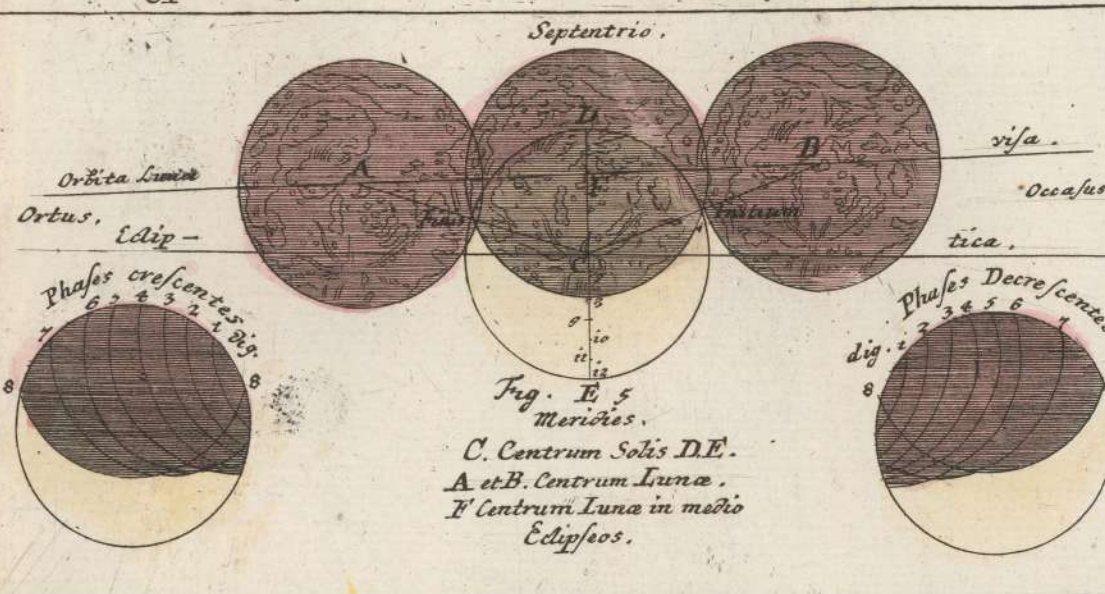
Conuri, *Semilanzante* *vare* *disfiantia*, *aliique*, *in hac Theoria sequentia notanda.*
S. Contum Solis; *Uterus*; *Luna* *noiv*; *p*; *centrum* *in confinio Luna planie perigee*; *a*; *Luna* *apogee*; *S*; *B*; *Semilanzante* *vare*. *Sol*; *F*; *Terra*; *T*; *L*; *Uterus*; *Q*; *hac Terra perigee*; *a*; *Q*; *hac Terra apogee*.
S; *T*; *Disfiantia*. *Sol*; *a*; *Terra*; *S*; *L*; *a*; *Luna*; *S*; *a*; *utero*; *utro umbra terre*; *F*; *S*; *Phis*. *Sol*; *a*; *utero*; *utro* *utro*.
L; *T*; *Disfiantia* *Luna* *a*; *Terra*; *que* *vare* *sep*. *Disfiantia* *a*; *Terra*; *Luna* *perigee*; *a*; *T*; *de*; *a*; *Terra*; *Luna* *apogee*.
U; *E*; *Uterus* *Terre* *utro*; *utro*; *M*; *T*; *N*; *Uterus*; *Luna* *utro*; *utro*; *quidam* *variant*; *ut*. *Phontas*; *D*; *F*; *T*; *a*; *F*; *B*; *Uterus* *Terre*.

[illegible]

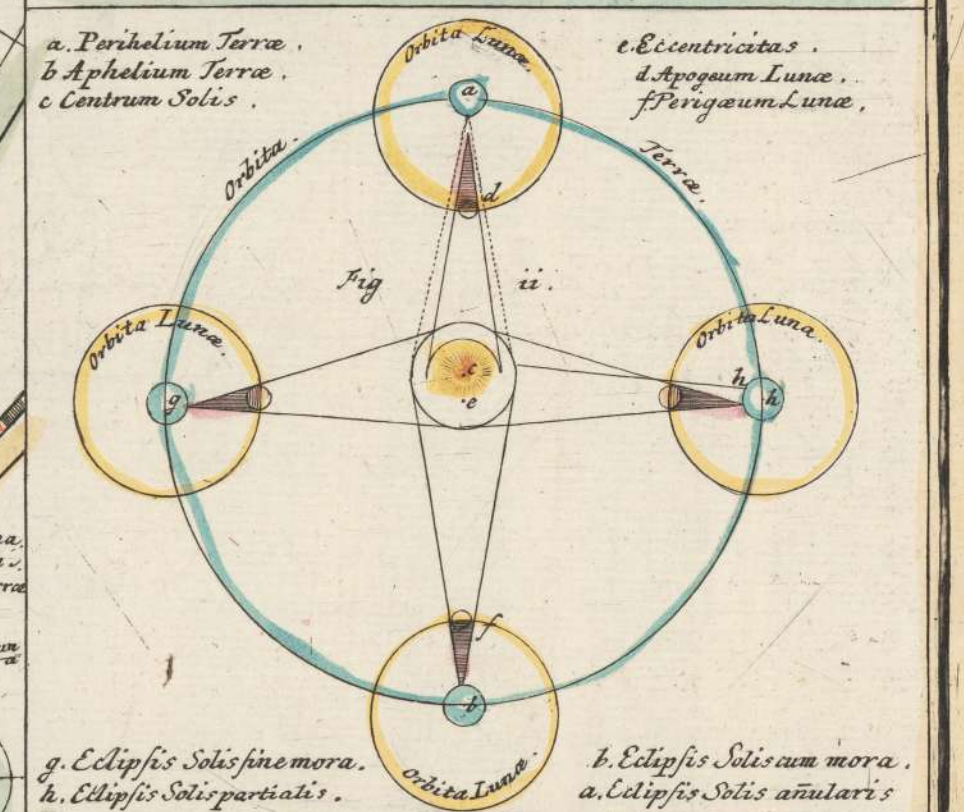
Typus eclipseos Solis, seu potius Terræ, universalis.



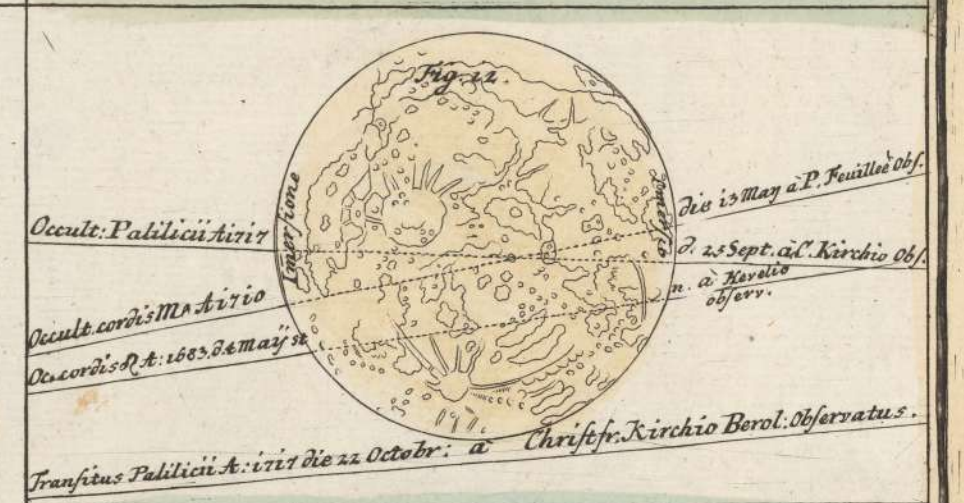
Typus eclipseos Solis partialisⁱⁿ Horizonte quodam.



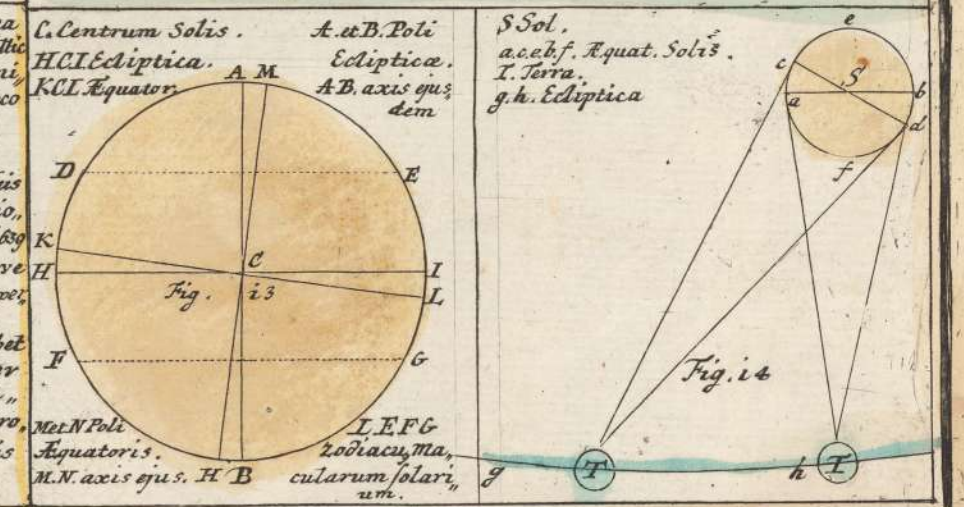
*Eclipses Solis diverſi generis, quæ e cono Lunæ umbroſo ſecundum
variâ longitudinẽ ad Terram tendente, oriuntur.*



*Transitus et occultationes nonnullarum fixarum primæ
magnitudinis à Luna.*



*Zodiacus macularum solarium, (in Fig. 13) et motus periodi-
cus earundem circa solis centrum respectu motæ terre (in Fig. 14.)*



C. Centrum Solis . *A. & B.* Poli
H.C.I. Ecliptica . Ecliptica .
 A. M.
K.C.L. Equator . *A.B.* axis quæ
 dem

S. Sol . *a. b. c. f.* Equat. Solis .
I. Terra . *T. Terra .*
g. h. Ecliptica



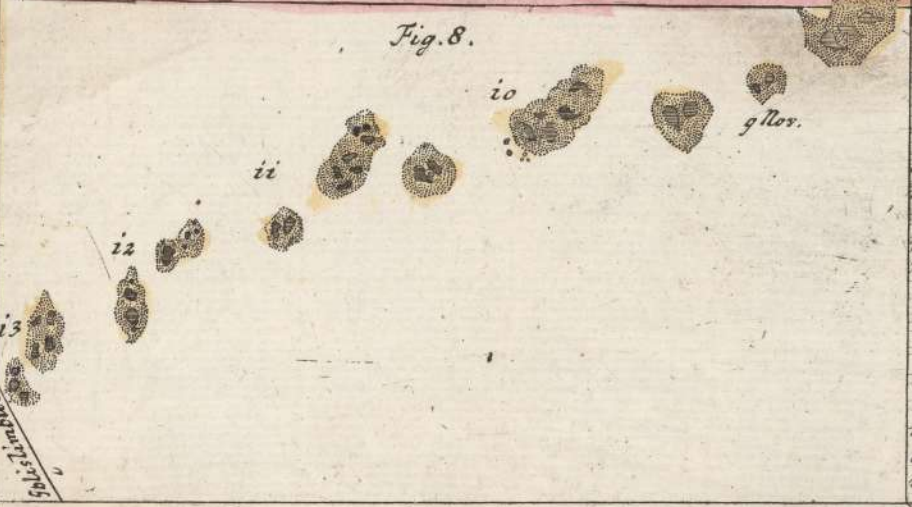
Fig. 13

Fig. 14

ME N Pals
Aquatoris
M. N. axis gis s. H B

IEFG
Zodiacu
cularum Plari
um.

*Maculae Solis insignes a. die 9. Novembris
usque ad 15. A. 1700 Parisiis observatae.*

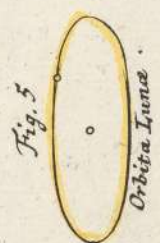


De eclipsibus Lunæ
Eclipses lunares ex interpositione Terræ inter Solem et Lunam ori-
untur. Cuius figuræ adB. Cum Luna plana circa gnosco: in um-
bræ terrestris circum motu suo interitum voluit: et ex parte, ut
totaliter, & prout illius distantia a nobis proximo variat: lumine
suo mutatio privatur. Secundum hoc duplicis generis eclipses
se obtinui oculorum se præbent, partiales, fig. 2. et totales, et
hic, vel cum mora magna, vel sine mora, fig. 3. Nulla propterea
plenitudo tempore, huius generis conspicitur: cum eclipses, cum
nempe axis umbra terre magis sit gradibus a nobis distat, tunc
enim Luna latitudine majorum fuita semidiametrorum Luna
et umbra terre stris, et sic illa invicem, apprehenditur.

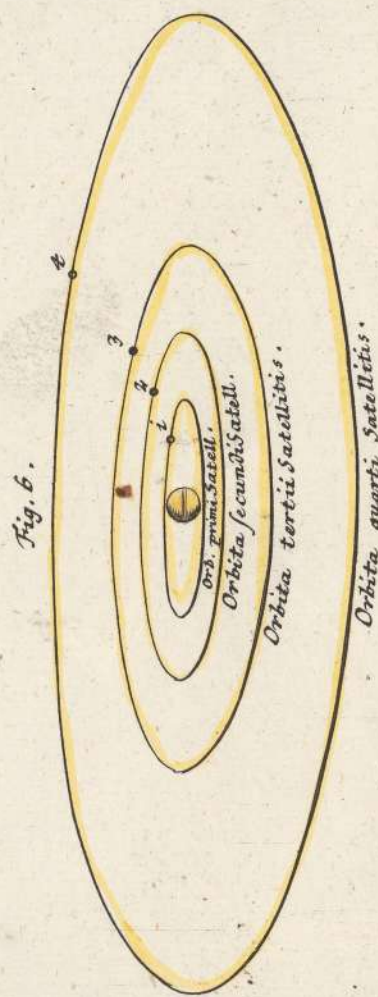
De eclipsibus Solis
Eclipses Solis, seu potius quæ occultationes a Luna, circa
nos, dum hæc, noriturum tempore, inter Solem et Terram
media est. Cuius figuræ adB. diversas species exhibent: quoad
enim sunt partiales, fig. 4. et figuræ adC. quoad totales, cum
Luna, fuit adB. Cum terra circa Aphelium, et Luna circa Peri-
gæum, vel apogæum, quædam sunt
cum luminarium diametris, a-
lures (fig. 1. et adC.) cum Terra
Nulla plane. Solis eclipses
major existit Luna semidiamet-
rum semidiametrum Solis
tali, quæ parallaxis æqualis
tata (v. fig. 7.)

De univerfalibus
In harum eclipsium theoria,
apparentes, tanquam vix parte
Ceteri invento, fidenter sequente
locus est in quo umbra Luna, fol-
egit: in P. aliis est, in quo Sol oc-
culta luminarium conjunctione
in Terra loca adC. totales eclipses
in B. omnia mora eclipses, Solis
eclipses, mora super Terra in

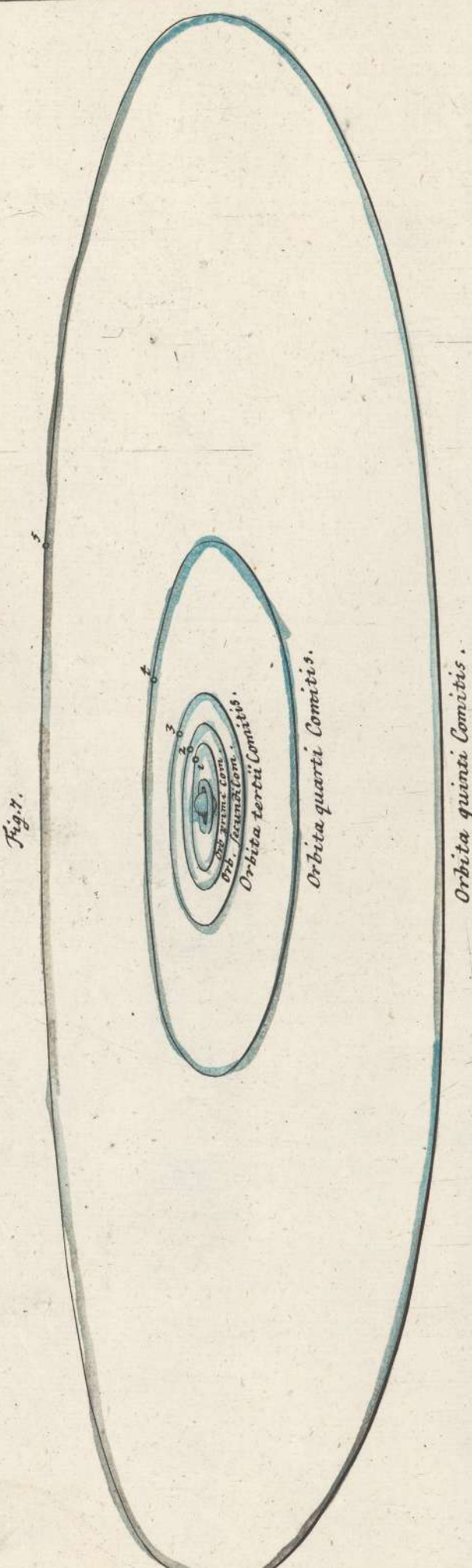
Luna, fignata, C. Fig. 9. ad q.
 vortit equales, nonnulli vero: annu-
 in Perihelio et Luna in Apogaeo
 Terra apparet, flatitudo Luna
 rorum. Solis Terra et quatuor fise
 Luna et parallela Luna hori-
 zonis semidiametro Terra et Luna [pae-
 rae] Terra ecliptibus.
 Luna, quam obfcurus Solis nobis
 rium Terra obfervationes, ex Ioh. Ke-
 plero a notanda in O. (vid. Fig. 6.) Terra
 de oriente Terra fringit, et eclipti-
 rioris: centraliter tegitur, in H. ex
 p. vero obfcuratio maxima contingit
 Solis. Sol occidente efficit, defugit
 occidente, finit, hinc totalis
 in tractu H. cernitur maxima autem
 duratio in tractu D. abfolvitur. Linea i. i. ang. 8. &c. cum Eclipti-
 de, ex utroque parte parallela, Solis quantitate, hic in aurali
 in boreali parte occultati per digitos in altitud. hic in aurali
 in Eclipti Solis A. 1706. die 15. maij totam habitis Exempli
 (vid. Fig. 1.) curvatus exhibitio. finit.
 De minimi generis occultationibus Solis.
 Aethiæ gemis pertinet Mercurij et Venæ; foli Solis transigit, plus
 Mercurij a. 1650. ad noſtrum usque tempus octo tantum per obſerva-
 nes nobis innotuerunt, (vid. Fig. 6.) Venus hæcenus ſemel, et qui dicitur
 a Ierom. Hierocle in Anglia foli Solis obſervata, (Fig. 7.) tandem
 a R. 1661. obſervata, hæc advenus Solis maculas, quæ vel in-
 ficie, vel in ignis atmoſphæra, rubrum, aut fumorum denſiorum
 inſar, numero et quantitate (ſapient inſignes) (Fig. 8.) Iuxta quæ
 paratæ ab æquatore Solis, intra 50 graduum ſpatium (Fig. 9.) di-
 tubos opacitas apparent, moventur, illæ motu quæſito, quæſito
 trum intra 25 dies, reſpectu vero Terræ in orbis ſua interim
 moto, intra 273 dies, quod Phenomenon in Fig. 9. dilucide fo-
 exhibitur.



Systema Ioviale.



Systema Saturninum



THEORIA SATELLITUM IOVIS ET SATURNI

in qua præcipua horum planetarum secundariorum Phænomena geometrica designatione sistuntur

a IOH. GABR. DOPPELMAIERO, Acad. Imp. Leopoldino-Carolina Nat. curios. Societatumq. Regiarum, Anglicanae et Borussicae, Sodali et Mathem. Prof. P.

Sumptibus Haredum Homannianorum, Noribergæ. Cum Pr. S. C. A.

De Phenomenis motus Satellitum Iovis et Saturni

De Phaenomenis motus Satellitum Iovis et Saturni.
Planeta secundarius in orbitis ellipticis motum ab occasu ortum
in aequalum, circa suos primarios, lunarium in fere perpetuo exerceat, et solum
tunc, ductis a illorum, centra lineis, pari ratione aequae temporis proportionem
natis, ad vero nobis respectu, Iovis et Saturni afficere in orbitarum fixarum
partes inferiores delati, per viam contrariam, nempe ab ortu in occasum,
movet iudicetur: quo variis comitum stetur natus perquam Regi; (Cf. pag. 11.)
imò et ex illorum provelatione cum primariis motus illius expleto
natus combinati oriuntur: Cf. g. 9. quibus probe perluferatis mag-
num haec Theoria incrementum capiet.

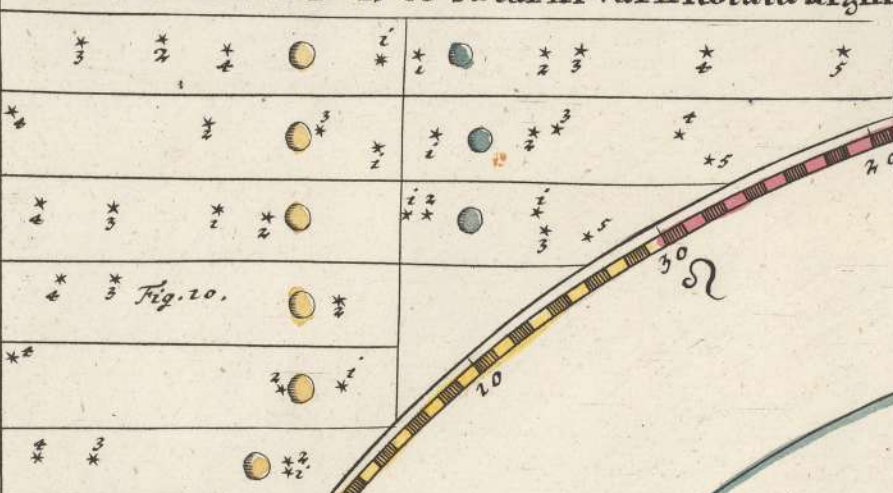
De Eclipsibus comitum Iovis et Saturni, et quidem primo de lunaribus

De Eclipsis comitum Iovis et Saturni et quidem primo de lunaribus.

Planetae idem secundarii, per Iovis opticos insignis, spe spectabiles, septius
 rufius, noster, varias ob causas, subducuntur, græciæ harum Eclipsi-
 um tribuenda, cum venis et adferuntur in umbræ primariæ, vel intra
 ejusdem orbem illuminantur, postea cum lucium in lucis corpore non desin-
 git, possit septius per longum temporis tractum latere, et eclipsis duplicis gen-
 eris fuit. Primi generis eclipses, lunariibus, noster affertur legem
 tibi. contingunt. Vixit Iovis Satellites ex. Jovis ante et post conjuncti-
 onem cum Sole per duas fortis fubejus radices latentes post trigefimum
 illa gradum ad H. videtur in umbra Iovis immergi, nulla observanda

emersione, qua pone corpora acciderit, optus datur, non nunquam, et quartus
 septius, in distantia du graduum, ad conjunctionem, circa 2. emersum
 quoque, et hanc ad 30. gradum versus oppositionem, circa M. existerit
 tunc vero ad M. per ad B. auge, et immersiones et emersiones, ob corporis pri-
 marii interpositionem, cessant, ad B. post trigefimum, oppositione gradum
 statuitur omnino, emersiones, ut et immersiones, tertius et quartus a. per D. et
 E. F. ubi denique a. F. ad H. tempore conjunctionis et de G. celebrato, inte-
 rra et Iupiter et Satellites ejus, ob sua funt holiærum, latetunt

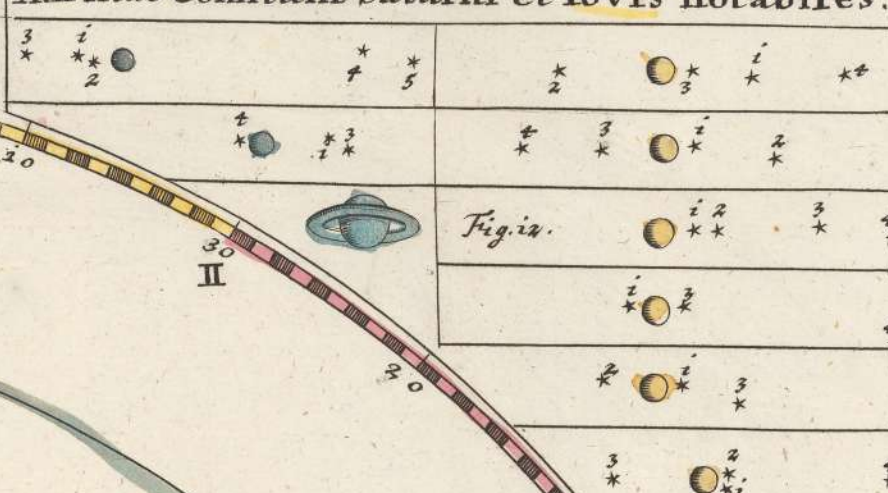
Situs Satellitum Iovis et Saturni variis notatu digni



*Periodi Satellitum Jovis
sec. novissimas observatione
Cel. Tac. Cassini*

D. H. M. S
i. 28. 28. 36
. 13. 17. 54
3. 59. 36.
i8. 5. 7

Alii situs Comitum Saturni et Iovis notabiles



*Periodi Comitum Saturni
sec. novissimas observationes
Ced. Iac. Cassini.*

D. H. M. S.

Primi	i	2i	i8	27.
Secundi	2	i7	46.	22.
Tertii	4	i2	25	12.
Quarti	i5	12	36	36.
Quinti	70	7	47	0

*Digressiones maxima Satellitum
Iovis ab ejus centro sec. eas
Amphora. Ca. 11. 12. 13.*

per $\odot$ Jovis. Gr. min. $\odot$
 Primi. $5\frac{2}{3}$ hinc Primi o. 3. 55
 Secundi. 9. Diam. Secundi o. 6. it
 Tertii. it. $\frac{23}{60}$. Orbitæ Tertii o 9. 58.
 Quarti. $25\frac{16}{60}$ in Celo Quarti o. 17. 30.

*Digressiones maxima comit
Saturni. à hujus centro sec. eo
observ. Cassiniana.*

per Diam. h.	Gr. Min. Sec.
Primus $\frac{1}{2}$	Primus. 0. 1. 27.
Secundus $\frac{1}{2}$	Secundus. 0. 1. 52.
Tertius $\frac{3}{2}$	Tertius. 0. 2. 36.
Quartus 8.	Quartus. 0. 6. 0.
Quintus 23.	Quintus. 0. 17. 25.

De aliis Eclipsibus in Iove et Saturno

De aliiis Edipysium in Iove et Saturno.

Secundum Edipysium genus, quod cum vulgo dictis solis, rivis, terrarum, et Satellitum per aliquod temporis spatium, quasi desit. Aliam etiam defectibus, compactus, omnium primo Bomenia a cel. J. D. Cassino. A. 1687. de in et aliiis Aeronomis, sapienter per Jukos optico probe notis in Iove, observatis, etiam ante egypti Iovis cum Sole oppositionem umbrae unius alteriusque Iovis per Jukos, macule instar, ad ortu in ocaum mobilem vidissent C. vid. Fig. 2 et 3. Idcirco umbrae corpore suo tanto minus distabat, quo minus Terra a loco temporis praedi- ta oppositionis remota deprehenderetur, nulla denique inter se differe- rentia distansie percepta, corpus ipsum Satellitis in Iove corpus optice incelat, ob lumen utriusque, admodum notabile, fit in con- pti-

De motu luminis successivo ex Hypothesi Galil. Roman.

De motu luminis successivo ex Hypothesi Olai Roemer.
Cel. Cassini et Roemerus, ex comparatione observationum Iovialium
et probe instructa, dependenter, primum Satellitem post oppositi-
onem Iovis cum Sole, Terra in B. confectura, tardius, et hinc, et ad
Δ. delata, subinde multo tardius, mox tardissime circa conjunctionem in
con. differentia et Minutorum a calculo, ad H. emeruisse, et conjuncti
xoro L per Δ. et A. M. eundem Satellitem tamper per c. alium. ex
hibuit antipetere in immersione ad G. quibus Phenomena et Roemerus
sistere conatus, lumen successivo tardius ad L. citius ad M. ob id, lumen
majorem et minorem, a L. pertingere, quæ apud multos applausum mun-
dum, sed hæc, cum illa in reliquis tribus differant, a pluribus sit iterum duplici-

HEMISPHERIVM COELI BOREALE,

in quo loca Stellarum fixarum secundum Aequatorem, per Ascensiones nempe rectas et Declinationes ad annum Christi 1730 completum sistuntur

à IOH. GABRIELE DOPPELMAIERO Mathem. Pof. Publ. Acad. Caes. Leopoldino-Carol. Nat. Curiof. et Reg. Societatis Boruff. Sodali.
Opera IOH. BAPT. HOMANNI SAC. CÆ. S. MAJ. GEOGR. NORIMBERGÆ. Cum Privilegio S. C. M.

NOMINA FIXARVM	Ascensio recta	Declinatio
ANDROMEDA		
Caput Andromedæ	22. 37. 37	21. 51. 48
Lucida Cinguli	23. 33. 33	34. 23. 57
Lucida Pectus	23. 33. 33	34. 23. 57
Truncus Scapula	23. 33. 33	34. 23. 57
In Cingulo media	23. 33. 33	34. 23. 57
ANTINOVVS		
Scutellum brachium	23. 33. 33	34. 23. 57
AQUILA		
Lucida in Scapula	23. 33. 33	34. 23. 57
In humero dextero	23. 33. 33	34. 23. 57
In Cauda	23. 33. 33	34. 23. 57
ARIES		
Lucida in Pectus	23. 33. 33	34. 23. 57
Secunda Arctus	23. 33. 33	34. 23. 57
AVRIGA		
Capella	23. 33. 33	34. 23. 57
Humus fufus	23. 33. 33	34. 23. 57
Brachium infimum	23. 33. 33	34. 23. 57
Dexter pes	23. 33. 33	34. 23. 57
BOOTES		
Arcturus	23. 33. 33	34. 23. 57
Cingulum	23. 33. 33	34. 23. 57
Diademata	23. 33. 33	34. 23. 57
Caput	23. 33. 33	34. 23. 57
Humus fufus	23. 33. 33	34. 23. 57
Humus dexterus	23. 33. 33	34. 23. 57
Crus finiftrum	23. 33. 33	34. 23. 57
In finiftrum femore infima	23. 33. 33	34. 23. 57
CANCER		
Brachium infimum	23. 33. 33	34. 23. 57
In Cauda	23. 33. 33	34. 23. 57
CANES MINOR		
Procyon	23. 33. 33	34. 23. 57
In collo	23. 33. 33	34. 23. 57
CANES VENATICI		
In collo	23. 33. 33	34. 23. 57
CASSIOPEA		
Lucida Cathedra	23. 33. 33	34. 23. 57
In pectore, Schedæ	23. 33. 33	34. 23. 57
In humero ad Coccyum	23. 33. 33	34. 23. 57
Dexterum genu	23. 33. 33	34. 23. 57
Finiftrum genu	23. 33. 33	34. 23. 57
CEPHEVS		
Humus finiftrum	23. 33. 33	34. 23. 57
Cingulum	23. 33. 33	34. 23. 57
In dextero crure	23. 33. 33	34. 23. 57
CETVS		
Lucida mandibula	23. 33. 33	34. 23. 57
Media in ore	23. 33. 33	34. 23. 57
CORONA		
Lucida Corona	23. 33. 33	34. 23. 57
CYGNVS		
Brachium	23. 33. 33	34. 23. 57
Pectus	23. 33. 33	34. 23. 57
Cauda	23. 33. 33	34. 23. 57
In ancone alæ boreæ	23. 33. 33	34. 23. 57
In ancone alæ austrinæ	23. 33. 33	34. 23. 57
Extrema alæ austrinæ	23. 33. 33	34. 23. 57
In caudæ alæ austrinæ	23. 33. 33	34. 23. 57
DELPHINVS		
In Capite	23. 33. 33	34. 23. 57
Apex rhinæ excelsitudo	23. 33. 33	34. 23. 57
Alæ dexterae in rhinæ boreâ	23. 33. 33	34. 23. 57
Carinulæ austrinæ	23. 33. 33	34. 23. 57
In Cauda	23. 33. 33	34. 23. 57
DRACO		
Ad robur	23. 33. 33	34. 23. 57
In vertice	23. 33. 33	34. 23. 57
Antæ flexum II lucida boreâ	23. 33. 33	34. 23. 57
Antæ flexum III lucida boreâ	23. 33. 33	34. 23. 57
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Tabula I. Luc		

HEMISPHERIVM COELI AVSTRALE,

in quo loca Stellarum fixarum secundum Aequatorem, per Ascensiones nempe rectas et Declinationes ad annum Christi 1750 completū sistantur

à IOH. GABRIELE DOPPELMAJERO Prof. Publ. Academiæ Cesariæ Leopoldinæ Carol. Nat. Curios. et Regiæ Societatis Boruff. Sodali,
operâ IOH. BAPT. HOMANNI SAC. Cæs. Maj. GEORG. NORIMBERGÆ. Cum Privilegio S. C. M.

NOMINA FIXARVM 7. et tertij honoris		Ascensio recta Declinatio ad annum 1750 completum
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CANIS MAJOR		
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Denique notetur, quod loca stellarum fixarum, quæ secundum Æquatoris ductum per Æquationes rectas et Declinationes geometricè definitæ, spatii inter se distant cum observatis præter sensum libris, nulla enim Projectionis, quæ illæ, ut inter se revera apparent, hic etiam fiſuntur, habita fuit ratio.		



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Lit. T.	6. 30. 36. A	0. 51. 2. A	0. 28. 52. A
Lit. U.	6. 30. 36. A	0. 51. 2. A	0. 28. 52. A
Lit. V.	6. 30. 36. A	0. 51. 2. A	0. 28. 52. A
Lit. W.	6. 30. 36. A	0. 51. 2. A	0. 28. 52. A
Lit. X.	6. 30. 36. A	0. 51. 2. A	0. 28. 52. A
Lit. Y.	6. 30. 36. A	0. 51. 2. A	0. 28. 52. A
Lit. Z.	6. 30. 36. A	0. 51. 2. A	0. 28. 52. A
Capricornus.			
Tab. V.	Lit. A.	8. 23. 32. A	0. 50. 29. A
Lit. B.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Tab. II.	Lit. C.	8. 23. 32. A	0. 50. 29. A
Lit. D.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. E.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. F.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. G.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. H.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. I.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. J.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. K.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. L.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. M.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. N.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. O.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. P.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. Q.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. R.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. S.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. T.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. U.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. V.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. W.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. X.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. Y.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. Z.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Cetus.			
Tab. II.	Lit. C.	7. 49. 48. A	0. 56. 29. A
Lit. D.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. E.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. F.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. G.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. H.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. I.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. J.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. K.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. L.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. M.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. N.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. O.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. P.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. Q.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. R.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. S.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. T.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. U.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. V.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. W.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. X.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. Y.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. Z.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Corvus.			
Tab. IV.	Lit. A.	8. 23. 32. A	0. 50. 29. A
Lit. B.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. C.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. D.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. E.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. F.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. G.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. H.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. I.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. J.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. K.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. L.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. M.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. N.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. O.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. P.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. Q.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. R.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. S.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. T.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. U.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. V.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. W.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. X.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. Y.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Lit. Z.	8. 23. 32. A	0. 50. 29. A	0. 50. 29. A
Eridanus.			
Tab. III.	Lit. A.	7. 49. 48. A	0. 56. 29. A
Lit. B.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. C.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. D.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. E.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. F.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. G.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. H.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. I.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. J.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. K.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. L.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. M.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. N.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. O.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. P.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. Q.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. R.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. S.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. T.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. U.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. V.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. W.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. X.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. Y.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. Z.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Hydra.			
Tab. IV.	Lit. A.	7. 49. 48. A	0. 56. 29. A
Lit. B.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. C.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. D.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. E.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. F.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. G.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. H.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. I.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. J.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. K.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. L.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. M.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. N.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. O.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. P.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. Q.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. R.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. S.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. T.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. U.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. V.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. W.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. X.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. Y.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. Z.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lepus.			
Tab. III.	Lit. A.	7. 49. 48. A	0. 56. 29. A
Lit. B.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. C.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. D.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. E.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. F.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. G.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. H.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. I.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. J.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. K.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. L.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. M.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. N.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. O.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. P.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. Q.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. R.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. S.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. T.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. U.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. V.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. W.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. X.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. Y.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. Z.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Libra.			
Tab. IV.	Lit. A.	7. 49. 48. A	0. 56. 29. A
Lit. B.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. C.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. D.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. E.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. F.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. G.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. H.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. I.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. J.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. K.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. L.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. M.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. N.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. O.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. P.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. Q.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. R.	7. 49. 48. A	0. 56. 29. A	0. 56. 29. A
Lit. S.	7. 49. 48. A	0	

HEMISPHERIUM

in quo Fixarum loca secundum Eclipticæ ductum ad aⁿum 1730 completum exhibentur à
op^{er}a Ioh. Baptistæ Homannii

COELI BOREALE

Ioh. Gabriële Doppelmaier Mathem. PP. Acad. Imp. Leop. Car. Nat. Curios. nec non Reg. Scient. Acad. Boruf. Socio
Sac. Cos. Maj. Geogr. Norimb^{ergae}. Cum Privilegio Sac. Caf. Maystat^{is}.

18

OBSERVATORIIUM TYCHONICUM
Ara hac Uraniburgi cum adjacenti Stellerbergo
regnante Fr^{id}rico Rege Pr^{us}iae II a Nob^{is}
Joh^{ann}e J^{oh}anne de Brahe p^{er} 1610 aⁿno
1576 ædificat^{us} in Suavia Silesia

OBSERVATORIIUM BORUSSEENSE
Hic adeo Urania dicte munificentia Pot^{est} Galliarum
Regis Ludovici XIV ad aⁿum 1687 excitat^{us}

STELLÆ HEMISPHERII BOREALIS

Magnitudo	Primæ	Secundæ	Tertiæ	Quartæ	Quintæ	Sextæ	Septimæ	Octavæ	Nonæ	Decimæ
Ursa minor	0	1	2	3	4	5	6	7	8	9
Ursa major	0	1	2	3	4	5	6	7	8	9
Draco	0	1	2	3	4	5	6	7	8	9
Cepheus	0	1	2	3	4	5	6	7	8	9
Canes venatici	0	1	2	3	4	5	6	7	8	9
Bos cum dea	0	1	2	3	4	5	6	7	8	9
Corvus borealis	0	1	2	3	4	5	6	7	8	9
Bootes	0	1	2	3	4	5	6	7	8	9
Cerebrus	0	1	2	3	4	5	6	7	8	9
Lyra	0	1	2	3	4	5	6	7	8	9
Cygnus	0	1	2	3	4	5	6	7	8	9
Philop ^{us} cum filia	0	1	2	3	4	5	6	7	8	9
Lacerta	0	1	2	3	4	5	6	7	8	9
Castor	0	1	2	3	4	5	6	7	8	9
Pegasus	0	1	2	3	4	5	6	7	8	9
Auriga	0	1	2	3	4	5	6	7	8	9
Serpens	0	1	2	3	4	5	6	7	8	9
Camelus	0	1	2	3	4	5	6	7	8	9
Sagitta	0	1	2	3	4	5	6	7	8	9
Agrippa	0	1	2	3	4	5	6	7	8	9
Antares	0	1	2	3	4	5	6	7	8	9
Delphinus	0	1	2	3	4	5	6	7	8	9
Equuleus	0	1	2	3	4	5	6	7	8	9
Pegasus	0	1	2	3	4	5	6	7	8	9
Andromeda	0	1	2	3	4	5	6	7	8	9
Triangulum	0	1	2	3	4	5	6	7	8	9
Canis borealis	0	1	2	3	4	5	6	7	8	9
Lyra	0	1	2	3	4	5	6	7	8	9
Ursa minor	0	1	2	3	4	5	6	7	8	9
Summa	0	1	2	3	4	5	6	7	8	9

STELLÆ HEMISPHERII BOREALIS

Magnitudo	Primæ	Secundæ	Tertiæ	Quartæ	Quintæ	Sextæ	Septimæ	Octavæ	Nonæ	Decimæ
Aries	0	1	2	3	4	5	6	7	8	9
Taurus	0	1	2	3	4	5	6	7	8	9
Gemini	0	1	2	3	4	5	6	7	8	9
Cancer	0	1	2	3	4	5	6	7	8	9
Leo	0	1	2	3	4	5	6	7	8	9
Virgo	0	1	2	3	4	5	6	7	8	9
Libra	0	1	2	3	4	5	6	7	8	9
Scorpius	0	1	2	3	4	5	6	7	8	9
Sagittarius	0	1	2	3	4	5	6	7	8	9
Capricornus	0	1	2	3	4	5	6	7	8	9
Aquarius	0	1	2	3	4	5	6	7	8	9
Pisces	0	1	2	3	4	5	6	7	8	9
Summa	0	1	2	3	4	5	6	7	8	9

OBSERVATORIIUM HEBERGENSE
Hic Johannes Hebergen Conf^{ess} Dan^{ic}æ circa aⁿno
1650 erigi curavit

OBSERVATORIIUM NORBERGENSE
Prima hujus ædificata Georgio Christo
Strophorus Cæsar^{is} ad aⁿno 1678

HEMISPHERIUM

in quo Fixarum loca secundum Eclipticæ ductum ad annum 1730. completum exhibentur a
operâ Ioh. Baptiste Homanni

COELI AUSTRALIS

IOH. GABRIELE DOFFELMAYERO Math. P. Acad. Imp. Leop. Carolinæ Naturæ Curios. nec non Reg. Scient. Acad. Boruf. Socio
Sac. Cas. Maj. Geogr. Norimbergæ. Cum Privilegio Sac. Caf. Majestatis.



GLOBI COELESTIS IN TABULAS PLANAS REDACTI PARS I.

in qua Longitudines Stellarum fixarum ad añum Chrifi completum 1730 tam Arithmetice quam Geometrice exhibentur

â IOH: GABR: DOPPELMAYR MATH: P.P. *Academ: Cæs: Leopold: Car: Nat: Curiosorum, nec non Societatis Regiæ Borussicæ Socio*

Operâ IOH: BAPT: HOMANNI SAC. CÆS. MAJ. GEOGR. Norimbergæ.

Cum Privilegio Sac. Cæs. Majestatis.

URSA MINOR.		Mus. Lond. Lat.
A	Polaris.	49.56.57 1665.30.12
B	Humeralis.	49.50.49 1665.30.12
C	Alfa flexum III. caudale.	49.55.58 1752.30.12
D	In dorso.	49.56.38 1672.30.12
E	In latere f. ventre.	49.56.57 1665.30.12
F	Gamma.	49.56.57 1665.30.12
G	Media caudae.	49.57.58 1752.30.12
H	Alfa humerum proxima.	49.57.58 1752.30.12
I	In capite.	49.57.58 1752.30.12
J	Sub capite f. equum australis.	49.57.58 1752.30.12
K	Sub capite f. equum borealis.	49.57.58 1752.30.12
DIACO.		
A	Alfa rufum.	51.8.57 1752.30.12
B	In vertice.	51.8.57 1752.30.12
C	Alfa flexum III. lucida borealis.	51.8.57 1752.30.12
D	Alfa flexum III. caudale.	51.8.57 1752.30.12
E	Alfa flexum IV. prior.	51.8.57 1752.30.12
F	Alfa flexum IV. proxima.	51.8.57 1752.30.12
G	Prima cauda.	51.8.57 1752.30.12
H	Penultima cauda.	51.8.57 1752.30.12
I	In lingua.	51.8.57 1752.30.12
J	In ore.	51.8.57 1752.30.12
K	In flexura I. borealis.	51.8.57 1752.30.12
L	In flexura I. australis.	51.8.57 1752.30.12
M	In flexura I. mediana.	51.8.57 1752.30.12
N	In flexura I. mediana aq. bor.	51.8.57 1752.30.12
O	In flexura I. bor. proci. cauda.	51.8.57 1752.30.12
P	In flexura II. duarum proced.	51.8.57 1752.30.12
Q	Po. flexum II. duarum proced. aq.	51.8.57 1752.30.12
R	Po. flexum II. f. equum trium proced.	51.8.57 1752.30.12
S	Po. flexum II. f. equum trium med. par.	51.8.57 1752.30.12
T	Po. flexum II. f. equum trium lat. austr.	51.8.57 1752.30.12
U	Po. flexum II. f. equum trium lat. austr.	51.8.57 1752.30.12
V	Po. flexum II. f. equum trium lat. austr.	51.8.57 1752.30.12
W	Po. flexum II. f. equum trium lat. austr.	51.8.57 1752.30.12
X	Po. flexum II. f. equum trium lat. austr.	51.8.57 1752.30.12
Y	Po. flexum II. f. equum trium lat. austr.	51.8.57 1752.30.12
Z	Po. flexum II. f. equum trium lat. austr.	51.8.57 1752.30.12
CEPHEUS.		
A	Humeralis finiflor.	51.8.57 1752.30.12
B	Cingulum.	51.8.57 1752.30.12
C	In dorso curae.	51.8.57 1752.30.12
D	In tibia prima.	51.8.57 1752.30.12
E	In tibia secunda.	51.8.57 1752.30.12
F	In tibia.	51.8.57 1752.30.12
G	In finiflor cauda.	51.8.57 1752.30.12
H	In finiflor lupo.	51.8.57 1752.30.12
I	In finiflor cauda.	51.8.57 1752.30.12
J	In finiflor cauda.	51.8.57 1752.30.12
K	In finiflor cauda.	51.8.57 1752.30.12
L	In finiflor cauda.	51.8.57 1752.30.12
M	In finiflor cauda.	51.8.57 1752.30.12
N	In finiflor cauda.	51.8.57 1752.30.12
O	In finiflor cauda.	51.8.57 1752.30.12
P	In finiflor cauda.	51.8.57 1752.30.12
Q	In finiflor cauda.	51.8.57 1752.30.12
R	In finiflor cauda.	51.8.57 1752.30.12
S	In finiflor cauda.	51.8.57 1752.30.12
T	In finiflor cauda.	51.8.57 1752.30.12
U	In finiflor cauda.	51.8.57 1752.30.12
V	In finiflor cauda.	51.8.57 1752.30.12
W	In finiflor cauda.	51.8.57 1752.30.12
X	In finiflor cauda.	51.8.57 1752.30.12
Y	In finiflor cauda.	51.8.57 1752.30.12
Z	In finiflor cauda.	51.8.57 1752.30.12
URSA MAJOR.		
A	In latere.	51.8.57 1752.30.12
B	In venter.	51.8.57 1752.30.12
C	In dorso.	51.8.57 1752.30.12
D	In oxa.	51.8.57 1752.30.12
E	In oxa.	51.8.57 1752.30.12
F	Media caudae.	51.8.57 1752.30.12
G	Utriusque.	51.8.57 1752.30.12
H	In dorso.	51.8.57 1752.30.12
I	In dorso.	51.8.57 1752.30.12
J	In dorso.	51.8.57 1752.30.12
K	In dorso.	51.8.57 1752.30.12
L	In dorso.	51.8.57 1752.30.12
M	In dorso.	51.8.57 1752.30.12
N	In dorso.	51.8.57 1752.30.12
O	In dorso.	51.8.57 1752.30.12
P	In dorso.	51.8.57 1752.30.12
Q	In dorso.	51.8.57 1752.30.12
R	In dorso.	51.8.57 1752.30.12
S	In dorso.	51.8.57 175



	In femore iuniora secunda	6.31.50	17.57.30
Y	In femore iuniora tertia	6.31.50	17.57.30
Z	In femore iuniora quarta	6.37.58	17.58.10
A	Surgens genua pectus dextrum	17.28.40	17.58.20
B	In femore iuniora quinta pectus omni	17.28.40	17.58.20
C	In senne	17.28.40	17.58.20
D	In femore iuniora sexta	17.28.40	17.58.20
E	Inter pedes anteriores	17.28.40	17.58.20
F	In pede dextro procedens	17.28.40	17.58.20
G	In pede sinistro procedens	17.28.40	17.58.20
H	In pede dextro inferior	17.28.40	17.58.20
I	In pede sinistro inferior	17.28.40	17.58.20
CASSIOPEA.			
A	Lucida Cathedra.	0.21.58	20.53.33.30
B	Schedr in pectore	0.21.58	20.53.33.30
C	In laeura dextera	0.21.58	20.53.33.30
D	Dextrum genu	0.21.58	20.53.33.30
E	Sinistrum genu	0.21.58	20.53.33.30
F	Cingulum	0.21.58	20.53.33.30
G	Extrema pedis	0.21.58	20.53.33.30
H	Extrema pedis	0.21.58	20.53.33.30
I	Nova in Capriope 1572	0.21.58	20.53.33.30
K	Peristylus	0.21.58	20.53.33.30
M	Secunda Virgo	0.21.58	20.53.33.30
N	Peristylus	0.21.58	20.53.33.30
O	Peristylus ad iuniora	0.21.58	20.53.33.30
P	In dextro cubito	0.21.58	20.53.33.30
Q	In sinistro cubito	0.21.58	20.53.33.30
R	In iuniora brachio	0.21.58	20.53.33.30
S	In iuniora brachio	0.21.58	20.53.33.30
T	In iuniora brachio	0.21.58	20.53.33.30
U	In iuniora brachio	0.21.58	20.53.33.30
V	In iuniora brachio	0.21.58	20.53.33.30
W	In iuniora brachio	0.21.58	20.53.33.30
X	In iuniora brachio	0.21.58	20.53.33.30
Y	In iuniora brachio	0.21.58	20.53.33.30
Z	In iuniora brachio	0.21.58	20.53.33.30
CYGNUS.			
D	Cauda	1.24.51	15.59.47.00
E	In ancone alae boreae	1.24.51	15.59.47.00
F	Extrema et suprema alae boreae	1.24.51	15.59.47.00
G	Alae boreae penultima vel	1.24.51	15.59.47.00
H	Alae boreae penultima vel	1.24.51	15.59.47.00
I	In iuniora pede procedens	1.24.51	15.59.47.00
N	In iuniora pede procedens	1.24.51	15.59.47.00
O	In iuniora pede procedens	1.24.51	15.59.47.00
P	In iuniora pede procedens	1.24.51	15.59.47.00
Q	In iuniora pede procedens	1.24.51	15.59.47.00
R	In iuniora pede procedens	1.24.51	15.59.47.00
S	In iuniora pede procedens	1.24.51	15.59.47.00
T	In iuniora pede procedens	1.24.51	15.59.47.00
U	In iuniora pede procedens	1.24.51	15.59.47.00
V	In iuniora pede procedens	1.24.51	15.59.47.00
W	In iuniora pede procedens	1.24.51	15.59.47.00
X	In iuniora pede procedens	1.24.51	15.59.47.00
Y	In iuniora pede procedens	1.24.51	15.59.47.00
Z	In iuniora pede procedens	1.24.51	15.59.47.00
LYRA.			
R	Ad collum Vultus superior	6.40.50	16.58.22.00
HERCULES.			
K	In dextera furca	1.30.31	16.58.22.00
L	In dextera furca	1.30.31	16.58.22.00
M	In iuniora furca	1.30.31	16.58.22.00
N	In iuniora furca	1.30.31	16.58.22.00
O	In iuniora furca	1.30.31	16.58.22.00
P	In iuniora furca	1.30.31	16.58.22.00
Q	In iuniora furca	1.30.31	16.58.22.00
R	In iuniora furca	1.30.31	16.58.22.00
S	In iuniora furca	1.30.31	16.58.22.00
T	In iuniora furca	1.30.31	16.58.22.00
U	In iuniora furca	1.30.31	16.58.22.00
V	In iuniora furca	1.30.31	16.58.22.00
W	In iuniora furca	1.30.31	16.58.22.00
X	In iuniora furca	1.30.31	16.58.22.00
Y	In iuniora furca	1.30.31	16.58.22.00
Z	In iuniora furca	1.30.31	16.58.22.00
BOOTES.			
D	Caput	1.20.27	16.58.22.00
H	Dextro manus procedens	1.20.27	16.58.22.00
I	Dextro manus procedens	1.20.27	16.58.22.00
K	Dextro manus procedens	1.20.27	16.58.22.00
L	Dextro manus procedens	1.20.27	16.58.22.00
M	Dextro		
N	Dextro		
O	Dextro		
P	Dextro		
Q	Dextro		
R	Dextro		
S	Dextro		
T	Dextro		
U	Dextro		
V	Dextro		
W	Dextro		
X	Dextro		
Y	Dextro		
Z	Dextro		
CANES VENATICI ASTERION			
T	In Veno Asterionis	6.22.45	16.58.22.00
V	In fronte Asterionis	6.22.45	16.58.22.00
W	In oculo Asterionis	6.22.45	16.58.22.00
LYNX ET TIGRIS.			
A	Gena iuniora oculum	0.21.58	17.58.10.30
B	Ad mentum fere in narius pectus	0.21.58	17.58.10.30
C	Ad mentum fere in narius pectus	0.21.58	17.58.10.30
D	Ad mentum fere in narius pectus	0.21.58	17.58.10.30
E	In capite iuniora	0.21.58	17.58.10.30
F	In capite iuniora	0.21.58	17.58.10.30
G	In capite iuniora	0.21.58	17.58.10.30
H	In capite iuniora	0.21.58	17.58.10.30
I	In capite iuniora	0.21.58	17.58.10.30
K	In capite iuniora	0.21.58	17.58.10.30
L	In capite iuniora	0.21.58	17.58.10.30
M	In capite iuniora	0.21.58	17.58.10.30
N	In capite iuniora	0.21.58	17.58.10.30
O	In capite iuniora	0.21.58	17.58.10.30
P	In capite iuniora	0.21.58	17.58.10.30
Q	In capite iuniora	0.21.58	17.58.10.30
R	In capite iuniora	0.21.58	17.58.10.30
S	In capite iuniora	0.21.58	17.58.10.30
T	In capite iuniora	0.21.58	17.58.10.30
U	In capite iuniora	0.21.58	17.58.10.30
V	In capite iuniora	0.21.58	17.58.10.30
W	In capite iuniora	0.21.58	17.58.10.30
X	In capite iuniora	0.21.58	17.58.10.30
Y	In capite iuniora	0.21.58	17.58.10.30
Z	In capite iuniora	0.21.58	17.58.10.30
AURIGA.			
A	Supra caput	0.21.58	17.58.10.30
H	Supra caput	0.21.58	17.58.10.30
I	Supra caput	0.21.58	17.58.10.30
J	Supra caput	0.21.58	17.58.10.30
K	Supra caput	0.21.58	17.58.10.30
L	Supra caput	0.21.58	17.58.10.30
M	Supra caput	0.21.58	17.58.10.30
N	Supra caput	0.21.58	17.58.10.30
O	Supra caput	0.21.58	17.58.10.30
P	Supra caput	0.21.58	17.58.10.30
Q	Supra caput	0.21.58	17.58.10.30
R	Supra caput	0.21.58	17.58.10.30
S	Supra caput	0.21.58	17.58.10.30
T	Supra caput	0.21.58	17.58.10.30
U	Supra caput	0.21.58	17.58.10.30
V	Supra caput	0.21.58	17.58.10.30
W	Supra caput	0.21.58	17.58.10.30
X	Supra caput	0.21.58	17.58.10.30
Y	Supra caput	0.21.58	17.58.10.30
Z	Supra caput	0.21.58	17.58.10.30
PERSEUS.			
A	Fulgens in iuniora latere	0.21.58	17.58.10.30
H	Humerus iuniora	0.21.58	17.58.10.30
I	Humerus iuniora	0.21.58	17.58.10.30
J	Humerus iuniora	0.21.58	17.58.10.30
K	Humerus iuniora	0.21.58	17.58.10.30
L	Humerus iuniora	0.21.58	17.58.10.30
M	Humerus iuniora	0.21.58	17.58.10.30
N	Humerus iuniora	0.21.58	17.58.10.30
O	Humerus iuniora	0.21.58	17.58.10.30
P	Humerus iuniora	0.21.58	17.58.10.30
Q	Humerus iuniora	0.21.58	17.58.10.30
R	Humerus iuniora	0.21.58	17.58.10.30
S	Humerus iuniora	0.21.58	17.58.10.30
T	Humerus iuniora	0.21.58	17.58.10.30
U	Humerus iuniora	0.21.58	17.58.10.30
V	Humerus iuniora	0.21.58	17.58.10.30
W	Humerus iuniora	0.21.58	17.58.10.30
X	Humerus iuniora	0.21.58	17.58.10.30
Y	Humerus iuniora	0.21.58	17.58.10.30
Z	Humerus iuniora	0.21.58	17.58.10.30
LACERTA STELLIO.			
D	In dorso	0.21.58	17.58.10.30
E	In dorso	0.21.58	17.58.10.30
F	In dorso	0.21.58	17.58.10.30
G	In dorso	0.21.58	17.58.10.30
LEO MINOR.			
A	In capite	0.21.58	17.58.10.30
B	In capite	0.21.58	17.58.10.30
C	In capite	0.21.58	17.58.10.30
D	In capite	0.21.58	17.58.10.30
E	In capite	0.21.58	17.58.10.30
F	In capite	0.21.58	17.58.10.30
G	In capite	0.21.58	17.58.10.30
H	In capite	0.21.58	17.58.10.30
I	In capite	0.21.58	17.58.10.30
J	In capite	0.21.58	17.58.10.30
K	In capite	0.21.58	17.58.10.30
L	In capite	0.21.58	17.58.10.30
M	In capite	0.21.58	17.58.10.30
N	In capite	0.21.58	17.58.10.30
O	In capite	0.21.58	17.58.10.30
P	In capite	0.21.58	17.58.10.30
Q	In capite	0.21.58	17.58.10.30
R	In capite	0.21.58	17.58.10.30
S	In capite	0.21.58	17.58.10.30
T	In capite	0.21.58	17.58.10.30
U	In capite	0.21.58	17.58.10.30
V	In capite	0.21.58	17.58.10.30
W	In capite	0.21.58	17.58.10.30
X	In capite	0.21.58	17.58.10.30
Y	In capite	0.21.58	17.58.10.30
Z	In capite	0.21.58	17.58.10.30

GLOBI COELESTIS IN TABULAS PLANAS REDACTI PARS II.

in qua Longitudines Stellarum fixarum ad añum Christi completum 1730 tam Arithmetice quam Geometrice exhibentur

à IOH. GARR. DOPPELMAYR MATH. P.P. Academ. Cæs. Leopold. Car. Nat. Curiosorum nec non Societatis Regiæ Borussicæ Socio

Operâ IOH. BAPT. HOMANNI SAC. CÆS. MAJ. GEOGR. Norimbergæ.

Cum Privilegio Sac. Cæs. Majest. 350

CYGNUS.		Long.	Lat.
A	Extrema ala superior.	349.20.45	53.57.8.B
B	In ala superior infima.	349.20.45	53.57.8.B
C	In ala superior media.	349.20.45	53.57.8.B
D	In ala superior inferior.	349.20.45	53.57.8.B
E	In ala superior extrema.	349.20.45	53.57.8.B
F	In ala superior extrema.	349.20.45	53.57.8.B
G	In ala superior extrema.	349.20.45	53.57.8.B
H	In ala superior extrema.	349.20.45	53.57.8.B
I	In ala superior extrema.	349.20.45	53.57.8.B
K	In ala superior extrema.	349.20.45	53.57.8.B

LACERTA S. STELLIO.		Long.	Lat.
A	In extremitate cauda.	349.20.45	53.57.8.B
B	In extremitate cauda.	349.20.45	53.57.8.B
C	In extremitate cauda.	349.20.45	53.57.8.B
D	In extremitate cauda.	349.20.45	53.57.8.B
E	In extremitate cauda.	349.20.45	53.57.8.B
F	In extremitate cauda.	349.20.45	53.57.8.B
G	In extremitate cauda.	349.20.45	53.57.8.B
H	In extremitate cauda.	349.20.45	53.57.8.B
I	In extremitate cauda.	349.20.45	53.57.8.B
K	In extremitate cauda.	349.20.45	53.57.8.B

ANDROMEDA.		Long.	Lat.
A	Caput Andromedæ.	349.20.45	53.57.8.B
B	Lucida cinguli, Mirach.	349.20.45	53.57.8.B
C	Lucida pes, Almac.	349.20.45	53.57.8.B
D	Dextra Scapula.	349.20.45	53.57.8.B
E	In tergo.	349.20.45	53.57.8.B
F	Dexter humerus.	349.20.45	53.57.8.B
G	In sinistro brachio superior.	349.20.45	53.57.8.B
H	In sinistro brachio media.	349.20.45	53.57.8.B
I	In sinistro brachio inferior.	349.20.45	53.57.8.B
K	In sinistro brachio extrema.	349.20.45	53.57.8.B

TRIANGULUM MAJUS.		Long.	Lat.
A	In capite.	349.20.45	53.57.8.B
B	In capite superior.	349.20.45	53.57.8.B
C	In capite inferior.	349.20.45	53.57.8.B
D	In capite extrema.	349.20.45	53.57.8.B
E	In capite extrema.	349.20.45	53.57.8.B
F	In capite extrema.	349.20.45	53.57.8.B
G	In capite extrema.	349.20.45	53.57.8.B
H	In capite extrema.	349.20.45	53.57.8.B
I	In capite extrema.	349.20.45	53.57.8.B
K	In capite extrema.	349.20.45	53.57.8.B

TRIANGULUM MINUS.		Long.	Lat.
A	In capite.	349.20.45	53.57.8.B
B	In capite superior.	349.20.45	53.57.8.B
C	In capite inferior.	349.20.45	53.57.8.B
D	In capite extrema.	349.20.45	53.57.8.B
E	In capite extrema.	349.20.45	53.57.8.B
F	In capite extrema.	349.20.45	53.57.8.B
G	In capite extrema.	349.20.45	53.57.8.B
H	In capite extrema.	349.20.45	53.57.8.B
I	In capite extrema.	349.20.45	53.57.8.B
K	In capite extrema.	349.20.45	53.57.8.B

PERSEUS.		Long.	Lat.
A	In capite.	349.20.45	53.57.8.B
B	In capite superior.	349.20.45	53.57.8.B
C	In capite inferior.	349.20.45	53.57.8.B
D	In capite extrema.	349.20.45	53.57.8.B
E	In capite extrema.	349.20.45	53.57.8.B
F	In capite extrema.	349.20.45	53.57.8.B
G	In capite extrema.	349.20.45	53.57.8.B
H	In capite extrema.	349.20.45	53.57.8.B
I	In capite extrema.	349.20.45	53.57.8.B
K	In capite extrema.	349.20.45	53.57.8.B

VULPECULA.		Long.	Lat.
A	In capite.	349.20.45	53.57.8.B
B	In capite superior.	349.20.45	53.57.8.B
C	In capite inferior.	349.20.45	53.57.8.B
D	In capite extrema.	349.20.45	53.57.8.B
E	In capite extrema.	349.20.45	53.57.8.B
F	In capite extrema.	349.20.45	53.57.8.B
G	In capite extrema.	349.20.45	53.57.8.B
H	In capite extrema.	349.20.45	53.57.8.B
I	In capite extrema.	349.20.45	53.57.8.B
K	In capite extrema.	349.20.45	53.57.8.B

EQUULEUS.		Long.	Lat.
A	In capite.	349.20.45	53.57.8.B
B	In capite superior.	349.20.45	53.57.8.B
C	In capite inferior.	349.20.45	53.57.8.B
D	In capite extrema.	349.20.45	53.57.8.B
E	In capite extrema.	349.20.45	53.57.8.B
F	In capite extrema.	349.20.45	53.57.8.B
G	In capite extrema.	349.20.45	53.57.8.B
H	In capite extrema.	349.20.45	53.57.8.B
I	In capite extrema.	349.20.45	53.57.8.B
K	In capite extrema.	349.20.45	53.57.8.B

PEGASUS.		Long.	Lat.
A	In capite.	349.20.45	53.57.8.B
B	In capite superior.	349.20.45	53.57.8.B
C	In capite inferior.	349.20.45	53.57.8.B
D	In capite extrema.	349.20.45	53.57.8.B
E	In capite extrema.	349.20.45	53.57.8.B
F	In capite extrema.	349.20.45	53.57.8.B
G	In capite extrema.	349.20.45	53.57.8.B
H	In capite extrema.	349.20.45	53.57.8.B
I	In capite extrema.	349.20.45	53.57.8.B
K	In capite extrema.	349.20.45	53.57.8.B

CAPRICORNUS.		Long.	Lat.
A	In capite.	349.20.45	53.57.8.B
B	In capite superior.	349.20.45	53.57.8.B
C	In capite inferior.	349.20.45	53.57.8.B
D	In capite extrema.	349.20.45	53.57.8.B
E	In capite extrema.	349.20.45	53.57.8.B
F	In capite extrema.	349.20.45	53.57.8.B
G	In capite extrema.	349.20.45	53.57.8.B
H	In capite extrema.	349.20.45	53.57.8.B
I	In capite extrema.	349.20.45	53.57.8.B
K	In capite extrema.	349.20.45	53.57.8.B

AQUARIUS.		Long.	Lat.
A	In capite.	349.20.45	53.57.8.B
B	In capite superior.	349.20.45	53.57.8.B
C	In capite inferior.	349.20.45	53.57.8.B
D	In capite extrema.	349.20.45	53.57.8.B
E	In capite extrema.	349.20.45	53.57.8.B
F	In capite extrema.	349.20.45	53.57.8.B
G	In capite extrema.	349.20.45	53.57.8.B
H	In capite extrema.	349.20.45	53.57.8.B
I	In capite extrema.	349.20.45	53.57.8.B
K	In capite extrema.	349.20.45	53.57.8.B

ERIDANUS.		Long.	Lat.
A	In capite.	349.20.45	53.57.8.B
B	In capite superior.	349.20.45	53.57.8.B
C	In capite inferior.	349.20.45	53.57.8.B
D	In capite extrema.	349.20.45	53.57.8.B
E	In capite extrema.	349.20.45	53.57.8.B
F	In capite extrema.	349.20.45	53.57.8.B
G	In capite extrema.	349.20.45	53.57.8.B
H	In capite extrema.	349.20.45	53.57.8.B
I	In capite extrema.	349.20.45	53.57.8.B
K	In capite extrema.	349.20.45	53.57.8.B

PISCIS NOTIUS.		Long.	Lat.
A	In capite.	349.20.45	53.57.8.B
B	In capite superior.	349.20.45	53.57.8.B
C	In capite inferior.	349.20.45	53.57.8.B
D	In capite extrema.	349.20.45	53.57.8.B
E	In capite extrema.	349.20.45	53.57.8.B
F	In capite extrema.	349.20.45	53.57.8.B
G	In capite extrema.	349.20.45	53.57.8.B
H	In capite extrema.	349.20.45	53.57.8.B
I	In capite extrema.	349.20.45	53.57.8.B
K	In capite extrema.	349.20.45	53.57.8.B

GRUS.		Long.	Lat.
A	In capite.	349.20.45	53.57.8.B
B	In capite superior.	349.20.45	53.57.8.B
C	In capite inferior.	349.20.45	53.57.8.B
D	In capite extrema.	349.20.45	53.57.8.B
E	In capite extrema.	349.20.45	53.57.8.B
F	In capite extrema.	349.20.45	53.57.8.B
G	In capite extrema.	349.20.45	53.57.8.B
H	In capite extrema.	349.20.45	53.57.8.B
I	In capite extrema.	349.20.45	53.57.8.B
K	In capite extrema.	349.20.45	53.57.8.B

PHENIX.		Long.	Lat.
A	In capite.	349.20.45	53.57.8.B
B	In capite superior.	349.20.45	53.57.8.B
C	In capite inferior.	349.20.45	53.57.8.B
D	In capite extrema.	349.20.45	53.57.8.B
E	In capite extrema.	349.20.45	53.57.8.B
F	In capite extrema.	349.20.45	53.57.8.B
G	In capite extrema.	349.20.45	53.57.8.B
H	In capite extrema.	349.20.45	53.57.8.B
I	In capite extrema.	349.20.45	53.57.8.B
K	In capite extrema.	349.20.45	53.57.8.B



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Operâ IOH. BAPT. HOMANNI SAC. CÆS. MAJ. GEOGR. Norimbergæ.



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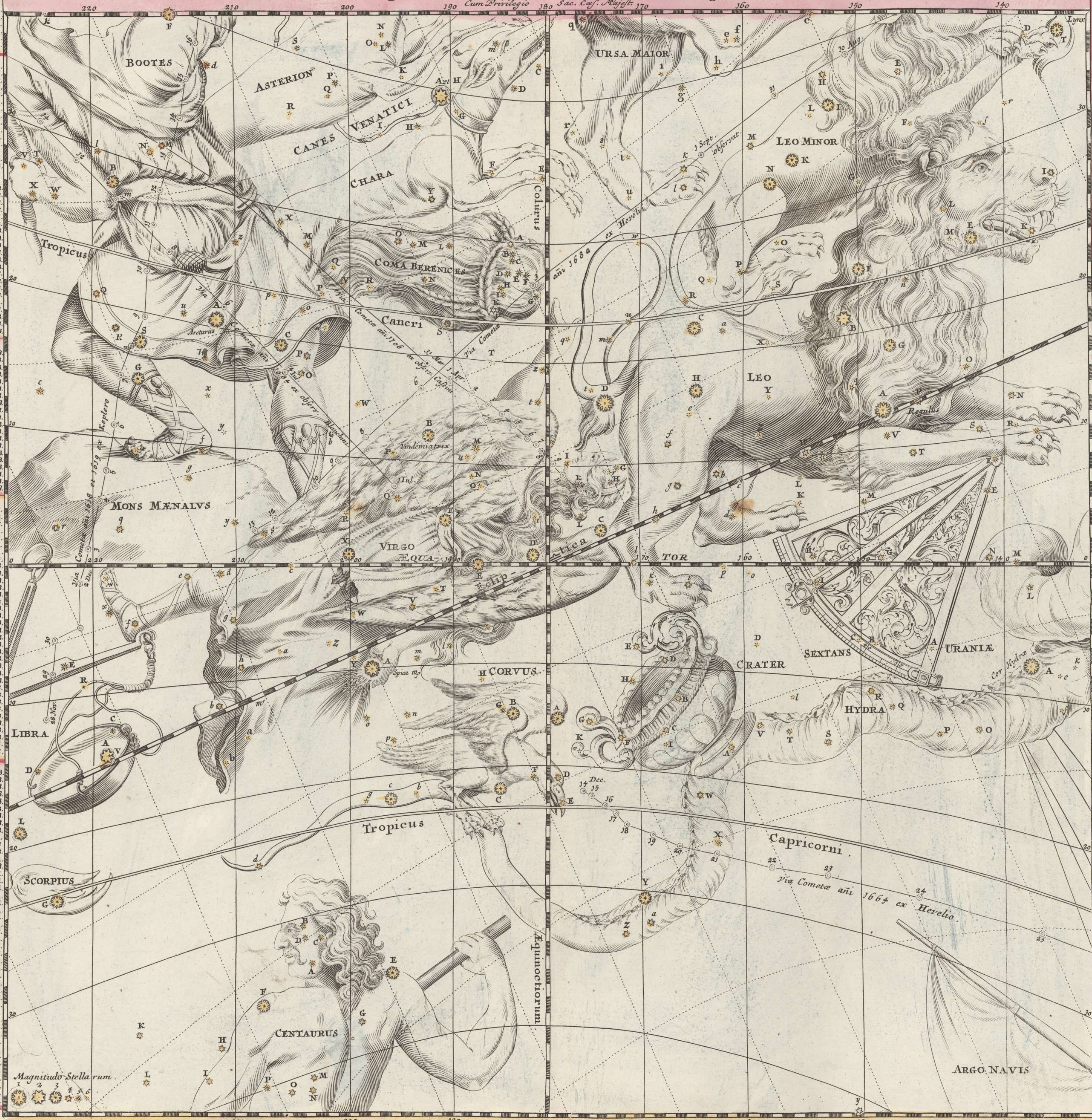
à IOH. GABR. DOPPELMAYR MATH. P.P. Academ. Cæs. Leopold. Car. Nat. Curiosorum nec non Societatis Regiæ Borussicæ Socio

Opera IOH: BAPT: HOMANNI SAC: CAS: MAJ: GEOGR: Norimbergæ.
Cum Privilegio Sac: Cels: Aulicæ

190 um. L. riviegw 180 Sac. Caj. P. Cay. 170

A	In dextra medulla azyriaki	17.55	57.70	44.13 B
A	Ad dextrum genu	17.55	57.70	33.30 A, B
A	In dext. ped. popl. azyri. praeced.	17.55	59.70	37.70 A, B
A	In dext. ped. media	17.55	57.70	38.30 A, B
A	In dext. ped. popl. azyri. praeced.	17.55	57.70	38.30 A, B
A	Præulima cauda	17.55	57.70	38.30 A, B
A	Ad genam	17.55	57.70	38.30 A, B
A	Tuor pedes posteriores praeced.	17.55	57.70	38.30 A, B
A	Tuor pedes posteriores sequent.	17.55	57.70	38.30 A, B
A	In capite azyri. praeced.	17.55	57.70	38.30 A, B
A	In capite azyri. praeced.	17.55	57.70	38.30 A, B
A	In fronte Leonis	17.55	57.70	38.30 A, B
A	Prima cauda in educatione	17.55	57.70	38.30 A, B
A	Antepenultima cauda	17.55	57.70	38.30 A, B
A	Suprema f. secunda cauda	17.55	57.70	38.30 A, B
A	In omni venter praecedens	17.55	57.70	38.30 A, B
VIRGO.				
A	Spina virginitatis	17.55	57.70	38.30 A, B
A	Vindematrix azyri.	17.55	57.70	38.30 A, B
A	Secunda ad azyri.	17.55	57.70	38.30 A, B
A	Secunda ad azyri.	17.55	57.70	38.30 A, B

F	<i>Reuerens sequens.</i>	
G	<i>In armo desce.</i>	1. 46. a. m. 29. a. 2.
H	<i>In scuto pced. bor. in brachio</i>	1. 54. a. m. 34. a. 2.
I	<i>Sinfro prima</i>	
I	<i>Aufrina in brachio sinfro sequen.</i>	1. 58. a. m. 38. a. 2.
K	<i>Sequentium duarum borea</i>	1. 58. a. m. 36. 16. a. 2.
L	<i>Sequentium aufralis</i>	1. 56. 3. a. m. 54. a. 2.
M	<i>In latere sinfro trium pced</i>	1. 74. a. m. 38. 16. a. 2.
N	<i>Media</i>	1. 44. a. m. 36. 16. a. 2.
O	<i>Sequens.</i>	1. 67. a. m. 36. 16. 59. a. 2.
P	<i>In brachio sinfro. f. sub brachio sinfro.</i>	1. 52. a. m. 56. 31. a. 2.



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à IOH. GABR. DOPPELMAYR MATH. P.P. Academ. Cæs. Leopold. Car. Nat. Curiosorum, nec non Societatis Regiæ Borussicæ Socio

Cum Privilegio Sac. Caes. Majestatis.

GLOBI COELESTIS IN TABULAS PLANAS REDACTI PARS V.

in qua Longitudines Stellarum fixarum ad annum Christi completum 1730 tam Arithmetice quam Geometrice exhibentur
a IOH. GABR. DOPPELMAYR MATH. P.P. Academ. Cæs. Leopold. Car. Nat. Curioforum, nec non Societatis Regiæ Borussicæ Socio
Operâ IOH. BAPT. HOMANNI SAC. CÆS. MAJ. GEOGR. Norimbergæ.
Cum Privilegio Sac. Cæs. Majestatis.

The map is a detailed celestial chart showing various constellations and their stars. The constellations depicted include Cygnus, Lyra, Vultur Cadens, Corona Borealis, Hercules, Bootes, Vulpecula, Anser, Sagitta, Aquila, Delphinus, Equuleus, Antinous, Scutum Sobiescianum, Ecliptica, Capricornus, Sagittarius, Corona Australis, Piscis Notus, Corvus, Serpens Ophiuchi, Mons Menalus, Libra, Scorpius, and Lupus. The map is titled 'GLOBI COELESTIS IN TABULAS PLANAS REDACTI PARS V.' and includes a dedication to Johann Gabriel Doppelmayr and Johann Baptist Homann. The map is a detailed celestial chart showing various constellations and their stars. The constellations depicted include Cygnus, Lyra, Vultur Cadens, Corona Borealis, Hercules, Bootes, Vulpecula, Anser, Sagitta, Aquila, Delphinus, Equuleus, Antinous, Scutum Sobiescianum, Ecliptica, Capricornus, Sagittarius, Corona Australis, Piscis Notus, Corvus, Serpens Ophiuchi, Mons Menalus, Libra, Scorpius, and Lupus. The map is titled 'GLOBI COELESTIS IN TABULAS PLANAS REDACTI PARS V.' and includes a dedication to Johann Gabriel Doppelmayr and Johann Baptist Homann.

[illegible]

GLOBI COELESTIS IN TABULAS PLANAS REDACTI PARS VI.

in qua Longitudines Stellarum fixarum ad annum Christi completum 1730 tam Arithmetice quam Geometrice exhibentur

à IOH. GABR. DOPPELMAYR MATH. PP. Academ. Cæs. Leopold. Car. Nat. Curioforum, nec non Societatis Regiæ Borussicæ Socio
Operâ IOH. BAPT. HOMANNI SAC. CÆS. MAJ. GEOGR. Norimbergæ.

CORONA AUSTRALIS			Mag. Long. Latit.
A	Quæ foris præcipue ad Austrum in cæcis ignis	11.20.0	22.31.0
SAGITTARIUS			Mag. Long. Latit.
e	In finibus dextro præcipue ad Austrum	11.37.0	22.27.0
f	Quæ foris præcipue ad Austrum	11.45.0	22.35.0
PISCIS NOTIUS			Mag. Long. Latit.
M	Præcedentium Piscis quæ ante	11.0.0	22.40.0
N	Media	11.30.0	22.30.0
O	Sequens trium	11.0.0	22.30.0
P	Quæ hæc præcedit obliqua	11.0.0	22.30.0
CENTAURUS			Mag. Long. Latit.
Q	In finibus cubi	11.30.0	22.30.0
R	In extrema manu sinistra	11.30.0	22.30.0
S	In educatione corporis humani	11.30.0	22.30.0
T	Duarum obliquarum sequens	11.30.0	22.30.0
V	Præcedens	11.30.0	22.30.0
W	In dorso equo nebula	11.30.0	22.30.0
X	In lumbis duarum sequens	11.30.0	22.30.0
Y	Præcedens ex illis	11.30.0	22.30.0
Z	In finibus finium duarum borea	11.30.0	22.30.0
A	Australis	11.30.0	22.30.0
B	De duabus finibus sequentibus Austrum	11.30.0	22.30.0
C	Boreæ	11.30.0	22.30.0
D	Clava in alio	11.30.0	22.30.0
E	De quatuor dextis à Nautis Crebris borea	11.30.0	22.30.0
F	Australis per crucem	11.30.0	22.30.0
G	Præcedens crucem	11.30.0	22.30.0
H	Sequens crucem	11.30.0	22.30.0
I	Quæ in pede sinistra	11.30.0	22.30.0
K	In genu dextro, finis ad ung.	11.30.0	22.30.0
L	Quæ inter hanc & præced. finem	11.30.0	22.30.0
M	Quæ in ung. dextro sinistra	11.30.0	22.30.0
LUPUS			Mag. Long. Latit.
A	In finibus posteriori ad brachium	11.30.0	22.30.0
B	In finibus anteriori ad brachium	11.30.0	22.30.0
C	In finibus equorum	11.30.0	22.30.0
D	Duarum manus australium borea	11.30.0	22.30.0
E	Australis	11.30.0	22.30.0
F	Parva contingit pedes australis	11.30.0	22.30.0
G	In arma duarum præcedens	11.30.0	22.30.0
H	In arma duarum sequens	11.30.0	22.30.0
I	In medio corpore	11.30.0	22.30.0
K	In alio	11.30.0	22.30.0
L	In femore	11.30.0	22.30.0
M	In educatione finium borea	11.30.0	22.30.0
N	Australis	11.30.0	22.30.0
O	In finibus lumbi	11.30.0	22.30.0
P	In extrema cauda duarum austrum	11.30.0	22.30.0
Q	Borealis	11.30.0	22.30.0
TRIANGULUM AUSTRALE			Mag. Long. Latit.
A	Quæ in capite	11.30.0	22.30.0
B	Borealis	11.30.0	22.30.0
C	Hanc sequens parva	11.30.0	22.30.0
D	Australis	11.30.0	22.30.0
E	Parva in medio	11.30.0	22.30.0
ARA THURIBULI			Mag. Long. Latit.
A	In basi duarum borea	11.30.0	22.30.0
B	Australis	11.30.0	22.30.0
C	In medio Ara	11.30.0	22.30.0
D	In dorso trium borea	11.30.0	22.30.0
E	Reliquarum duarum austrum austrum	11.30.0	22.30.0
F	Borealis	11.30.0	22.30.0
G	In medio flammæ	11.30.0	22.30.0
H	In finibus flammæ præcedens	11.30.0	22.30.0
I	Sequens	11.30.0	22.30.0
PAVO			Mag. Long. Latit.
A	Parva in capite	11.30.0	22.30.0
B	Quæ in pectore	11.30.0	22.30.0
C	In radice alæ sinistra	11.30.0	22.30.0
D	In media alæ	11.30.0	22.30.0
E	In educatione caudæ prima	11.30.0	22.30.0
F	Secunda caudæ	11.30.0	22.30.0
G	Tertia caudæ	11.30.0	22.30.0
H	Quarta caudæ	11.30.0	22.30.0
I	Quinta caudæ	11.30.0	22.30.0
K	Sexta caudæ	11.30.0	22.30.0
L	Septima caudæ	11.30.0	22.30.0
M	Ultima caudæ	11.30.0	22.30.0
N	In finibus pedis Hævelii sub caudæ	11.30.0	22.30.0
O	In dorso pedis Hævelii in finibus	11.30.0	22.30.0
INDUS			Mag. Long. Latit.
A	In capite	11.30.0	22.30.0
B	In axilla dextera	11.30.0	22.30.0
C	In dextera manu sagitta prima	11.30.0	22.30.0
D	Secunda	11.30.0	22.30.0
E	In dorso	11.30.0	22.30.0
F	In finibus parva sagitta non finis	11.30.0	22.30.0
G	In ma.	11.30.0	22.30.0
H	In axilla sinistra occident	11.30.0	22.30.0
I	Sequens	11.30.0	22.30.0
K	Orientalis	11.30.0	22.30.0
L	In pectore	11.30.0	22.30.0
M	In ventre	11.30.0	22.30.0
N	Sequens	11.30.0	22.30.0
GRUS			Mag. Long. Latit.
A	In medio colli	11.30.0	22.30.0
B	In educatione colli conig. bor.	11.30.0	22.30.0
C	Australis	11.30.0	22.30.0
D	In dorso duarum borealis in pectore	11.30.0	22.30.0
E	Australis	11.30.0	22.30.0
F	In finibus alæ borealis Hævelii in dextera	11.30.0	22.30.0
G	Australis	11.30.0	22.30.0
H	In alæ dextera Hævelii sinistra	11.30.0	22.30.0
I	In educatione caudæ Hævelii in reure	11.30.0	22.30.0
K	In cauda trium borea	11.30.0	22.30.0
L	Præcedens	11.30.0	22.30.0
N	Sequens	11.30.0	22.30.0
MUSCA APIS			Mag. Long. Latit.
A	In capite	11.30.0	22.30.0
B	In alæ dextera	11.30.0	22.30.0
C	In alæ sinistra	11.30.0	22.30.0
D	In cauda	11.30.0	22.30.0
CHAMELEON			Mag. Long. Latit.
A	Ad collum	11.30.0	22.30.0
B	In prioribus pedibus	11.30.0	22.30.0
C	In posterioribus pedibus	11.30.0	22.30.0
D	In dorso	11.30.0	22.30.0
E	In educatione caudæ præcedens	11.30.0	22.30.0
F	Sequens	11.30.0	22.30.0
G	In media caudæ præcedens	11.30.0	22.30.0
H	Sequens	11.30.0	22.30.0
I	In extremis caudæ borealis	11.30.0	22.30.0
K	Australis	11.30.0	22.30.0
APUS AVIS INDICA			Mag. Long. Latit.
A	In capite	11.30.0	22.30.0
B	In collo	11.30.0	22.30.0
C	Trium in educatione caudæ bor.	11.30.0	22.30.0
D	Media	11.30.0	22.30.0
E	Australis	11.30.0	22.30.0
F	In boreæ parte caudæ conig. præc.	11.30.0	22.30.0
G	Sequens	11.30.0	22.30.0
H	In media caudæ trium borealis	11.30.0	22.30.0
I	Media	11.30.0	22.30.0
K	Australis	11.30.0	22.30.0
L	Polo vicinior	11.30.0	22.30.0
HYDRUS			Mag. Long. Latit.
A	Caput Hydri	11.30.0	22.30.0
B	Prima colli	11.30.0	22.30.0
C	Secunda	11.30.0	22.30.0
D	Tertia	11.30.0	22.30.0
E	Quarta	11.30.0	22.30.0
F	Inter utramque nubem duarum seq.	11.30.0	22.30.0
G	Præcedens	11.30.0	22.30.0
H	Quæ adiacet nubem minor	11.30.0	22.30.0
I	Duarum collum hydri seq. borea	11.30.0	22.30.0
K	Præcedens et australis	11.30.0	22.30.0
L	Antepenultima caudæ	11.30.0	22.30.0
M	Penultima caudæ	11.30.0	22.30.0
N	Ultima caudæ	11.30.0	22.30.0
TOUCAN ANSER AMER.			Mag. Long. Latit.
A	In extremo rostro	11.30.0	22.30.0
B	In capite	11.30.0	22.30.0
C	In antice alæ dextera super.	11.30.0	22.30.0
D	Inferior	11.30.0	22.30.0
E	In media alæ	11.30.0	22.30.0
F	Hanc præcedens	11.30.0	22.30.0
G	In dorso, vel pedis in alæ dextera	11.30.0	22.30.0
H	In caudæ vel pedis ad ung.	11.30.0	22.30.0
I	In rami folio, nucis myrsinica	11.30.0	22.30.0



PHOENIX.		Mag. Long.	Latit.
A	In antice alæ sinistra	11.30.0	22.30.0
B	In alâ sinistra trium australis	11.30.0	22.30.0
C	In extrema alâ dextera	11.30.0	22.30.0
D	In dorso, vel pedis in alâ dextera	11.30.0	22.30.0
E	In dorso, vel pedis in alâ dextera	11.30.0	22.30.0
F	In dorso, vel pedis in alâ dextera	11.30.0	22.30.0
G	In dorso, vel pedis in alâ dextera	11.30.0	22.30.0
H	In dorso, vel pedis in alâ dextera	11.30.0	22.30.0
I	In dorso, vel pedis in alâ dextera	11.30.0	22.30.0
K	In dorso, vel pedis in alâ dextera	11.30.0	22.30.0
L	In dorso, vel pedis in alâ dextera	11.30.0	22.30.0
M	In dorso, vel pedis in alâ dextera	11.30.0	22.30.0
ROBUR CAROLI.			
A	Quæ ad radium	11.30.0	22.30.0
B	In finibus trium	11.30.0	22.30.0
C	In rami præced. de quatuor bor.	11.30.0	22.30.0
D	Sequens	11.30.0	22.30.0
E	Media	11.30.0	22.30.0
F	In rami seq. duarum borea	11.30.0	22.30.0
G	Australis	11.30.0	22.30.0
H	In finibus duarum austrum	11.30.0	22.30.0
I	In finibus duarum austrum	11.30.0	22.30.0
K	Sequens	11.30.0	22.30.0
L	In finibus duarum austrum præced.	11.30.0	22.30.0
M	Sequens	11.30.0	22.30.0
PISCIS VOLANS.			
A	In capite	11.30.0	22.30.0
B	In medio corpore	11.30.0	22.30.0
C	In cauda	11.30.0	22.30.0
D	In alâ dextera superior	11.30.0	22.30.0
E	Inferior	11.30.0	22.30.0
F	In alâ sinistra superior	11.30.0	22.30.0
G	Inferior	11.30.0	22.30.0
H	In finibus inter Chamelon et piscem vol.	11.30.0	22.30.0
DORADO XIPHIAS.			
A	In capite	11.30.0	22.30.0
B	In finibus trium	11.30.0	22.30.0
C	Circa caput	11.30.0	22.30.0
D	Quæ supra finem	11.30.0	22.30.0
E	Quæ in cauda	11.30.0	22.30.0
F	In extrema cauda	11.30.0	22.30.0
ERIDANUS.			
A	Omnes quatuor præced. duarum seq.	11.30.0	22.30.0
B	Præcedens	11.30.0	22.30.0
C	Ultima flammæ	11.30.0	22.30.0
D	Hanc præcedens	11.30.0	22.30.0
E	Trium in rami defendentium bor.	11.30.0	22.30.0
F	Præcedens	11.30.0	22.30.0
G	Præcedens	11.30.0	22.30.0
H	Præcedens	11.30.0	22.30.0
I	Præcedens	11.30.0	22.30.0
K	Præcedens	11.30.0	22.30.0
L	Præcedens	11.30.0	22.30.0
M	Præcedens	11.30.0	22.30.0
N	Præcedens	11.30.0	22.30.0
O	Præcedens	11.30.0	22.30.0
P	Præcedens	11.30.0	22.30.0
Q	Præcedens	11.30.0	22.30.0
R	Præcedens	11.30.0	22.30.0
S	Præcedens	11.30.0	22.30.0
T	Præcedens	11.30.0	22.30.0
U	Præcedens	11.30.0	22.30.0
V	Præcedens	11.30.0	22.30.0
W	Præcedens	11.30.0	22.30.0
X	Præcedens	11.30.0	22.30.0
Y	Præcedens	11.30.0	22.30.0
Z	Præcedens	11.30.0	22.30.0
ARGO NAVIS.			
A	In finibus malis borealis sequens	11.30.0	22.30.0
B	Hævelii in malo inferiorum sequens	11.30.0	22.30.0
C	Præcedens Hævelii in malo inferiorum	11.30.0	22.30.0
D	Australis sequens Hævelii in malo inferiorum	11.30.0	22.30.0
E	In rami superiorum media	11.30.0	22.30.0
F	Præcedens Hævelii in rami superiorum	11.30.0	22.30.0
G	Præcedens Hævelii in rami superiorum	11.30.0	22.30.0
H	Præcedens Hævelii in rami superiorum	11.30.0	22.30.0
I	Præcedens Hævelii in rami superiorum	11.30.0	22.30.0
K	Præcedens Hævelii in rami superiorum	11.30.0	22.30.0
L	Præcedens Hævelii in rami superiorum	11.30.0	22.30.0
M	Præcedens Hævelii in rami superiorum	11.30.0	22.30.0
N	Præcedens Hævelii in rami superiorum	11.30.0	22.30.0
O	Præcedens Hævelii in rami superiorum	11.30.0	22.30.0
P	Præcedens Hævelii in rami superiorum	11.30.0	22.30.0
Q	Præcedens Hævelii in rami superiorum	11.30.0	22.30.0
R	Præcedens Hævelii in rami superiorum	11.30.0	22.30.0
S	Præcedens Hævelii in rami superiorum	11.30.0	22.30.0
T	Præcedens Hævelii in rami superiorum	11.30.0	22.30.0
U	Præcedens Hævelii in rami superiorum	11.30.0	22.30.0
V	Præcedens Hævelii in rami superiorum	11.30.0	22.30.0
W	Præcedens Hævelii in rami superiorum	11.30.0	22.30.0
X	Præcedens Hævelii in rami superiorum	11.30.0	22.30.0
Y	Præcedens Hævelii in rami superiorum	11.30.0	22.30.0
Z	Præcedens Hævelii in rami superiorum	11.30.0	22.30.0

Tabula pro definiendis Longitudinibus Stellarum fixarum per singulos annos ab anno 1700 ad annum 1760.				
Subst.	Differencia	Ad Diff.		
1700	25. 26. 0	1760	32. 43. 0	1745
1701	25. 26. 5	1761	32. 43. 5	1746
1702	25. 27. 0	1762	32. 44. 0	1747
1703	25. 27. 5	1763	32. 44. 5	1748
1704	25. 28. 0	1764	32. 45. 0	1749
1705	25. 28. 5	1765	32. 45. 5	1750
1706	25. 29. 0	1766	32. 46. 0	1751
1707	25. 29. 5	1767	32. 46. 5	1752
1708	25. 30. 0	1768	32. 47. 0	1753
1709	25. 30. 5	1769	32. 47. 5	1754
1710	25. 31. 0	1770	32. 48. 0	1755
1711	25. 31. 5	1771	32. 48. 5	1756
1712	25. 32. 0	1772	32. 49. 0	1757
1713	25. 32. 5	1773	32. 49. 5	1758
1714	25. 33. 0	1774	32. 50. 0	1759
1715	25. 33. 5	1775	32. 50. 5	1760
1716	25. 34. 0	1776	32. 51. 0	1761
1717	25. 34. 5	1777	32. 51. 5	1762
1718	25. 35. 0	1778	32. 52. 0	1763
1719	25. 35. 5	1779	32. 52. 5	1764
1720	25. 36. 0	1780	32. 53. 0	1765
1721	25. 36. 5	1781	32. 53. 5	1766
1722	25. 37. 0	1782	32. 54. 0	1767
1723	25. 37. 5	1783	32. 54. 5	1768
1724	25. 38. 0	1784	32. 55. 0	1769
1725	25. 38. 5	1785	32. 55. 5	1770
1726	25. 39. 0	1786	32. 56. 0	1771
1727	25. 39. 5	1787	32. 56. 5	1772
1728	25. 40. 0	1788	32. 57. 0	1773
1729	25. 40. 5	1789	32. 57. 5	1774
1730	25. 41. 0	1790	32. 58. 0	1775
1731	25. 41. 5	1791	32. 58. 5	1776
1732	25. 42. 0	1792	32. 59. 0	1777
1733	25. 42. 5	1793	32. 59. 5	1778
1734	25. 43. 0	1794	33. 00. 0	1779
1735	25. 43. 5	1795	33. 00. 5	1780
1736	25. 44. 0	1796	33. 01. 0	1781
1737	25. 44. 5	1797	33. 01. 5	1782
1738	25. 45. 0	1798	33. 02. 0	1783
1739	25. 45. 5	1799	33. 02. 5	1784
1740	25. 46. 0	1800	33. 03. 0	1785
1741	25. 46. 5	1801	33. 03. 5	1786
1742	25. 47. 0	1802	33. 04. 0	1787
1743	25. 47. 5	1803	33. 04. 5	1788
1744	25. 48. 0	1804	33. 05. 0	1789
1745	25. 48. 5	1805	33. 05. 5	1790
1746	25. 49. 0	1806	33. 06. 0	1791
1747	25. 49. 5	1807	33. 06. 5	1792
1748	25. 50. 0	1808	33. 07. 0	1793
1749	25. 50. 5	1809	33. 07. 5	1794
1750	25. 51. 0	1810	33. 08. 0	1795
1751	25. 51. 5	1811	33. 08. 5	1796
1752	25. 52. 0	1812	33. 09. 0	1797
1753	25. 52. 5	1813	33. 09. 5	1798
1754	25. 53. 0	1814	33. 10. 0	1799
1755	25. 53. 5	1815	33. 10. 5	1800
1756	25. 54. 0	1816	33. 11. 0	1801
1757	25. 54. 5	1817	33. 11. 5	1802
1758	25. 55. 0	1818	33. 12. 0	1803
1759	25. 55. 5	1819	33. 12. 5	1804
1760	25. 56. 0	1820	33. 13. 0	1805
1761	25. 56. 5	1821	33. 13. 5	1806
1762	25. 57. 0	1822	33. 14. 0	1807
1763	25. 57. 5	1823	33. 14. 5	1808
1764	25. 58. 0	1824	33. 15. 0	1809
1765	25. 58. 5	1825	33. 15. 5	1810
1766	25. 59. 0	1826	33. 16. 0	1811
1767	25. 59. 5	1827	33. 16. 5	1812
1768	26. 00. 0	1828	33. 17. 0	1813
1769	26. 00. 5	1829	33. 17. 5	1814
1770	26. 01. 0	1830	33. 18. 0	1815
1771	26. 01. 5	1831	33. 18. 5	1816
1772	26. 02. 0	1832	33. 19. 0	1817
1773	26. 02. 5	1833	33. 19. 5	1818
1774	26. 03. 0	1834	33. 20. 0	1819
1775	26. 03. 5	1835	33. 20. 5	1820
1776	26. 04. 0	1836	33. 21. 0	1821
1777	26. 04. 5	1837	33. 21. 5	1822
1778	26. 05. 0	1838	33. 22. 0	1823
1779	26. 05. 5	1839	33. 22. 5	1824
1780	26. 06. 0	1840	33. 23. 0	1825
1781	26. 06. 5	1841	33. 23. 5	1826
1782	26. 07. 0	1842	33. 24. 0	1827
1783	26. 07. 5	1843	33. 24. 5	1828
1784	26. 08. 0	1844	33. 25. 0	1829
1785	26. 08. 5	1845	33. 25. 5	1830
1786	26. 09. 0	1846	33. 26. 0	1831
1787	26. 09. 5	1847	33. 26. 5	1832
1788	26. 10. 0	1848	33. 27. 0	1833
1789	26. 10. 5	1849	33. 27. 5	1834
1790	26. 11. 0	1850	33. 28. 0	1835
1791	26. 11. 5	1851	33. 28. 5	1836
1792	26. 12. 0	1852	33. 29. 0	1837
1793	26. 12. 5	1853	33. 29. 5	1838
1794	26. 13. 0	1854	33. 30. 0	1839
1795	26. 13. 5	1855	33. 30. 5	1840
1796	26. 14. 0	1856	33. 31. 0	1841
1797	26. 14. 5	1857	33. 31. 5	1842
1798	26. 15. 0	1858	33. 32. 0	1843
1799	26. 15. 5	1859	33. 32. 5	1844
1800	26. 16. 0	1860	33. 33. 0	1845
1801	26. 16. 5	1861	33. 33. 5	1846
1802	26. 17. 0	1862	33. 34. 0	1847
1803	26. 17. 5	1863	33. 34. 5	1848
1804	26. 18. 0	1864	33. 35. 0	1849
1805	26. 18. 5	1865	33. 35. 5	1850
1806	26. 19. 0	1866	33. 36. 0	1851
1807	26. 19. 5	1867	33. 36. 5	1852
1808	26. 20. 0	1868	33. 37. 0	1853
1809	26. 20. 5	1869	33. 37. 5	1854
1810	26. 21. 0	1870	33. 38. 0	1855
1811	26. 21. 5	1871	33. 38. 5	1856
1812	26. 22. 0	1872	33. 39. 0	1857
1813	26. 22. 5	1873	33. 39. 5	1858
1814	26. 23. 0	1874	33. 40. 0	1859
1815	26. 23. 5	1875	33. 40. 5	1860
1816	26. 24. 0	1876	33. 41. 0	1861
1817	26. 24. 5	1877	33. 41. 5	1862
1818	26. 25. 0	1878	33. 42. 0	1863
1819	26. 25. 5	1879	33. 42. 5	1864
1820	26. 26. 0	1880	33. 43. 0	1865
1821	26. 26. 5	1881	33. 43. 5	1866
1822	26. 27. 0	1882	33. 44. 0	1867
1823	26. 27. 5	1883	33. 44. 5	1868
1824	26. 28. 0	1884	33. 45. 0	1869
1825	26. 28. 5	1885	33. 45. 5	1870
1826	26. 29. 0	1886	33. 46. 0	1871
1827	26. 29. 5	1887	33. 46. 5	1872
1828	26. 30. 0	1888	33. 47. 0	1873
1829	26. 30. 5	1889	33. 47. 5	1874
1830	26. 31. 0	1890	33. 48. 0	1875
1831	26. 31. 5	1891	33. 48. 5	1876
1832	26. 32. 0	1892	33. 49. 0	1877
1833	26. 32. 5	1893	33. 49. 5	1878
1834	26. 33. 0	1894	33. 50. 0	1879
1835	26. 33. 5	1895	33. 50. 5	1880
1836	26. 34. 0	1896	33. 51. 0	1881
1837	26. 34. 5	1897	33. 51. 5	1882
1838	26. 35. 0	1898	33.	

THEORIA COMETARVM

26

in qua præcipua eorum Phenomena ex recentiorum Astronomorum Observationibus secundum ill. Newtoni et cel. Whistonii Hypothesin geometricè deducta cum aliis exhibentur à IOH. GABR. DOFFELMAIERO, Acad. Cæs. Leopoldino Carol. Nat. Cur. Regiarum Societatum Britanice et Boruss. Sodali, et Math. Prof. Publ. Sumptibus Heredum Homannianorum Noribergæ.

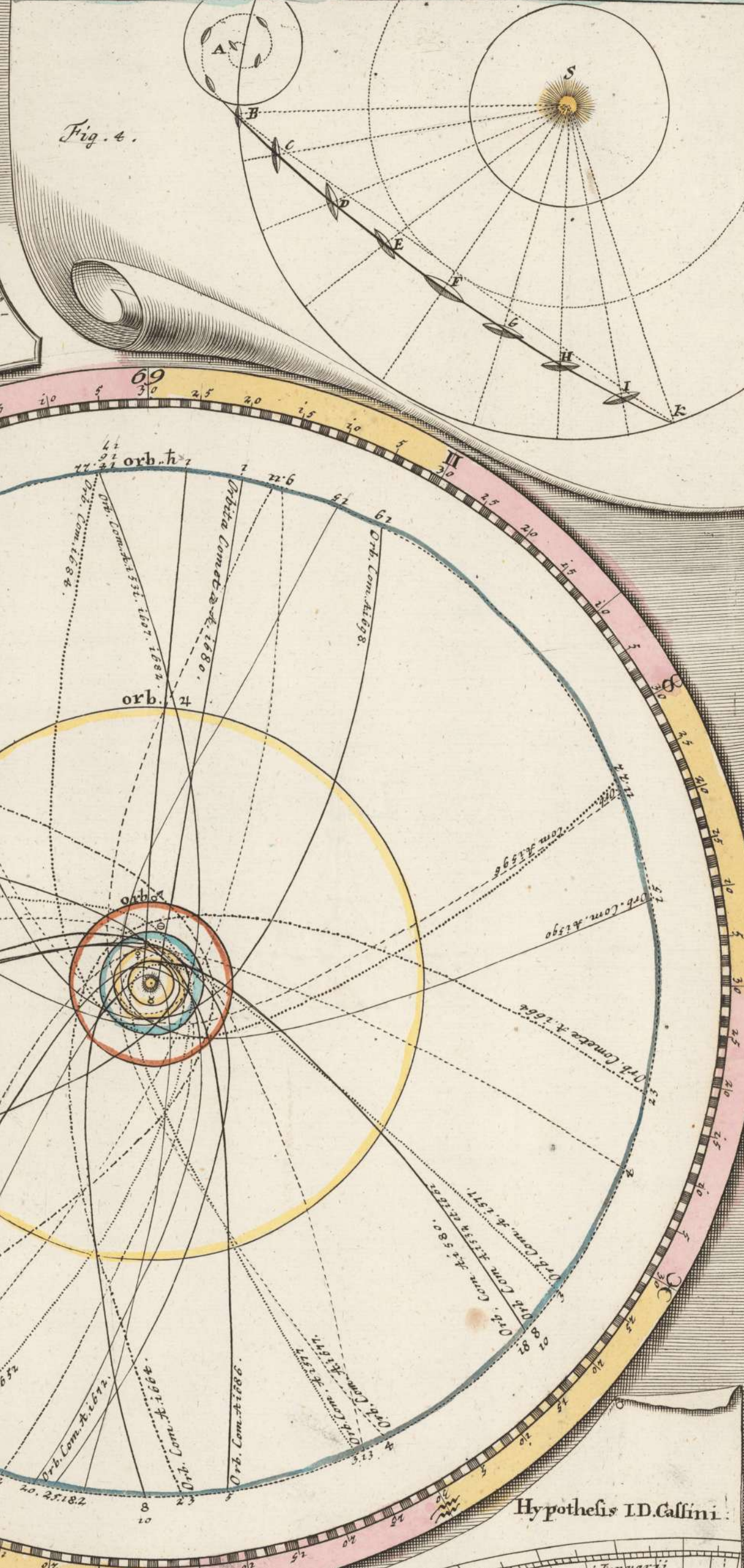
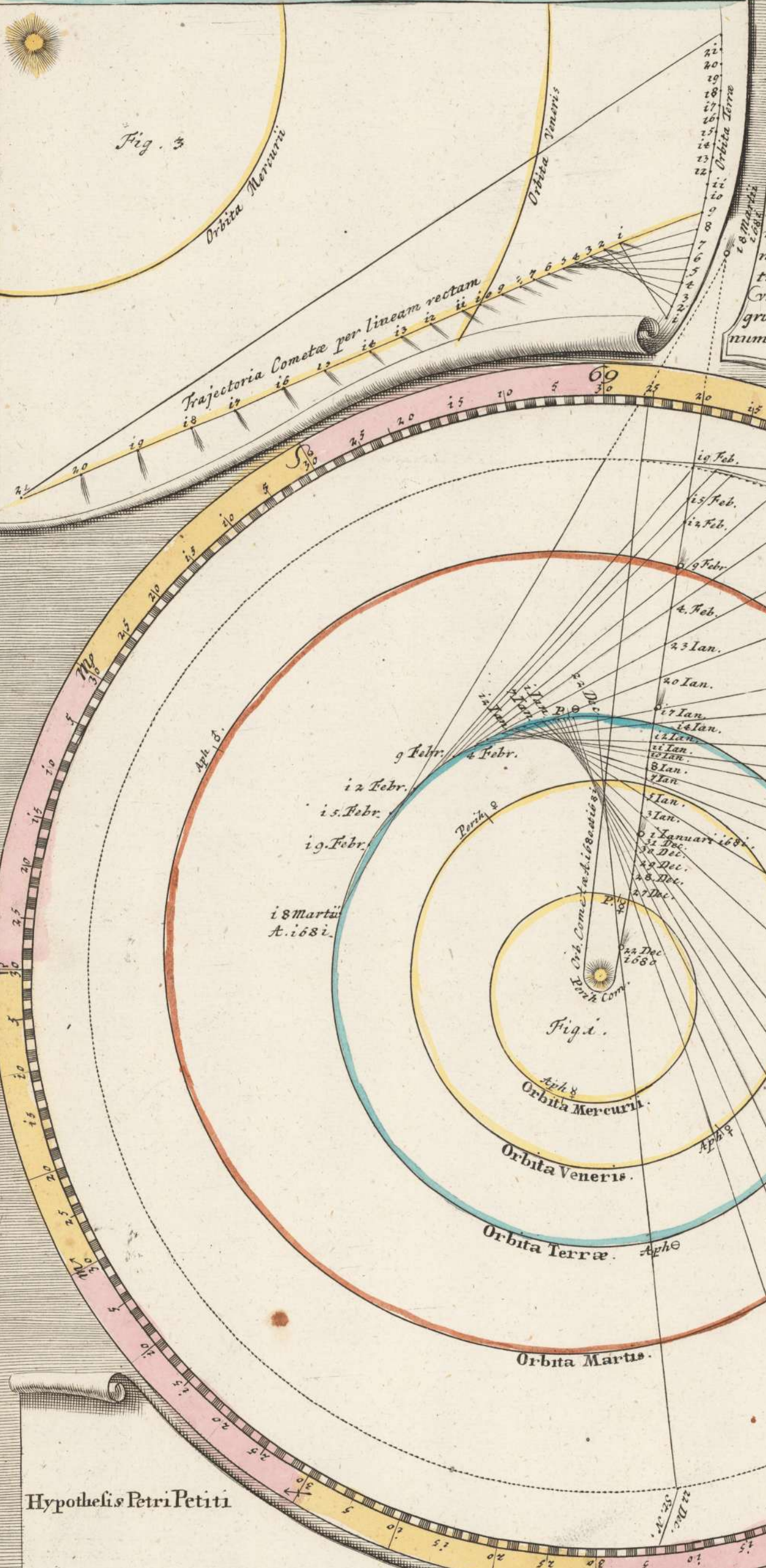
Hypothesis Kepleriana

De Cometis in genere.

Hypothesis Heveliana

Cometa præstantissimarum Observationum testimonio, in orbitis moventur ellipticis, oblongis, vel quodammodo parabolicis, valde eccentricis, in quarum foco est sol, et describunt areas, cum lineæ ad centrum illius ducuntur, in partibus temporibus proportionales. In huius demonstratione exhibentur in Fig. 1. orbita cometa, quæ circa finem a. n. 1680. et ad sequentis a. n. 1681. initium apparuit, methodo geometrica, ex observationibus definita, in 22. figuris, aliâ quam plurimâ cometarum per aliquot secula spectatorum orbitæ ex celeb. Whistonii designatione editæ. Hanc hypothesin præcipue excoluit ill. Newtonus, dein vero cel. Halley præcepta dedit, quomodo loca cometarum in parabolica orbita per calculum elici possint. Hisce suppositis, facile perspicimus, quod cometa per breve tantum tempus appareant, et ulterius in remotas orbitarum partes delati, per longissimum temporis spatium lateant, quod magnitudo capitis et caudæ, quæ plerumque, eadem semper à sole aversa, cometa instructi, variationem perperuo sit obnoxia; porro quæ caudæ, respectu nostri, sensim desicere videatur magnitudine, et tandem evanescat. Cuiusmodi, fig. 9. 10. Sed hic etiam leges Opticæ in subsidium vocandæ erunt, si variationem prædictorum congrue monstrare velimus. Quod denique ad numerum horum corporum cometicorum attinet, Keplerus magnum illorum numerum statuit, sed Halleyus omnes, qui per varias temporum periodos circumvoluti, reduces se iterum, tanquam corpora perennia spectandos, præbent, ad 24. reducit; ex quibus in genere patet, cometas cum planetis multam inter se affinitatem habere.

Fig. 4.

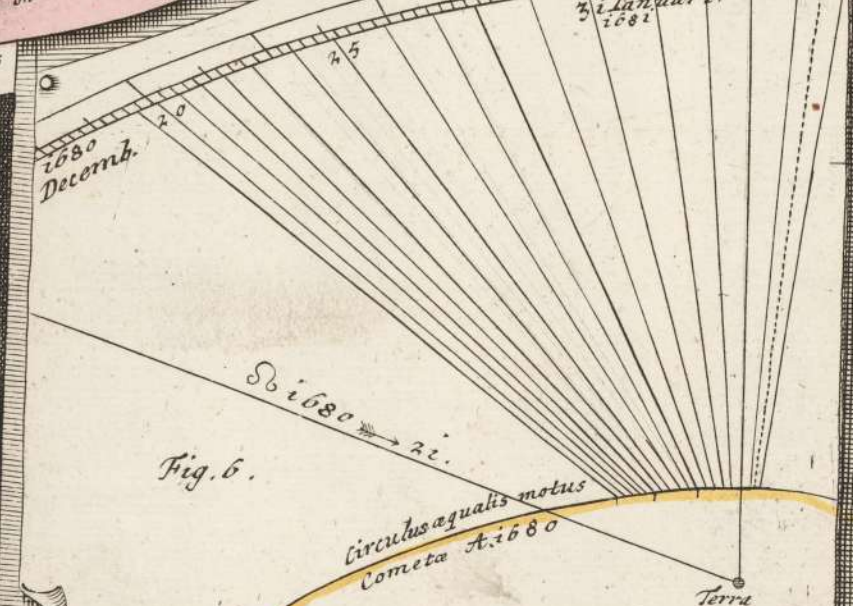
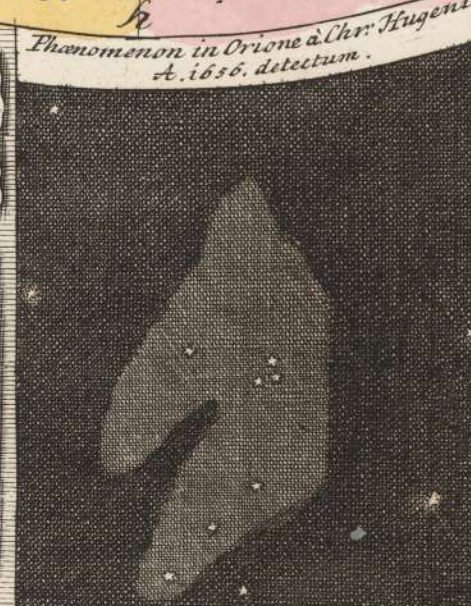
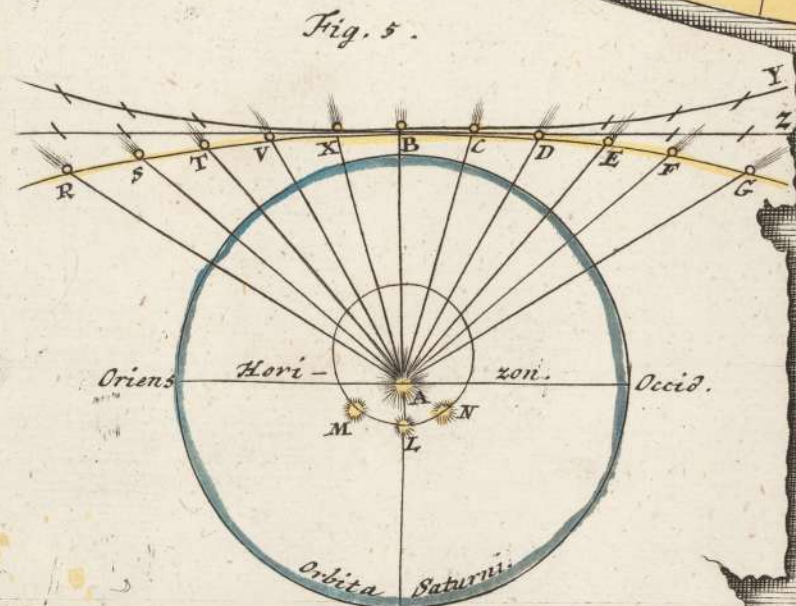


De hypothesis Ioh. Kepleri, Ioh. Hevelii, P. Petiti, et I. D. Cassini.

Doctissimus Keplerus cum Galileo, Cysato &c. Cometarum motus in lineis rectis, Cuiusmodi, fig. 3. quæ tangunt circulos per aequales partibus nobis à terra inaequales spatio statuit, sed cel. Hevelius plurimum observationum apparatu instructus postea illas trajectories magis parabolicas, quam rectas esse asseruit, in quibus cometa, cum eosdem ex concursu planetariorum effluviis intra atmosphaeram oriri et in molem insensum concrevere existimet, per lineas spirales Cuiusmodi, fig. 4. ad A. sensim elati in altum, porro à vorticibus abrepti ferantur, ut lapis à fune, per lineas B. K. et quidem circa verticem Parabolæ F. motu velocissimo, indistantibus vero à F. remotioribus, exempligr. ad K. et B. motu tardiore et tardissimo. Hanc hypothesin plures amplexi et præcipue in Gallia P. Petiti, sed tandem illam non omni ratione Phenomenis cometicis ex voto respondere deprehendit, hinc cometas mundo coævos esse potius affirmavit, qui in circulis intra Saturnum et stellas fixas siti, Cuiusmodi, fig. 5. vel Systema nostrum planetarum ambientibus, prout portis circumferentia R. P. G. indicat, vel quadam circumferentia parte ad orbitam Saturni ut in Y. accedentibus, moventur, ita ut à B. in Perigæo constituti, videantur maximi et celerissimi, antea vero à post illud tempus in X. Y. T. et C. D. E. minores et tardiores, hinc in motu quoque inaequales, et spatio T. V. X. C. D. E. sunt æqualia; tandem vero cometa in vastissimis circulis per remotiores partes delati, ut oculis nostris surripiantur, post multorum annorum inter valla, ratione habita ad magnitudines orbitarum, quæ vel breviora, vel longiora, iterum apparebunt. Ioh. de Cassini novam methodum exhibuit, quæ scilicet, ratione supposito motus mediæ cometici circulo circa Terram Cuiusmodi, fig. 6. valde eccentrico ex illa et tempora et loca cometarum sunt definienda; de quibus alibi plura.

Hypothesis Petri Petiti

Hypothesis I. D. Cassini

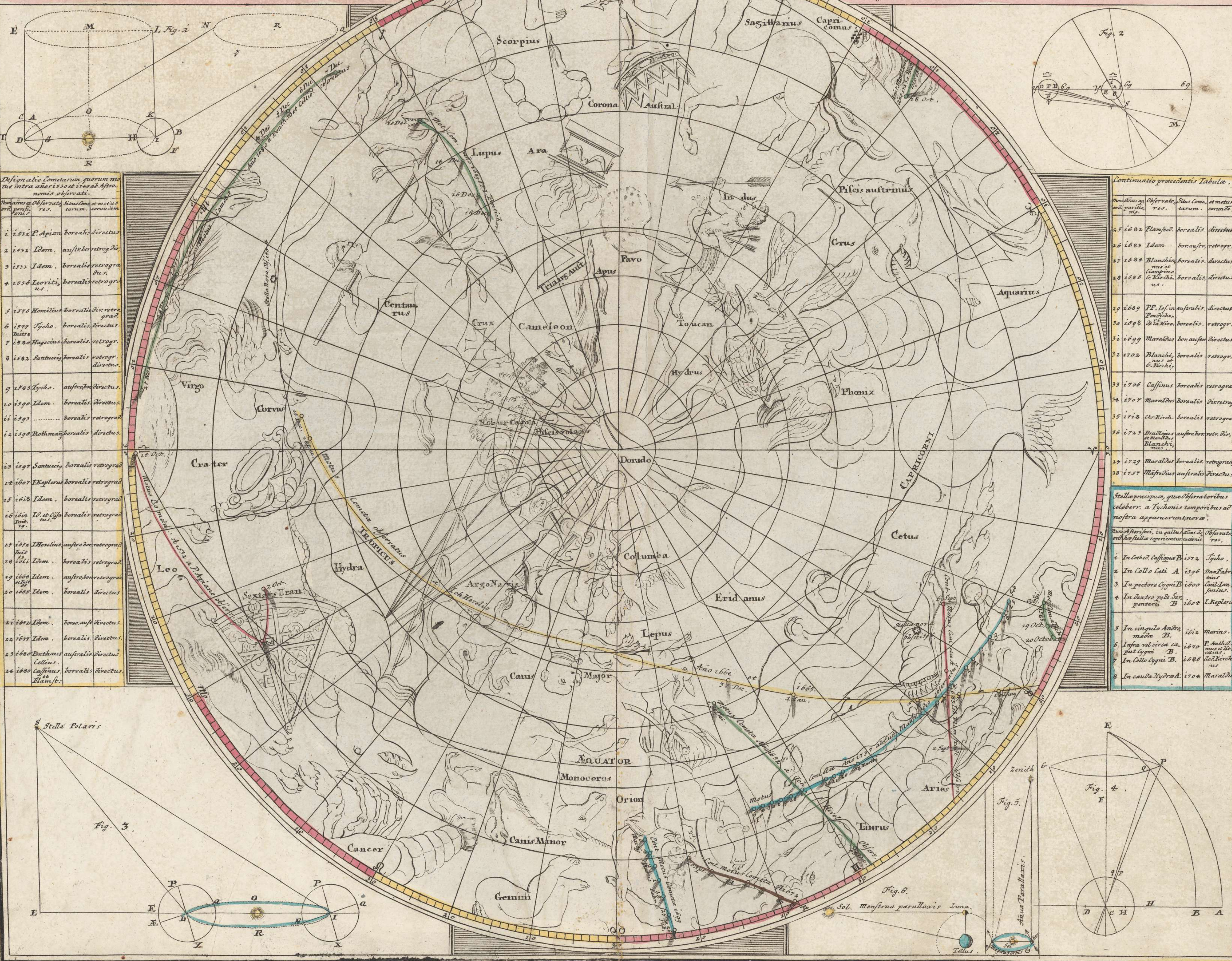


MOTVS COMETARVM IN HE

MISPHERIO AVSTRALI²⁸

qui intra an. 1530 et 1740 cum duabus stellis novis, nostra tempore
a IOH. GABR. DOPPELMAYERO, Acad. Imp. Leopoldino-Caroline Nat. Curios. et
Summus Heridum Romanorum

visis, a celeberrimis Astronomis observati, geometricè nunc descripti
Societatum Regiarum Britannicæ et Borussicæ, Sodali, nec non Mathem. Prof. Publ.
Noribergæ, cum Pr. S. C. M.



Designatio Cometarum, quorum motus intra an. 1530 et 1740 a nobis Astronomis observati.

Num. Astronomi	Observatio	Situs Comæ	Motus
1	1532 P. Apian	borealis directus	
2	1532 Idem	austro borealis retrogr.	
3	1533 Idem	borealis retrogr.	
4	1536 Leoviti	borealis retrogr.	
5	1576 Homilius	borealis directus	
6	1577 Tycho	borealis directus	
7	1580 Hagenius	borealis retrogr.	
8	1582 Santucci	borealis retrogr.	
9	1585 Tycho	austro borealis directus	
10	1590 Idem	borealis directus	
11	1593 Idem	borealis retrogr.	
12	1596 Rothmann	borealis directus	
13	1597 Santucci	borealis retrogr.	
14	1607 Keplerus	borealis retrogr.	
15	1618 Idem	borealis retrogr.	
16	1620 Idem	borealis retrogr.	
17	1622 Idem	borealis retrogr.	
18	1623 Idem	borealis retrogr.	
19	1624 Idem	borealis retrogr.	
20	1625 Idem	borealis directus	
21	1626 Idem	borealis directus	
22	1627 Idem	borealis directus	
23	1628 Idem	borealis directus	
24	1629 Idem	borealis directus	
25	1630 Idem	borealis directus	
26	1631 Idem	borealis directus	
27	1632 Idem	borealis directus	
28	1633 Idem	borealis directus	
29	1634 Idem	borealis directus	
30	1635 Idem	borealis directus	
31	1636 Idem	borealis directus	
32	1637 Idem	borealis directus	
33	1638 Idem	borealis directus	
34	1639 Idem	borealis directus	
35	1640 Idem	borealis directus	
36	1641 Idem	borealis directus	
37	1642 Idem	borealis directus	
38	1643 Idem	borealis directus	
39	1644 Idem	borealis directus	
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42	1647 Idem	borealis directus	
43	1648 Idem	borealis directus	
44	1649 Idem	borealis directus	
45	1650 Idem	borealis directus	
46	1651 Idem	borealis directus	
47	1652 Idem	borealis directus	
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50	1655 Idem	borealis directus	
51	1656 Idem	borealis directus	
52	1657 Idem	borealis directus	
53	1658 Idem	borealis directus	
54	1659 Idem	borealis directus	
55	1660 Idem	borealis directus	
56	1661 Idem	borealis directus	
57	1662 Idem	borealis directus	
58	1663 Idem	borealis directus	
59	1664 Idem	borealis directus	
60	1665 Idem	borealis directus	
61	1666 Idem	borealis directus	
62	1667 Idem	borealis directus	
63	1668 Idem	borealis directus	
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77	1682 Idem	borealis directus	
78	1683 Idem	borealis directus	
79	1684 Idem	borealis directus	
80	1685 Idem	borealis directus	
81	1686 Idem	borealis directus	
82	1687 Idem	borealis directus	
83	1688 Idem	borealis directus	
84	1689 Idem	borealis directus	
85	1690 Idem	borealis directus	
86	1691 Idem	borealis directus	
87	1692 Idem	borealis directus	
88	1693 Idem	borealis directus	
89	1694 Idem	borealis directus	
90	1695 Idem	borealis directus	
91	1696 Idem	borealis directus	
92	1697 Idem	borealis directus	
93	1698 Idem	borealis directus	
94	1699 Idem	borealis directus	
95	1700 Idem	borealis directus	
96	1701 Idem	borealis directus	
97	1702 Idem	borealis directus	
98	1703 Idem	borealis directus	
99	1704 Idem	borealis directus	
100	1705 Idem	borealis directus	

Continuatio precedentis Tabule.

Num. Astronomi	Observatio	Situs Comæ	Motus
101	1706 Idem	borealis directus	
102	1707 Idem	borealis directus	
103	1708 Idem	borealis directus	
104	1709 Idem	borealis directus	
105	1710 Idem	borealis directus	
106	1711 Idem	borealis directus	
107	1712 Idem	borealis directus	
108	1713 Idem	borealis directus	
109	1714 Idem	borealis directus	
110	1715 Idem	borealis directus	
111	1716 Idem	borealis directus	
112	1717 Idem	borealis directus	
113	1718 Idem	borealis directus	
114	1719 Idem	borealis directus	
115	1720 Idem	borealis directus	
116	1721 Idem	borealis directus	
117	1722 Idem	borealis directus	
118	1723 Idem	borealis directus	
119	1724 Idem	borealis directus	
120	1725 Idem	borealis directus	
121	1726 Idem	borealis directus	
122	1727 Idem	borealis directus	
123	1728 Idem	borealis directus	
124	1729 Idem	borealis directus	
125	1730 Idem	borealis directus	
126	1731 Idem	borealis directus	
127	1732 Idem	borealis directus	
128	1733 Idem	borealis directus	
129	1734 Idem	borealis directus	
130	1735 Idem	borealis directus	
131	1736 Idem	borealis directus	
132	1737 Idem	borealis directus	
133	1738 Idem	borealis directus	
134	1739 Idem	borealis directus	
135	1740 Idem	borealis directus	

Stella præcipua, quæ Observationibus

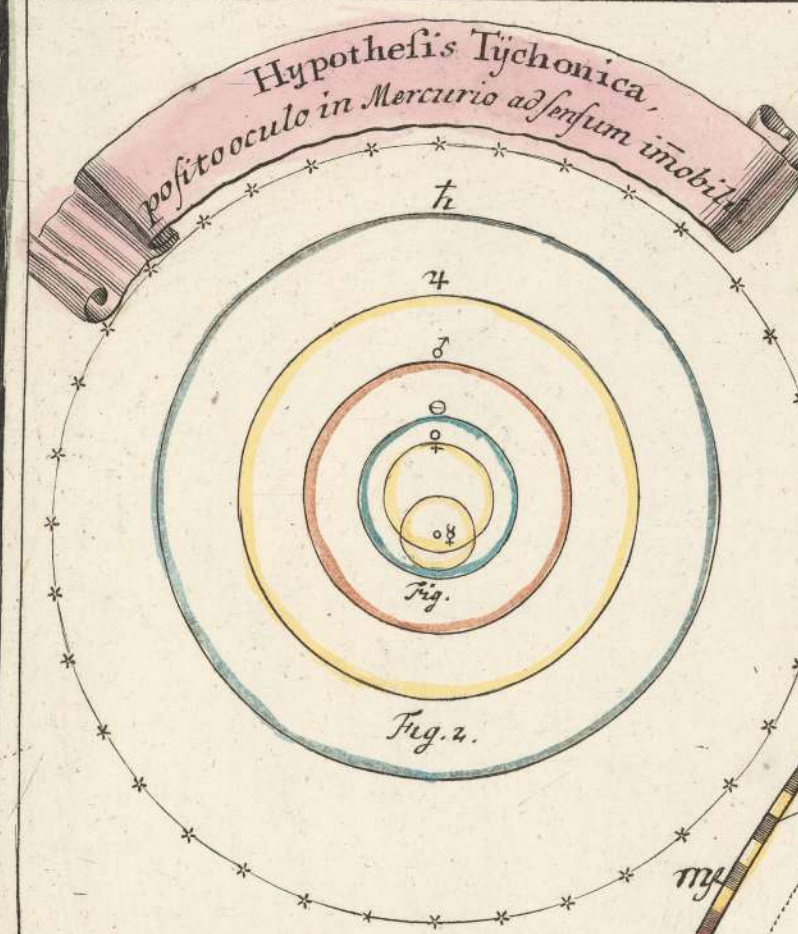
celeberr. a Tycho temporibus ad

nostra apparuerunt, nova.

Num. Astronomi	Observatio	Situs Comæ	Motus
136	1741 Idem	borealis directus	
137	1742 Idem	borealis directus	
138	1743 Idem	borealis directus	
139	1744 Idem	borealis directus	
140	1745 Idem	borealis directus	
141	1746 Idem	borealis directus	
142	1747 Idem	borealis directus	
143	1748 Idem	borealis directus	
144	1749 Idem	borealis directus	
145	1750 Idem	borealis directus	
146	1751 Idem	borealis directus	
147	1752 Idem	borealis directus	
148	1753 Idem	borealis directus	
149	1754 Idem	borealis directus	
150	1755 Idem	borealis directus	
151	1756 Idem	borealis directus	
152	1757 Idem	borealis directus	
153	1758 Idem	borealis directus	
154	1759 Idem	borealis directus	
155	1760 Idem	borealis directus	
156	1761 Idem	borealis directus	
157	1762 Idem	borealis directus	
158	1763 Idem	borealis directus	
159	1764 Idem	borealis directus	
160	1765 Idem	borealis directus	
161	1766 Idem	borealis directus	
162	1767 Idem	borealis directus	
163	1768 Idem	borealis directus	
164	1769 Idem	borealis directus	
165	1770 Idem	borealis directus	
166	1771 Idem	borealis directus	
167	1772 Idem	borealis directus	
168	1773 Idem	borealis directus	
169	1774 Idem	borealis directus	
170	1775 Idem	borealis directus	
171	1776 Idem	borealis directus	
172	1777 Idem	borealis directus	
173	1778 Idem	borealis directus	
174	1779 Idem	borealis directus	
175	1780 Idem	borealis directus	
176	1781 Idem	borealis directus	
177	1782 Idem	borealis directus	
178	1783 Idem	borealis directus	
179	1784 Idem	borealis directus	
180	1785 Idem	borealis directus	
181	1786 Idem	borealis directus	
182	1787 Idem	borealis directus	
183	1788 Idem	borealis directus	
184	1789 Idem	borealis directus	
185	1790 Idem	borealis directus	
186	1791 Idem	borealis directus	
187	1792 Idem	borealis directus	
188	1793 Idem	borealis directus	
189	1794 Idem	borealis directus	
190	1795 Idem	borealis directus	
191	1796 Idem	borealis directus	
192	1797 Idem	borealis directus	
193	1798 Idem	borealis directus	
194	1799 Idem	borealis directus	
195	1800 Idem	borealis directus	

ASTRONOMIA COMPARATIVA

in qua praecepta Planetarum phaenomena ex Observationibus deducta, & Sole, Mercurio, Venere et Luna exhibentur
à IOH. GAB. DOPPEL MAIERO Acad. Imper. Leopoldino-Carolinae Nat. Curios. Regiarumque Societatum Britannicae et Borussiae Sodali, ut et Mathem. Prof. Publ.
Summis Heredum Romanianorum cum P.S. CM.

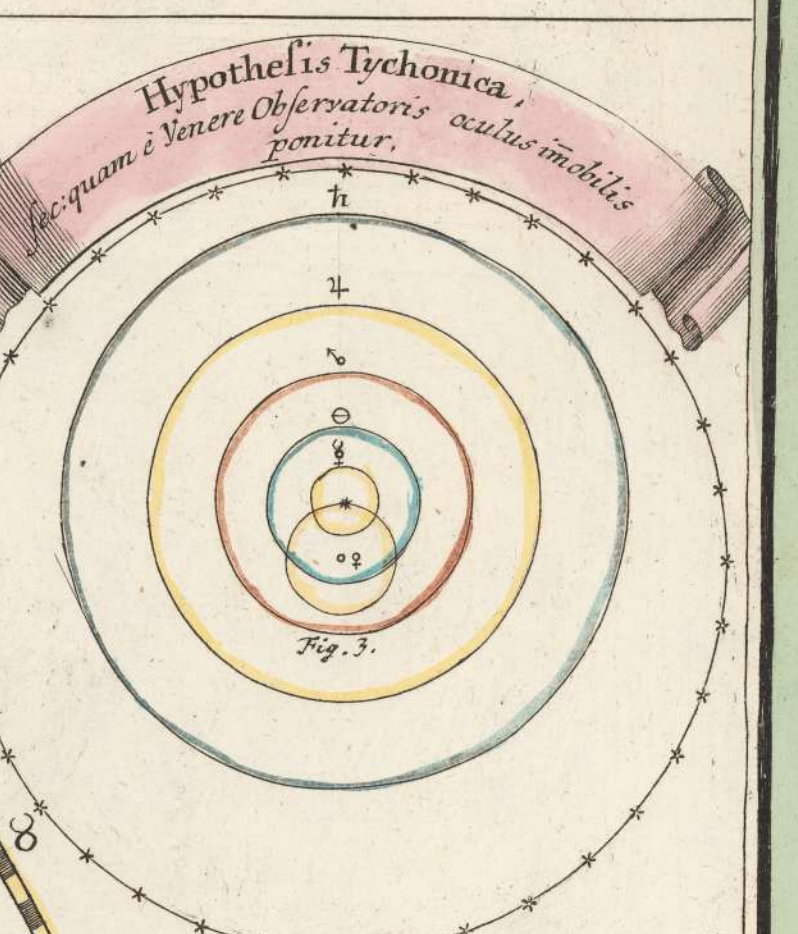


E. Mercurio.		
in pla. neta	Loc. visus	Ang. dist.
Grad. Min.	Grad. Min.	Grad. Min.
♀ 20. 54. 22	4. 22	
☿ 14. 3. 17	6. 52	
♂ 12. 41. 17	5. 4	
♂ 4. 15. 17	6. 12	
♂ 22. 32. 2	6. 26	

Fig. 6.

E. Venere.		
in pla. neta	Loc. visus	Ang. dist.
Grad. Min.	Grad. Min.	Grad. Min.
♀ 20. 54. 22	4. 22	
☿ 14. 3. 17	6. 52	
♂ 12. 41. 17	5. 4	
♂ 4. 15. 17	6. 12	
♂ 22. 32. 2	6. 26	

Fig. 7.

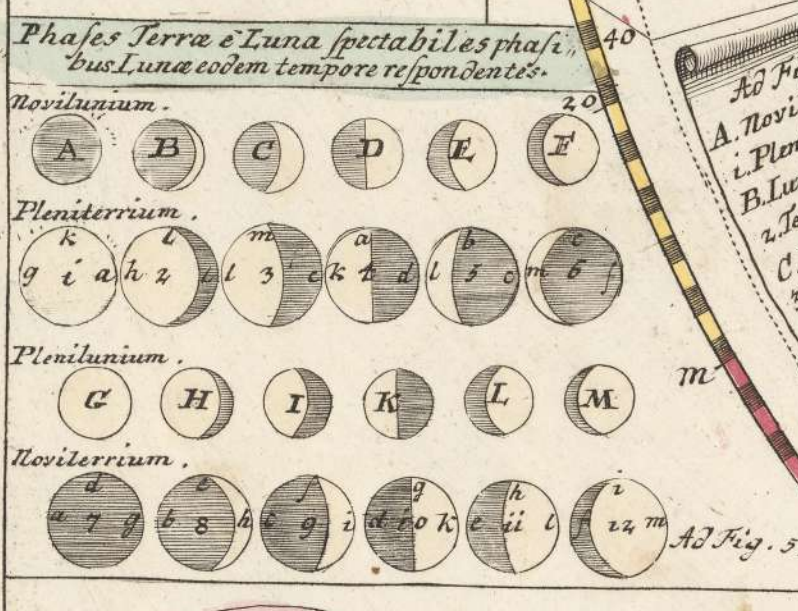


De Astronomia in Sole comparativa.
Spectator in Sole centro constitutus, et ab illius hinc non impeditus, firmam omnium simplicissimam concipit planam hinc coscit in planetis primariis irregularitas motuum optica, physica tantum pro variis illorum distantibus, per quos periodum definiendo, notanda sunt. Fixae in eodem sito, in quo & Terra, apparent cum hac per orbitam circa solem delata ne minimam mutationem in stellis hinc obveniam earum distantiam, motu suo in volvat hinc planetarum horum periodum cum semper sint directi, et ad eandem fixas redeant ex diversis temporis periodis ordo eorum, facile elicitur, et methodo eadem, prout apud nos, indagatur.

De Astronomia in Mercurio comparativa.
Observator in Mercurio positus, et Soli triplo propior quam & Terra, rectus diametrum solarem triplo fore latere conspicit hinc et de eum ut et lucem et calorem illius septuplo majorem Chica terra parva immo et maculas solis rari, mox et magnitudinem tabulorum quam apud nos percipit; De nychemeri spatio quia motus Mercurii centralis et de ani tempestatibus quia inclinatio axis hactenus nos latet, nihil nobis constat; in terris vero certum, annum Mercurii, quoque periodum absolet, tribus mensibus nostris fore aequalem esse, ex hoc planeta, finitudo Soli propior, omnes planetas superiores apprehendet. Spectator, quorum phaenomena cum phaenomenis Martis, Iovis et Saturni, & nostra Terra percipit, conuenienter ex his illi loca Solis et planetarum prout & Terra sit, investigabit. Tabulas tunc conscribet in Astronomia mercurialis incrementum.

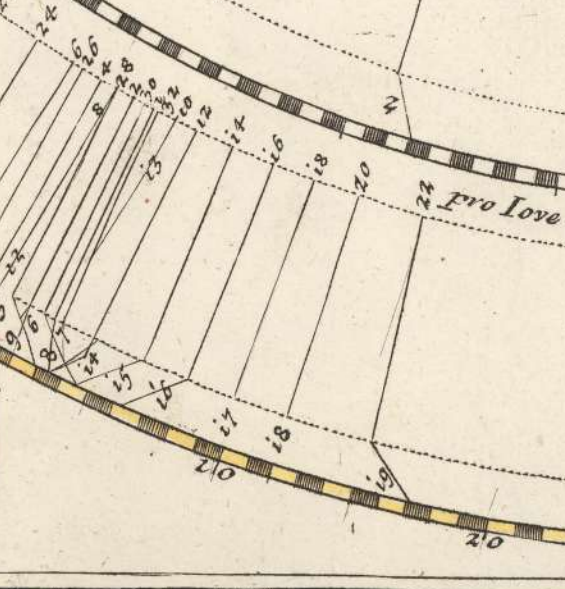
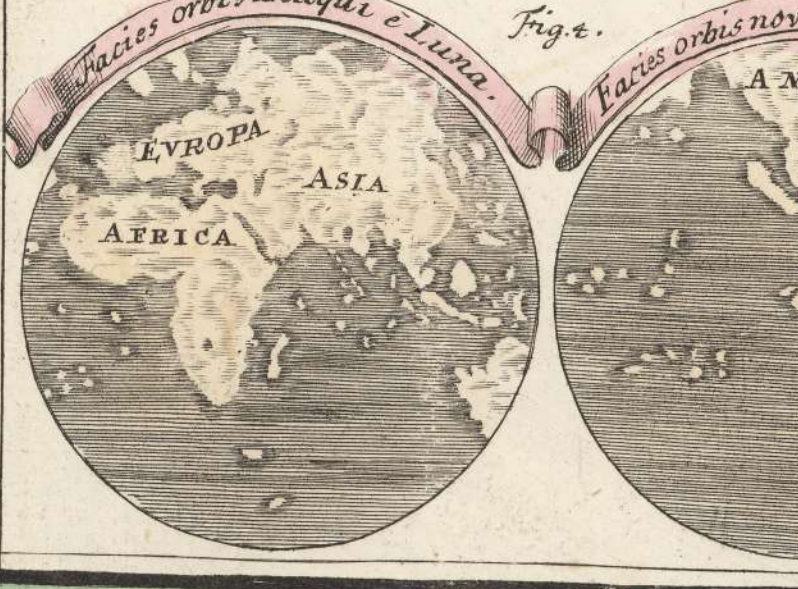
De Astronomia in Venere comparativa.
Observator in Venere Solis diametrum apparentem duplo fore minorem quam in Mercurio, et sesquialtero majorem, quam in Terra, deprehendet ibi locatus, hinc discum Solis lucem et calorem quos majorem plus duplo quam apud nos sentiet, videt quoque planetas superiores quorum phaenomena cum illis Martis, Iovis et Saturni conueniant, unum vero inspicit, Mercurium, nunc, dant unum vero inspicit, Mercurium, nunc, quam longius quatuor gradus evagatur cum ius apparet illi, Solis, Venere & Terra, 60 miles De nychemeri quantitate, cum 223 Casinus et 74 Blanchinus in hac dicere, possunt, multi sunt dubii, interim tamen ex observationibus confirmatum, Venere circa centrum mundi, attingit idem, fore 24 mensibus nostris aequalem motu suo periodico conficere, per quem periodum omnes fixas in eodem sito, ac nos in Terra, per ius De Astronomia in Luna respectu Terrae comparativa.

Spectator circa hemisphaeris mediam Terra peripetuo oppositi constitutus, orbes Terrae videt, cum maxime plene Luna quinquies majore praedictum, quam cum Luna nobis plena est, et in illa maculae quae maria nostra sunt, perquam insignes C. Fig. 4. Immo et phasos lunares similes, non tamen eodem tempore cum his easdem nam cum ex, gr. apud nos novissimum est, Luna pleniorum observabit C. Fig. 5. 2. hinc idem, eclipses eodem tempore continerem autem, complicit cum mora maxima, dum nobis tota Luna cum per magna mora apparet, et C. Fig. 6. in Terra, quae umbra, Luna macula instat, per longum Terra spatium, solis videtur, dum nos, his Solis sic dicta eclipses in oculis incurrit.



Phases of the Moon	
Novilunium	Full Moon
A	M
B	L
C	K
D	J
E	I
F	H
G	G
H	F
I	E
J	D
K	C
L	B
M	A

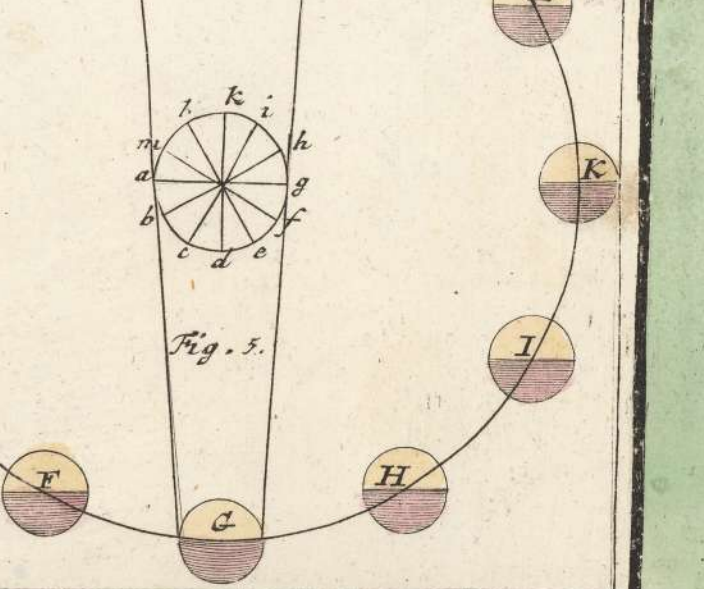
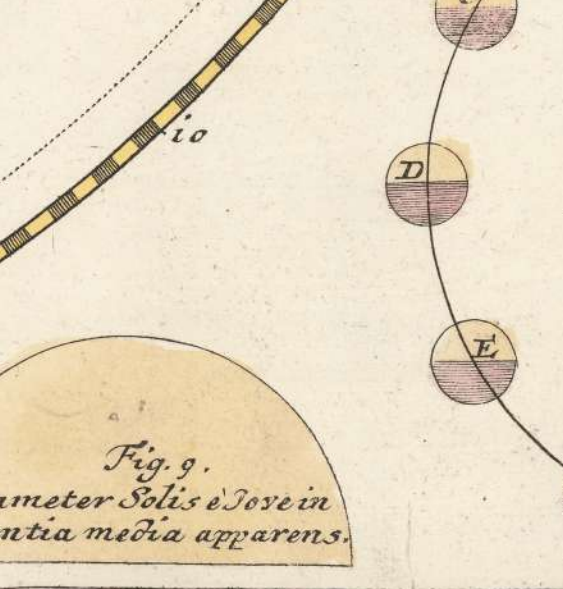
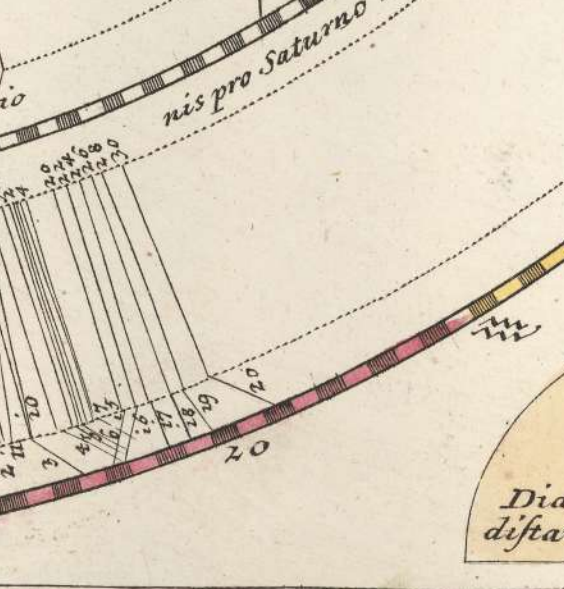
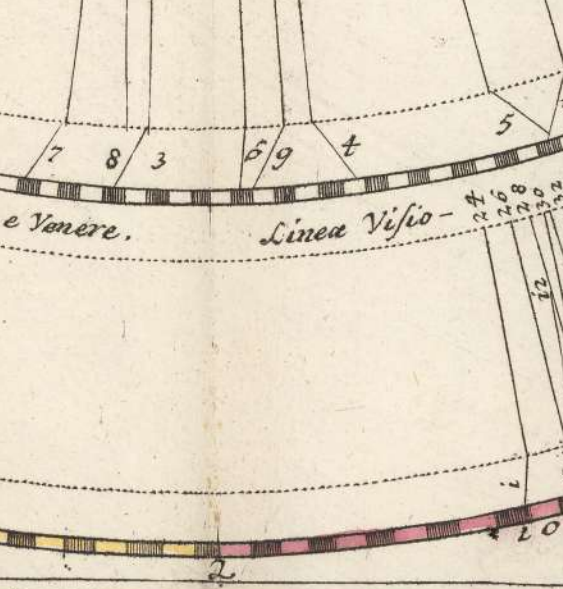
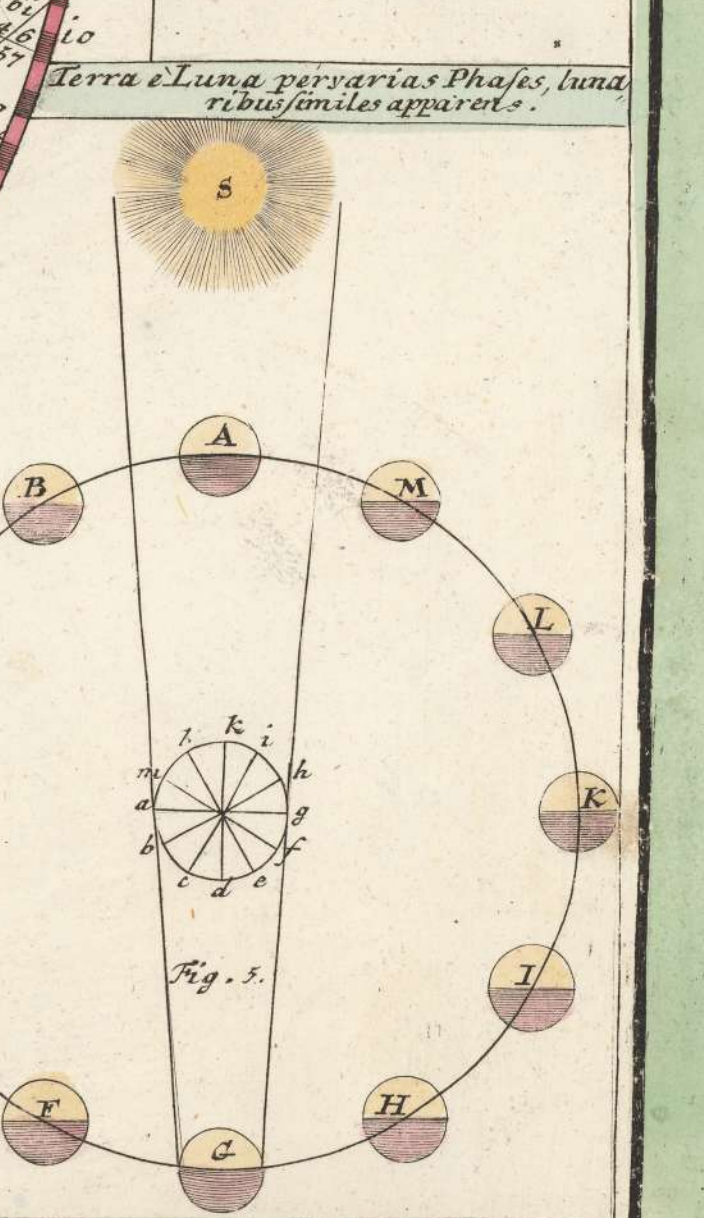
Phases of the Moon	
Novilunium	Full Moon
A	M
B	L
C	K
D	J
E	I
F	H
G	G
H	F
I	E
J	D
K	C
L	B
M	A



Phases of the Moon	
Novilunium	Full Moon
A	M
B	L
C	K
D	J
E	I
F	H
G	G
H	F
I	E
J	D
K	C
L	B
M	A

Phases of the Moon	
Novilunium	Full Moon
A	M
B	L
C	K
D	J
E	I
F	H
G	G
H	F
I	E
J	D
K	C
L	B
M	A

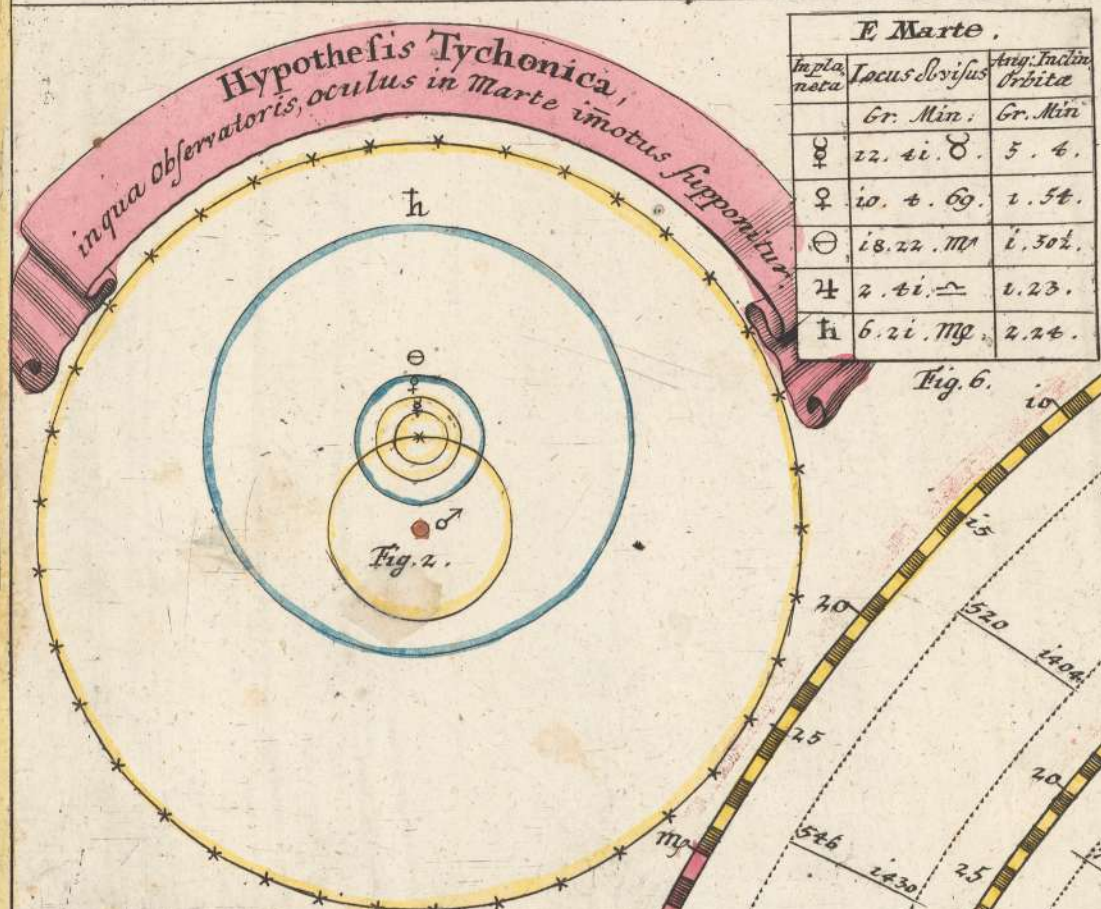
Phases of the Moon	
Novilunium	Full Moon
A	M
B	L
C	K
D	J
E	I
F	H
G	G
H	F
I	E
J	D
K	C
L	B
M	A



ASTRONOMIA COMPARATIVA

in qua Planetarum primaria Phenomena, ad motum spectantia Planetis nostri respectu superioribus, Marte Iove et Saturno sistuntur.
a IOH. GABR. DOPPELMATERO, Acad. Imper. Leopoldino Carolina Nat. Curios. Regiarumque Societatum Scient. Britannica et Borussica Sodali Mathem. Prof. Publ.
Sumtibus Heredum Romanianorum cum P.S.C.M.

30



E Marte.

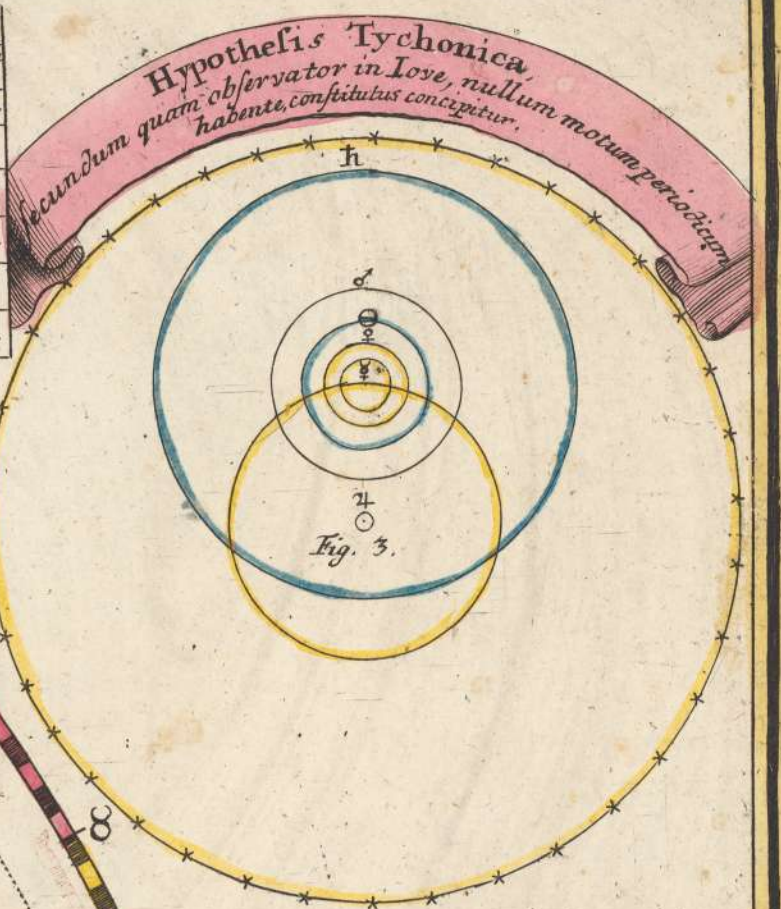
In pla- neta	Locus Solis Gr. Min.	Ang. Inclin. Orbitae Gr. Min.
☉	22. 41. 0.	5. 4.
☿	10. 4. 69.	1. 54.
☽	18. 22. 30.	1. 302.
♂	2. 41. 2.	1. 23.
♂	6. 21. 30.	2. 24.

Fig. 6.

E Iove.

In pla- neta	Locus Solis Gr. Min.	Ang. Inclin. Orbitae Gr. Min.
☉	4. 15. 8.	6. 12.
☿	1. 24. 11.	2. 12.
☽	7. 4. 3.	1. 19. 3.
♂	2. 41. 7.	1. 23.
♂	8. 21. 30.	2. 24.

Fig. 7.

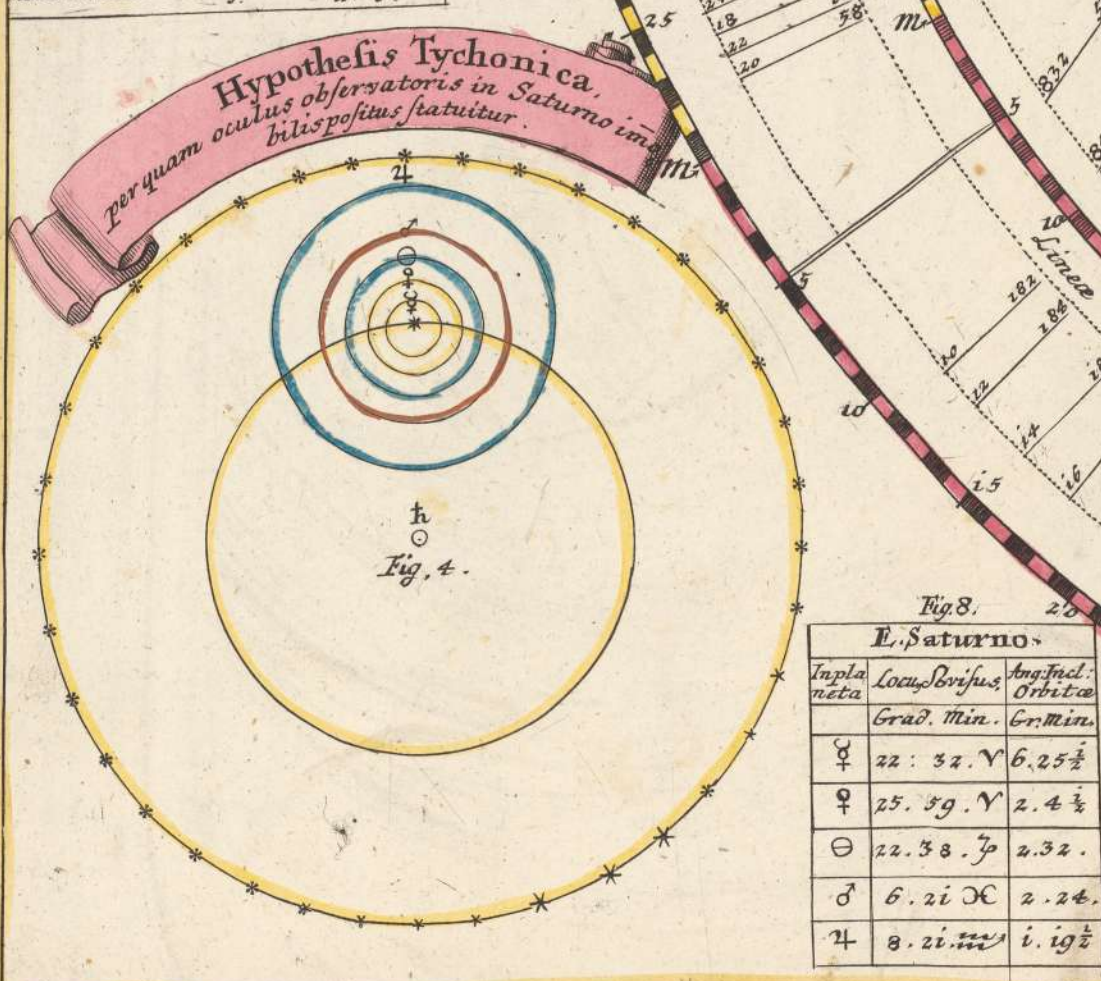


De Astronomia e Marte comparativa

Astronomia a dictis e Marte, cuius or-
bita magnam habet eccentricitatem, diame-
trum Solis apparentem, sed qui altera cir-
cutorum minorum, id est, orbitarum Martis,
hinc quocumque locum et calorem duplicem
habilem quam e Terra, sensu per capi-
tur, propterea duos planetas superiores, Iovem
et Saturnum, et e tribus inferioribus, ve-
rum sub sole, macularum infans, con-
spicuis, duos tantum extra hunc systemam
Terram et Venetiam videtur, hinc Martis
et Iovis artificialis autem, dies semper
et ubique, cum axis diurna gyrationis
ad orbis ejus planum fore sit normalis
nocti aequalis, hinc accipimus diurnum
inter asperitatem hyememque ibidem de-
prehendit, quod apud nos ob magnam
axis terrestris ad eclipticam inclinationem
tamen notabile satis est.

De Astronomia e Iove comparativa

Astronomia a dictis e Iove, cuius or-
bita apparentem e Iove quintuplo
circiter minorem, quam e Terra, ob-
servabit, et proinde lucem et calorem illius
septies et viginti minorem quocumque per-
sonabit. Hic planetas quatuor inferiores
habet, qui per se sub sole, tanquam
maculae, extra hunc systemam, vero, non
quam, fore, ob solis viciniam, spectabi-
les, hinc obiectum, supplet, Saturnus,
qui, est inter superiores solus, ita
men, aliis planetis, quinque nempe
comitibus et anulo cinctus, et Iove
interitum perquam viciniam deprehendit.
Anus jovialis duodecim nostris
fore aequalis est, multo minor vero
ibidem dies naturalis, qui vix
ad decem horas pertingit nostris
et artificialis, nocti fore aequalis, ubi
et iterum vix ullum discrimen inter
hyemem et asperitatem intercedit, proinde
superioribus notum est. Per noctes su-
periores ibidem a sole aversa e e
Satellitibus jovialibus, semper fore ab
uno, duobus, sepe ab omnibus, pro
ut Terra, a nostra Luna illuminata,
per, sepius tamen imminuitur hac
illuminatione cum quam plurima,
quia orbitae illarum a Iovis orbita pau-
lulum tantum distat, centales et octo,
mirabiles eclipses oriuntur, hinc et non
nihil luminis illis deficere nescit.



E Saturno.

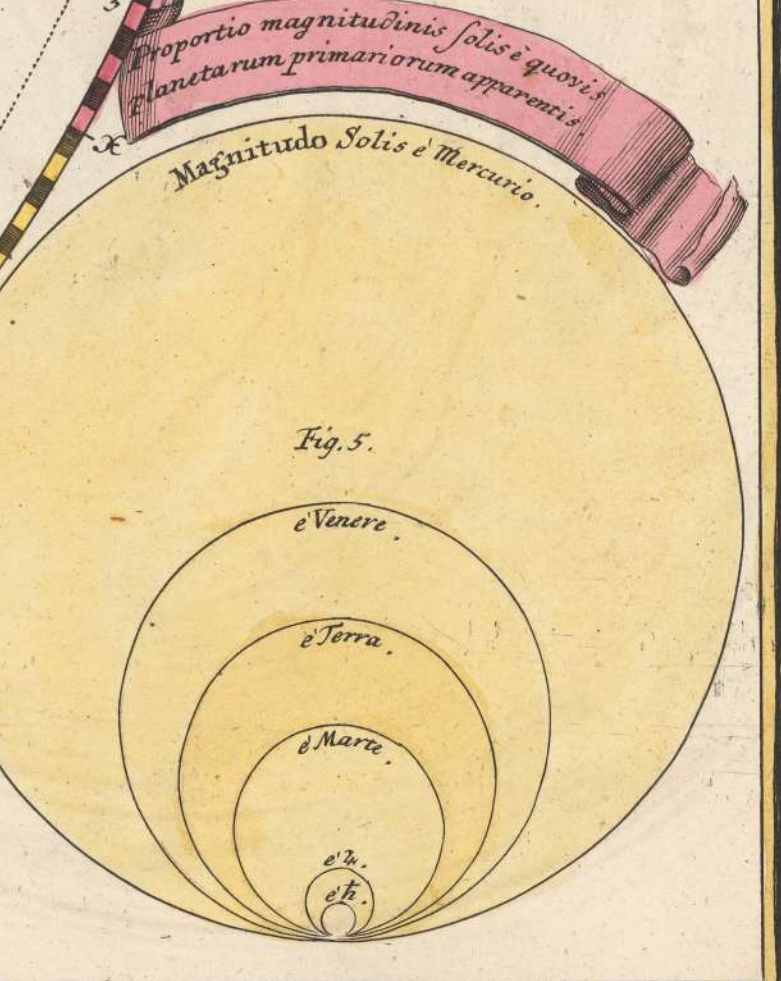
In pla- neta	Locus Solis Gr. Min.	Ang. Inclin. Orbitae Gr. Min.
☉	22. 51. 7.	6. 25. 2.
☿	25. 29. 7.	2. 4. 2.
☽	22. 58. 3.	2. 32.
♂	6. 21. 30.	2. 24.
♂	8. 21. 30.	1. 19. 2.

Fig. 8.

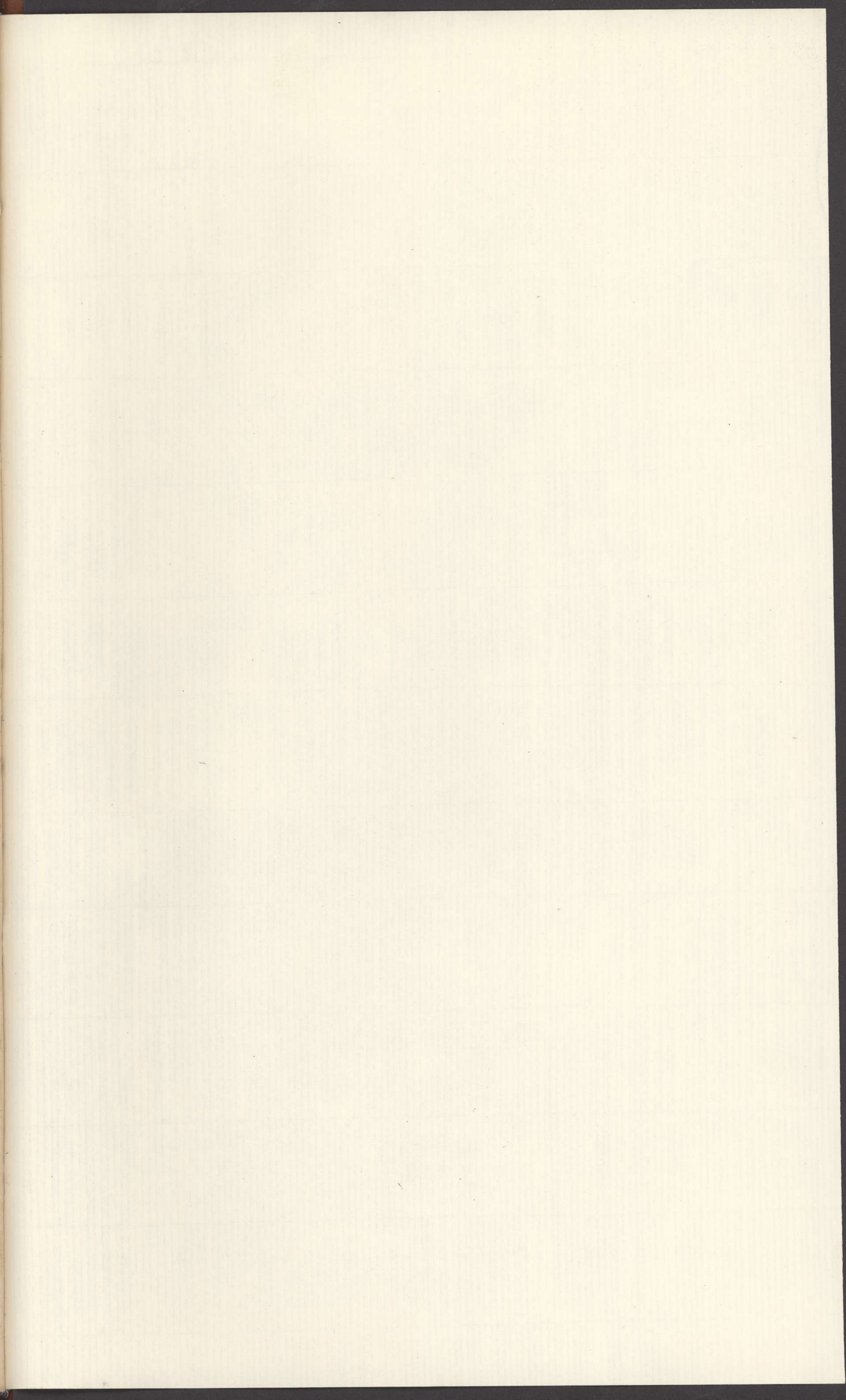
Magnitudo Solis appar.

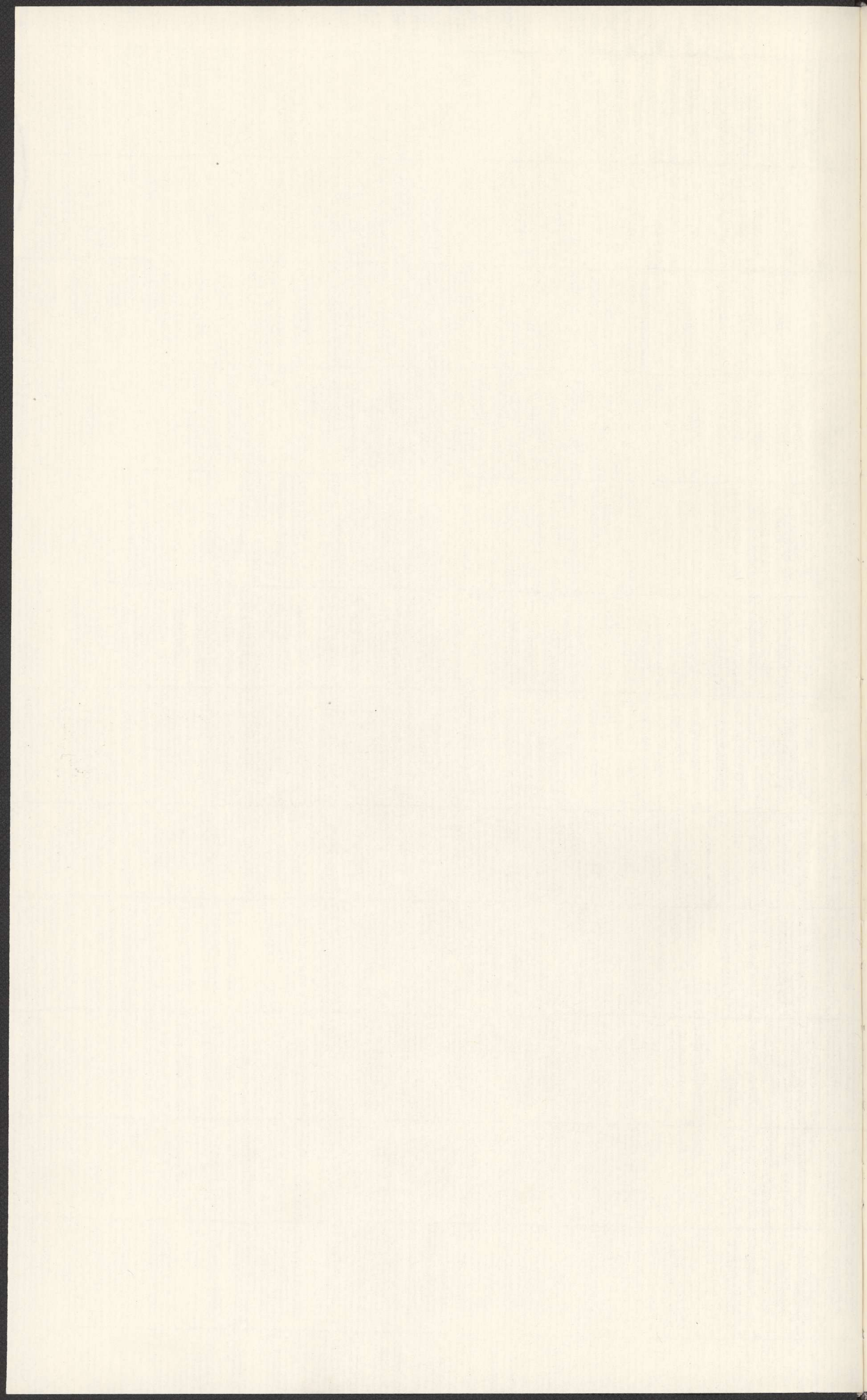
In pla- neta	Gr. Min. Sec. in part. ang.
☉	1. 23. 24. 5004.
☿	0. 44. 30. 2670.
☽	0. 32. 13. 1935.
♂	0. 21. 8. 1268.
♂	0. 6. 10. 370.
♂	0. 3. 22. 202.

Fig. 9.



Reverentia sacra suam non simul tradit. Illa arcana non promissae
culis tunc futuris patent, reducta et in interiore sacro clauduntur. Illa se-
culis aliud, quae post nos subitaspiciet. Quando ergo ista innotuerint, nostram perhibentur
tante magna proveniunt, si labor cessat. Sen. Lib. VII.





Pracowni Inteligencyjnej
KSIĄZNICY POMORSKIEJ

Oprawę wykonał:

..... Tomasz Gintowit

Szczecin, dn. 31.05.2001

Janina

KSIAZNICA POMORSKA
BIV-14
K 138
KARTOGRAFIA